

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122619\
 Data File : VD064608.D
 Acq On : 26 Dec 2019 19:27
 Operator : VA/SY
 Sample : K6437-07
 Misc : 6.96G/5.00ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 27 01:42:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

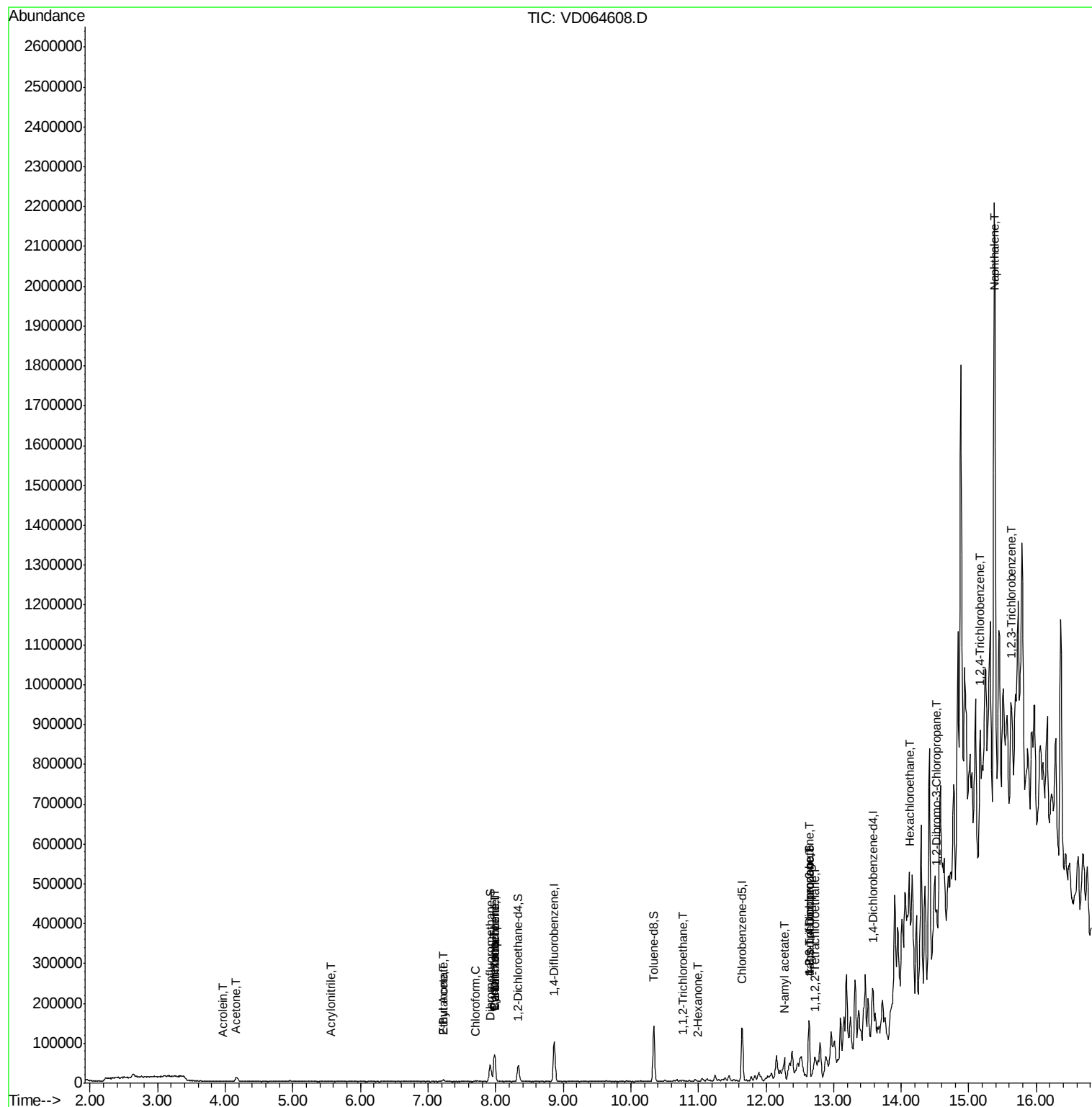
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	52013	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	86049	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	78378	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	42527	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	31723	69.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	138.34%	
35) Dibromofluoromethane	7.92	113	28072	53.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.34%	
50) Toluene-d8	10.34	98	93962	46.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.94%	
62) 4-Bromofluorobenzene	12.64	95	34300	53.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.30%	
Target Compounds						
					Qvalue	
13) Acrolein	3.97	56	55	1.501	ug/l #	14
15) Acrylonitrile	5.56	53	120	1.250	ug/l #	17
16) Acetone	4.17	43	18120	182.788	ug/l	96
20) Methylene Chloride	4.96	84	1501	Below Cal	#	73
25) 2-Butanone	7.23	43	6284	49.845	ug/l #	88
30) Chloroform	7.70	83	1369	1.527	ug/l #	81
31) Cyclohexane	7.97	56	1275	1.491	ug/l #	77
36) 1,1-Dichloropropene	7.99	75	3645	4.401	ug/l #	48
37) Ethyl Acetate	7.23	43	6284	19.314	ug/l #	70
38) Carbon Tetrachloride	7.99	117	4417	5.002	ug/l #	18
55) 1,1,2-Trichloroethane	10.78	97	738	1.819	ug/l #	28
59) 2-Hexanone	10.99	43	645	2.969	ug/l #	41
74) N-amyl acetate	12.27	43	12925	19.896	ug/l #	43
75) 1,1,2,2-Tetrachloroethane	12.72	83	696	1.458	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	17560	52.290	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	17560	109.363	ug/l #	14
90) Hexachloroethane	14.13	117	896	1.651	ug/l #	5
92) 1,2-Dibromo-3-Chloropropan	14.53	75	168	2.171	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.17	180	2538	2.840	ug/l #	1
95) Naphthalene	15.38	128	3111	2.200	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.63	180	4656	6.102	ug/l #	12

