

Dissolution Method Validation

Product name :	Ramithiazide Tablets
Lable claim :	Ramipril 10 mg & Hydrochlorothiazide 25 mg
B. No. :	GP170403
Test :	Robustness Change in Column Temperature 23°C

Analysis Date:	16-Jun-17
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Name of Standard	Standard Purity(%)	Standard Wt (mg)	Dilution Details	Conc (ppm)
Ramipril	99.8	25.14	250 mL, 3 mL ->25 mL	12.1
Hydrochlorothiazide	99.9	30.22	250 mL, 6 mL ->25 mL	29.0

Injection No.	Hydrochlorothiazide		Ramipril	
	Retention Time	Area of Standard	Retention Time	Area of Standard
1	2.208	15751.677	4.203	4302.851
2	2.203	15765.768	4.203	4298.197
3	2.208	15778.837	4.203	4302.398
4	2.208	15788.094	4.203	4296.527
5	2.208	15780.808	4.208	4303.889
Average	2.207	15773.037	4.204	4300.772
SD	0.002	14.40	0.002	3.21
%RSD	0.10	0.09	0.05	0.07

System Suitability Results		
% RSD of Ramipril	0.07	NMT 2.0%
% RSD of HCTZ	0.09	NMT 2.0%

Test Solution :	1 Tablet	mg	750.0	mL with Dissolution Media
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Sample No.	Sample Weight (mg)	Area of Sample		% Assay	
		Hydrochlorothiazide	Ramipril	Hydrochlorothiazide	Ramipril
1	199.78	18073.359	4732.170	99.6	99.4
2	201.78	18526.095	4658.709	102.1	97.8
3	199.09	18834.831	4860.698	103.8	102.1
4	195.22	18156.717	4628.640	100.1	97.2
5	193.46	18694.855	4697.421	103.1	98.7
6	195.90	18701.612	4747.541	103.1	99.7
		Average		102.0	99.1
		SD		1.7	1.7
		%RSD		1.7	1.7

Done by:
Date:

Praveen
18-Jun-17

Checked by:
Date:

Praveen
20-Jun-17

Dissolution Method Validation

Product name :	Ramithiazide Tablets
Lable claim :	Ramipril 10 mg & Hydrochlorothiazide 25 mg
B. No. :	GP170403
Test :	Robustness Change in Column Temperature 27°C

Analysis Date:	16-Jun-17
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Name of Standard	Standard Purity(%)	Standard Wt (mg)	Dilution Details	Conc (ppm)
Ramipril	99.8	25.14	250 mL; 3 mL ->25 mL	12.1
Hydrochlorothiazide	99.9	30.22	250 mL; 6 mL ->25 mL	29.0

Injection No.	Hydrochlorothiazide		Ramipril	
	Retention Time	Area of Standard	Retention Time	Area of Standard
1	2.165	15681.072	4.048	4270.089
2	2.169	15694.322	4.053	4305.657
3	2.165	15664.420	4.048	4272.915
4	2.169	15691.802	4.053	4274.695
5	2.169	15703.744	4.053	4275.565
Average	2.167	15687.072	4.051	4279.784
SD	0.002	15.02	0.003	14.61
%RSD	0.10	0.10	0.07	0.34

System Suitability Results		
% RSD of Ramipril	0.34	NMT 2.0%
% RSD of HCTZ	0.10	NMT 2.0%

Test Solution :	1 Tablet	mg	750.0	mL with Dissolution Media
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Sample No.	Sample Weight (mg)	Area of Sample		% Assay	
		Hydrochlorothiazide	Ramipril	Hydrochlorothiazide	Ramipril
1	199.78	17955.620	4730.848	99.5	99.8
2	201.78	18392.834	4633.310	101.9	97.8
3	199.09	18690.478	4830.215	103.6	101.9
4	195.22	18079.802	4658.345	100.2	98.3
5	193.46	18579.730	4690.122	103.0	99.0
6	195.90	18555.109	4706.766	102.8	99.3
		Average		101.8	99.4
		SD		1.6	1.5
		%RSD		1.6	1.5

Done by: 
Date: 18-Jun-17

Checked by: 
Date: 20-Jun-17

Dissolution Method Validation

Product name :	Ramithiazide Tablets
Lable claim :	Ramipril 10 mg & Hydrochlorothiazide 25 mg
B. No. :	GP170403
Test :	Robustness- Change in Buffer pH of Mobile Phase 2.3

Analysis Date:	16-Jun-17
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Name of Standard	Standard Purity(%)	Standard Wt (mg)	Dilution Details	Conc (ppm)
Ramipril	99.8	25.48	250 mL; 3 mL ->25 mL	12.2
Hydrochlorothiazide	99.9	30.11	250 mL; 6 mL ->25 mL	28.9

Injection No.	Hydrochlorothiazide		Ramipril	
	Retention Time	Area of Standard	Retention Time	Area of Standard
1	2.199	15763.795	4.179	4302.353
2	2.194	15764.927	4.179	4298.570
3	2.194	15791.387	4.179	4303.950
4	2.194	15817.227	4.179	4313.869
5	2.194	15795.364	4.174	4306.998
Average	2.195	15786.540	4.178	4305.148
SD	0.002	22.51	0.002	5.74
%RSD	0.10	0.14	0.05	0.13

System suitability results		
% RSD of Ramipril	0.13	NMT 2.0%
% RSD of HCTZ	0.14	NMT 2.0%

Test Solution :	1 Tablet	mg	750.0	mL with Dissolution Media
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Sample No.	Sample Weight (mg)	Area of Sample		% Assay	
		Hydrochlorothiazide	Ramipril	Hydrochlorothiazide	Ramipril
1	199.78	18042.611	4736.037	99.0	100.7
2	201.78	18473.910	4613.058	101.4	98.1
3	199.09	18772.444	4861.278	103.0	103.4
4	195.22	18147.749	4630.897	99.6	98.5
5	193.46	18667.239	4691.774	102.4	99.8
6	195.90	18656.892	4697.324	102.4	99.9
		Average		101.3	100.0
		SD		1.6	1.9
		%RSD		1.6	1.9

Done by: *[Signature]*
Date: 18-Jun-17

Checked by: *[Signature]*
Date: 20-Jun-17

Dissolution Method Validation

Product name :	Ramithiazide Tablets
Lable claim :	Ramipril 10 mg & Hydrochlorothiazide 25 mg
B. No. :	GP170403
Test :	Robustness- Change in Buffer pH of Mobile Phase 2.7

Analysis Date:	16-Jun-17
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Name of Standard	Standard Purity(%)	Standard Wt (mg)	Dilution Details	Conc (ppm)
Ramipril	99.8	25.16	250 mL, 3 mL ->25 mL	12.1
Hydrochlorothiazide	99.9	30.19	250 mL, 6 mL ->25 mL	29.0

Injection No.	Hydrochlorothiazide		Ramipril	
	Retention Time	Area of Standard	Retention Time	Area of Standard
1	2.199	16426.171	4.159	4433.706
2	2.194	15879.012	4.154	4304.563
3	2.199	15846.332	4.159	4322.411
4	2.199	15865.212	4.154	4307.322
5	2.194	15905.983	4.154	4308.364
Average	2.197	15984.542	4.156	4335.273
SD	0.003	247.83	0.003	55.46
%RSD	0.12	1.55	0.07	1.28

System suitability results		
% RSD of Ramipril	1.28	NMT 2.0%
% RSD of HCTZ	1.55	NMT 2.0%

Test Solution :	1 Tablet	mg	750.0	mL with Dissolution Media
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Sample No.	Sample Weight (mg)	Area of Sample		% Assay	
		Hydrochlorothiazide	Ramipril	Hydrochlorothiazide	Ramipril
1	199.78	18061.025	4716.290	98.1	98.3
2	201.78	18508.944	4635.468	100.6	96.7
3	199.09	18796.281	4834.783	102.1	100.8
4	195.22	18164.911	4661.161	98.7	97.2
5	193.46	18656.779	4699.525	101.4	98.0
6	195.90	18654.228	4711.586	101.4	98.2
		Average		100.4	98.2
		SD		1.6	1.4
		%RSD		1.6	1.5

Done by: 
Date: 18-Jul-17

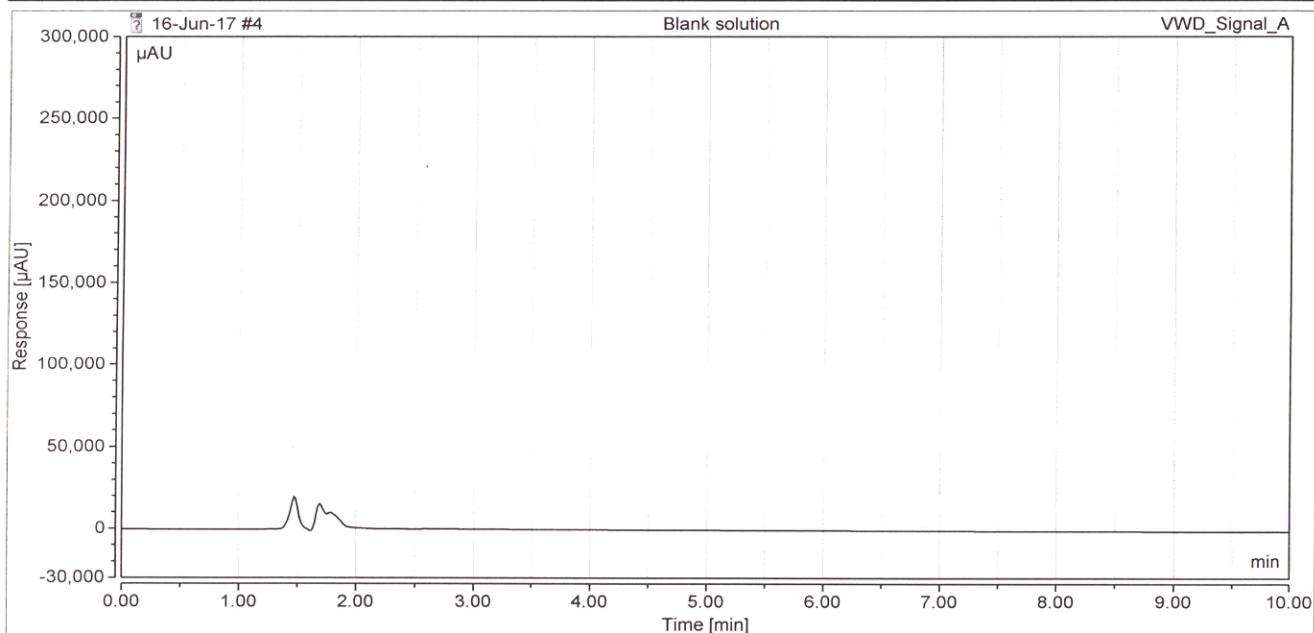
Checked by: 
Date: 20-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Blank solution	Run Time (min):	10.00
Vial Number:	Vial:1	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_23 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	16/Jun/2017 20:48	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
Total:			0.000			

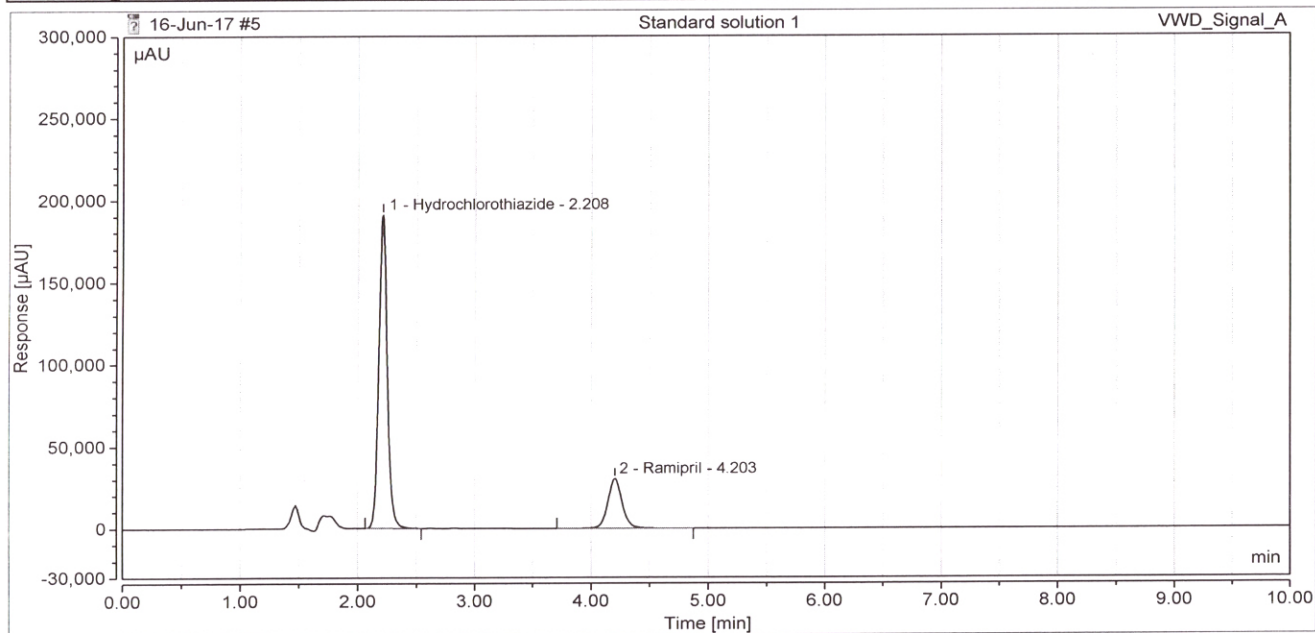
Pankaj Gurav
18-Jun-17

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Injection Details

Injection Name:	Standard solution 1	Run Time (min):	10.00
Vial Number:	Vial:2	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_23 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	16/Jun/2017 20:59	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.208	15751.677	78.54	4817	1.17
2	Ramipril	4.203	4302.851	21.46	6085	1.08
Total:			20054.528			

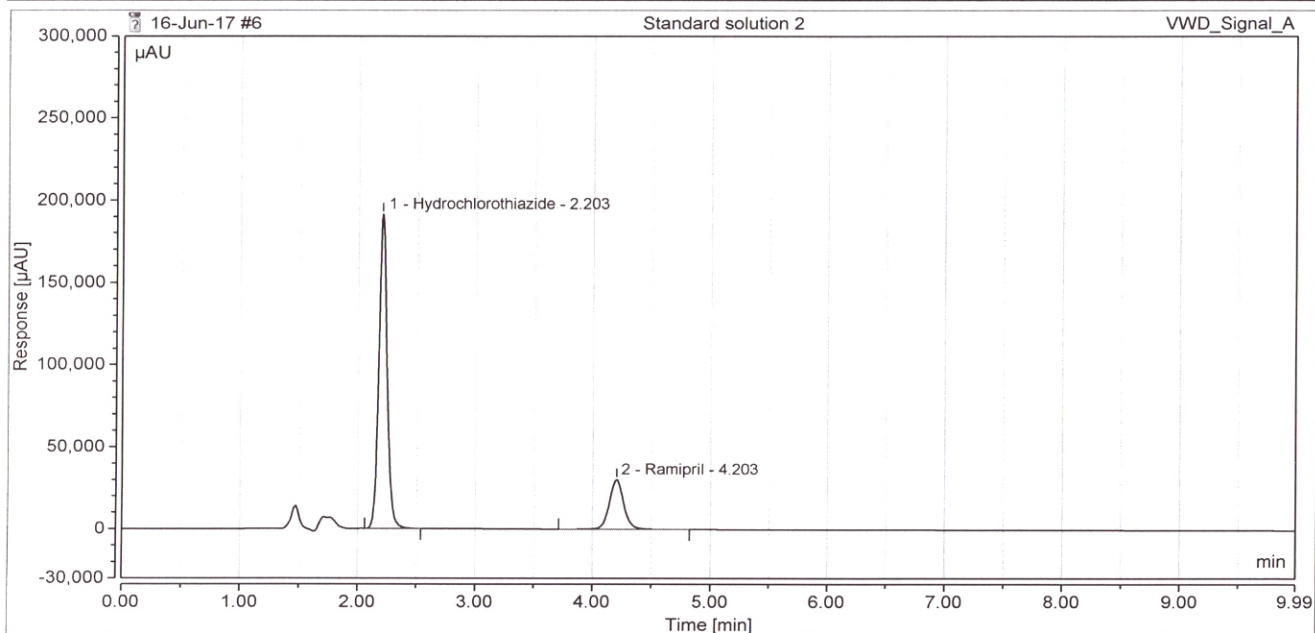
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18-Jun-17

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Injection Details

Injection Name:	Standard solution 2	Run Time (min):	9.99
Vial Number:	Vial:2	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_23 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	16/Jun/2017 21:11	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.203	15765.768	78.58	4822	1.20
2	Ramipril	4.203	4298.197	21.42	6127	1.07
Total:			20063.966			

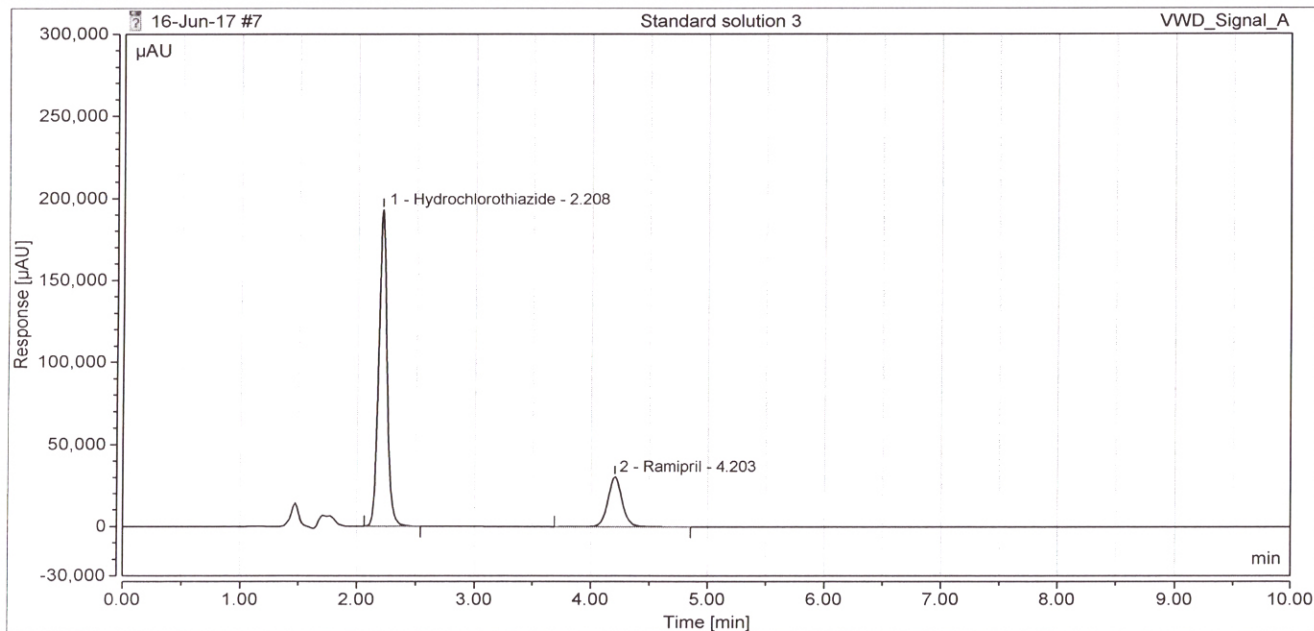
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18-Jun-17

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Injection Details

Injection Name:	Standard solution 3	Run Time (min):	10.00
Vial Number:	Vial:2	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_23 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	16/Jun/2017 21:22	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.208	15778.837	78.58	4913	1.18
2	Ramipril	4.203	4302.398	21.42	6159	1.08
Total:			20081.235			

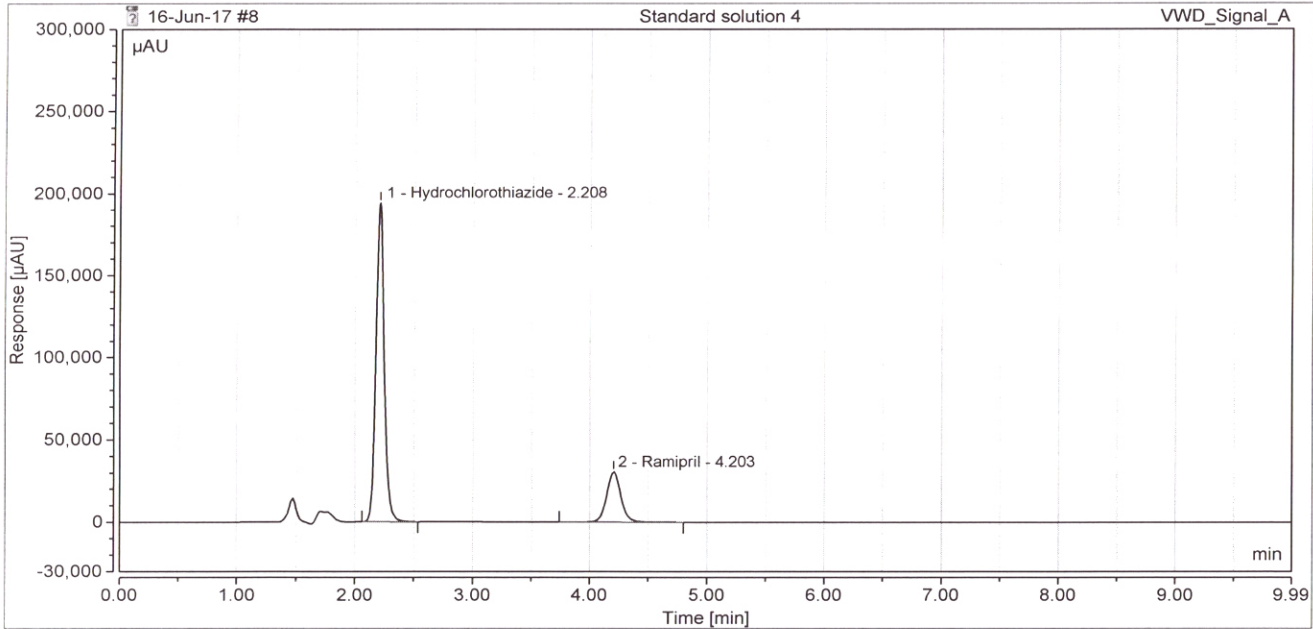
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Injection Details

Injection Name:	Standard solution 4	Run Time (min):	9.99
Vial Number:	Vial:2	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_23 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	16/Jun/2017 21:34	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.208	15788.094	78.61	4978	1.16
2	Ramipril	4.203	4296.527	21.39	6190	1.09
Total:			20084.621			

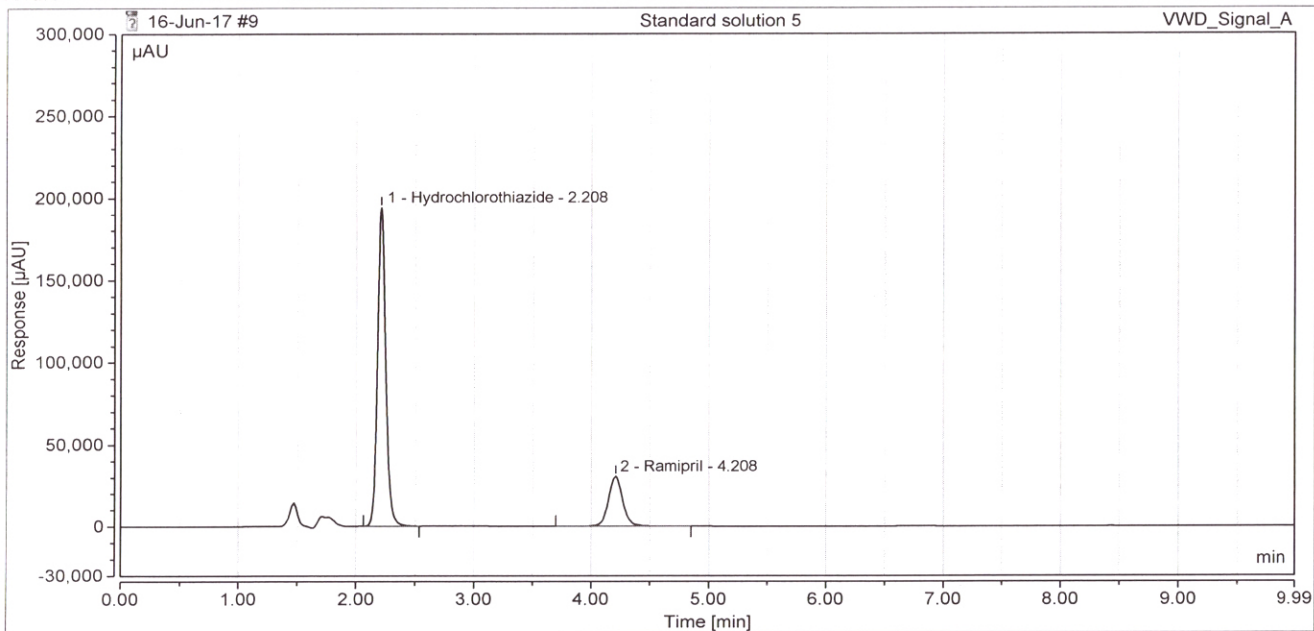
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Injection Details

Injection Name:	Standard solution 5	Run Time (min):	9.99
Vial Number:	Vial:2	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_23 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	16/Jun/2017 21:46	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.208	15780.808	78.57	4960	1.18
2	Ramipril	4.208	4303.889	21.43	6195	1.07
Total:			20084.697			