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064608.D

Acq: 26 Dec 2019 19:27

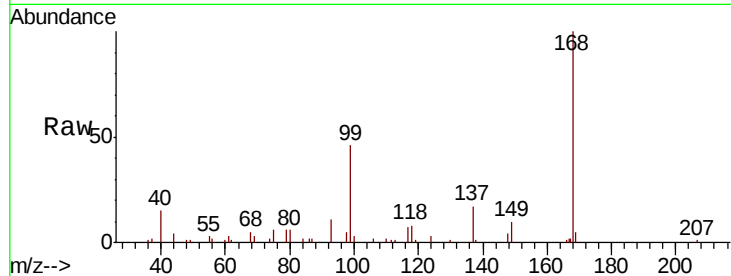
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 52013

Ion Ratio Lower Upper

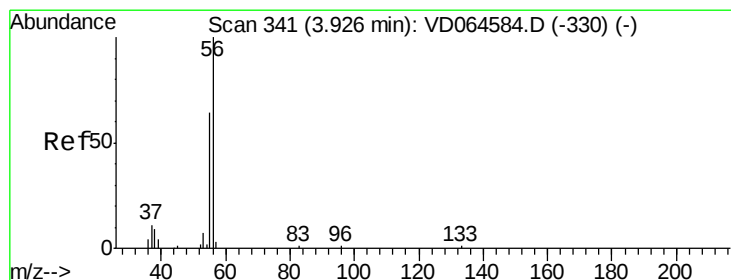
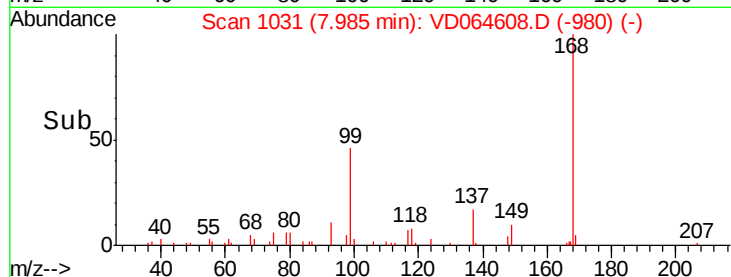
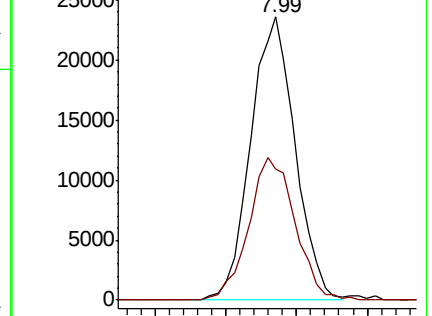
168 100

99 46.4 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#13

Acrolein

Concen: 1.501 ug/l

RT: 3.97 min Scan# 348

Delta R.T. 0.04 min

Lab File: VD064608.D

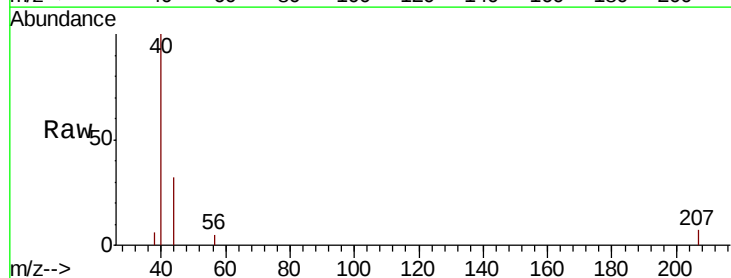
Acq: 26 Dec 2019 19:27

Tgt Ion: 56 Resp: 55

Ion Ratio Lower Upper

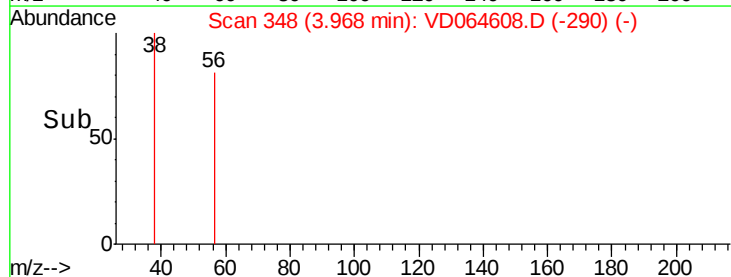
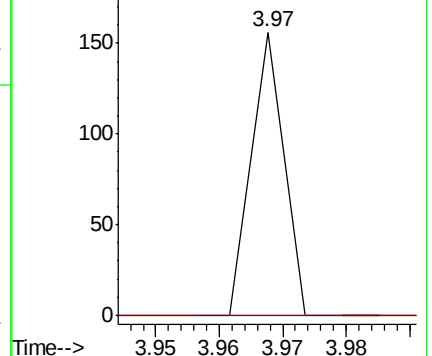
56 100

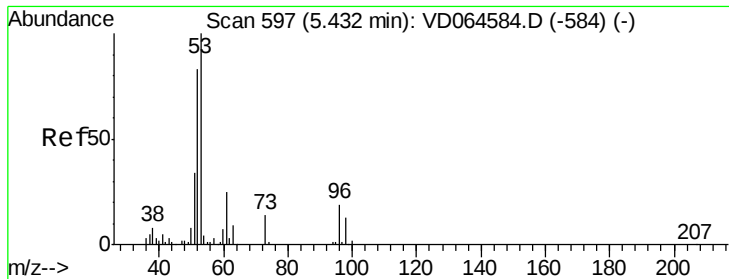
55 0.0 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC





#15

Acrylonitrile

Concen: 1.250 ug/l

RT: 5.56 min Scan# 619

Delta R.T. 0.13 min

Lab File: VD064608.D

Acq: 26 Dec 2019 19:27

Instrument :

MSVOA_D

ClientSampled :