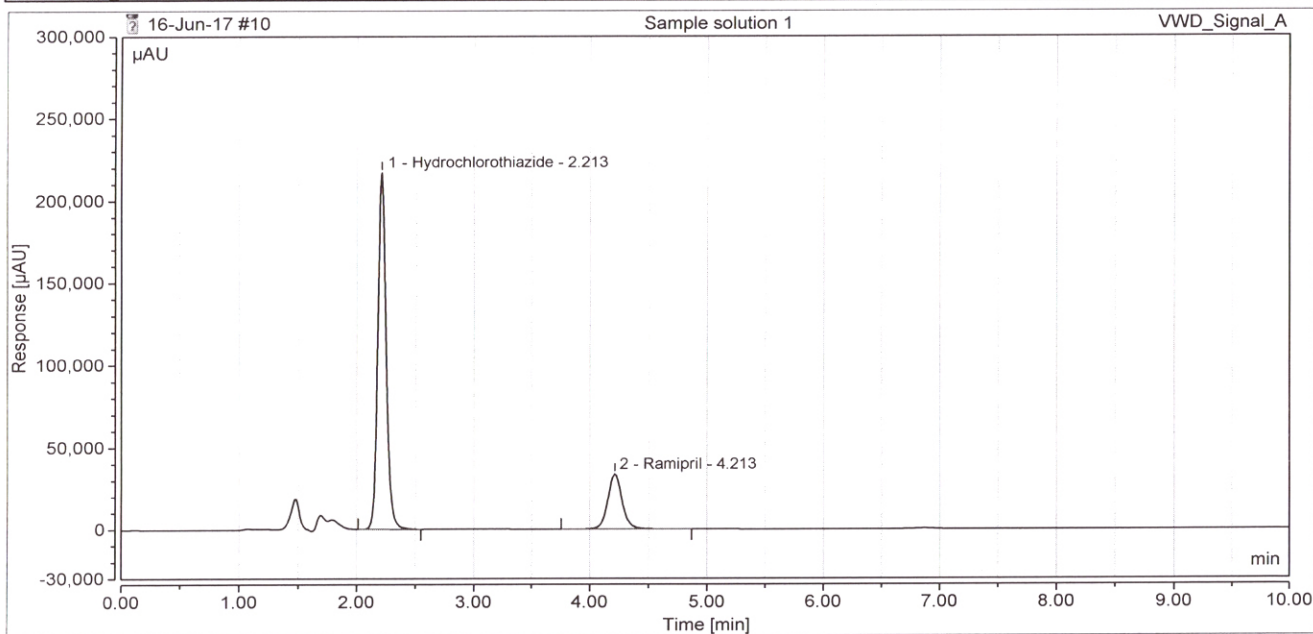
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18-Jun-17

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Injection Details

Injection Name:	Sample solution 1	Run Time (min):	10.00
Vial Number:	Vial:5	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_23 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	16/Jun/2017 21:57	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.213	18073.359	79.25	4761	1.16
2	Ramipril	4.213	4732.170	20.75	6235	1.08
Total:			22805.529			

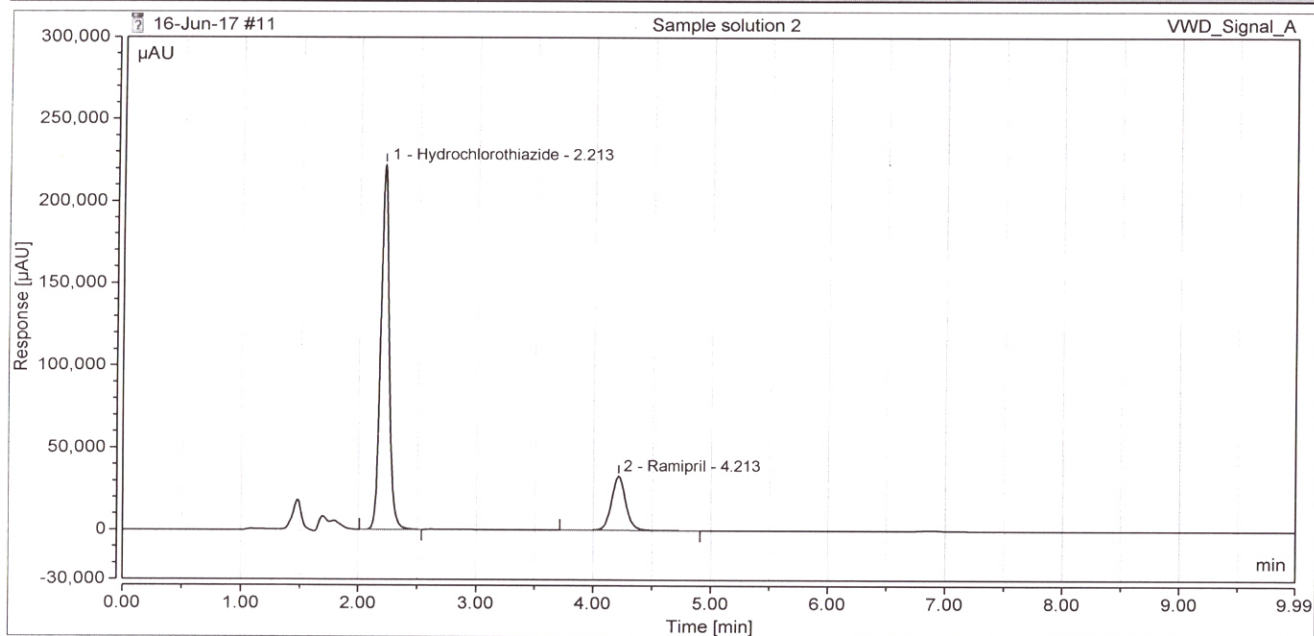
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18-Jun-17

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Injection Details

Injection Name:	Sample solution 2	Run Time (min):	9.99
Vial Number:	Vial:6	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_23 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	16/Jun/2017 22:09	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.213	18526.095	79.91	4761	1.14
2	Ramipril	4.213	4658.709	20.09	6246	1.07
Total:			23184.805			

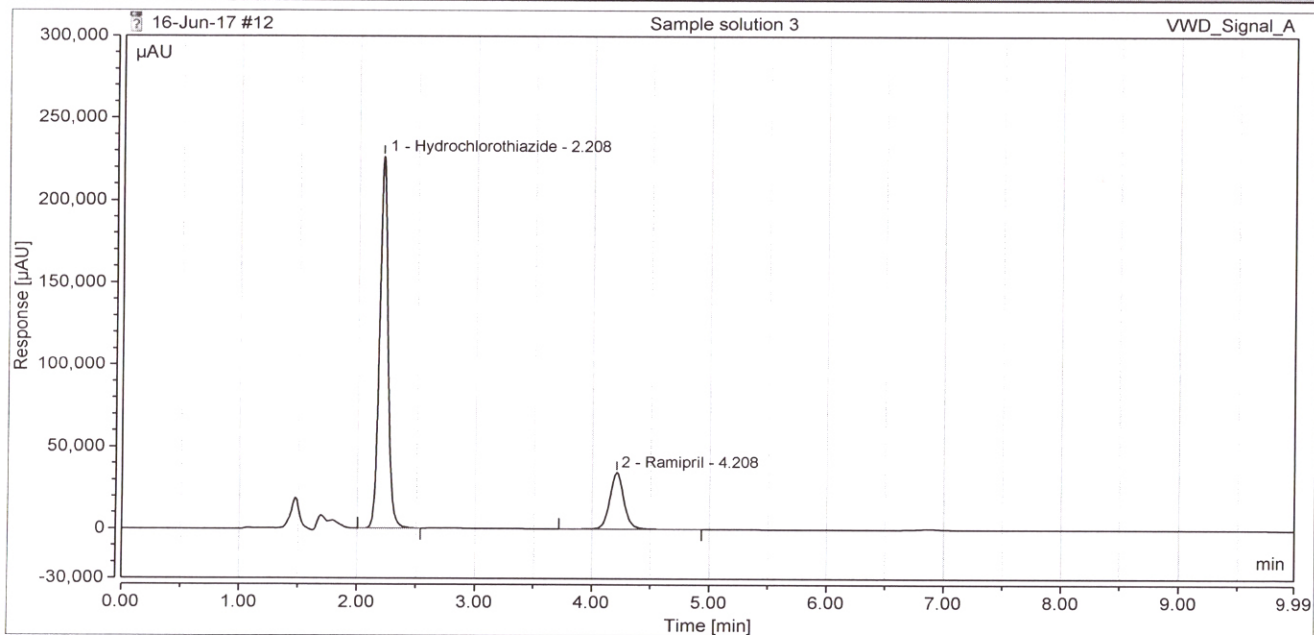
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18-Jun-17

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Injection Details

Injection Name:	Sample solution 3	Run Time (min):	9.99
Vial Number:	Vial:7	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_23 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	16/Jun/2017 22:20	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.208	18834.831	79.49	4747	1.19
2	Ramipril	4.208	4860.698	20.51	6244	1.09
Total:			23695.528			

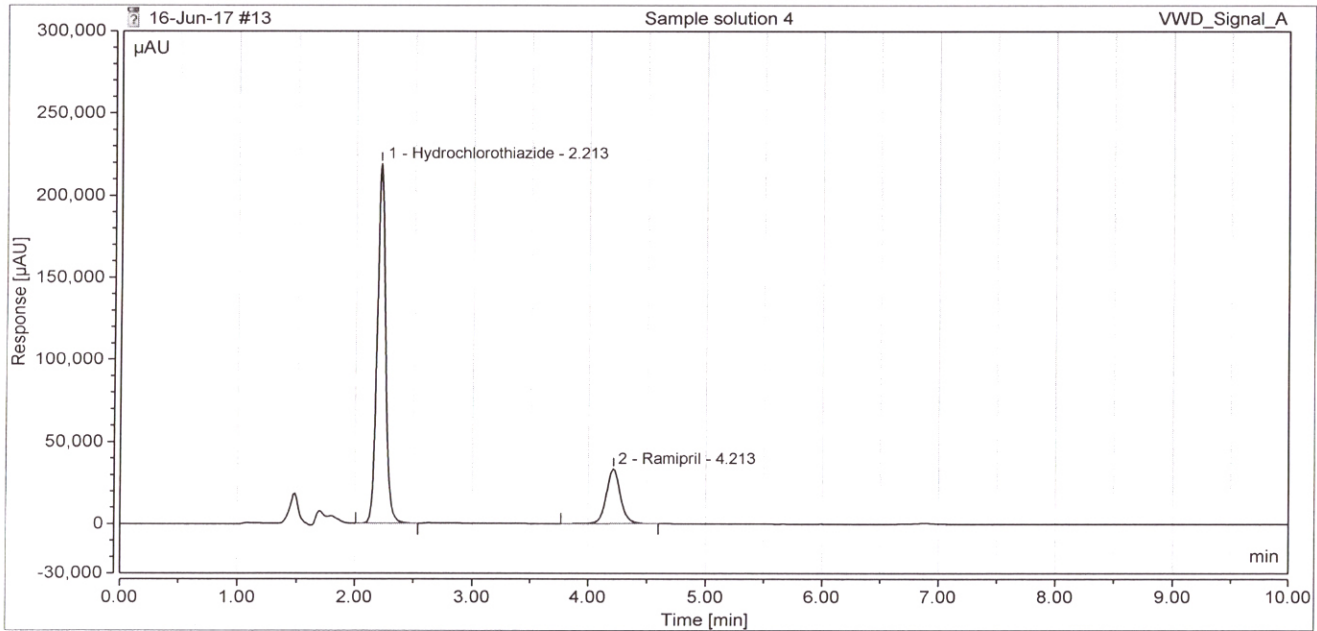
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18-Jun-17

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Injection Details

Injection Name:	Sample solution 4	Run Time (min):	10.00
Vial Number:	Vial:8	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_23 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	16/Jun/2017 22:32	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.213	18156.717	79.69	4806	1.18
2	Ramipril	4.213	4628.640	20.31	6311	1.08
Total:			22785.357			

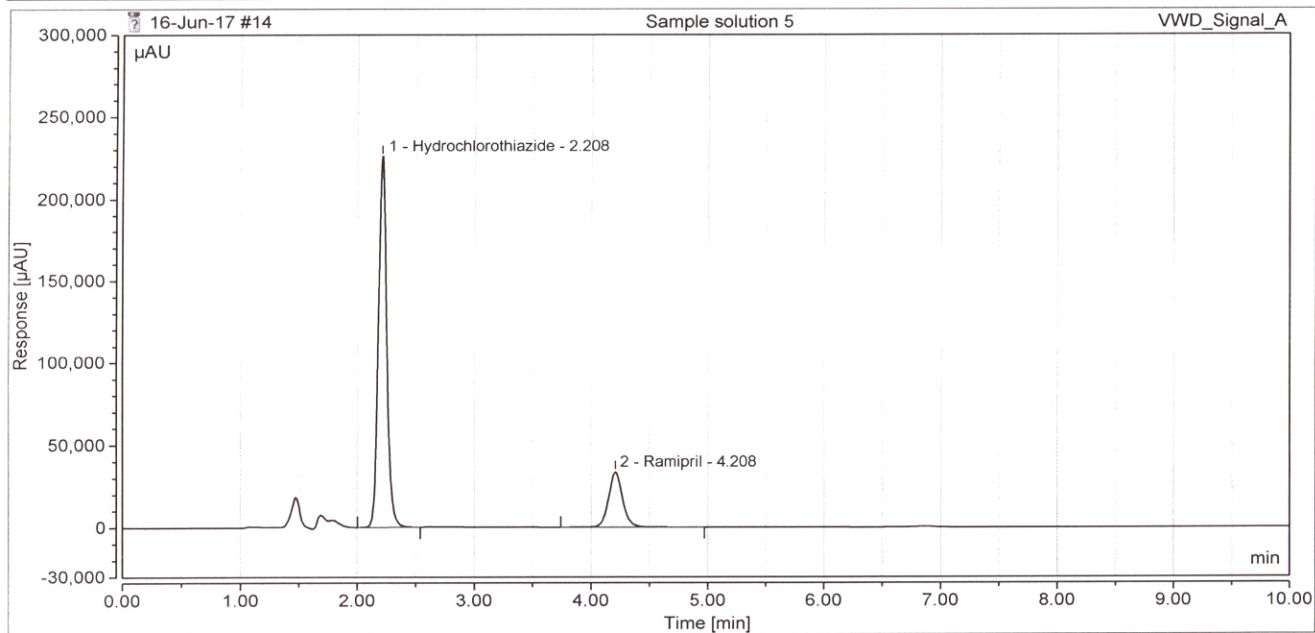
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18-Jun-17

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Injection Details

Injection Name:	Sample solution 5	Run Time (min):	10.00
Vial Number:	Vial:9	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_23 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	16/Jun/2017 22:43	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram

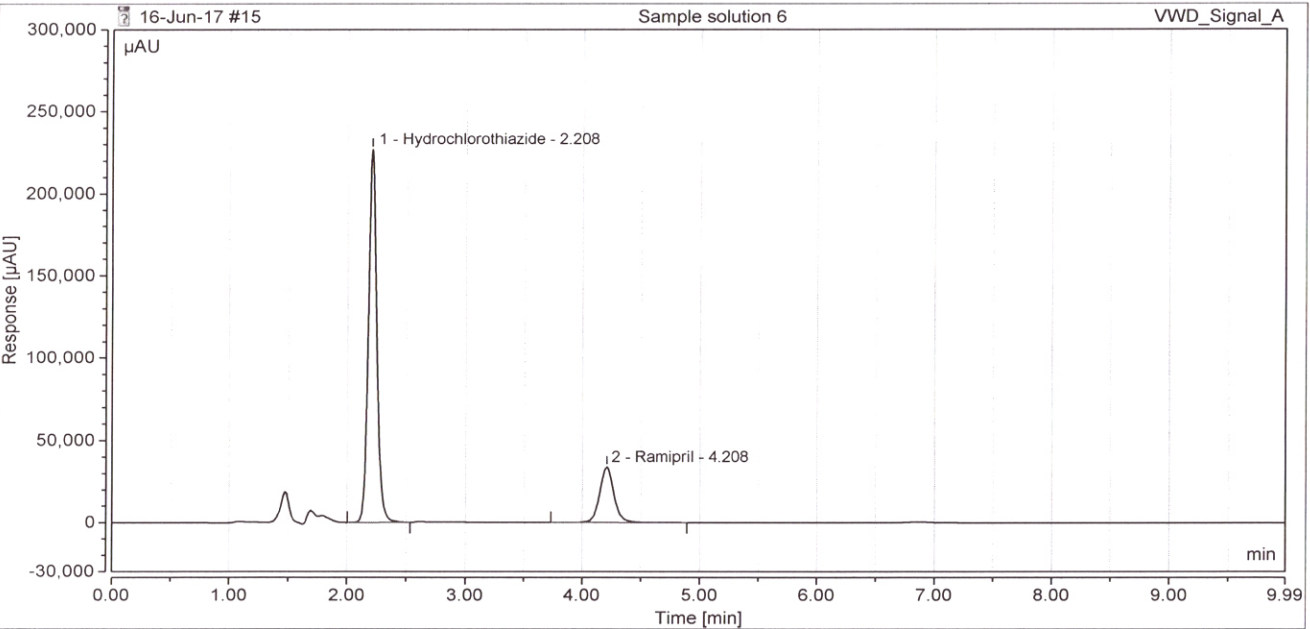


Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.208	18694.855	79.92	4827	1.20
2	Ramipril	4.208	4697.421	20.08	6275	1.09
Total:			23392.276			

18-Jun-17

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Injection Details					
Injection Name:	Sample solution 6	Run Time (min):	9.99		
Vial Number:	Vial:10	Injection Volume:	10.00		
Injection Type:	Unknown	Channel:	VWD_Signal_A		
Instrument Method:	Ramithiazide Dissolution HPLC-59_23 Deg	Wavelength:	210		
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59		
Injection Date/Time:	16/Jun/2017 22:55	Sequence Name:	16-Jun-17		
User Name:	Pankaj Gurav				
Chromatogram					



Integration Results						
No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.208	18701.612	79.75	4841	1.17
2	Ramipril	4.208	4747.541	20.25	6277	1.08
Total:			23449.154			

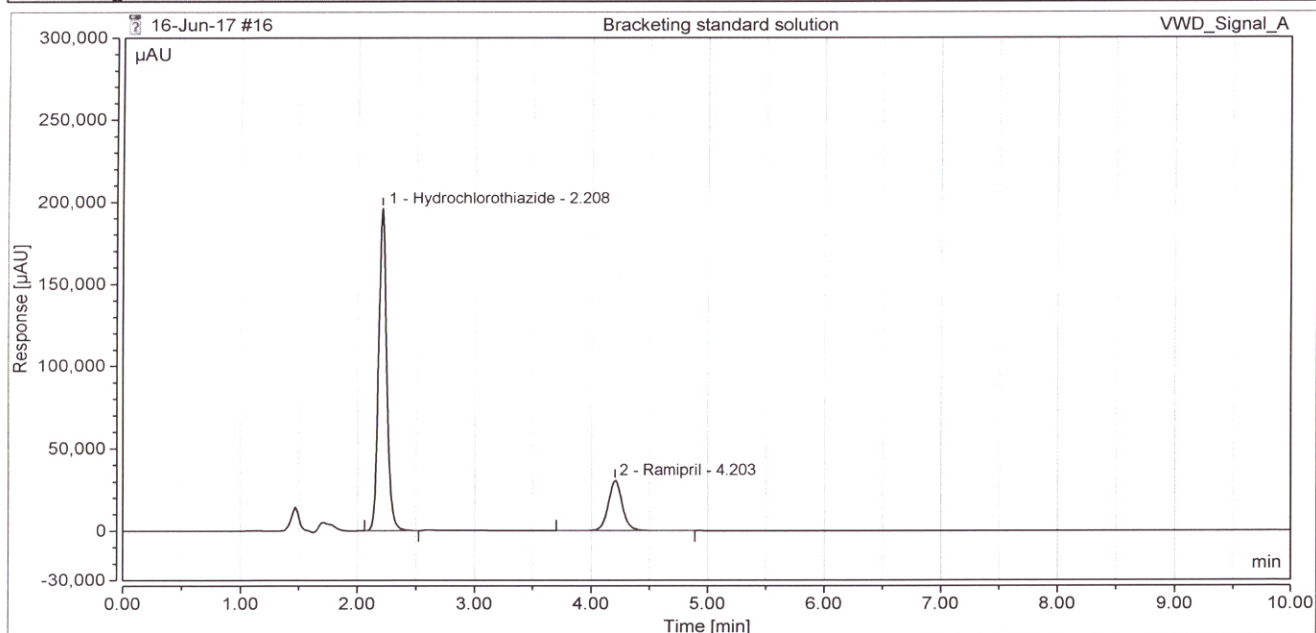
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18-Jun-17

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Injection Details

Injection Name:	Bracketing standard solution	Run Time (min):	10.00
Vial Number:	Vial:2	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_23 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	16/Jun/2017 23:07	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram

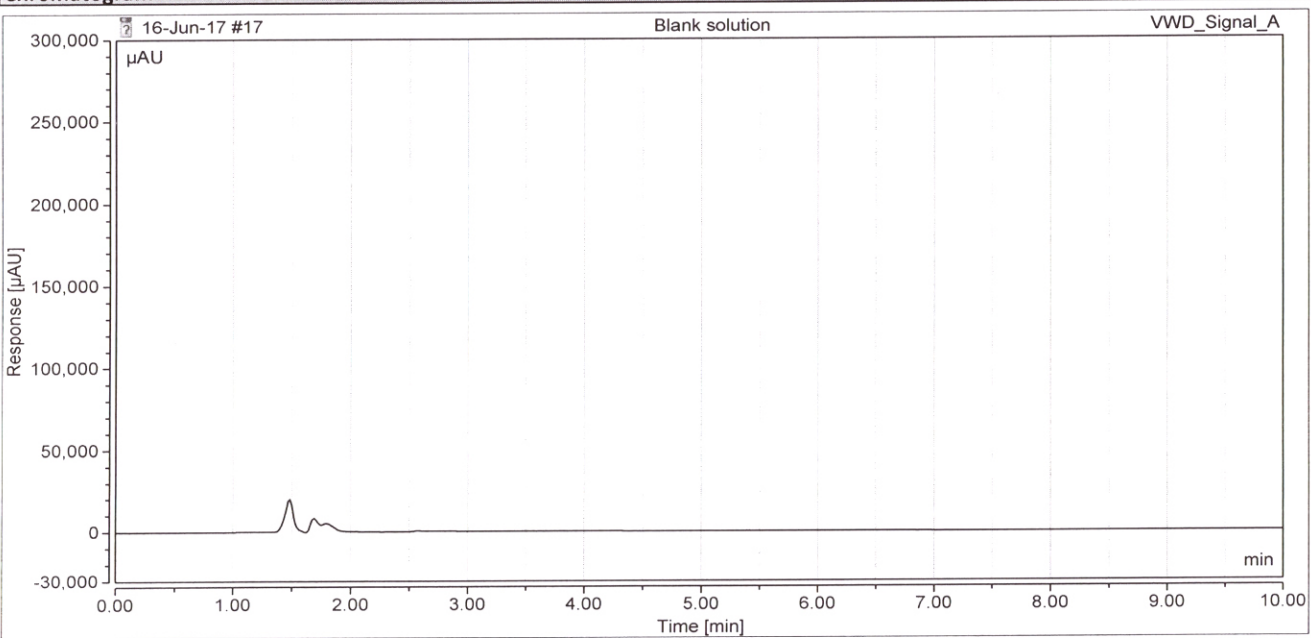


Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.208	15759.443	78.56	5117	1.19
2	Ramipril	4.203	4300.644	21.44	6236	1.09
Total:			20060.087			

Signature
18-Jun-17

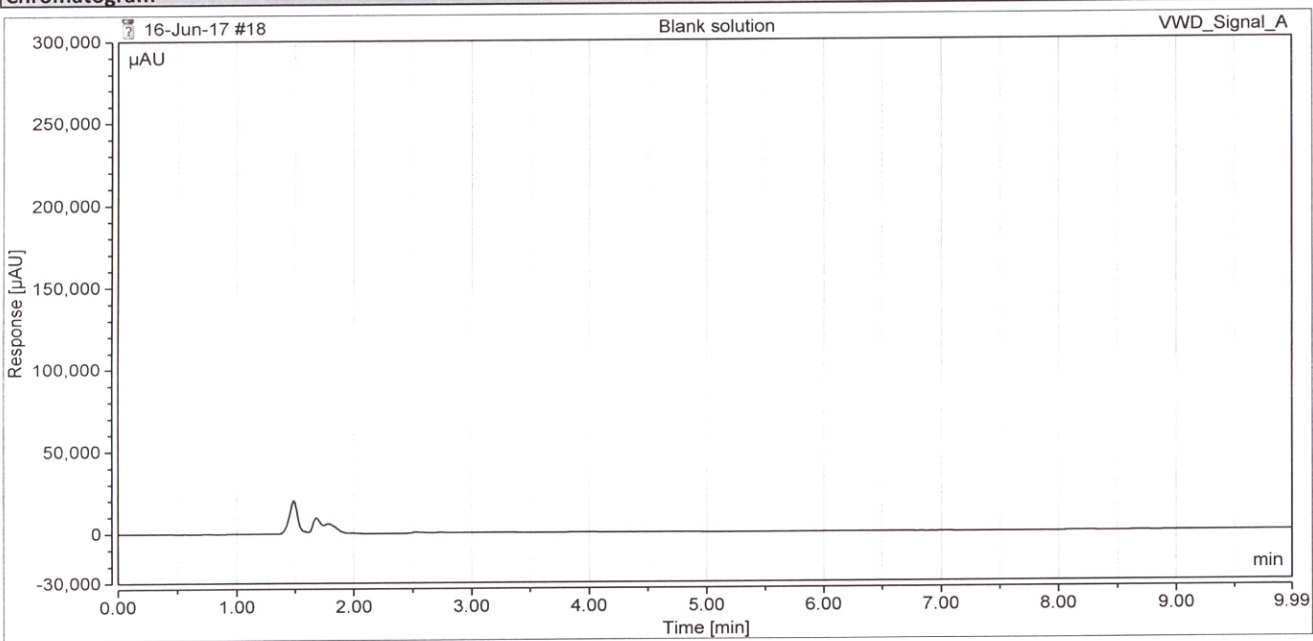
QbD Research and Development Pvt. Ltd		
Injection Details		
Injection Name:	Blank solution	Run Time (min): 10.00
Vial Number:	Vial:1	Injection Volume: 10.00
Injection Type:	Unknown	Channel: VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_27 Deg	Wavelength: 210
Processing Method:	PR Method_1	Instrument Name: QbD-INST-HPLC-59
Injection Date/Time:	16/Jun/2017 23:19	Sequence Name: 16-Jun-17
User Name:	Pankaj Gurav	



Integration Results						
No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
Total:			0.000			