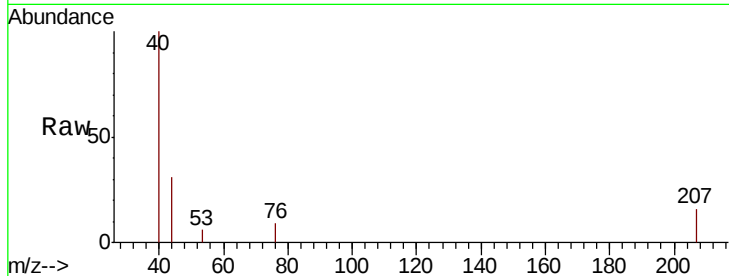
Tot Ion: 53 Resp: 120

Ion Ratio Lower Upper

53 100

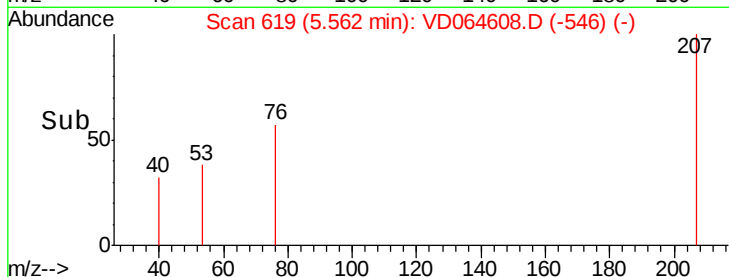
52 0.0 66.2 99.2#

51 0.0 30.1 45.1#

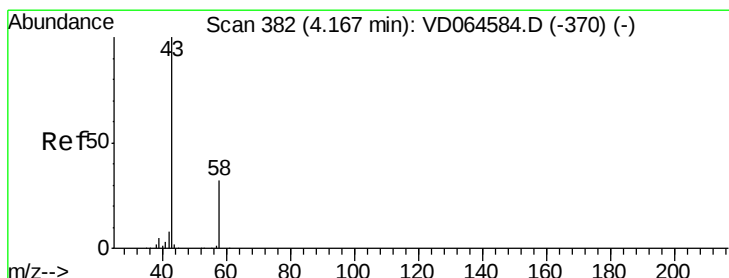


Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC

5.56



Time-->



#16

Acetone

Concen: 182.788 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD064608.D

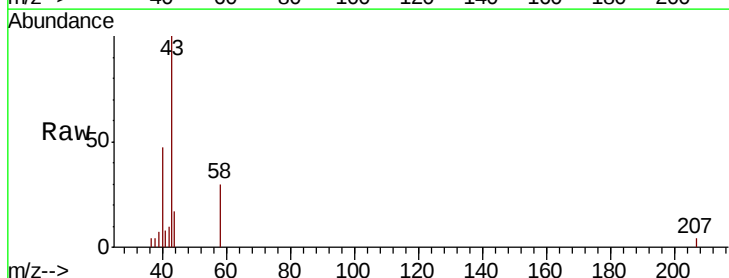
Acq: 26 Dec 2019 19:27

Tgt Ion: 43 Resp: 18120

Ion Ratio Lower Upper

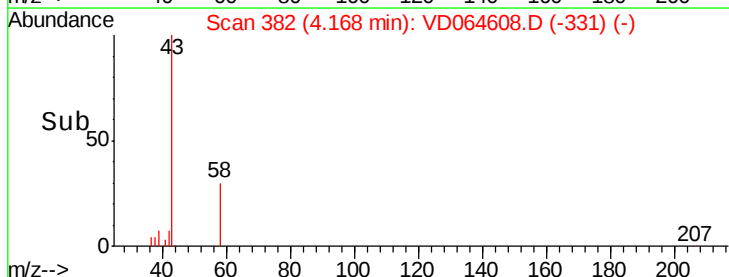
43 100

58 29.8 25.8 38.6

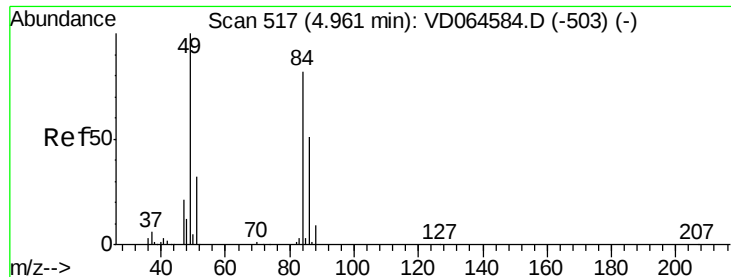


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

4.17



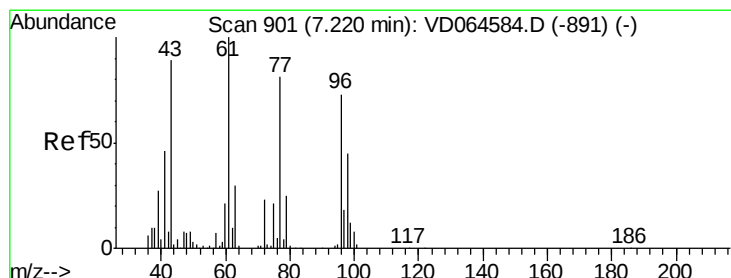
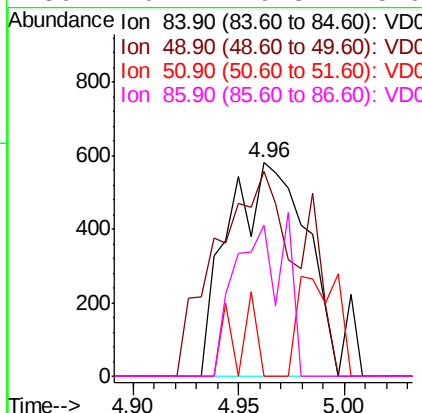
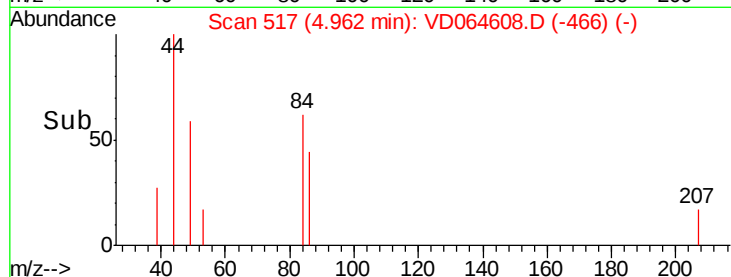
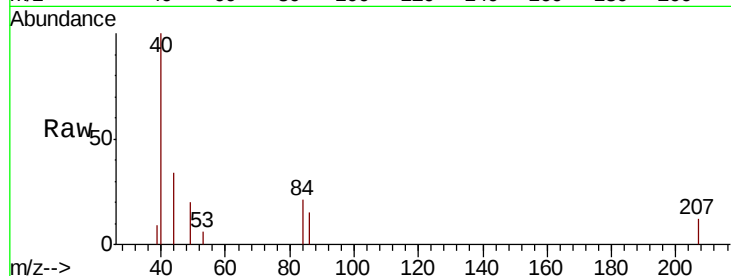
Time-->



#20
Methylene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD064608.D
Acq: 26 Dec 2019 19:27

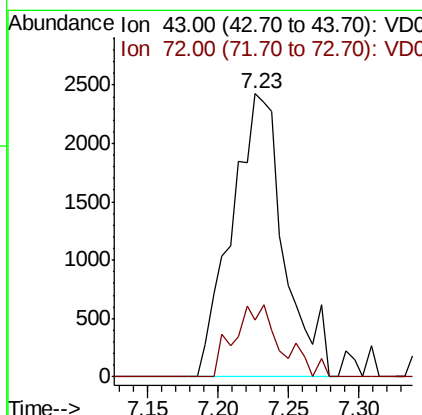
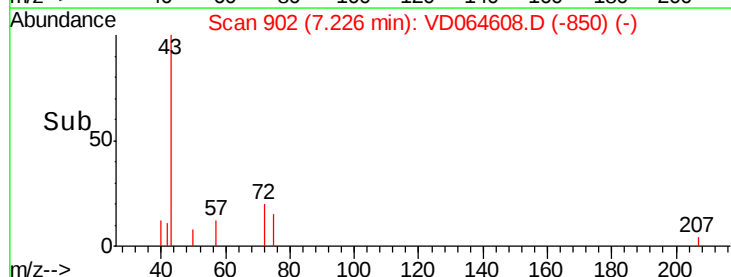
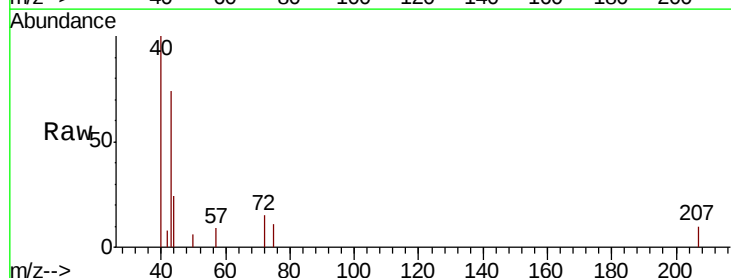
Instrument :
MSVOA_D
ClientSampled :

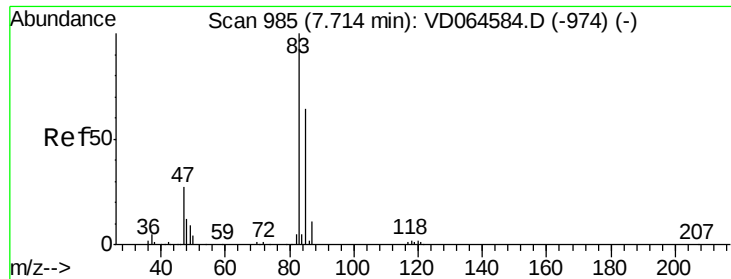
Tot Ion: 84 Resp: 1501
Ion Ratio Lower Upper
84 100
49 96.0 97.2 145.8#
51 0.0 31.4 47.0#
86 70.7 49.3 73.9



#25
2-Butanone
Concen: 49.845 ug/l
RT: 7.23 min Scan# 902
Delta R.T. 0.01 min
Lab File: VD064608.D
Acq: 26 Dec 2019 19:27

Tgt Ion: 43 Resp: 6284
Ion Ratio Lower Upper
43 100
72 19.9 20.7 31.1#

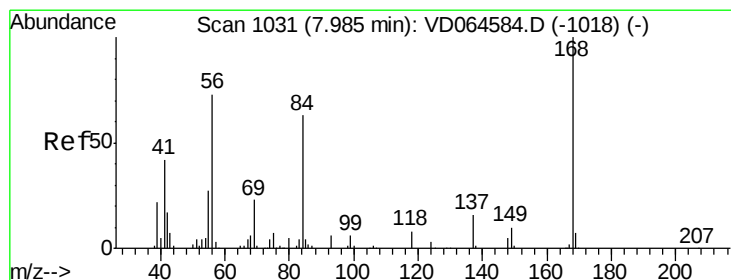
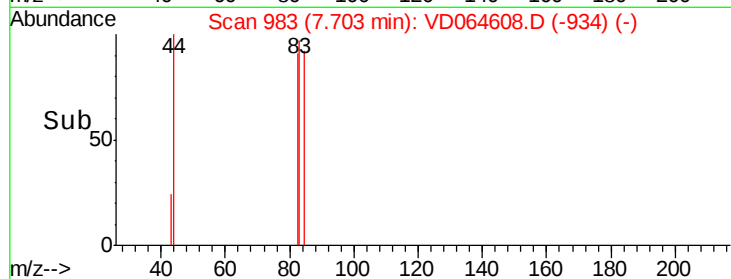
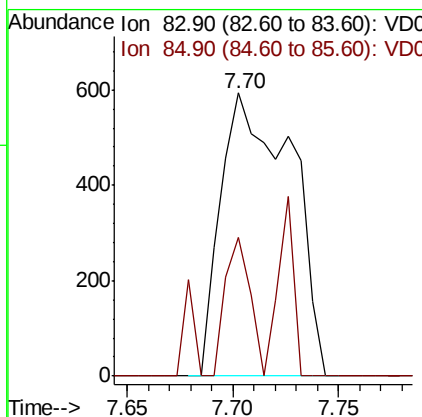
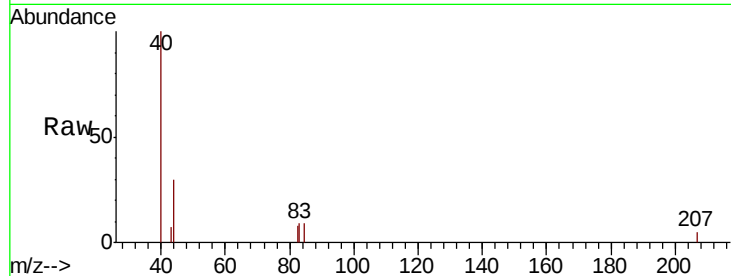