Pankaj Gurav
18-Jun-17

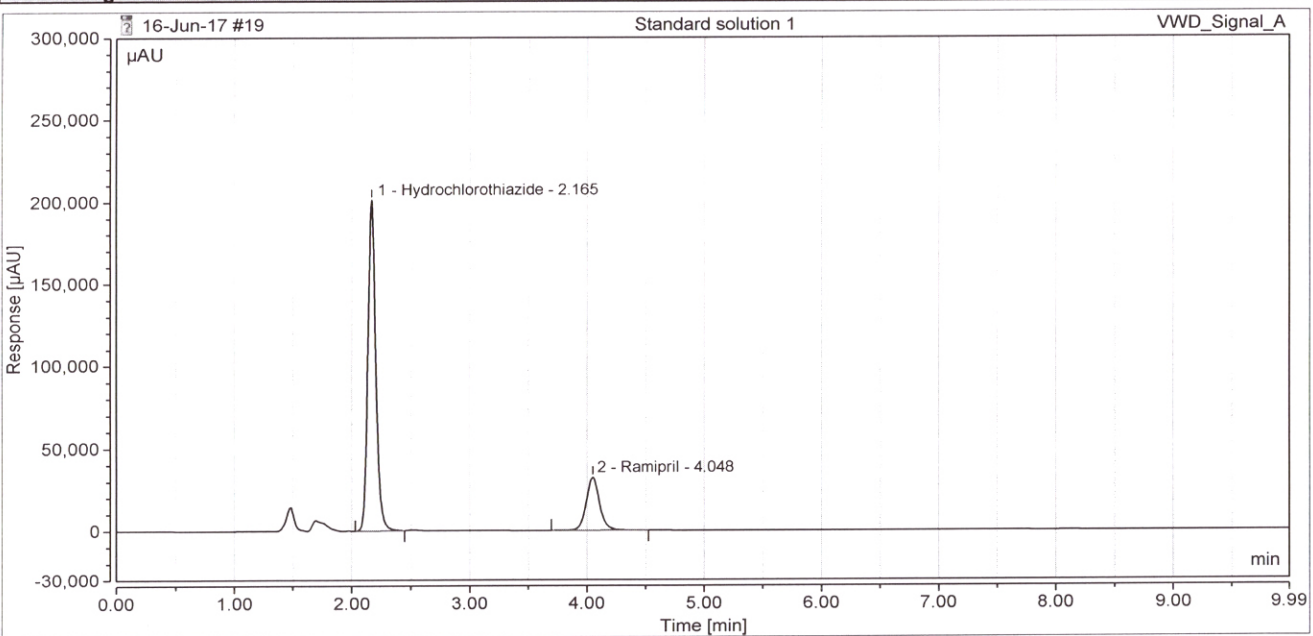
QbD Research and Development Pvt. Ltd		
Injection Details		
Injection Name:	Blank solution	Run Time (min): 9.99
Vial Number:	Vial:1	Injection Volume: 10.00
Injection Type:	Unknown	Channel: VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_27 Deg	Wavelength: 210
Processing Method:	PR Method_1	Instrument Name: QbD-INST-HPLC-59
Injection Date/Time:	16/Jun/2017 23:30	Sequence Name: 16-Jun-17
User Name:	Pankaj Gurav	



Integration Results						
No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
Total:			0.000			

Pankaj Gurav
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QbD Research and Development Pvt. Ltd		
Injection Details		
Injection Name:	Standard solution 1	Run Time (min): 9.99
Vial Number:	Vial:2	Injection Volume: 10.00
Injection Type:	Unknown	Channel: VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_27 Deg	Wavelength: 210
Processing Method:	PR Method_1	Instrument Name: QbD-INST-HPLC-59
Injection Date/Time:	16/Jun/2017 23:42	Sequence Name: 16-Jun-17
User Name:	Pankaj Gurav	



Integration Results						
No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.165	15681.072	78.60	5226	1.19
2	Ramipril	4.048	4270.089	21.40	6454	1.09
Total:			19951.161			

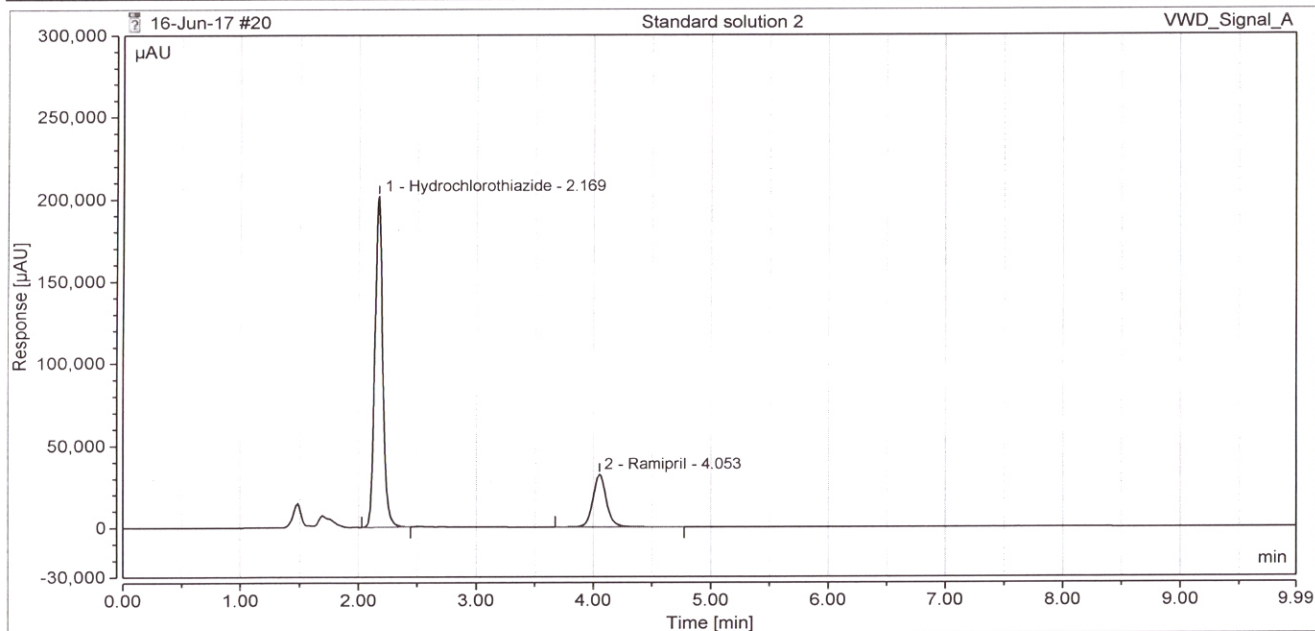
Pankaj Gurav
13-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Standard solution 2	Run Time (min):	9.99
Vial Number:	Vial:2	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_27 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	16/Jun/2017 23:53	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.169	15694.322	78.47	5233	1.15
2	Ramipril	4.053	4305.657	21.53	6466	1.08
Total:			19999.979			

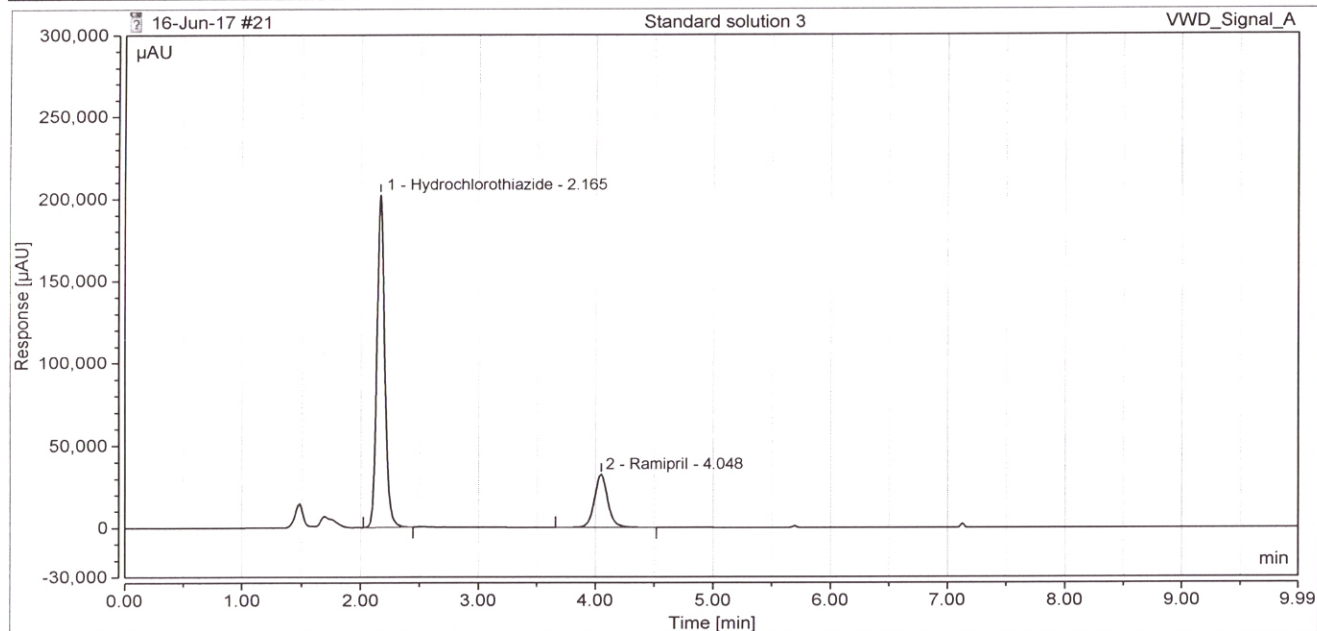
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Standard solution 3	Run Time (min):	9.99
Vial Number:	Vial:2	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_27 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 00:05	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.165	15664.420	78.57	5300	1.20
2	Ramipril	4.048	4272.915	21.43	6531	1.07
Total:			19937.336			

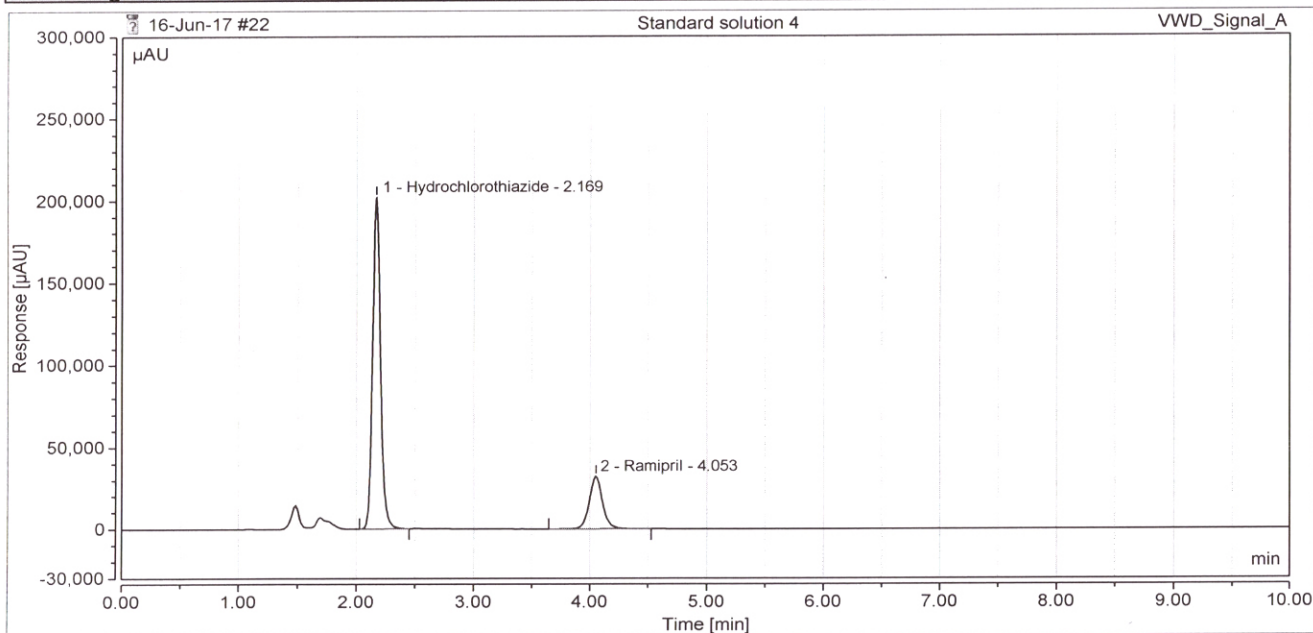
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Standard solution 4	Run Time (min):	10.00
Vial Number:	Vial:2	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_27 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 00:17	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.169	15691.802	78.59	5251	1.16
2	Ramipril	4.053	4274.695	21.41	6476	1.07
Total:			19966.497			

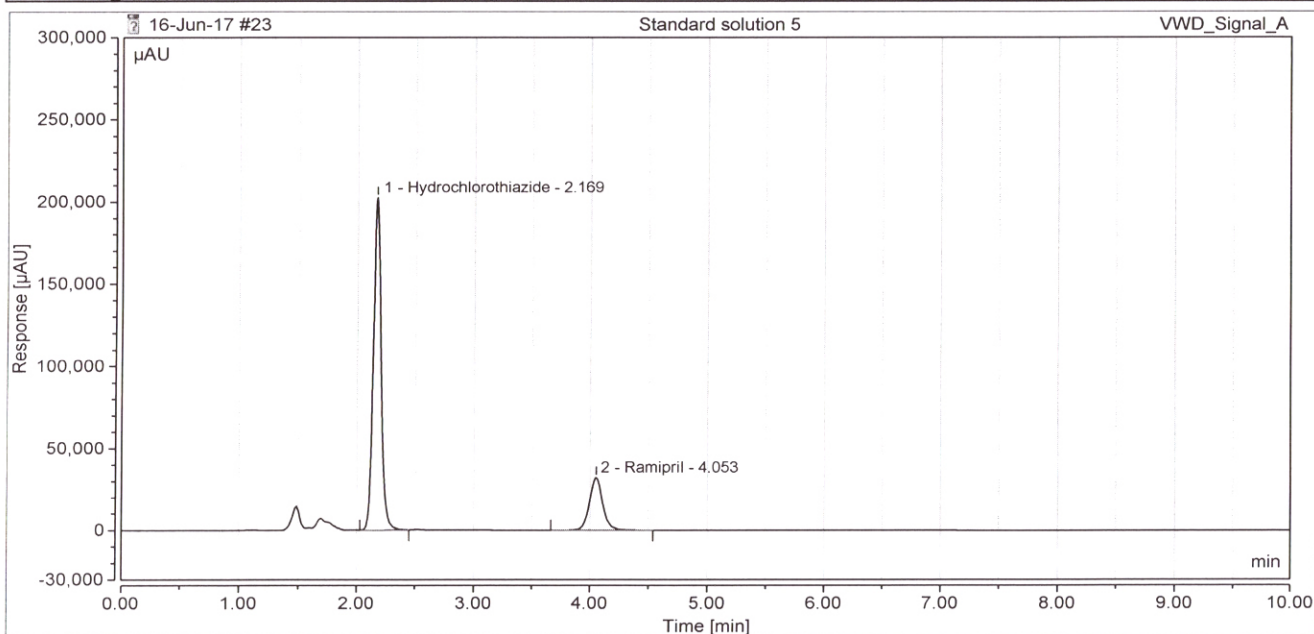
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Standard solution 5	Run Time (min):	10.00
Vial Number:	Vial:2	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_27 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 00:28	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.169	15703.744	78.60	5271	1.15
2	Ramipril	4.053	4275.565	21.40	6493	1.07
Total:			19979.310			

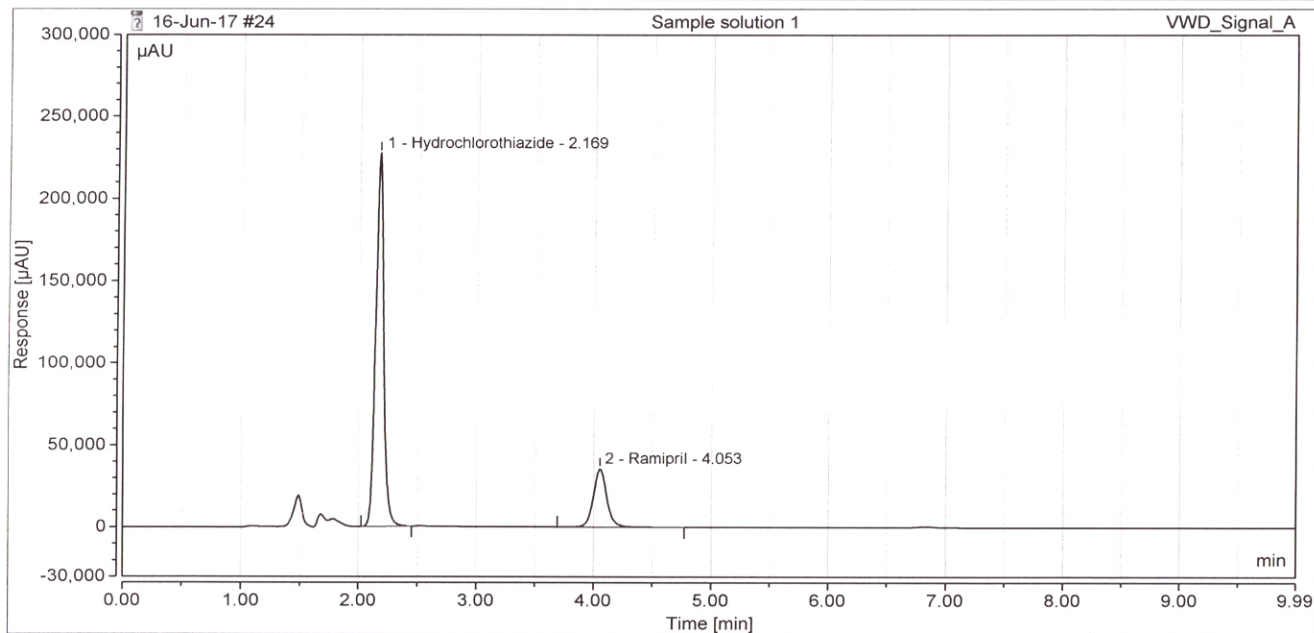
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18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Sample solution 1	Run Time (min):	9.99
Vial Number:	Vial:5	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_27 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 00:40	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.169	17955.620	79.15	5083	1.15
2	Ramipril	4.053	4730.848	20.85	6516	1.09
Total:			22686.468			

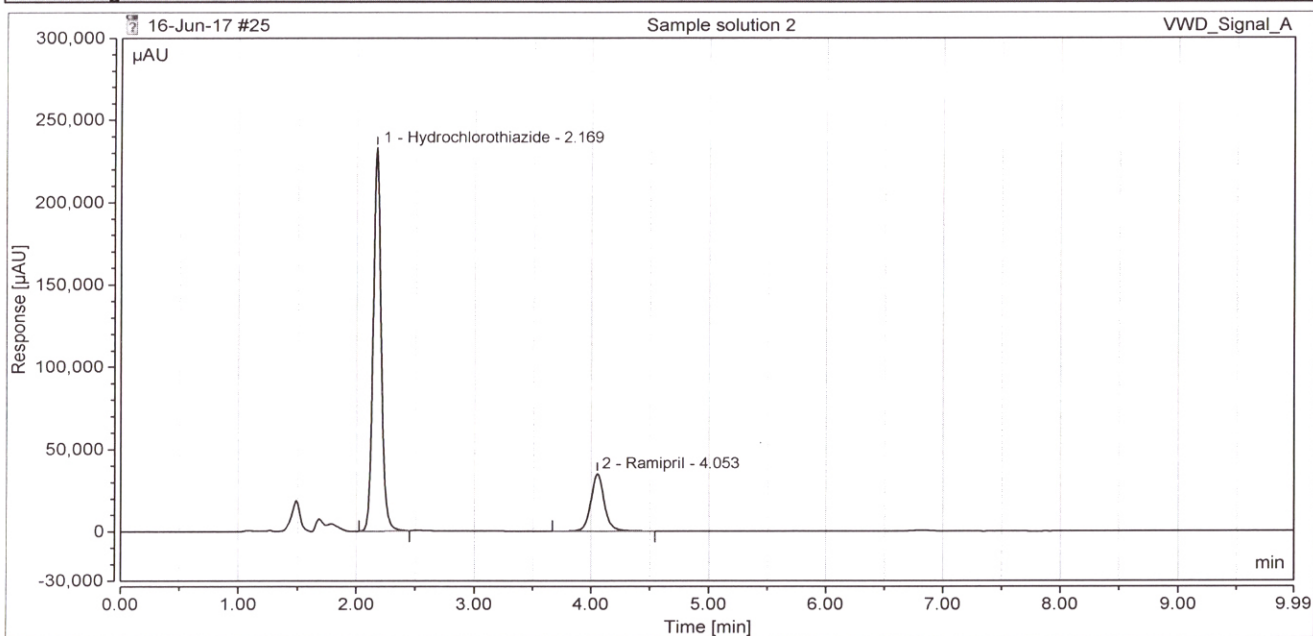
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Sample solution 2	Run Time (min):	9.99
Vial Number:	Vial:6	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_27 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 00:51	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.169	18392.834	79.88	5114	1.17
2	Ramipril	4.053	4633.310	20.12	6543	1.10
Total:			23026.144			

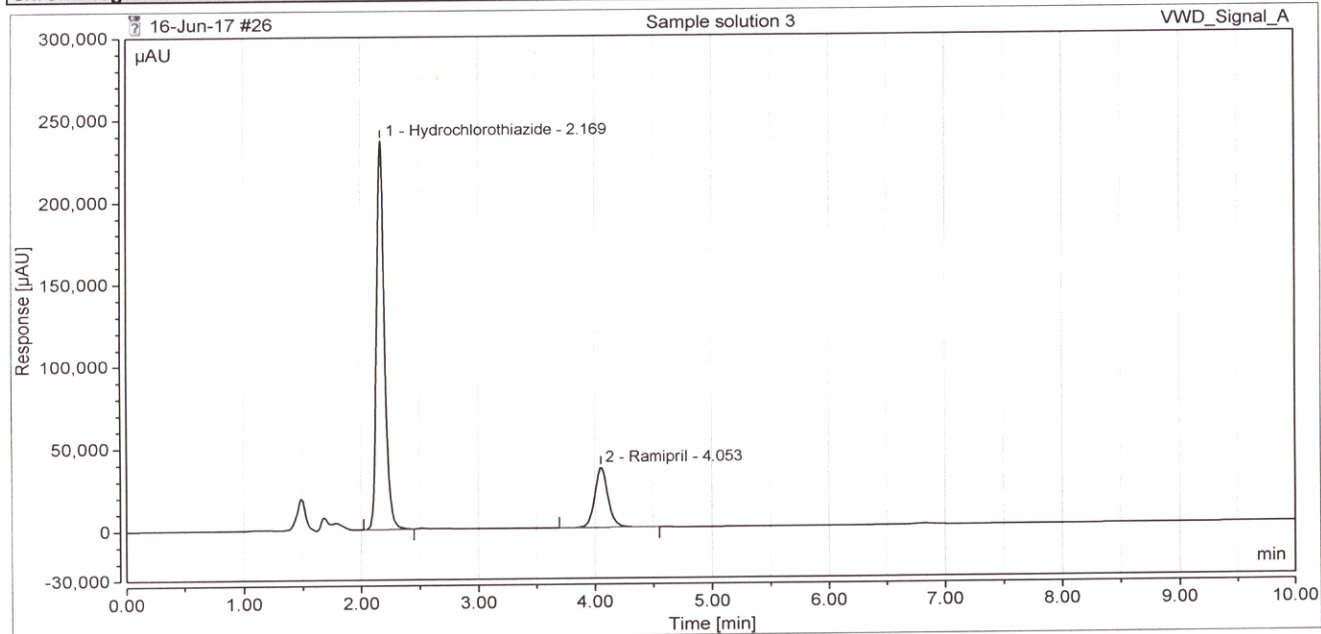
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Sample solution 3	Run Time (min):	10.00
Vial Number:	Vial:7	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_27 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 01:03	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram

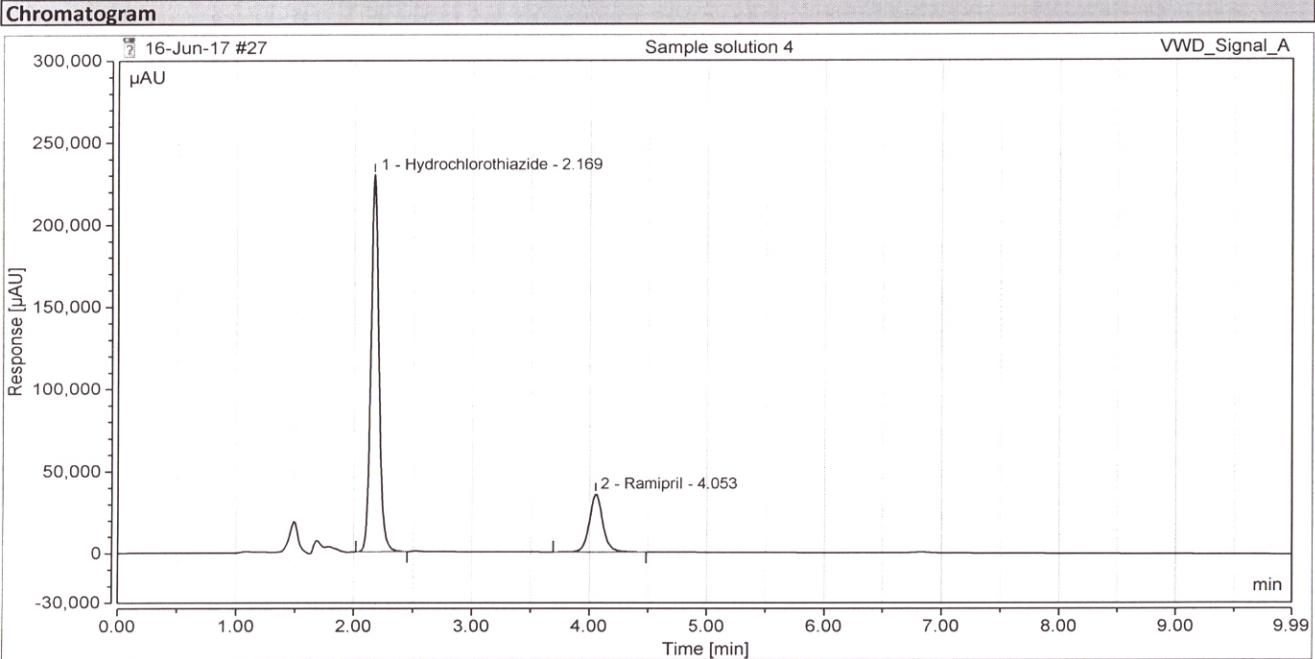


Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.169	18690.478	79.46	5129	1.20
2	Ramipril	4.053	4830.215	20.54	6541	1.11
Total:			23520.694			