#30
Chloroform
Concen: 1.527 ug/l
RT: 7.70 min Scan# 983
Delta R.T. -0.01 min
Lab File: VD064608.D
Acq: 26 Dec 2019 19:27

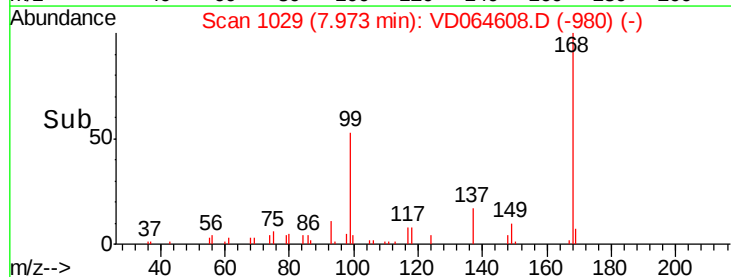
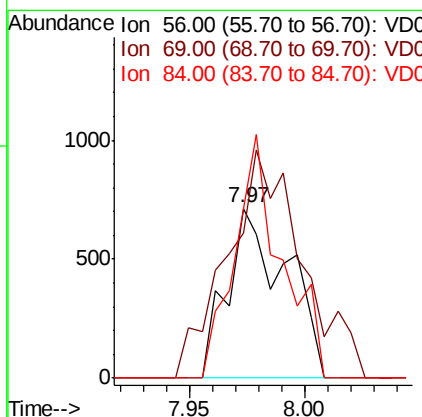
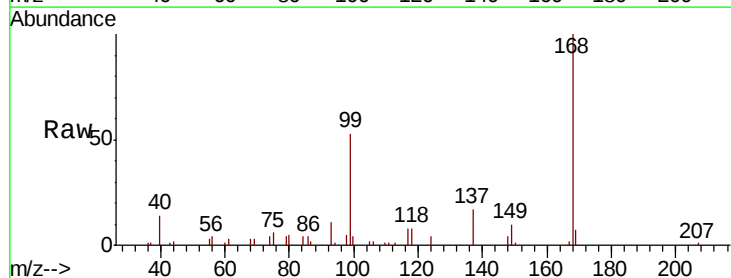
Instrument :
MSVOA_D
ClientSampleId :

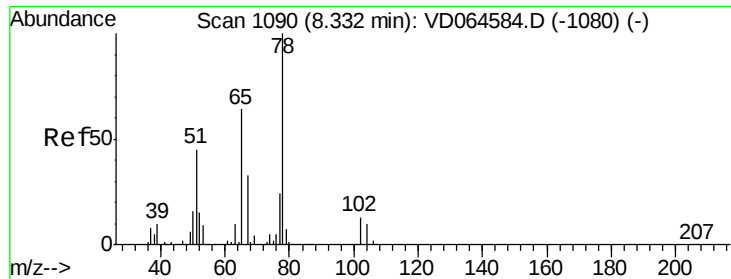
Tot Ion: 83 Resp: 1369
Ion Ratio Lower Upper
83 100
85 49.1 51.1 76.7#



#31
Cyclohexane
Concen: 1.491 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD064608.D
Acq: 26 Dec 2019 19:27

Tgt Ion: 56 Resp: 1275
Ion Ratio Lower Upper
56 100
69 56.3 24.7 37.1#
84 99.9 69.4 104.2





#33

1,2-Dichloroethane-d4

Concen: 69.167 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD064608.D

Acq: 26 Dec 2019 19:27

Instrument :

MSVOA_D

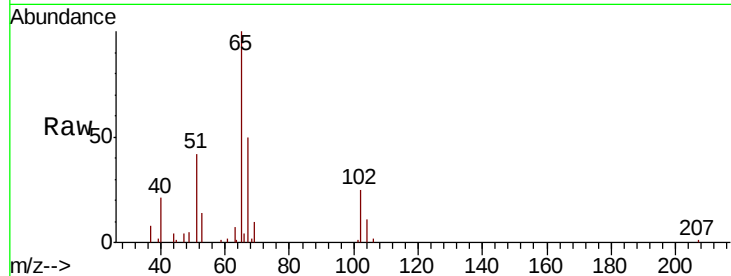
ClientSampleId :