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QbD Research and Development Pvt. Ltd		
Injection Details		
Injection Name:	Sample solution 4	Run Time (min): 9.99
Vial Number:	Vial:8	Injection Volume: 10.00
Injection Type:	Unknown	Channel: VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_27 Deg	Wavelength: 210
Processing Method:	PR Method_1	Instrument Name: QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 01:15	Sequence Name: 16-Jun-17
User Name:	Pankaj Gurav	



Integration Results						
No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.169	18079.802	79.51	5155	1.18
2	Ramipril	4.053	4658.345	20.49	6552	1.10
Total:			22738.147			

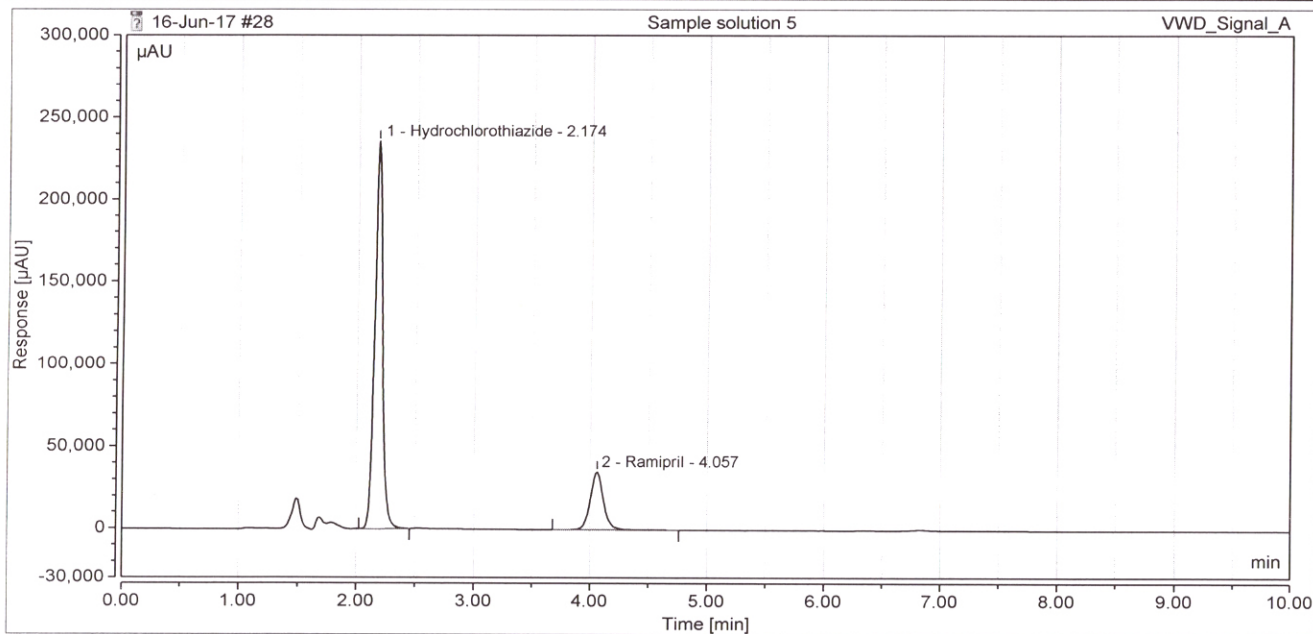
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Sample solution 5	Run Time (min):	10.00
Vial Number:	Vial:9	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_27 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 01:26	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.174	18579.730	79.84	5145	1.15
2	Ramipril	4.057	4690.122	20.16	6561	1.08
Total:			23269.852			

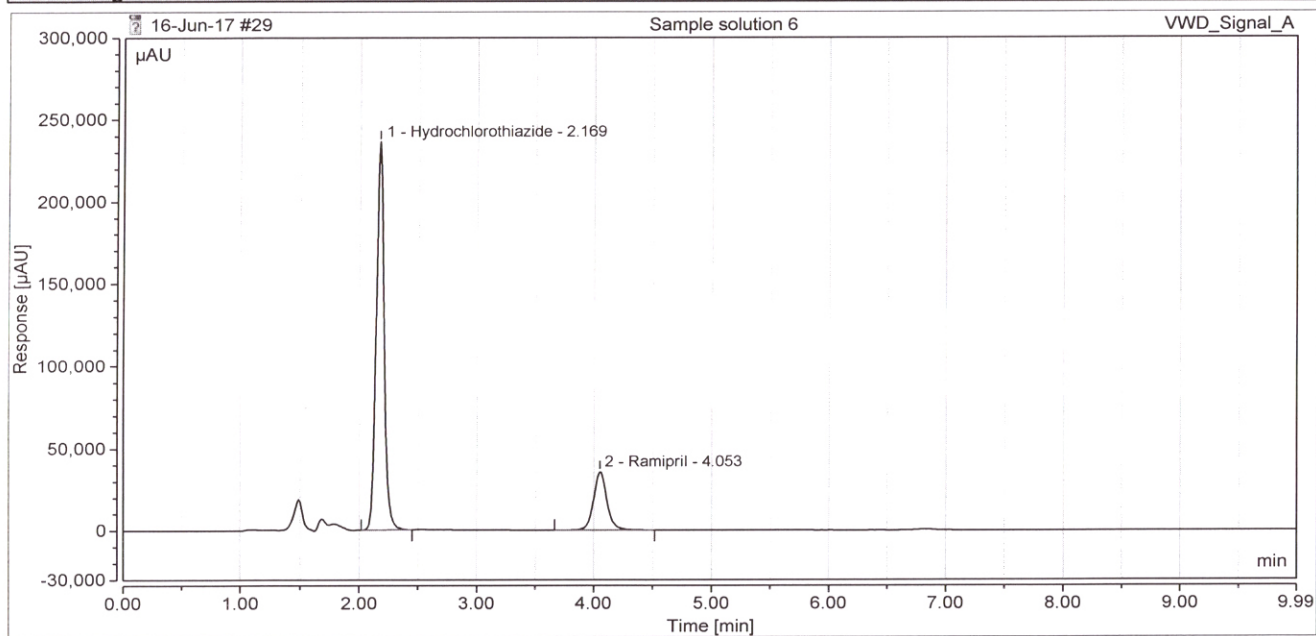
18-Jun-17

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Injection Details

Injection Name:	Sample solution 6	Run Time (min):	9.99
Vial Number:	Vial:10	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_27 Deg	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 01:38	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.169	18555.109	79.77	5182	1.17
2	Ramipril	4.053	4706.766	20.23	6561	1.10
Total:			23261.874			

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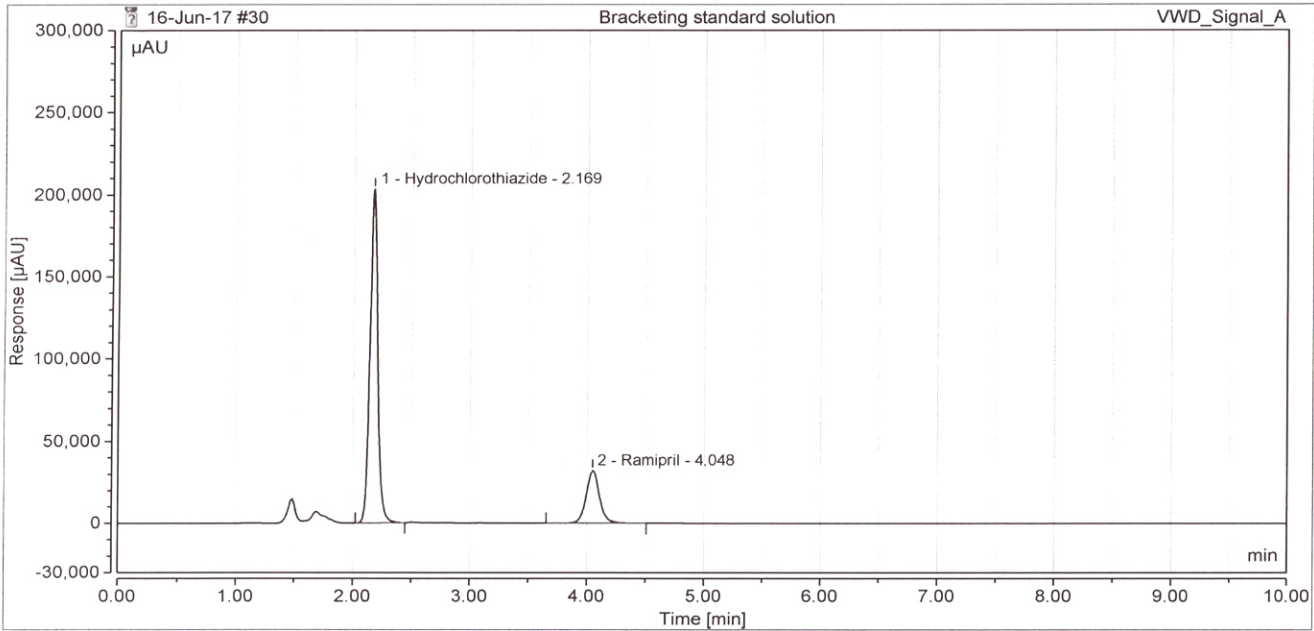
QbD Research and Development Pvt. Ltd

Injection Details

Injection Name: Bracketing standard solution
Vial Number: Vial:2
Injection Type: Unknown
Instrument Method: Ramithiazide Dissolution HPLC-59_27 Deg
Processing Method: PR Method_1
Injection Date/Time: 17/Jun/2017 01:49
User Name: Pankaj Gurav

Run Time (min): 10.00
Injection Volume: 10.00
Channel: VWD_Signal_A
Wavelength: 210
Instrument Name: QbD-INST-HPLC-59
Sequence Name: 16-Jun-17

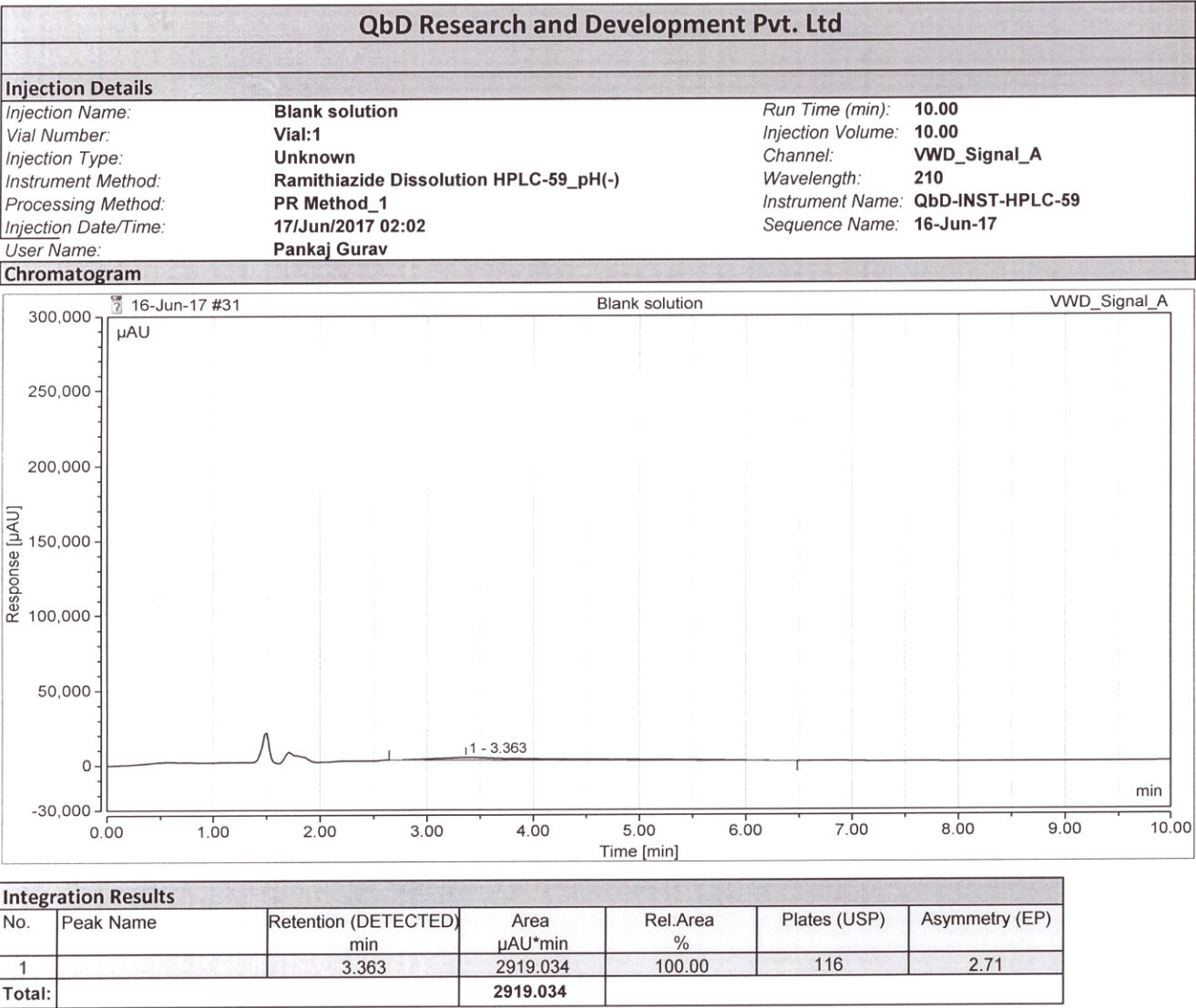
Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.169	15706.854	78.62	5354	1.14
2	Ramipril	4.048	4272.037	21.38	6502	1.10
Total:			19978.891			

QbD
18-Jun-17

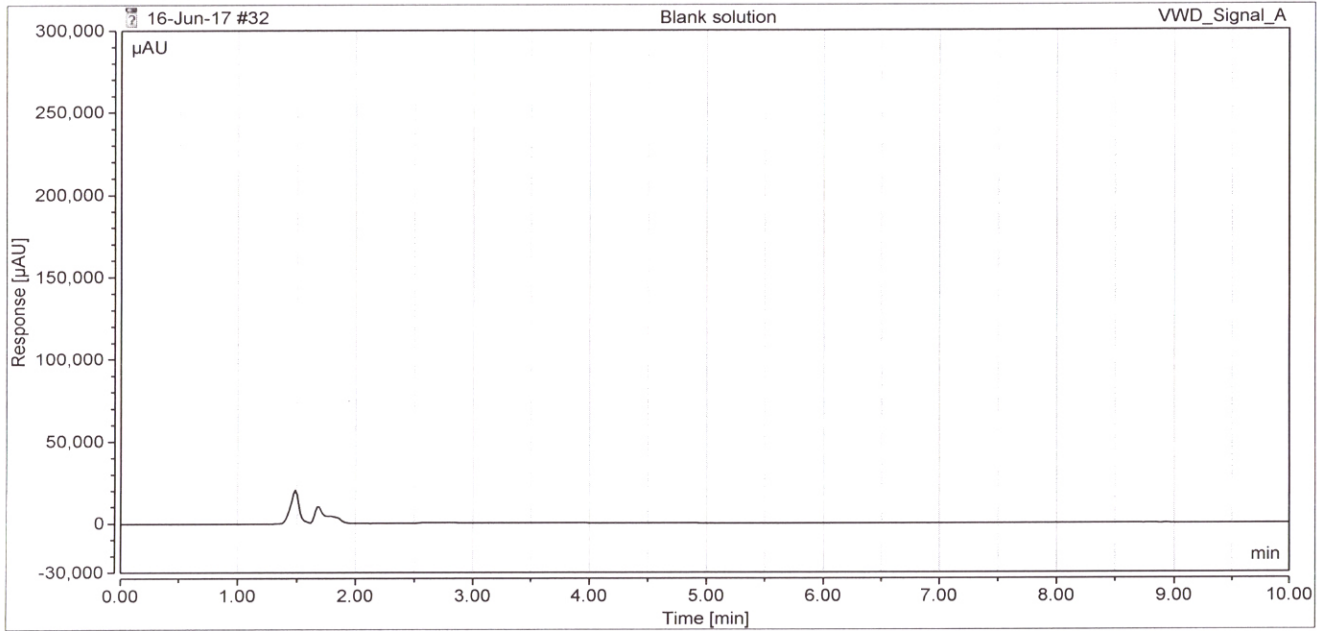


QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Blank solution	Run Time (min):	10.00
Vial Number:	Vial:1	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(-)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 02:13	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
Total:			0.000			

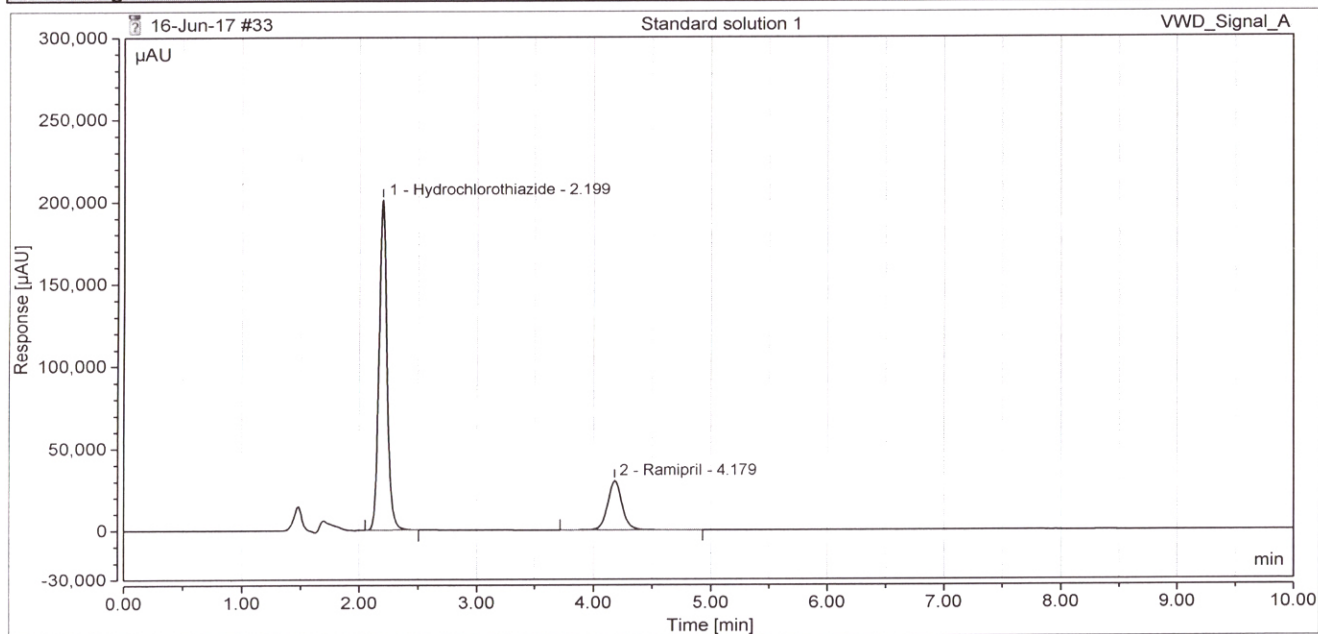
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Standard solution 1	Run Time (min):	10.00
Vial Number:	Vial:3	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(-)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 02:25	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.199	15763.795	78.56	5347	1.15
2	Ramipril	4.179	4302.353	21.44	6054	1.08
Total:			20066.148			

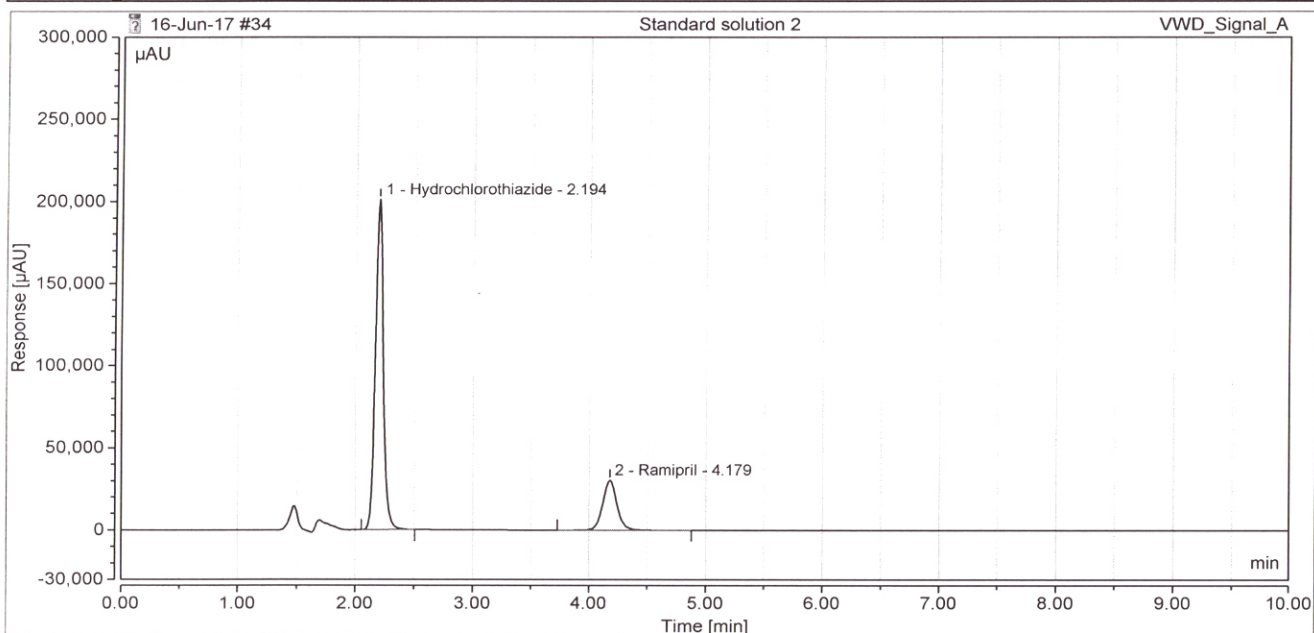
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Standard solution 2	Run Time (min):	10.00
Vial Number:	Vial:3	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(-)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 02:36	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram

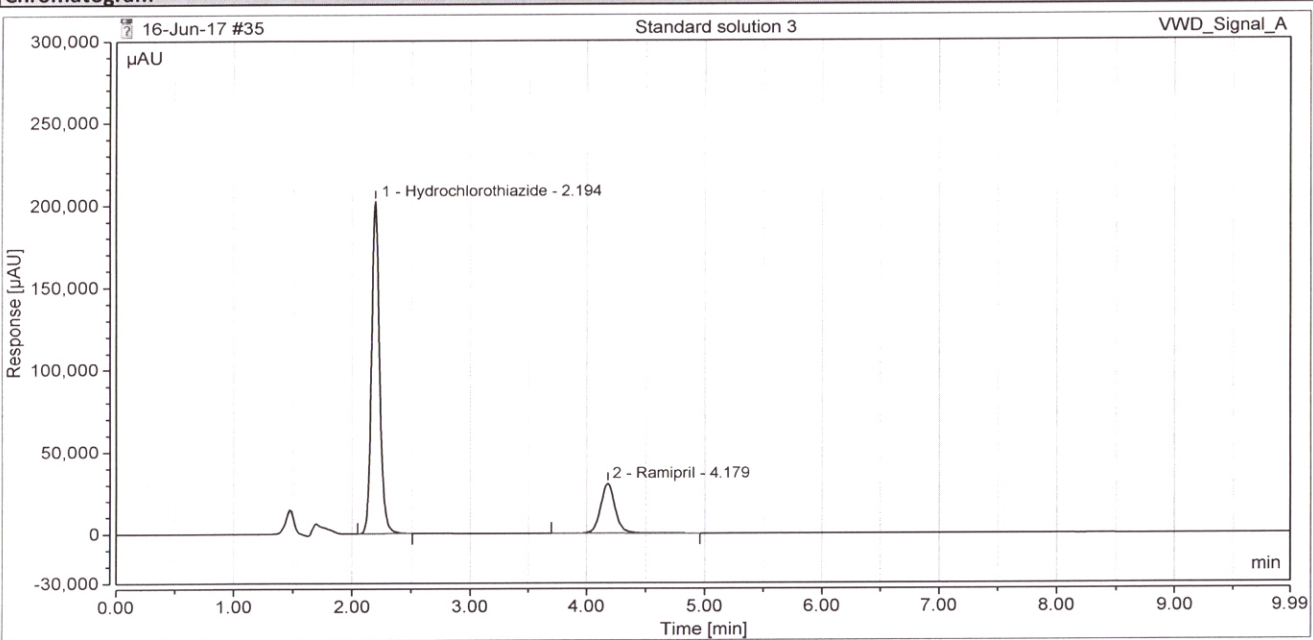


Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.194	15764.927	78.58	5356	1.21
2	Ramipril	4.179	4298.570	21.42	6064	1.07
Total:			20063.498			

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QbD Research and Development Pvt. Ltd		
Injection Details		
Injection Name:	Standard solution 3	Run Time (min): 9.99
Vial Number:	Vial:3	Injection Volume: 10.00
Injection Type:	Unknown	Channel: VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(-)	Wavelength: 210
Processing Method:	PR Method_1	Instrument Name: QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 02:48	Sequence Name: 16-Jun-17
User Name:	Pankaj Gurav	



Integration Results						
No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.194	15791.387	78.58	5353	1.18
2	Ramipril	4.179	4303.950	21.42	6062	1.06
Total:			20095.337			

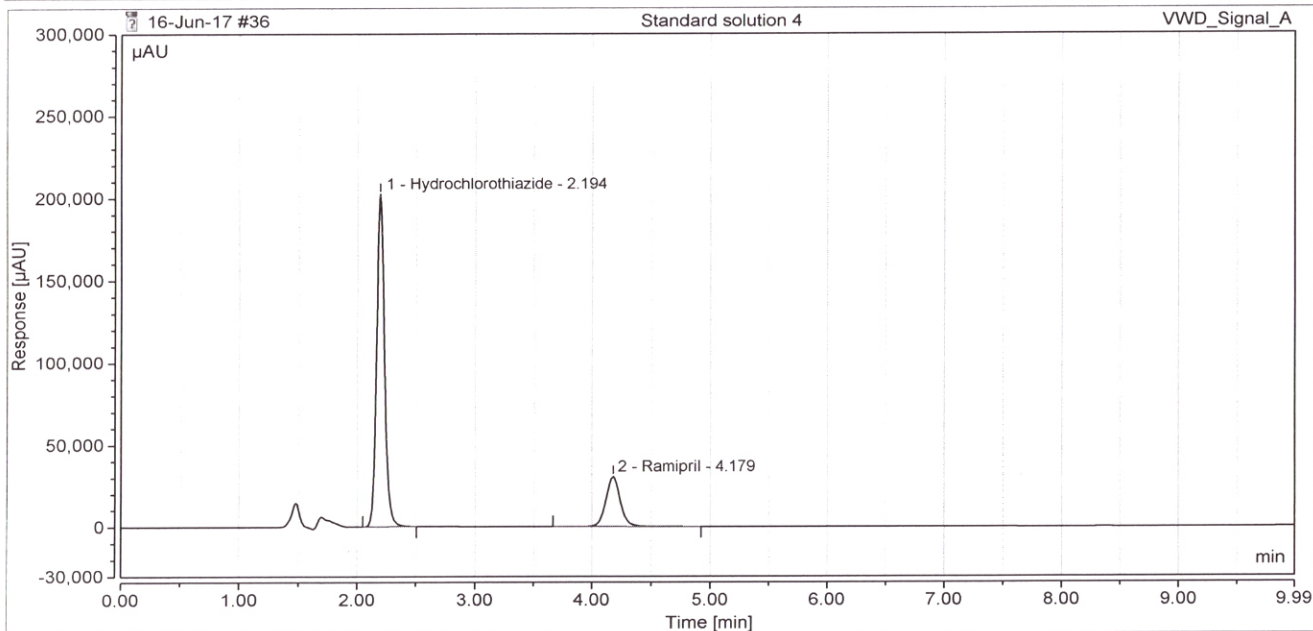
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Standard solution 4	Run Time (min):	9.99
Vial Number:	Vial:3	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(-)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 03:00	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.194	15817.227	78.57	5354	1.18
2	Ramipril	4.179	4313.869	21.43	6077	1.06
Total:			20131.095			

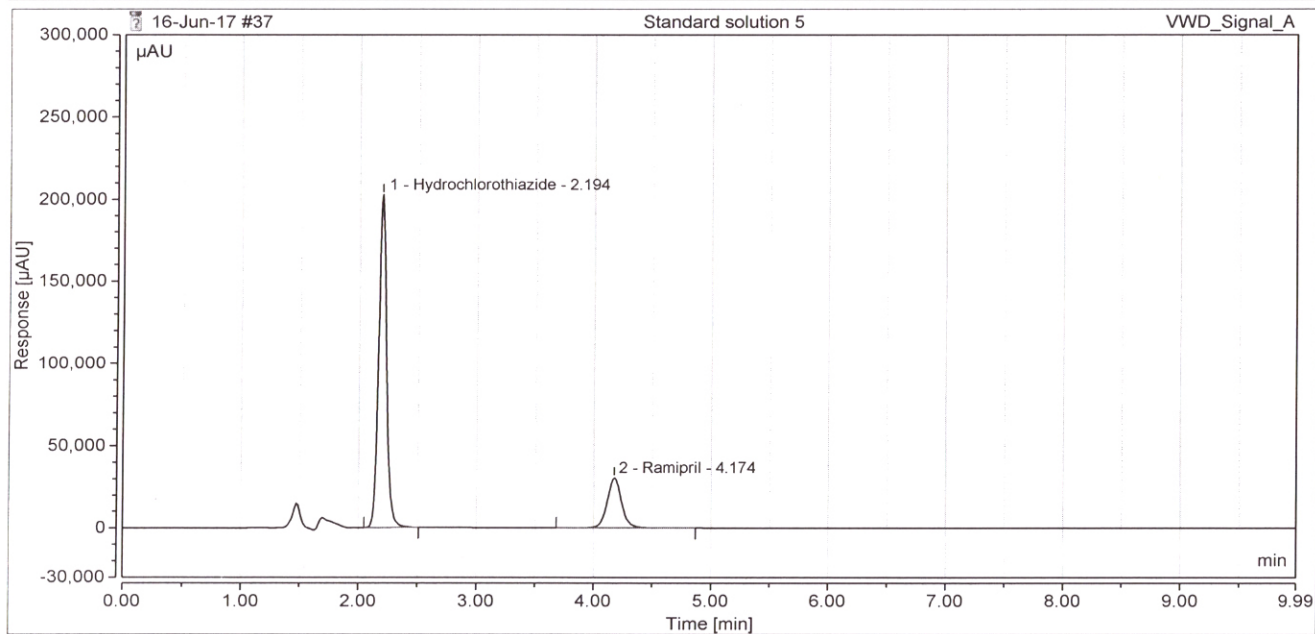
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Standard solution 5	Run Time (min):	9.99
Vial Number:	Vial:3	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(-)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 03:11	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.194	15795.364	78.57	5356	1.16
2	Ramipril	4.174	4306.998	21.43	6054	1.08
Total:			20102.362			

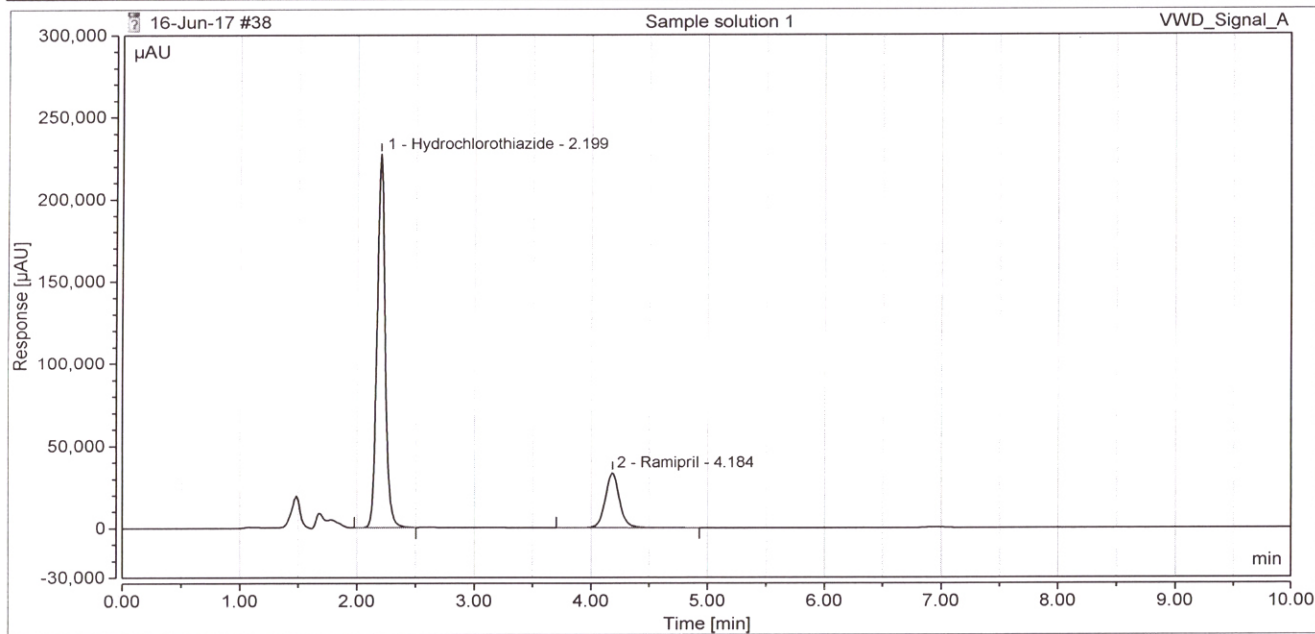
Bruno
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Sample solution 1	Run Time (min):	10.00
Vial Number:	Vial:5	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(-)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 03:23	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram

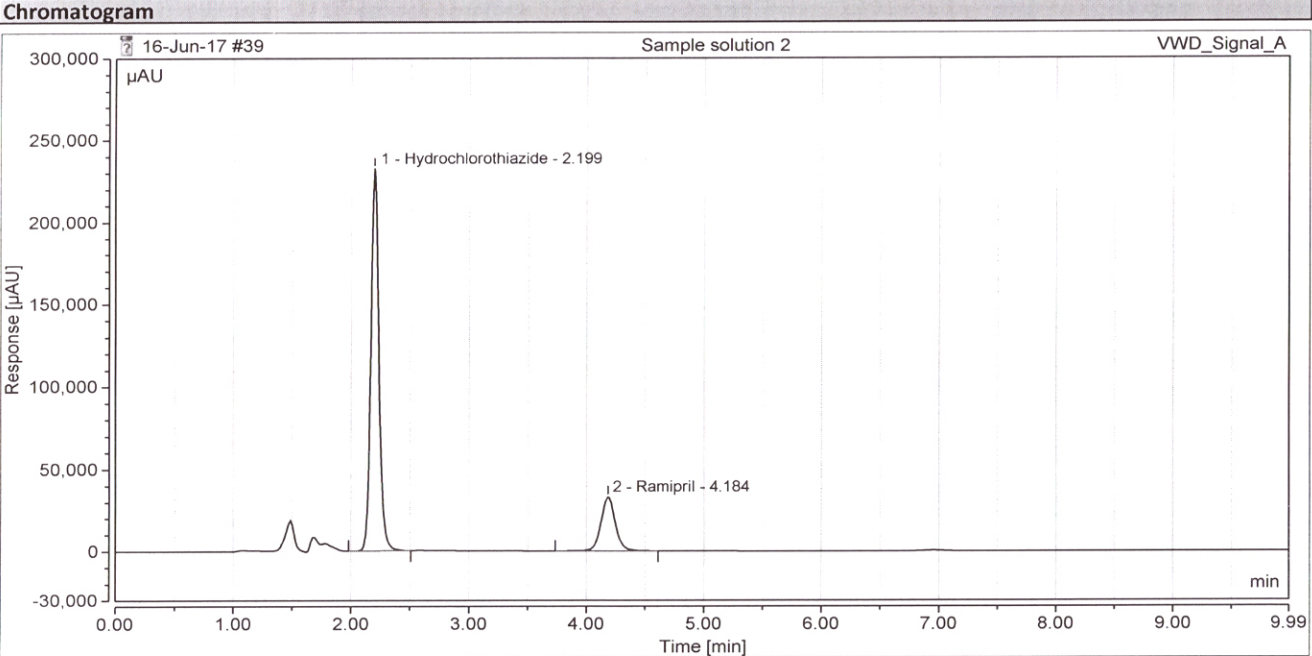


Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.199	18042.611	79.21	5201	1.16
2	Ramipril	4.184	4736.037	20.79	6124	1.06
Total:			22778.649			

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QbD Research and Development Pvt. Ltd		
Injection Details		
Injection Name:	Sample solution 2	Run Time (min): 9.99
Vial Number:	Vial:6	Injection Volume: 10.00
Injection Type:	Unknown	Channel: VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(-)	Wavelength: 210
Processing Method:	PR Method_1	Instrument Name: QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 03:34	Sequence Name: 16-Jun-17
User Name:	Pankaj Gurav	



Integration Results						
No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.199	18473.910	80.02	5217	1.17
2	Ramipril	4.184	4613.058	19.98	6171	1.07
Total:			23086.968			

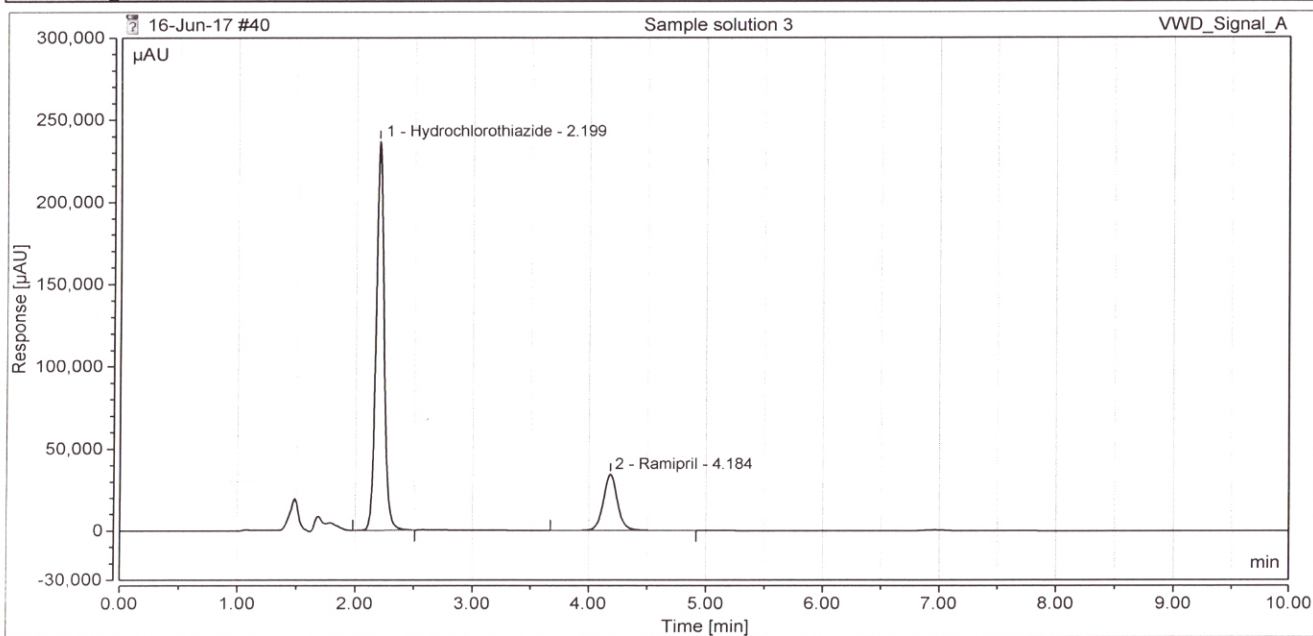
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Sample solution 3	Run Time (min):	10.00
Vial Number:	Vial:7	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(-)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 03:46	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.199	18772.444	79.43	5247	1.18
2	Ramipril	4.184	4861.278	20.57	6157	1.08
Total:			23633.722			

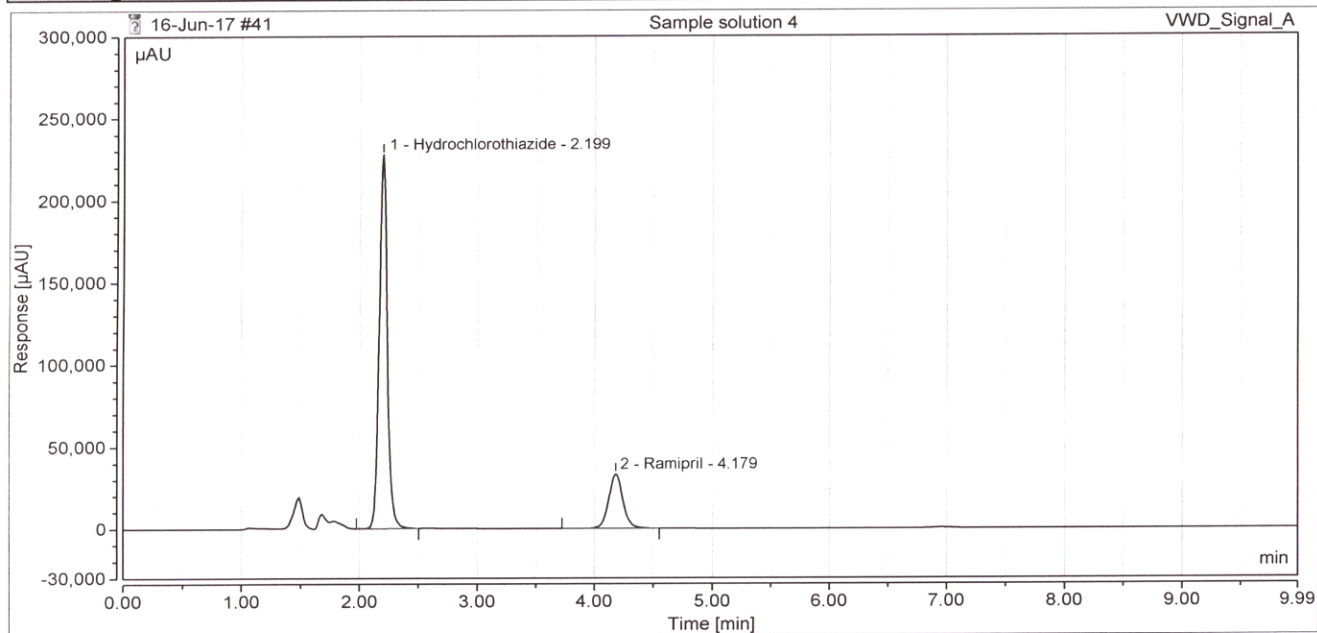
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Sample solution 4	Run Time (min):	9.99
Vial Number:	Vial:8	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(-)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 03:57	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.199	18147.749	79.67	5205	1.13
2	Ramipril	4.179	4630.897	20.33	6145	1.08
Total:			22778.646			

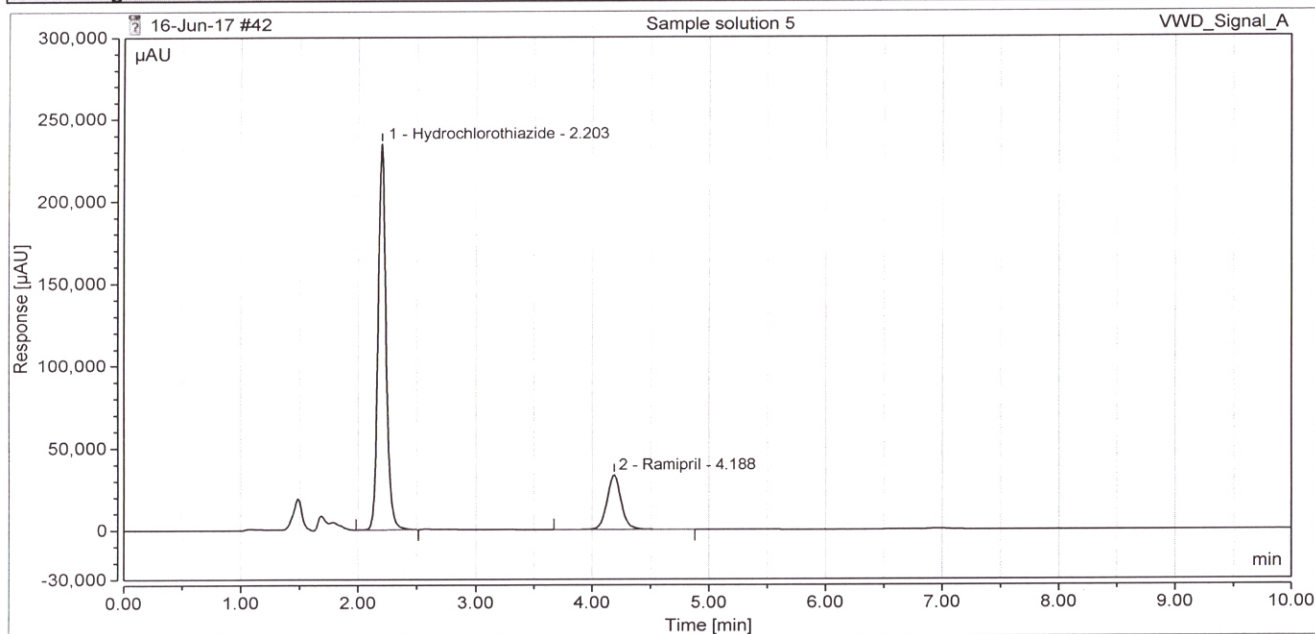
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Sample solution 5	Run Time (min):	10.00
Vial Number:	Vial:9	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(-)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 04:09	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.203	18667.239	79.91	5244	1.13
2	Ramipril	4.188	4691.774	20.09	6167	1.07
Total:			23359.014			

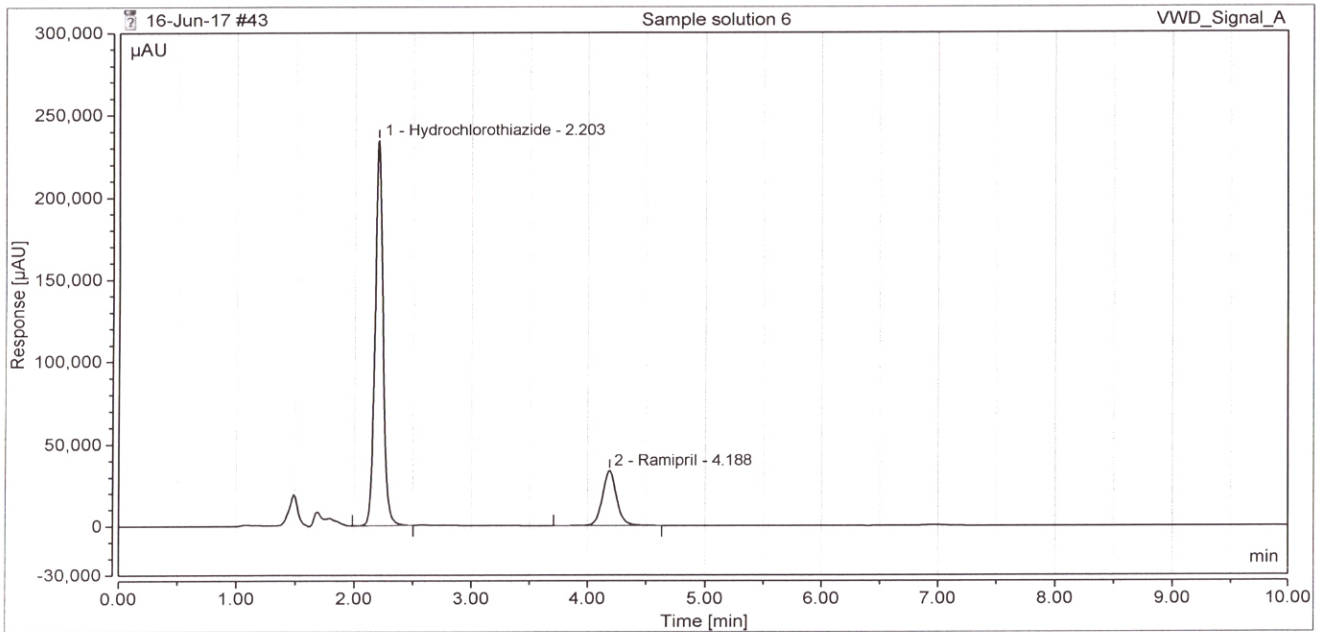
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Sample solution 6	Run Time (min):	10.00
Vial Number:	Vial:10	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(-)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 04:21	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.203	18656.892	79.89	5208	1.14
2	Ramipril	4.188	4697.324	20.11	6170	1.07
Total:			23354.216			

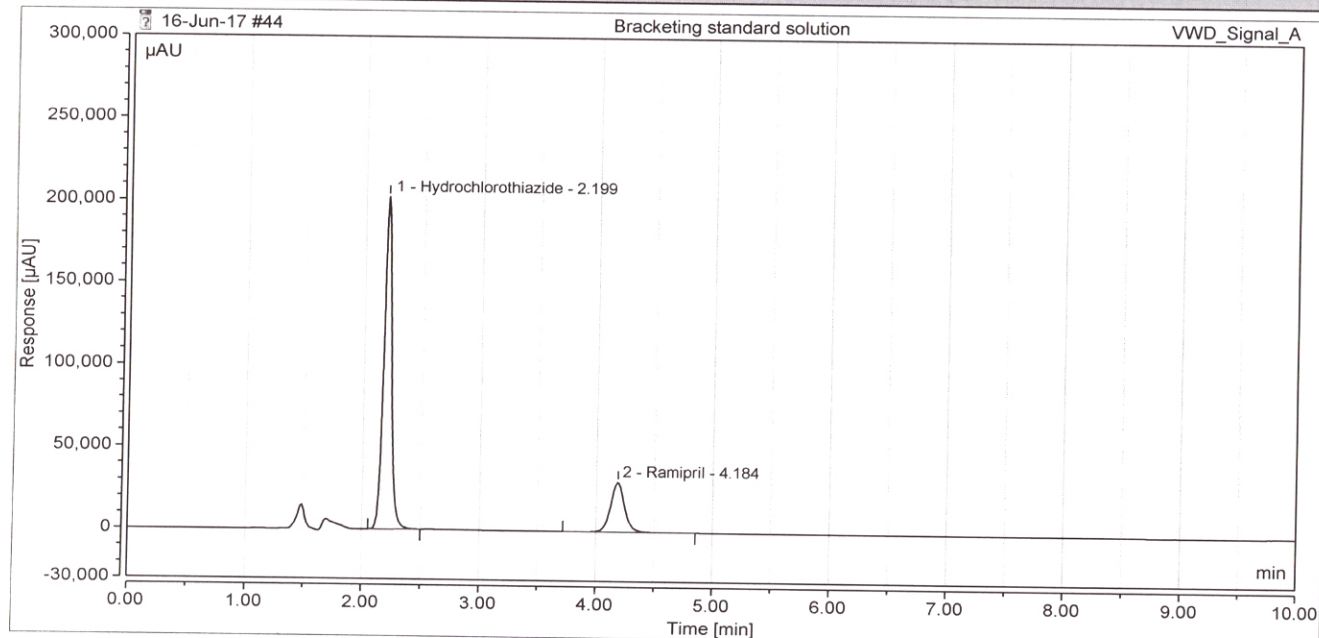
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Bracketing standard solution	Run Time (min):	10.00
Vial Number:	Vial:3	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(-)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 04:32	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.199	15809.109	78.62	5354	1.16
2	Ramipril	4.184	4299.662	21.38	6105	1.06
Total:			20108.771			