Tot Ion: 65 Resp: 31723

Ion Ratio Lower Upper

65 100

67 51.7 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

15000

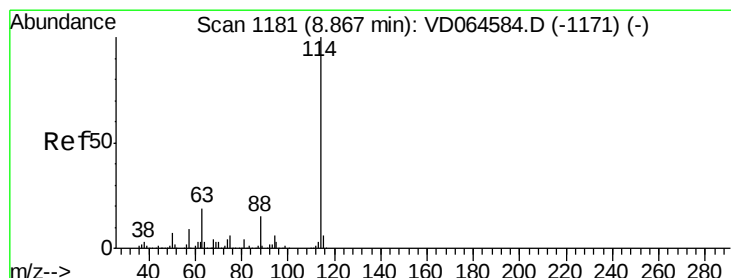
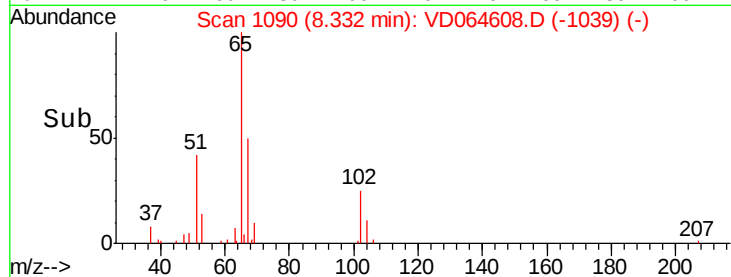
10000

5000

0

8.25 8.30 8.35 8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064608.D

Acq: 26 Dec 2019 19:27

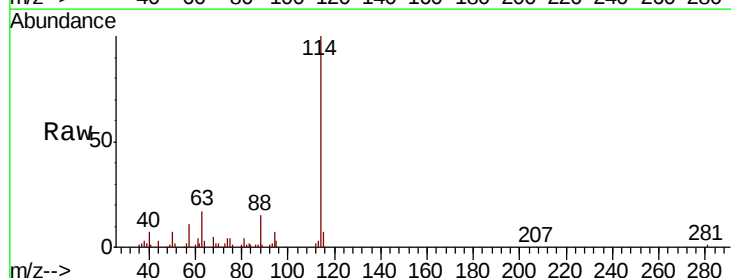
Tgt Ion: 114 Resp: 86049

Ion Ratio Lower Upper

114 100

63 17.0 0.0 38.0

88 15.0 0.0 29.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

60000

50000

40000

30000

20000

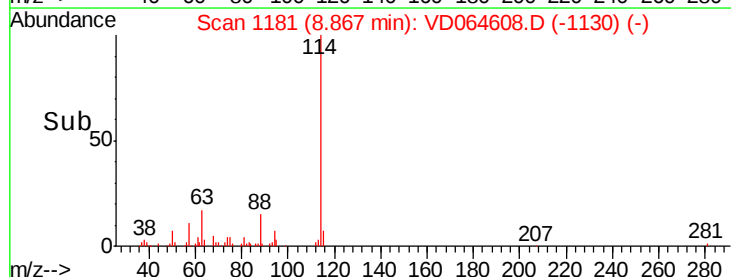
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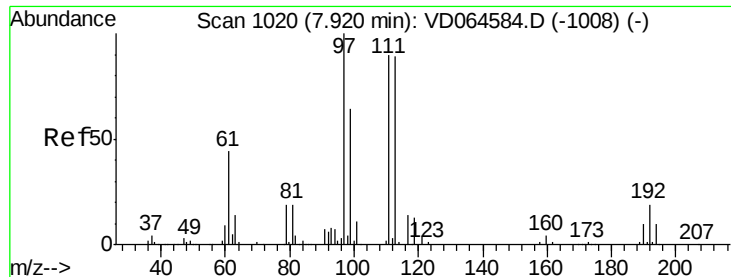
0

8.87

8.75 8.80 8.85 8.90 8.95

Time-->

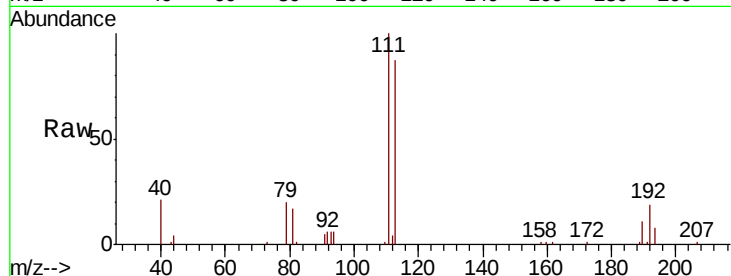




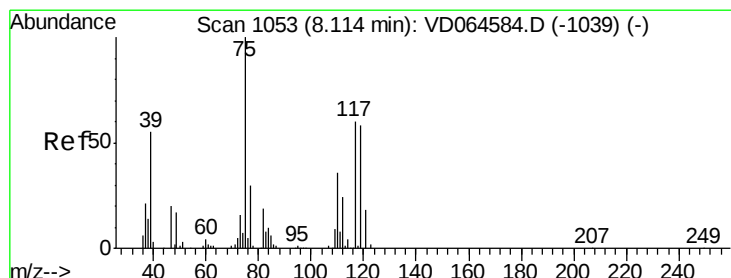
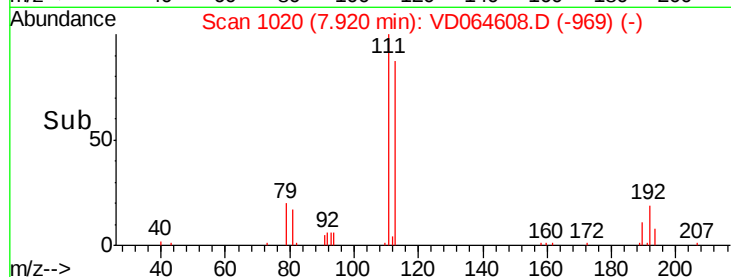
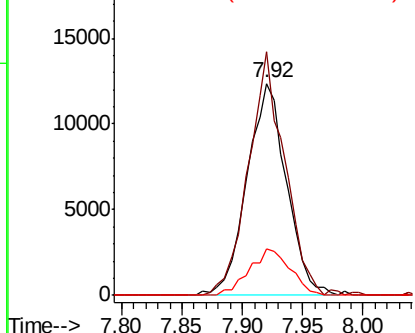
#35
 Dibromofluoromethane
 Concen: 53.174 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064608.D
 Acq: 26 Dec 2019 19:27

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:113 Resp: 28072
 Ion Ratio Lower Upper
 113 100
 111 105.6 80.6 121.0
 192 22.6 17.9 26.9

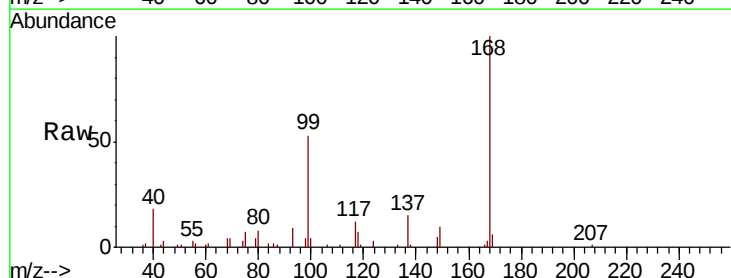


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

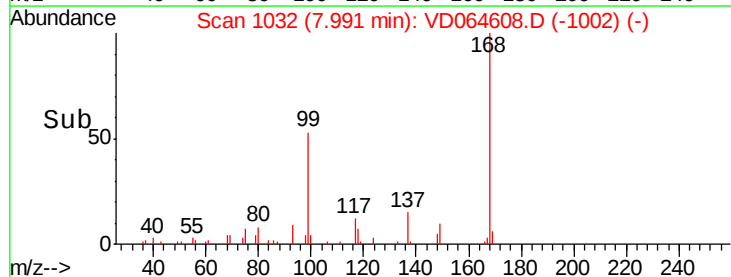
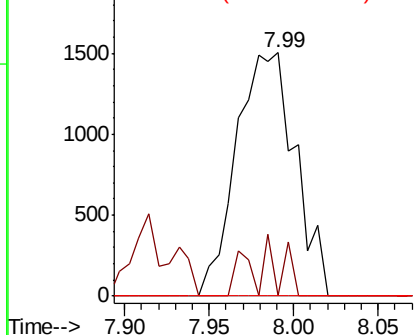


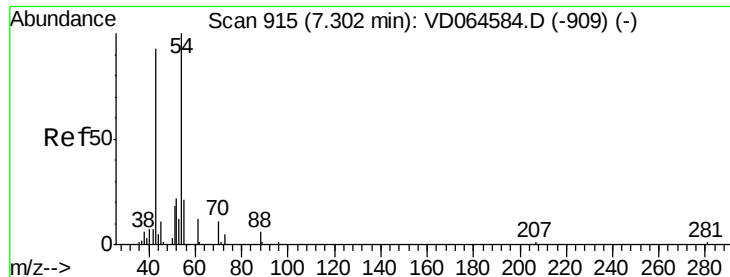
#36
 1,1-Dichloropropene
 Concen: 4.401 ug/l
 RT: 7.99 min Scan# 1032
 Delta R.T. -0.12 min
 Lab File: VD064608.D
 Acq: 26 Dec 2019 19:27

Tgt Ion: 75 Resp: 3645
 Ion Ratio Lower Upper
 75 100
 110 6.9 18.1 54.1#
 77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VDC
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VDC

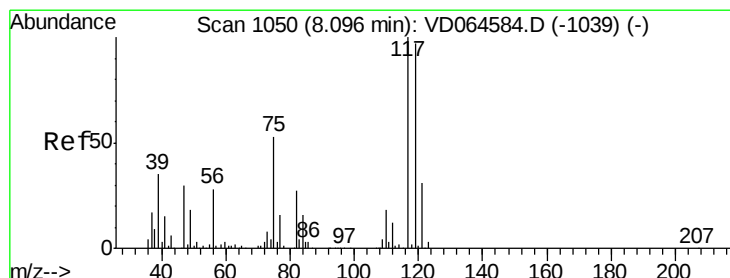
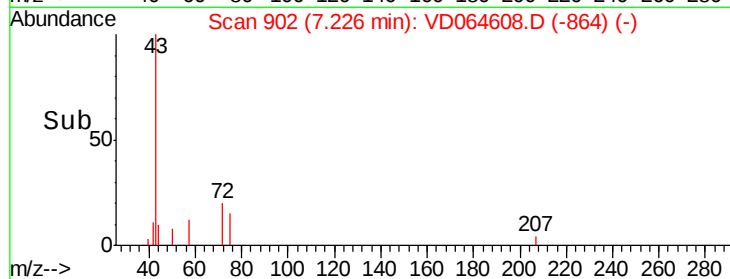
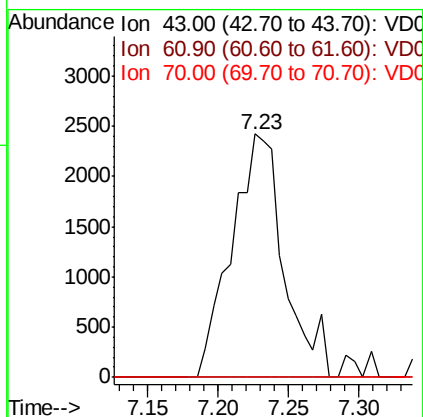
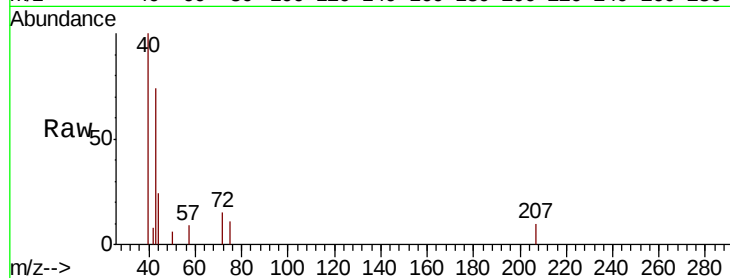




#37
Ethyl Acetate
Concen: 19.314 ug/l
RT: 7.23 min Scan# 902
Delta R.T. -0.08 min
Lab File: VD064608.D
Acq: 26 Dec 2019 19:27