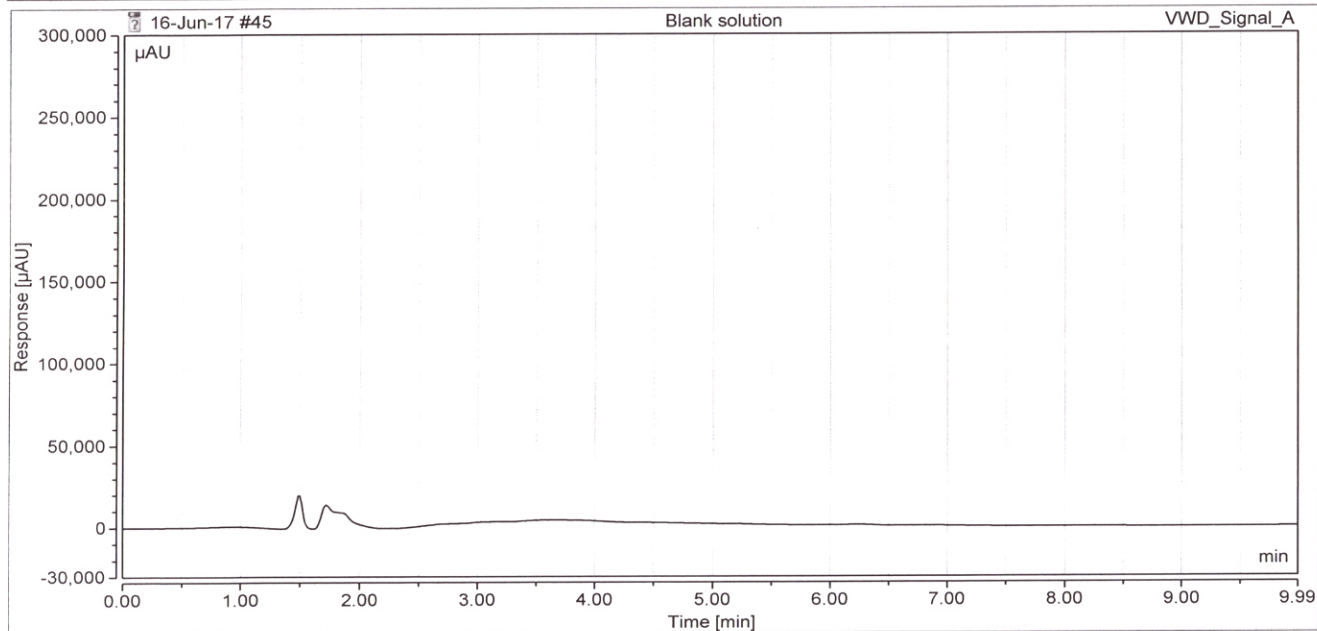
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Blank solution	Run Time (min):	9.99
Vial Number:	Vial:1	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(+)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 04:44	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
Total:			0.000			

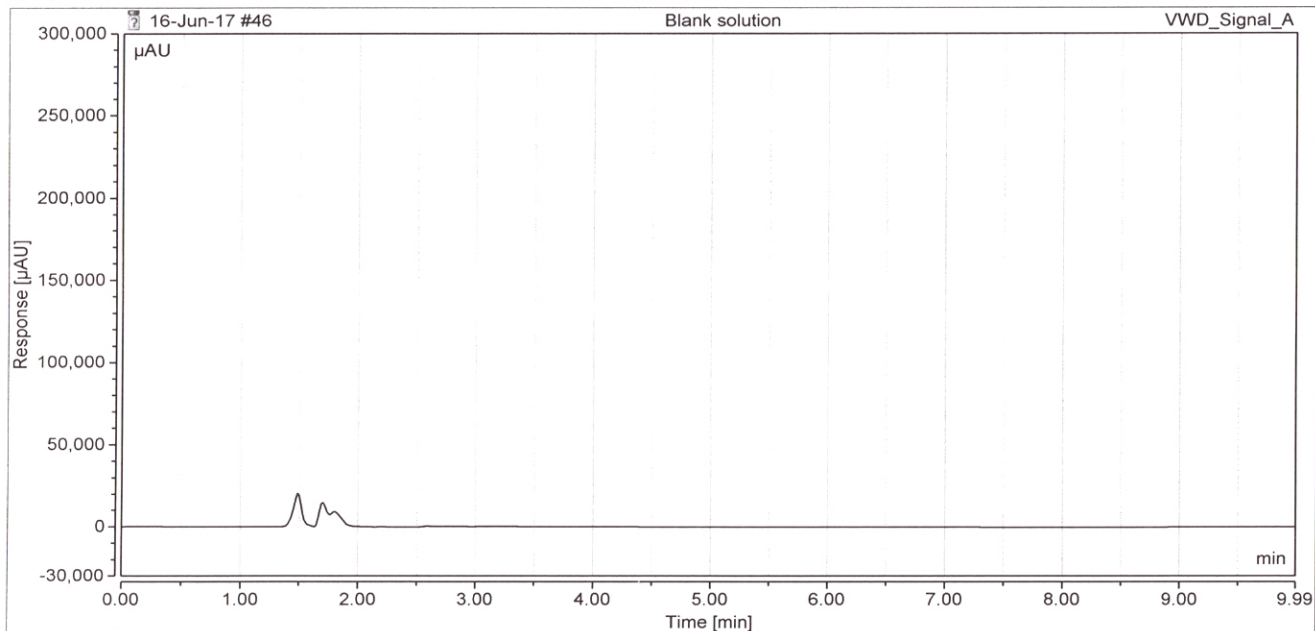
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Blank solution	Run Time (min):	9.99
Vial Number:	Vial:1	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(+)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 04:56	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
Total:			0.000			

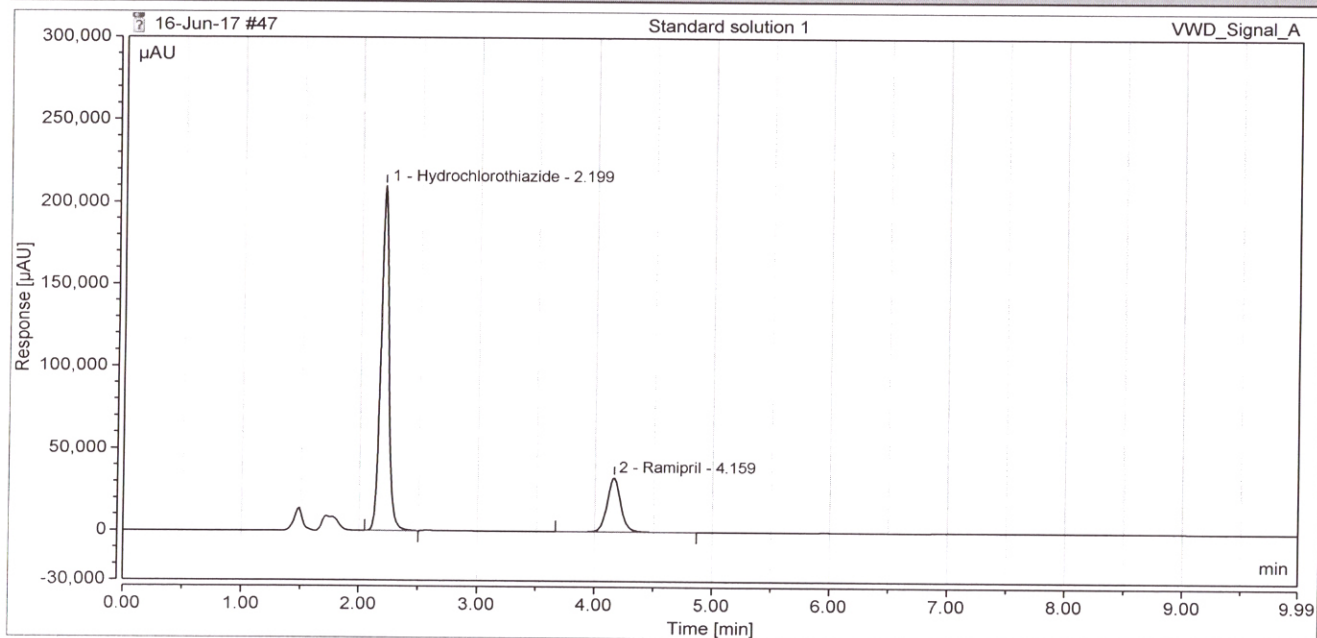
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Standard solution 1	Run Time (min):	9.99
Vial Number:	Vial:4	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(+)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 05:07	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.199	16426.171	78.75	5346	1.16
2	Ramipril	4.159	4433.706	21.25	6817	1.07
Total:			20859.877			

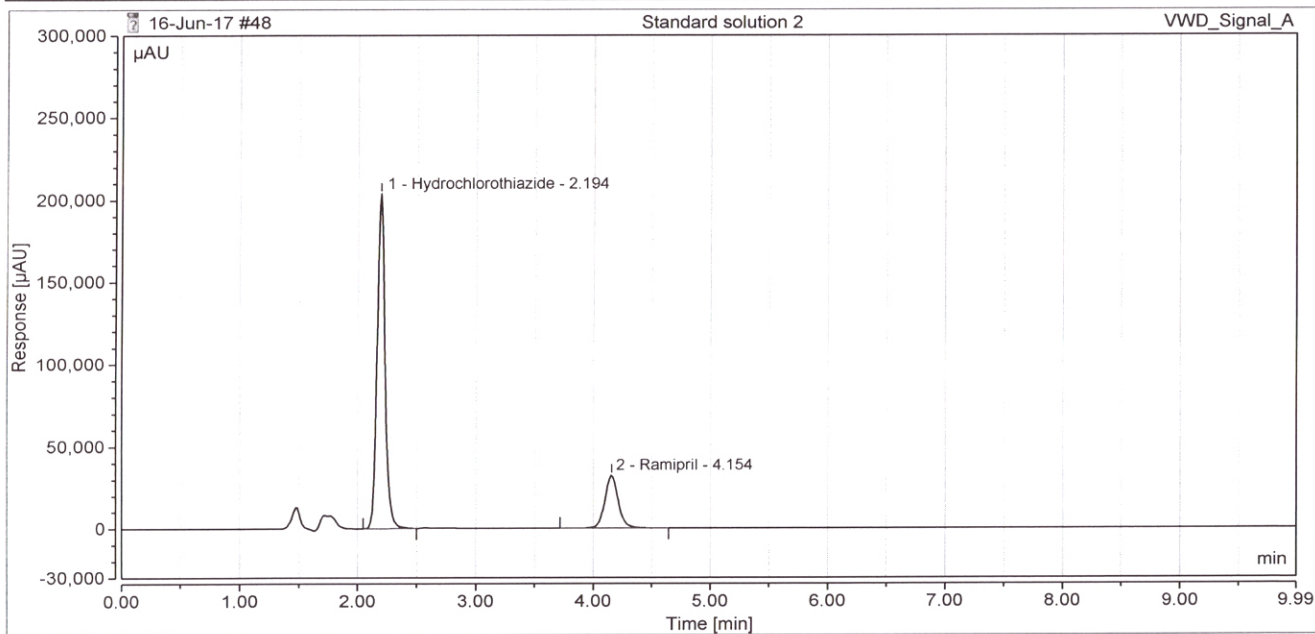
18-Jun-17

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Injection Details

Injection Name:	Standard solution 2	Run Time (min):	9.99
Vial Number:	Vial:4	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(+)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 05:19	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.194	15879.012	78.67	5388	1.18
2	Ramipril	4.154	4304.563	21.33	6806	1.08
Total:			20183.575			

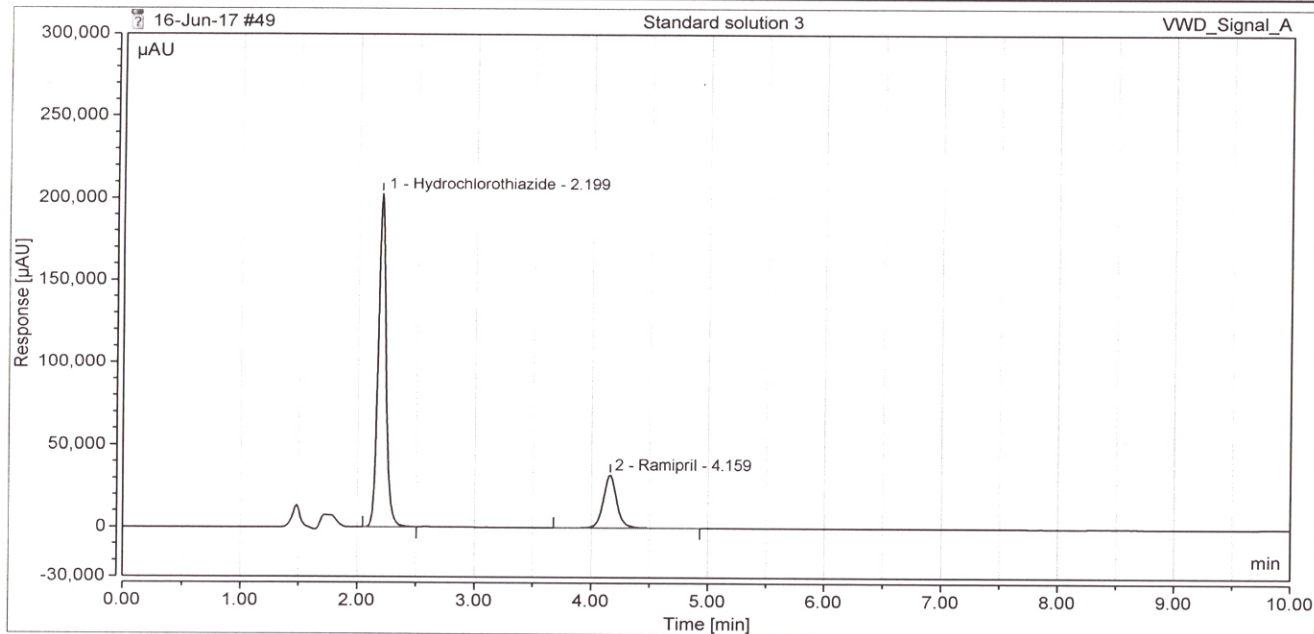
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Standard solution 3	Run Time (min):	10.00
Vial Number:	Vial:4	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(+)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 05:30	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.199	15846.332	78.57	5376	1.17
2	Ramipril	4.159	4322.411	21.43	6790	1.08
Total:			20168.743			

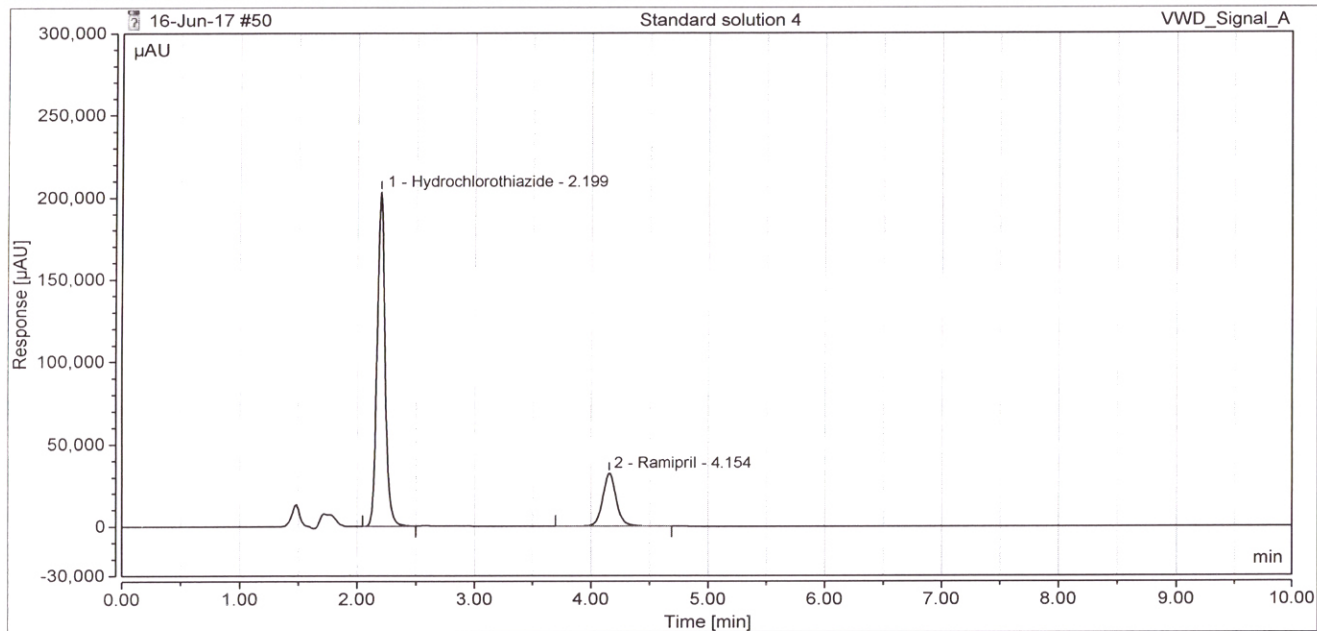
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Standard solution 4	Run Time (min):	10.00
Vial Number:	Vial:4	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(+)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 05:42	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.199	15865.212	78.65	5412	1.15
2	Ramipril	4.154	4307.322	21.35	6809	1.10
Total:			20172.533			

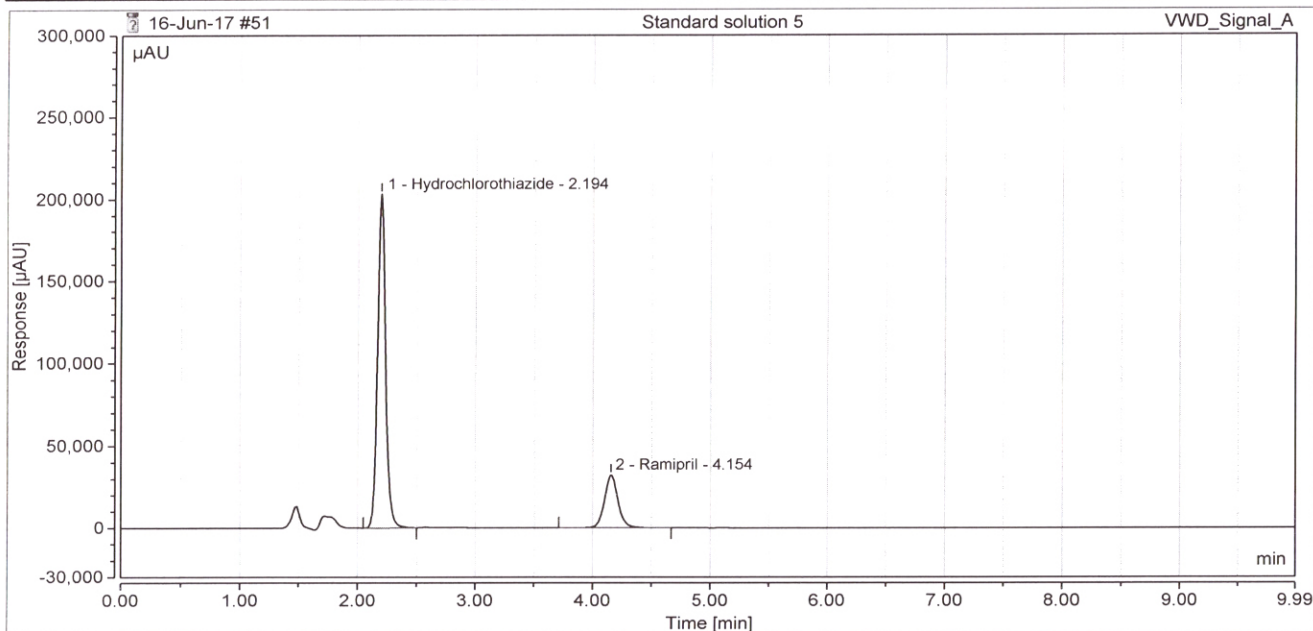
Pankaj Gurav
18-Jun-17

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Injection Details

Injection Name:	Standard solution 5	Run Time (min):	9.99
Vial Number:	Vial:4	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(+)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 05:54	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.194	15905.983	78.69	5376	1.21
2	Ramipril	4.154	4308.364	21.31	6788	1.10
Total:			20214.347			

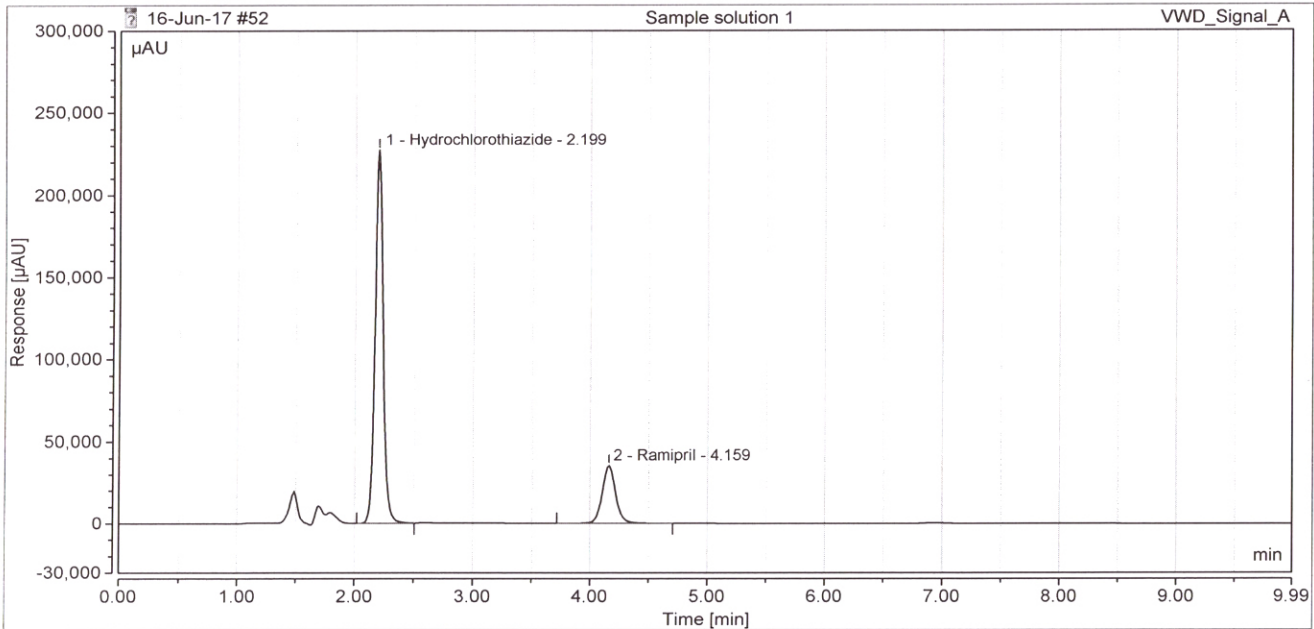
Pankaj Gurav
18-Jun-17

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Injection Details

Injection Name:	Sample solution 1	Run Time (min):	9.99
Vial Number:	Vial:5	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(+)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 06:05	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.199	18061.025	79.29	5230	1.14
2	Ramipril	4.159	4716.290	20.71	6820	1.10
Total:			22777.315			

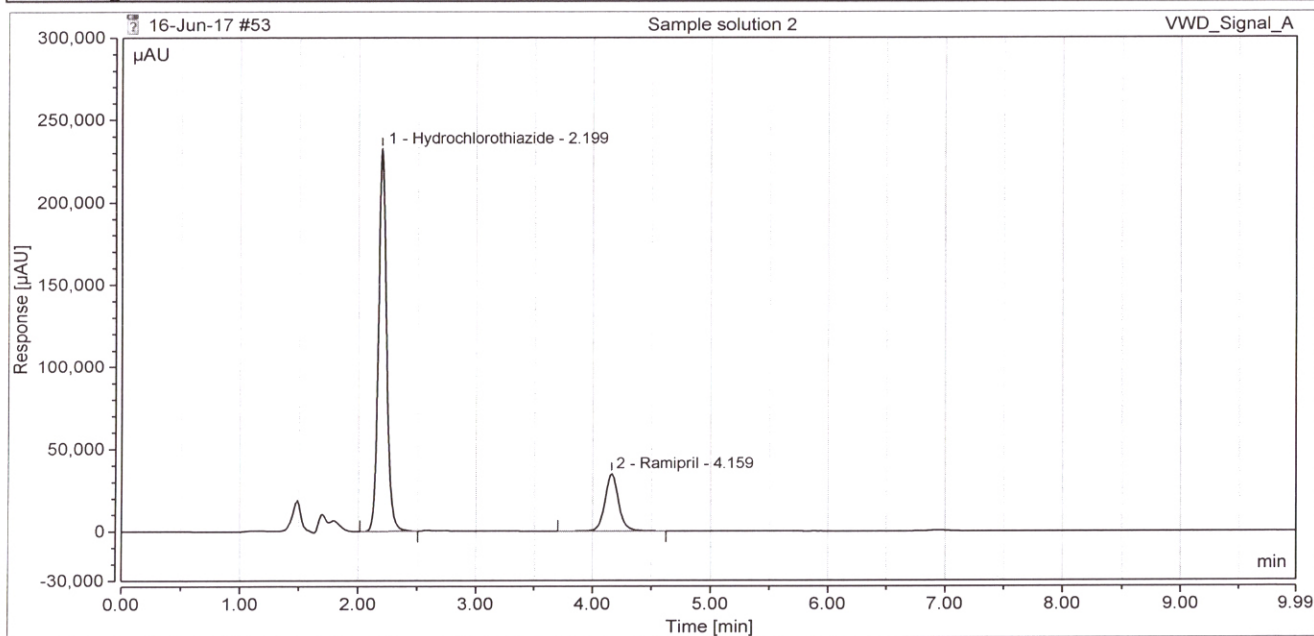
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Sample solution 2	Run Time (min):	9.99
Vial Number:	Vial:6	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(+)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 06:17	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.199	18508.944	79.97	5207	1.15
2	Ramipril	4.159	4635.468	20.03	6833	1.10
Total:			23144.412			

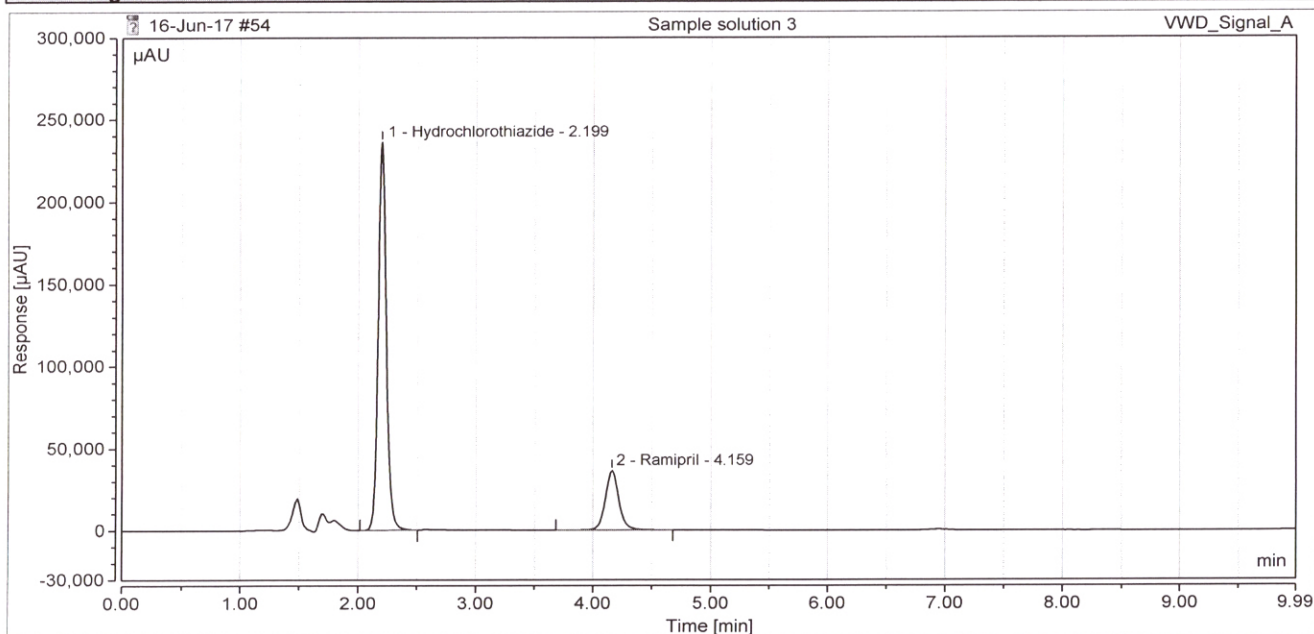
Pankaj Gurav
18 Jun 17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Sample solution 3	Run Time (min):	9.99
Vial Number:	Vial:7	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(+)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 06:28	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.199	18796.281	79.54	5202	1.15
2	Ramipril	4.159	4834.783	20.46	6841	1.11
Total:			23631.064			

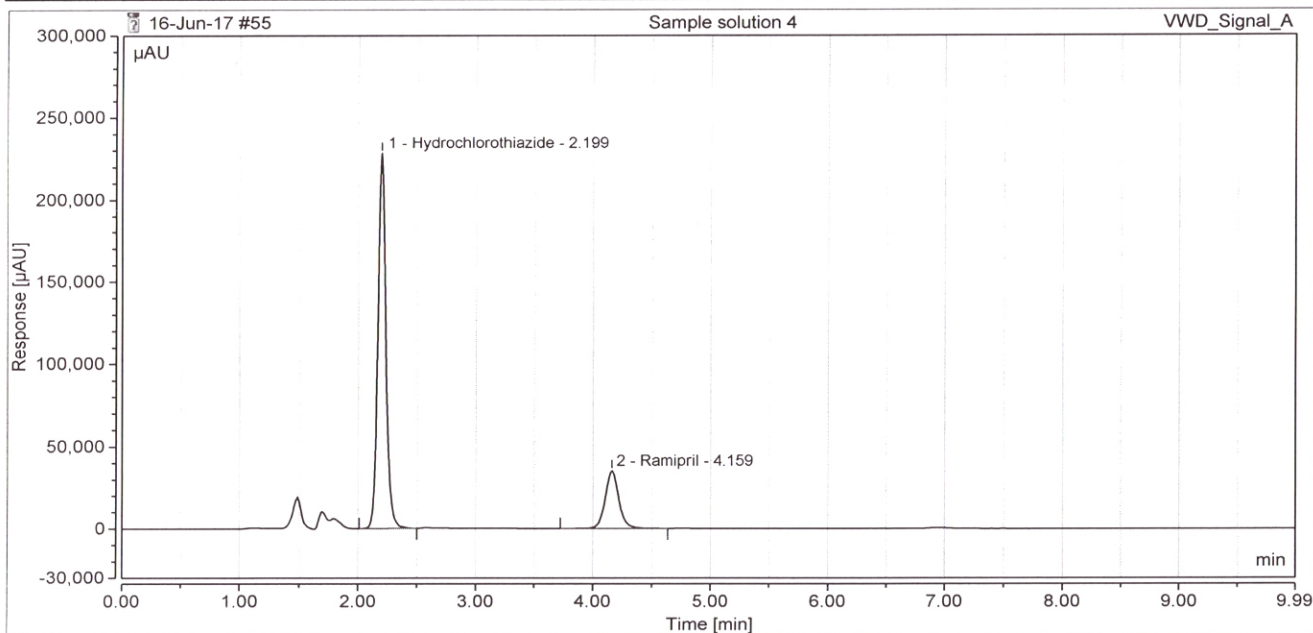
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Sample solution 4	Run Time (min):	9.99
Vial Number:	Vial:8	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(+)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 06:40	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram

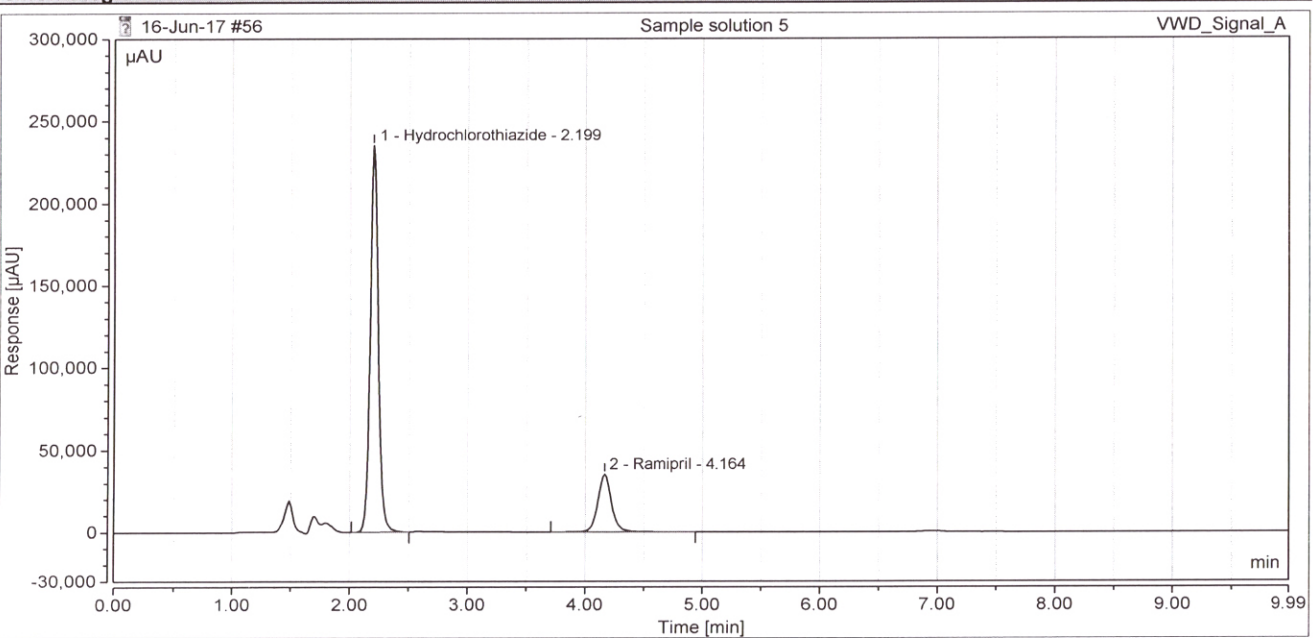


Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.199	18164.911	79.58	5211	1.14
2	Ramipril	4.159	4661.161	20.42	6841	1.10
Total:			22826.072			

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Injection Details		
Injection Name:	Sample solution 5	Run Time (min): 9.99
Vial Number:	Vial:9	Injection Volume: 10.00
Injection Type:	Unknown	Channel: VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(+)	Wavelength: 210
Processing Method:	PR Method_1	Instrument Name: QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 06:52	Sequence Name: 16-Jun-17
User Name:	Pankaj Gurav	



Integration Results						
No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.199	18656.779	79.88	5248	1.17
2	Ramipril	4.164	4699.525	20.12	6837	1.08
Total:			23356.304			

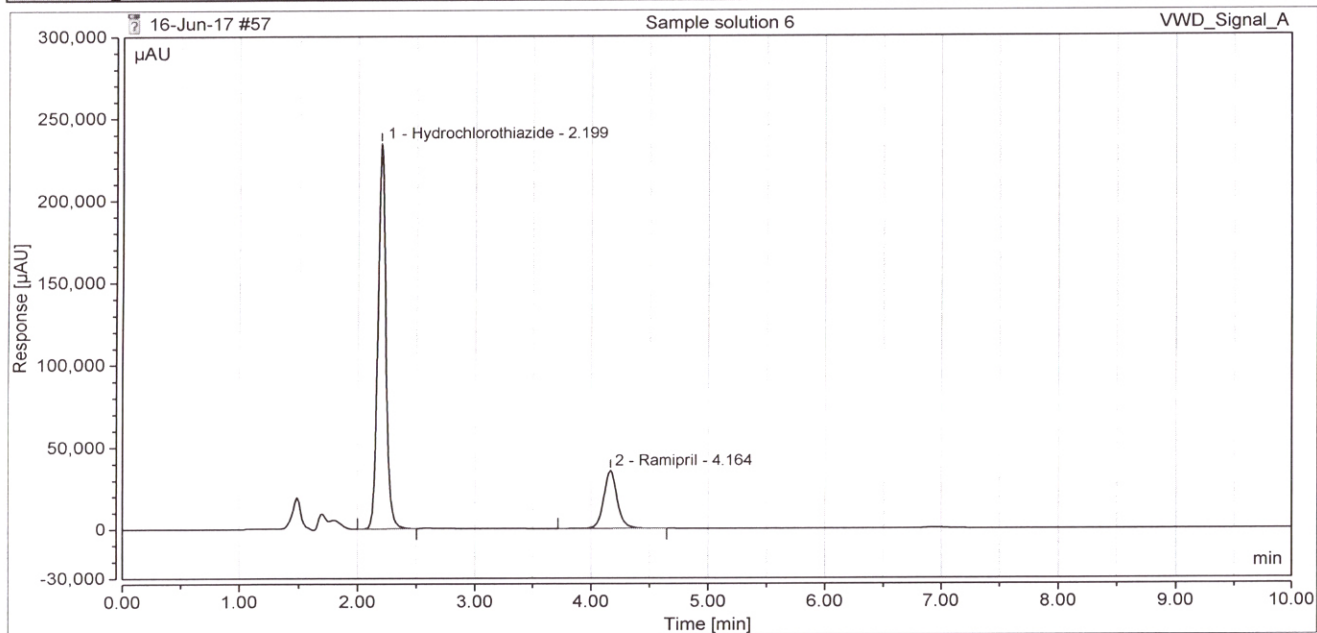
Pankaj Gurav
18-Jun-17

QbD Research and Development Pvt. Ltd

Injection Details

Injection Name:	Sample solution 6	Run Time (min):	10.00
Vial Number:	Vial:10	Injection Volume:	10.00
Injection Type:	Unknown	Channel:	VWD_Signal_A
Instrument Method:	Ramithiazide Dissolution HPLC-59_pH(+)	Wavelength:	210
Processing Method:	PR Method_1	Instrument Name:	QbD-INST-HPLC-59
Injection Date/Time:	17/Jun/2017 07:03	Sequence Name:	16-Jun-17
User Name:	Pankaj Gurav		

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.199	18654.228	79.84	5240	1.18
2	Ramipril	4.164	4711.586	20.16	6830	1.10
Total:			23365.815			

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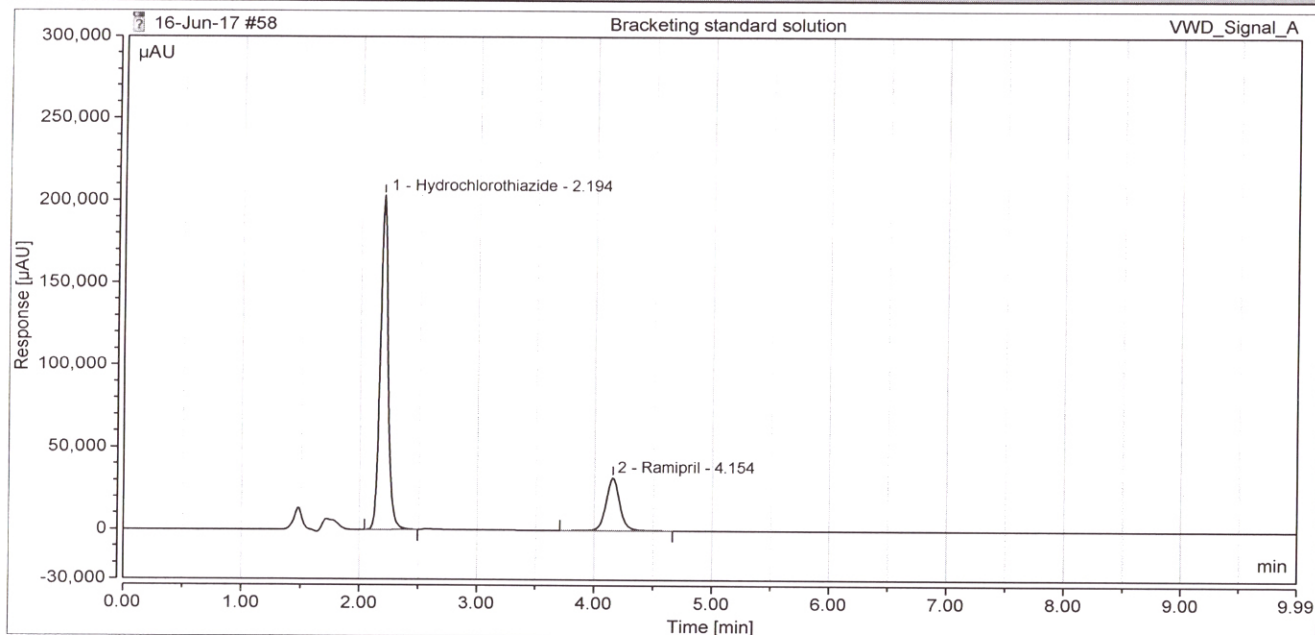
QbD Research and Development Pvt. Ltd

Injection Details

Injection Name: Bracketing standard solution
Vial Number: Vial:4
Injection Type: Unknown
Instrument Method: Ramithiazide Dissolution HPLC-59_pH(+)
Processing Method: PR Method_1
Injection Date/Time: 17/Jun/2017 07:15
User Name: Pankaj Gurav

Run Time (min): 9.99
Injection Volume: 10.00
Channel: VWD_Signal_A
Wavelength: 210
Instrument Name: QbD-INST-HPLC-59
Sequence Name: 16-Jun-17

Chromatogram



Integration Results

No.	Peak Name	Retention (DETECTED) min	Area μAU*min	Rel.Area %	Plates (USP)	Asymmetry (EP)
1	Hydrochlorothiazide	2.194	15830.056	78.64	5407	1.19
2	Ramipril	4.154	4299.176	21.36	6782	1.09
Total:			20129.232			

Pankaj Gurav
18-Jun-17

Sample Name	Position	Volume [µL]	Instrument Method	Processing Method	Status	Comment	Inject Time
Pre sst	Vial:2	10.00	Ramithiazide Dissolution HPLC-59_01	PR Method_ Dissolu	Finished		16-Jun-17 18:31 +0
Pre sst	Vial:3	10.00	Ramithiazide Dissolution HPLC-59_pH(-)	PR Method_ Dissolu	Finished		16-Jun-17 19:09 +0
Pre sst	Vial:4	10.00	Ramithiazide Dissolution HPLC-59_pH(+)	PR Method_ Dissolu	Finished		16-Jun-17 19:34 +0
Blank solution	Vial:1	10.00	Ramithiazide Dissolution HPLC-59_23 Deg	PR Method_1	Idle	Robustness- Change column temp 23 deg	
Standard solution 1	Vial:2	10.00	Ramithiazide Dissolution HPLC-59_23 Deg	PR Method_1	Idle	Robustness- Change column temp 23 deg	
Standard solution 2	Vial:2	10.00	Ramithiazide Dissolution HPLC-59_23 Deg	PR Method_1	Idle	Robustness- Change column temp 23 deg	
Standard solution 3	Vial:2	10.00	Ramithiazide Dissolution HPLC-59_23 Deg	PR Method_1	Idle	Robustness- Change column temp 23 deg	
Standard solution 4	Vial:2	10.00	Ramithiazide Dissolution HPLC-59_23 Deg	PR Method_1	Idle	Robustness- Change column temp 23 deg	
Standard solution 5	Vial:2	10.00	Ramithiazide Dissolution HPLC-59_23 Deg	PR Method_1	Idle	Robustness- Change column temp 23 deg	
Sample solution 1	Vial:5	10.00	Ramithiazide Dissolution HPLC-59_23 Deg	PR Method_1	Idle	Robustness- Change column temp 23 deg	
Sample solution 2	Vial:6	10.00	Ramithiazide Dissolution HPLC-59_23 Deg	PR Method_1	Idle	Robustness- Change column temp 23 deg	
Sample solution 3	Vial:7	10.00	Ramithiazide Dissolution HPLC-59_23 Deg	PR Method_1	Idle	Robustness- Change column temp 23 deg	
Sample solution 4	Vial:8	10.00	Ramithiazide Dissolution HPLC-59_23 Deg	PR Method_1	Idle	Robustness- Change column temp 23 deg	
Sample solution 5	Vial:9	10.00	Ramithiazide Dissolution HPLC-59_23 Deg	PR Method_1	Idle	Robustness- Change column temp 23 deg	
Sample solution 6	Vial:10	10.00	Ramithiazide Dissolution HPLC-59_23 Deg	PR Method_1	Idle	Robustness- Change column temp 23 deg	
Bracketing standard solution	Vial:2	10.00	Ramithiazide Dissolution HPLC-59_23 Deg	PR Method_1	Idle	Robustness- Change column temp 23 deg	
Blank solution	Vial:1	10.00	Ramithiazide Dissolution HPLC-59_27 Deg	PR Method_1	Idle	Robustness- Change column temp 27 deg	
Standard solution 1	Vial:1	10.00	Ramithiazide Dissolution HPLC-59_27 Deg	PR Method_1	Idle	Robustness- Change column temp 27 deg	
Standard solution 2	Vial:2	10.00	Ramithiazide Dissolution HPLC-59_27 Deg	PR Method_1	Idle	Robustness- Change column temp 27 deg	
Standard solution 3	Vial:2	10.00	Ramithiazide Dissolution HPLC-59_27 Deg	PR Method_1	Idle	Robustness- Change column temp 27 deg	
Standard solution 4	Vial:2	10.00	Ramithiazide Dissolution HPLC-59_27 Deg	PR Method_1	Idle	Robustness- Change column temp 27 deg	
Standard solution 5	Vial:2	10.00	Ramithiazide Dissolution HPLC-59_27 Deg	PR Method_1	Idle	Robustness- Change column temp 27 deg	
Sample solution 1	Vial:5	10.00	Ramithiazide Dissolution HPLC-59_27 Deg	PR Method_1	Idle	Robustness- Change column temp 27 deg	
Sample solution 2	Vial:6	10.00	Ramithiazide Dissolution HPLC-59_27 Deg	PR Method_1	Idle	Robustness- Change column temp 27 deg	
Sample solution 3	Vial:7	10.00	Ramithiazide Dissolution HPLC-59_27 Deg	PR Method_1	Idle	Robustness- Change column temp 27 deg	
Sample solution 4	Vial:8	10.00	Ramithiazide Dissolution HPLC-59_27 Deg	PR Method_1	Idle	Robustness- Change column temp 27 deg	
Sample solution 5	Vial:9	10.00	Ramithiazide Dissolution HPLC-59_27 Deg	PR Method_1	Idle	Robustness- Change column temp 27 deg	
Sample solution 6	Vial:10	10.00	Ramithiazide Dissolution HPLC-59_27 Deg	PR Method_1	Idle	Robustness- Change column temp 27 deg	
Bracketing standard solution	Vial:2	10.00	Ramithiazide Dissolution HPLC-59_27 Deg	PR Method_1	Idle	Robustness- Change column temp 27 deg	
Blank solution	Vial:1	10.00	Ramithiazide Dissolution HPLC-59_pH(-)	PR Method_1	Idle	Robustness- Change buffer pH 2.3	
Blank solution	Vial:1	10.00	Ramithiazide Dissolution HPLC-59_pH(-)	PR Method_1	Idle	Robustness- Change buffer pH 2.3	
Standard solution 1	Vial:3	10.00	Ramithiazide Dissolution HPLC-59_pH(-)	PR Method_1	Idle	Robustness- Change buffer pH 2.3	
Standard solution 2	Vial:3	10.00	Ramithiazide Dissolution HPLC-59_pH(-)	PR Method_1	Idle	Robustness- Change buffer pH 2.3	
Standard solution 3	Vial:3	10.00	Ramithiazide Dissolution HPLC-59_pH(-)	PR Method_1	Idle	Robustness- Change buffer pH 2.3	
Standard solution 4	Vial:3	10.00	Ramithiazide Dissolution HPLC-59_pH(-)	PR Method_1	Idle	Robustness- Change buffer pH 2.3	
Standard solution 5	Vial:3	10.00	Ramithiazide Dissolution HPLC-59_pH(-)	PR Method_1	Idle	Robustness- Change buffer pH 2.3	

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None	Sample solution 1	Vial:5	10.00	Ramithiazide Dissolution HPLC-59_pH(-)	PR Method_1	Idle	Robustness- Change buffer pH 2.3
None	Sample solution 2	Vial:6	10.00	Ramithiazide Dissolution HPLC-59_pH(+)	PR Method_1	Idle	Robustness- Change buffer pH 2.3
None	Sample solution 3	Vial:7	10.00	Ramithiazide Dissolution HPLC-59_pH(-)	PR Method_1	Idle	Robustness- Change buffer pH 2.3
None	Sample solution 4	Vial:8	10.00	Ramithiazide Dissolution HPLC-59_pH(-)	PR Method_1	Idle	Robustness- Change buffer pH 2.3
None	Sample solution 5	Vial:9	10.00	Ramithiazide Dissolution HPLC-59_pH(-)	PR Method_1	Idle	Robustness- Change buffer pH 2.3
None	Sample solution 6	Vial:10	10.00	Ramithiazide Dissolution HPLC-59_pH(-)	PR Method_1	Idle	Robustness- Change buffer pH 2.3
None	Bracketing standard solution	Vial:3	10.00	Ramithiazide Dissolution HPLC-59_pH(-)	PR Method_1	Idle	Robustness- Change buffer pH 2.3
None	Blank solution	Vial:1	10.00	Ramithiazide Dissolution HPLC-59_pH(+)	PR Method_1	Idle	Robustness- Change buffer pH 2.7
None	Blank solution	Vial:1	10.00	Ramithiazide Dissolution HPLC-59_pH(+)	PR Method_1	Idle	Robustness- Change buffer pH 2.7
None	Standard solution 1	Vial:4	10.00	Ramithiazide Dissolution HPLC-59_pH(+)	PR Method_1	Idle	Robustness- Change buffer pH 2.7
None	Standard solution 2	Vial:4	10.00	Ramithiazide Dissolution HPLC-59_pH(+)	PR Method_1	Idle	Robustness- Change buffer pH 2.7
None	Standard solution 3	Vial:4	10.00	Ramithiazide Dissolution HPLC-59_pH(+)	PR Method_1	Idle	Robustness- Change buffer pH 2.7
None	Standard solution 4	Vial:4	10.00	Ramithiazide Dissolution HPLC-59_pH(+)	PR Method_1	Idle	Robustness- Change buffer pH 2.7
None	Standard solution 5	Vial:4	10.00	Ramithiazide Dissolution HPLC-59_pH(+)	PR Method_1	Idle	Robustness- Change buffer pH 2.7
None	Sample solution 1	Vial:5	10.00	Ramithiazide Dissolution HPLC-59_pH(+)	PR Method_1	Idle	Robustness- Change buffer pH 2.7
None	Sample solution 2	Vial:6	10.00	Ramithiazide Dissolution HPLC-59_pH(+)	PR Method_1	Idle	Robustness- Change buffer pH 2.7
None	Sample solution 3	Vial:7	10.00	Ramithiazide Dissolution HPLC-59_pH(+)	PR Method_1	Idle	Robustness- Change buffer pH 2.7
None	Sample solution 4	Vial:8	10.00	Ramithiazide Dissolution HPLC-59_pH(+)	PR Method_1	Idle	Robustness- Change buffer pH 2.7
None	Sample solution 5	Vial:9	10.00	Ramithiazide Dissolution HPLC-59_pH(+)	PR Method_1	Idle	Robustness- Change buffer pH 2.7
None	Sample solution 6	Vial:10	10.00	Ramithiazide Dissolution HPLC-59_pH(+)	PR Method_1	Idle	Robustness- Change buffer pH 2.7
None	Bracketing standard solution	Vial:4	10.00	Ramithiazide Dissolution HPLC-59_pH(+)	PR Method_1	Idle	Robustness- Change buffer pH 2.7
None	Wash	Vial:1	10.00	Wash method D_H 059	PR Method_1	Idle	Robustness- Change buffer pH 2.7
None	Shut	Vial:1	10.00	Shut method_HPLC 59	PR Method_1	Idle	Robustness- Change buffer pH 2.7

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Name	Ramithiazide Dissolution HPLC-59_23 Deg
Data Vault	QbD_2017
Path	chrom://qbdser03/QbD_2017/Method Validation/Generic Health Care/Ramithiazide Tablets/Dissolution/16-Jun-17.seq/Ramithiazide Dissolution HPLC-59_23 Deg.instmeth
Comment	Ramithiazide
Description	Dissolution
Run time	10.000 [min]
Instrument	QbD-INST-HPLC-59 on qbd-pc-17
Created	06-Jun-17 11:20 +05:30 Santosh Padmure
Last Update	16-Jun-17 18:18 +05:30 Santosh Padmure

Pma
16-Jun-17

Stage	Time min	Command	Value	Comment
Instrument Setup				
	initial			
Inject Preparation	0.000	Wait	LCSystem.Ready	
Inject	0.000	LCSystem.ALS.Inject	Blank=Inject	
Start Run	0.000	LCSystem.QuatPump_Dir_PistonA.AcqOn LCSystem.QuatPump_Flow.AcqOn LCSystem.QuatPump_Pressure.AcqOn LCSystem.QuatPump_SolventRatioA.AcqOn LCSystem.QuatPump_SolventRatioB.AcqOn LCSystem.QuatPump_SolventRatioC.AcqOn LCSystem.QuatPump_SolventRatioD.AcqOn LCSystem.TCC_Left_Temperature.AcqOn LCSystem.TCC_Right_Temperature.AcqOn LCSystem.VWD_Board_Temperature.AcqOn LCSystem.VWD_Reference_Intensity.AcqOn LCSystem.VWD_Sample_Intensity.AcqOn LCSystem.VWD_UVLamp_AnodeVoltage.AcqOn LCSystem.VWD_Signal_A.AcqOn		
Run			Duration = 10.000 [min]	
Stop Run	0.000			
	10.000	LCSystem.QuatPump_Dir_PistonA.AcqOff LCSystem.QuatPump_Flow.AcqOff LCSystem.QuatPump_Pressure.AcqOff LCSystem.QuatPump_SolventRatioA.AcqOff LCSystem.QuatPump_SolventRatioB.AcqOff LCSystem.QuatPump_SolventRatioC.AcqOff LCSystem.QuatPump_SolventRatioD.AcqOff LCSystem.TCC_Left_Temperature.AcqOff		

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16-Jun-17

LCSystem.TCC_Right_Temperature.AcqOff

LCSystem.VWD_Board_Temperature.AcqOff

LCSystem.VWD_Reference_Intensity.AcqOff

LCSystem.VWD_Sample_Intensity.AcqOff

LCSystem.VWD_UVLamp_AnodeVoltage.AcqOff

LCSystem.VWD_Signal_A.AcqOff

End

Pankaj
16-Jun-17

Property	Value
Settings for module Quat. Pump (G1311C - Pump: PUMP.0)	
Flow	1.000 [mL/min]
Low Pressure Limit	0.00 [bar]
High Pressure Limit	400.00 [bar]
Maximum Flow Gradient	100.000 [mL/min ²]
Primary Channel	Automatic
Section Stroke (StrokeA)	
Automatic Stroke Calculation	Yes
Section Compress (CompressA)	
Compressibility Mode	Compressibility Value Set
Compressibility	100 [10e-6/bar]
Section Stop Time (StopTime)	
Stoptime Mode	Time set
Stoptime	10.00 [min]
Section Post Time (PostTime)	
Posttime Mode	Off
Solvent Composition (SolventComposition)	
0	
Channel	A
Name 1	Mobile Phase
Used	Yes
Percent	100.0 [%]
1	
Channel	B
Name 1	
Used	No
2	
Channel	C
Name 1	
Used	No
3	
Channel	D
Name 1	
Used	No
Timetable (Timetable)	
Settings for module Sampler (G1329B - Sampler: SAMPLER.0)	
Section Auxiliary (Auxiliary)	
Draw Speed	200 [µL/min]
Eject Speed	200 [µL/min]
Draw Position Offset	0.0 [mm]
Section Injection (Injection)	
Injection Mode	Injection with needle wash
Injection Volume	10.00 [µL]
Section Needle Wash (Injection_NeedleWash)	
Needle Wash Location	Wash Vial
Wash Location	Vial 100

Pankaj
16-Jun-17

Section High throughput (HighThroughput)	
Section Overlapped Injection (HighThroughput_OverlappedInjection)	
Enable Overlapped Injection	No
Section Stop Time (StopTime)	
Stoptime Mode	As pump/No limit
Section Post Time (PostTime)	
Posttime Mode	Off
Section Timetable (Timetable)	
Timetable (Timetable_TimetableEntry)	
Settings for module Column Comp. (G1316A - Column Comp.: COLCOMP.0)	
Section Left Temperature Control (LeftTemperatureControl)	
Temperature Control Mode	Temperature Set
Temperature	23.00 [°C]
Section Enable Analysis Left Temperature (LeftTemperatureControl_NotReadyLimit)	
Enable Analysis Left Temperature On	Yes
Enable Analysis Left Temperature Value	0.80 [°C]
Section Right Temperature Control (RightTemperatureControl)	
Right temperature Control Mode	Combined
Section Enable Analysis Right Temperature (RightTemperatureControl_NotReadyLimit)	
Enable Analysis Right Temperature On	Yes
Enable Analysis Right Temperature Value	0.80 [°C]
Section Stop Time (StopTime)	
Stoptime Mode	As pump/injector
Section Post Time (PostTime)	
Posttime Mode	Off
Section Timetable (Timetable)	
Timetable (Timetable_TimetableEntry)	
Settings for module VWD (G1314B - VWD: VWD.0)	
Signal Peakwidth	> 0.1 min (2 s resp. time) (3.43 Hz)
Analog Output Source Channel	1
Signal Polarity	Positive (+)
Lamp on required for aquisition	Yes
Acquire Signal without Reference	No
Acquire Reference only	No
Section Analog Output (AnalogOutput)	
Analog Zero Offset	5 [%]
Analog Attenuation	1000 [mAU]
Section Signals (Signals)	

Pankaj Gurav
16 Jun-17

Section Signal (Signals_Signal)	
Use Signal	Yes
Signal ID	Signal A
Signal Wavelength	210 [nm]
Section Prepare Mode (PrepareMode)	
Margin for negative Absorbance	100 [mAU]
Section Autobalance (PrepareAutomation)	
Autobalance Prerun	Yes
Autobalance Postrun	No
Section Scan Variables (ScanVariables)	
Scan Range From	190 [nm]
Scan Range To	400 [nm]
Scan Range Step	2 [nm]
Section Stoptime (StopTime)	
Stoptime Mode	As pump/injector
Section Posttime (PostTime)	
Posttime Mode	Off
Section Timetable (Timetable)	
Timetable (Timetable_TimetableEntry)	

Pankaj Gurav
16-Jun-17

Property	Value
Settings for module Sampler (G1329B -	
Pretreatment (PretreatmentInstruction)	

Pankaj Gurav
16-06-17

Name	Ramithiazide Dissolution HPLC-59_pH(-)
Data Vault	QbD_2017
Path	chrom://qbdser03/QbD_2017/Method Validation/Generic Health Care/Ramithiazide Tablets/Dissolution/16-Jun-17.seq/Ramithiazide Dissolution HPLC-59_pH(-).instmeth
Comment	Ramithiazide
Description	Dissolution
Run time	10.000 [min]
Instrument	QbD-INST-HPLC-59 on qbd-pc-17
Created	06-Jun-17 11:20 +05:30 Santosh Padmure
Last Update	16-Jun-17 18:22 +05:30 Santosh Padmure


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Stage	Time min	Command	Value	Comment
Instrument Setup	initial			
Inject Preparation	0.000	Wait	LCSystem.Read y	
Inject	0.000	LCSystem.ALS.Inject	Blank=Inject	
Start Run	0.000	LCSystem.QuatPump_Dir_PistonA.AcqOn LCSystem.QuatPump_Flow.AcqOn LCSystem.QuatPump_Pressure.AcqOn LCSystem.QuatPump_SolventRatioA.AcqO n LCSystem.QuatPump_SolventRatioB.AcqO n LCSystem.QuatPump_SolventRatioC.AcqO n LCSystem.QuatPump_SolventRatioD.AcqO n LCSystem.TCC_Left_Temperature.AcqOn LCSystem.TCC_Right_Temperature.AcqOn LCSystem.VWD_Board_Temperature.Acq On LCSystem.VWD_Reference_Intensity.AcqO n LCSystem.VWD_Sample_Intensity.AcqOn LCSystem.VWD_UVLamp_AnodeVoltage.A cqOn LCSystem.VWD_Signal_A.AcqOn		
Run			Duration = 10.000 [min]	
Stop Run	0.000			
	10.000	LCSystem.QuatPump_Dir_PistonA.AcqOff LCSystem.QuatPump_Flow.AcqOff LCSystem.QuatPump_Pressure.AcqOff LCSystem.QuatPump_SolventRatioA.AcqO ff LCSystem.QuatPump_SolventRatioB.AcqO ff LCSystem.QuatPump_SolventRatioC.AcqO ff LCSystem.QuatPump_SolventRatioD.AcqO ff LCSystem.TCC_Left_Temperature.AcqOff		

Signature
 16-Jun-17

LCSystem.TCC_Right_Temperature.AcqOff

LCSystem.VWD_Board_Temperature.Acq
Off

LCSystem.VWD_Reference_Intensity.AcqO
ff

LCSystem.VWD_Sample_Intensity.AcqOff

LCSystem.VWD_UVLamp_AnodeVoltage.A
cqOff

LCSystem.VWD_Signal_A.AcqOff

End


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Property	Value
Settings for module Quat. Pump (G1311C - Pump: PUMP.0)	
Flow	1.000 [mL/min]
Low Pressure Limit	0.00 [bar]
High Pressure Limit	400.00 [bar]
Maximum Flow Gradient	100.000 [mL/min ²]
Primary Channel	Automatic
Section Stroke (StrokeA)	
Automatic Stroke Calculation	Yes
Section Compress (CompressA)	
Compressibility Mode	Compressibility Value Set
Compressibility	100 [10e-6/bar]
Section Stop Time (StopTime)	
Stoptime Mode	Time set
Stoptime	10.00 [min]
Section Post Time (PostTime)	
Posttime Mode	Off
Solvent Composition (SolventComposition)	
0	
Channel	A
Name 1	
Used	Yes
Percent	0.0 [%]
1	
Channel	B
Name 1	Mobile Phase (pH 2.3)
Used	Yes
Percent	100.0 [%]
2	
Channel	C
Name 1	
Used	No
3	
Channel	D
Name 1	
Used	No
Timetable (Timetable)	
Settings for module Sampler (G1329B - Sampler: SAMPLER.0)	
Section Auxiliary (Auxiliary)	
Draw Speed	200 [µL/min]
Eject Speed	200 [µL/min]
Draw Position Offset	0.0 [mm]
Section Injection (Injection)	
Injection Mode	Injection with needle wash
Injection Volume	10.00 [µL]
Section Needle Wash (Injection_NeedleWash)	
Needle Wash Location	Wash Vial

Praveen
16-Jun-17

Wash Location	Vial 100
Section High throughput (HighThroughput)	
Section Overlapped Injection (HighThroughput_OverlappedInjection)	
Enable Overlapped Injection	No
Section Stop Time (StopTime)	
Stoptime Mode	As pump/No limit
Section Post Time (PostTime)	
Posttime Mode	Off
Section Timetable (Timetable)	
Timetable (Timetable_TimetableEntry)	
Settings for module Column Comp. (G1316A - Column Comp.: COLCOMP.0)	
Section Left Temperature Control (LeftTemperatureControl)	
Temperature Control Mode	Temperature Set
Temperature	25.00 [°C]
Section Enable Analysis Left Temperature (LeftTemperatureControl_NotReadyLimit)	
Enable Analysis Left Temperature On	Yes
Enable Analysis Left Temperature Value	0.80 [°C]
Section Right Temperature Control (RightTemperatureControl)	
Right temperature Control Mode	Combined
Section Enable Analysis Right Temperature (RightTemperatureControl_NotReadyLimit)	
Enable Analysis Right Temperature On	Yes
Enable Analysis Right Temperature Value	0.80 [°C]
Section Stop Time (StopTime)	
Stoptime Mode	As pump/injector
Section Post Time (PostTime)	
Posttime Mode	Off
Section Timetable (Timetable)	
Timetable (Timetable_TimetableEntry)	
Settings for module VWD (G1314B - VWD: VWD.0)	
Signal Peakwidth	> 0.1 min (2 s resp. time) (3.43 Hz)
Analog Output Source Channel	1
Signal Polarity	Positive (+)
Lamp on required for aquisition	Yes
Acquire Signal without Reference	No
Acquire Reference only	No
Section Analog Output (AnalogOutput)	
Analog Zero Offset	5 [%]
Analog Attenuation	1000 [mAU]

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16-Jun-17

Section Signals (Signals)	
Section Signal (Signals_Signal)	
Use Signal	Yes
Signal ID	Signal A
Signal Wavelength	210 [nm]
Section Prepare Mode (PrepareMode)	
Margin for negative Absorbance	100 [mAU]
Section Autobalance (PrepareAutomation)	
Autobalance Prerun	Yes
Autobalance Postrun	No
Section Scan Variables (ScanVariables)	
Scan Range From	190 [nm]
Scan Range To	400 [nm]
Scan Range Step	2 [nm]
Section Stoptime (StopTime)	
Stoptime Mode	As pump/injector
Section Posttime (PostTime)	
Posttime Mode	Off
Section Timetable (Timetable)	
Timetable (Timetable_TimetableEntry)	

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16-Jun-17

Property	Value
Settings for module Sampler (G1329B -	
Pretreatment (PretreatmentInstruction)	

Pankaj Gurav
16 Jun 17

Name	Ramithiazide Dissolution HPLC-59_27 Deg
Data Vault	QbD_2017
Path	chrom://qbdser03/QbD_2017/Method Validation/Generic Health Care/Ramithiazide Tablets/Dissolution/16-Jun-17.seq/Ramithiazide Dissolution HPLC-59_27 Deg.instmeth
Comment	Ramithiazide
Description	Dissolution
Run time	10.000 [min]
Instrument	QbD-INST-HPLC-59 on qbd-pc-17
Created	06-Jun-17 11:20 +05:30 Santosh Padmure
Last Update	16-Jun-17 18:20 +05:30 Santosh Padmure

Pankaj Gurav
16-Jun-17

Stage	Time min	Command	Value	Comment
Instrument Setup	initial			
Inject Preparation	0.000	Wait	LCSystem.Ready	
Inject	0.000	LCSystem.ALS.Inject	Blank=Inject	
Start Run	0.000	LCSystem.QuatPump_Dir_PistonA.AcqOn LCSystem.QuatPump_Flow.AcqOn LCSystem.QuatPump_Pressure.AcqOn LCSystem.QuatPump_SolventRatioA.AcqOn LCSystem.QuatPump_SolventRatioB.AcqOn LCSystem.QuatPump_SolventRatioC.AcqOn LCSystem.QuatPump_SolventRatioD.AcqOn LCSystem.TCC_Left_Temperature.AcqOn LCSystem.TCC_Right_Temperature.AcqOn LCSystem.VWD_Board_Temperature.AcqOn LCSystem.VWD_Reference_Intensity.AcqOn LCSystem.VWD_Sample_Intensity.AcqOn LCSystem.VWD_UVLamp_AnodeVoltage.AcqOn LCSystem.VWD_Signal_A.AcqOn		
Run			Duration = 10.000 [min]	
Stop Run	0.000			
	10.000	LCSystem.QuatPump_Dir_PistonA.AcqOff LCSystem.QuatPump_Flow.AcqOff LCSystem.QuatPump_Pressure.AcqOff LCSystem.QuatPump_SolventRatioA.AcqOff LCSystem.QuatPump_SolventRatioB.AcqOff LCSystem.QuatPump_SolventRatioC.AcqOff LCSystem.QuatPump_SolventRatioD.AcqOff LCSystem.TCC_Left_Temperature.AcqOff		

Signature
 16-Jun-17

LCSystem.TCC_Right_Temperature.AcqOff

LCSystem.VWD_Board_Temperature.AcqOff

LCSystem.VWD_Reference_Intensity.AcqOff

LCSystem.VWD_Sample_Intensity.AcqOff

LCSystem.VWD_UVLamp_AnodeVoltage.AcqOff

LCSystem.VWD_Signal_A.AcqOff

End

B. Mani
16-Jun-17

Property	Value
Settings for module Quat. Pump (G1311C - Pump: PUMP.0)	
Flow	1.000 [mL/min]
Low Pressure Limit	0.00 [bar]
High Pressure Limit	400.00 [bar]
Maximum Flow Gradient	100.000 [mL/min ²]
Primary Channel	Automatic
Section Stroke (StrokeA)	
Automatic Stroke Calculation	Yes
Section Compress (CompressA)	
Compressibility Mode	Compressibility Value Set
Compressibility	100 [10e-6/bar]
Section Stop Time (StopTime)	
Stoptime Mode	Time set
Stoptime	10.00 [min]
Section Post Time (PostTime)	
Posttime Mode	Off
Solvent Composition (SolventComposition)	
0	
Channel	A
Name 1	Mobile Phase
Used	Yes
Percent	100.0 [%]
1	
Channel	B
Name 1	
Used	No
2	
Channel	C
Name 1	
Used	No
3	
Channel	D
Name 1	
Used	No
Timetable (Timetable)	
Settings for module Sampler (G1329B - Sampler: SAMPLER.0)	
Section Auxiliary (Auxiliary)	
Draw Speed	200 [µL/min]
Eject Speed	200 [µL/min]
Draw Position Offset	0.0 [mm]
Section Injection (Injection)	
Injection Mode	Injection with needle wash
Injection Volume	10.00 [µL]
Section Needle Wash (Injection_NeedleWash)	
Needle Wash Location	Wash Vial
Wash Location	Vial 100

Signature
16-Jun-17

Section High throughput (HighThroughput)	
Section Overlapped Injection (HighThroughput_OverlappedInjection)	
Enable Overlapped Injection	No
Section Stop Time (StopTime)	
Stoptime Mode	As pump/No limit
Section Post Time (PostTime)	
Posttime Mode	Off
Section Timetable (Timetable)	
Timetable (Timetable_TimetableEntry)	
Settings for module Column Comp. (G1316A - Column Comp.: COLCOMP.0)	
Section Left Temperature Control (LeftTemperatureControl)	
Temperature Control Mode	Temperature Set
Temperature	27.00 [°C]
Section Enable Analysis Left Temperature (LeftTemperatureControl_NotReadyLimit)	
Enable Analysis Left Temperature On	Yes
Enable Analysis Left Temperature Value	0.80 [°C]
Section Right Temperature Control (RightTemperatureControl)	
Right temperature Control Mode	Combined
Section Enable Analysis Right Temperature (RightTemperatureControl_NotReadyLimit)	
Enable Analysis Right Temperature On	Yes
Enable Analysis Right Temperature Value	0.80 [°C]
Section Stop Time (StopTime)	
Stoptime Mode	As pump/injector
Section Post Time (PostTime)	
Posttime Mode	Off
Section Timetable (Timetable)	
Timetable (Timetable_TimetableEntry)	
Settings for module VWD (G1314B - VWD: VWD.0)	
Signal Peakwidth	> 0.1 min (2 s resp. time) (3.43 Hz)
Analog Output Source Channel	1
Signal Polarity	Positive (+)
Lamp on required for aquisition	Yes
Acquire Signal without Reference	No
Acquire Reference only	No
Section Analog Output (AnalogOutput)	
Analog Zero Offset	5 [%]
Analog Attenuation	1000 [mAU]
Section Signals (Signals)	

B. Padmure
16-Jun-17

Section Signal (Signals_Signal)	
Use Signal	Yes
Signal ID	Signal A
Signal Wavelength	210 [nm]
Section Prepare Mode (PrepareMode)	
Margin for negative Absorbance	100 [mAU]
Section Autobalance (PrepareAutomation)	
Autobalance Prerun	Yes
Autobalance Postrun	No
Section Scan Variables (ScanVariables)	
Scan Range From	190 [nm]
Scan Range To	400 [nm]
Scan Range Step	2 [nm]
Section Stoptime (StopTime)	
Stoptime Mode	As pump/injector
Section Posttime (PostTime)	
Posttime Mode	Off
Section Timetable (Timetable)	
Timetable (Timetable_TimetableEntry)	

Pankaj
16-06-17

Property	Value
Settings for module Sampler (G1329B - Pretreatment (PretreatmentInstruction)	

Pankaj
16-Jun-17

<i>Name</i>	Ramithiazide Dissolution HPLC-59_pH(+)
<i>Data Vault Path</i>	QbD_2017 chrom://qbdser03/QbD_2017/Method Validation/Generic Health Care/Ramithiazide Tablets/Dissolution/16-Jun- 17.seq/Ramithiazide Dissolution HPLC-59_pH(+).instmeth
<i>Comment</i>	Ramithiazide
<i>Description</i>	Dissolution
<i>Run time</i>	10.000 [min]
<i>Instrument</i>	QbD-INST-HPLC-59 on qbd-pc-17
<i>Created</i>	06-Jun-17 11:20 +05:30 Santosh Padmure
<i>Last Update</i>	16-Jun-17 18:23 +05:30 Santosh Padmure

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16-Jun-17

Stage	Time min	Command	Value	Comment
Instrument Setup	initial			
Inject Preparation	0.000	Wait	LCSystem.Ready	
Inject	0.000	LCSystem.ALS.Inject	Blank=Inject	
Start Run	0.000	LCSystem.QuatPump_Dir_PistonA.AcqOn LCSystem.QuatPump_Flow.AcqOn LCSystem.QuatPump_Pressure.AcqOn LCSystem.QuatPump_SolventRatioA.AcqOn LCSystem.QuatPump_SolventRatioB.AcqOn LCSystem.QuatPump_SolventRatioC.AcqOn LCSystem.QuatPump_SolventRatioD.AcqOn LCSystem.TCC_Left_Temperature.AcqOn LCSystem.TCC_Right_Temperature.AcqOn LCSystem.VWD_Board_Temperature.AcqOn LCSystem.VWD_Reference_Intensity.AcqOn LCSystem.VWD_Sample_Intensity.AcqOn LCSystem.VWD_UVLamp_AnodeVoltage.AcqOn LCSystem.VWD_Signal_A.AcqOn		
Run	0.000		Duration = 10.000 [min]	
Stop Run	10.000	LCSystem.QuatPump_Dir_PistonA.AcqOff LCSystem.QuatPump_Flow.AcqOff LCSystem.QuatPump_Pressure.AcqOff LCSystem.QuatPump_SolventRatioA.AcqOff LCSystem.QuatPump_SolventRatioB.AcqOff LCSystem.QuatPump_SolventRatioC.AcqOff LCSystem.QuatPump_SolventRatioD.AcqOff LCSystem.TCC_Left_Temperature.AcqOff		

Signature
16-Jun-17

```
LCSystem.TCC_Right_Temperature.AcqOff  
  
LCSystem.VWD_Board_Temperature.Acq  
Off  
LCSystem.VWD_Reference_Intensity.AcqO  
ff  
LCSystem.VWD_Sample_Intensity.AcqOff  
LCSystem.VWD_UVLamp_AnodeVoltage.A  
cqOff  
LCSystem.VWD_Signal_A.AcqOff  
  
End
```

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Property	Value
Settings for module Quat. Pump (G1311C - Pump: PUMP.0)	
Flow	1.000 [mL/min]
Low Pressure Limit	0.00 [bar]
High Pressure Limit	400.00 [bar]
Maximum Flow Gradient	100.000 [mL/min ²]
Primary Channel	Automatic
Section Stroke (StrokeA)	
Automatic Stroke Calculation	Yes
Section Compress (CompressA)	
Compressibility Mode	Compressibility Value Set
Compressibility	100 [10e-6/bar]
Section Stop Time (StopTime)	
Stoptime Mode	Time set
Stoptime	10.00 [min]
Section Post Time (PostTime)	
Posttime Mode	Off
Solvent Composition (SolventComposition)	
0	
Channel	A
Name 1	
Used	Yes
Percent	0.0 [%]
1	
Channel	B
Name 1	
Used	No
2	
Channel	C
Name 1	Mobile Phase (pH 2.7)
Used	Yes
Percent	100.0 [%]
3	
Channel	D
Name 1	
Used	No
Timetable (Timetable)	
Settings for module Sampler (G1329B - Sampler: SAMPLER.0)	
Section Auxiliary (Auxiliary)	
Draw Speed	200 [µL/min]
Eject Speed	200 [µL/min]
Draw Position Offset	0.0 [mm]
Section Injection (Injection)	
Injection Mode	Injection with needle wash
Injection Volume	10.00 [µL]
Section Needle Wash (Injection_NeedleWash)	
Needle Wash Location	Wash Vial

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Wash Location	Vial 100
Section High throughput (HighThroughput)	
Section Overlapped Injection (HighThroughput_OverlappedInjection)	
Enable Overlapped Injection	No
Section Stop Time (StopTime)	
Stoptime Mode	As pump/No limit
Section Post Time (PostTime)	
Posttime Mode	Off
Section Timetable (Timetable)	
Timetable (Timetable_TimetableEntry)	
Settings for module Column Comp. (G1316A - Column Comp.: COLCOMP.0)	
Section Left Temperature Control (LeftTemperatureControl)	
Temperature Control Mode	Temperature Set
Temperature	25.00 [°C]
Section Enable Analysis Left Temperature (LeftTemperatureControl_NotReadyLimit)	
Enable Analysis Left Temperature On	Yes
Enable Analysis Left Temperature Value	0.80 [°C]
Section Right Temperature Control (RightTemperatureControl)	
Right temperature Control Mode	Combined
Section Enable Analysis Right Temperature (RightTemperatureControl_NotReadyLimit)	
Enable Analysis Right Temperature On	Yes
Enable Analysis Right Temperature Value	0.80 [°C]
Section Stop Time (StopTime)	
Stoptime Mode	As pump/injector
Section Post Time (PostTime)	
Posttime Mode	Off
Section Timetable (Timetable)	
Timetable (Timetable_TimetableEntry)	
Settings for module VWD (G1314B - VWD: VWD.0)	
Signal Peakwidth	> 0.1 min (2 s resp. time) (3.43 Hz)
Analog Output Source Channel	1
Signal Polarity	Positive (+)
Lamp on required for aquisition	Yes
Acquire Signal without Reference	No
Acquire Reference only	No
Section Analog Output (AnalogOutput)	
Analog Zero Offset	5 [%]
Analog Attenuation	1000 [mAU]

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Section Signals (Signals)	
Section Signal (Signals_Signal)	
Use Signal	Yes
Signal ID	Signal A
Signal Wavelength	210 [nm]
Section Prepare Mode (PrepareMode)	
Margin for negative Absorbance	100 [mAU]
Section Autobalance (PrepareAutomation)	
Autobalance Prerun	Yes
Autobalance Postrun	No
Section Scan Variables (ScanVariables)	
Scan Range From	190 [nm]
Scan Range To	400 [nm]
Scan Range Step	2 [nm]
Section Stoptime (StopTime)	
Stoptime Mode	As pump/injector
Section Posttime (PostTime)	
Posttime Mode	Off
Section Timetable (Timetable)	
Timetable (Timetable_TimetableEntry)	

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Property	Value
Settings for module Sampler (G1329B -	
Pretreatment (PretreatmentInstruction)	

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