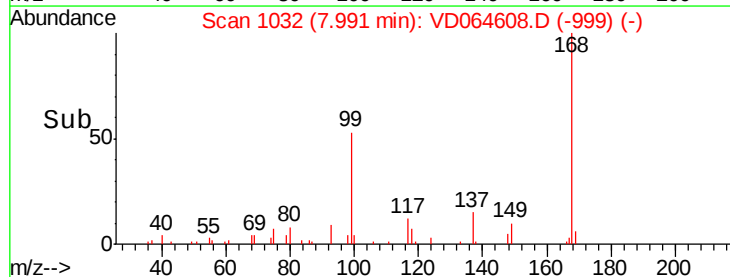
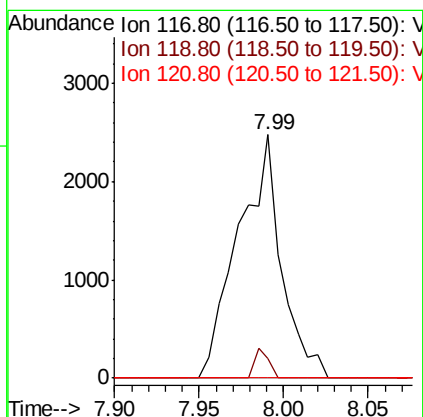
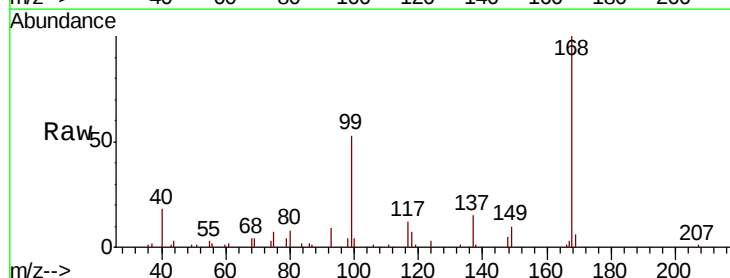
Instrument :
MSVOA_D
ClientSampleId :

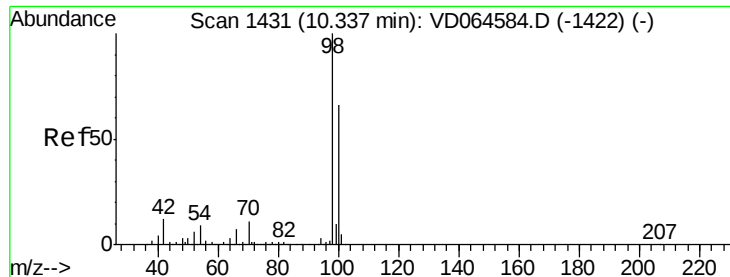
Tot Ion: 43 Resp: 6284
Ion Ratio Lower Upper
43 100
61 0.0 10.3 15.5#
70 0.0 7.6 11.4#



#38
Carbon Tetrachloride
Concen: 5.002 ug/l
RT: 7.99 min Scan# 1032
Delta R.T. -0.11 min
Lab File: VD064608.D
Acq: 26 Dec 2019 19:27

Tgt Ion: 117 Resp: 4417
Ion Ratio Lower Upper
117 100
119 8.3 77.3 115.9#
121 0.0 25.0 37.6#





#50

Toluene-d8

Concen: 46.472 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD064608.D

Acq: 26 Dec 2019 19:27

Instrument :

MSVOA_D

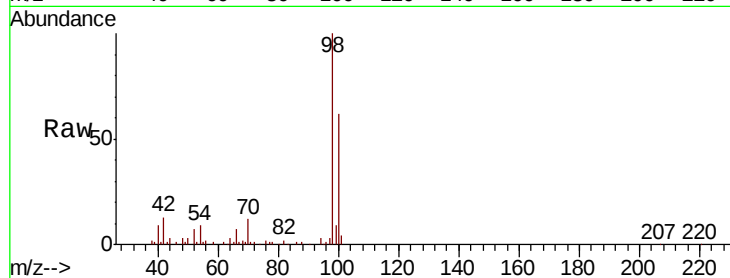
ClientSampleId :

Tot Ion: 98 Resp: 93962

Ion Ratio Lower Upper

98 100

100 66.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

10.34

60000

50000

40000

30000

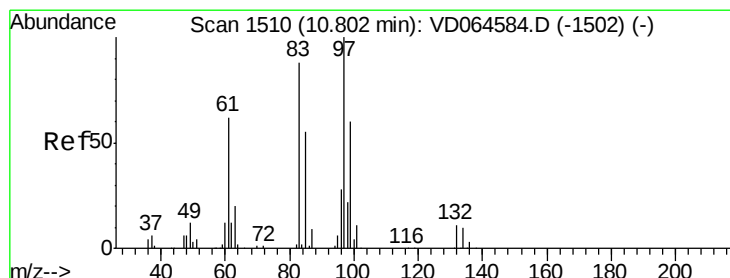
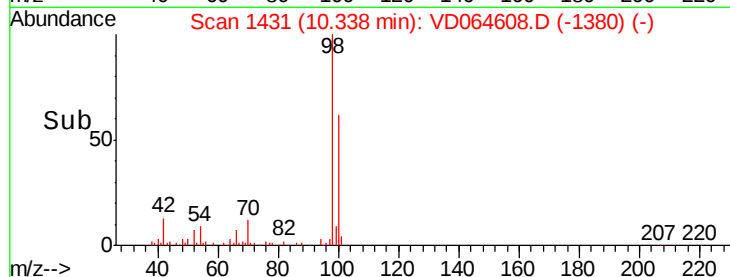
20000

10000

0

Time-->

10.30 10.40



#55

1,1,2-Trichloroethane

Concen: 1.819 ug/l

RT: 10.78 min Scan# 1506

Delta R.T. -0.02 min

Lab File: VD064608.D

Acq: 26 Dec 2019 19:27

Tgt Ion: 97 Resp: 738

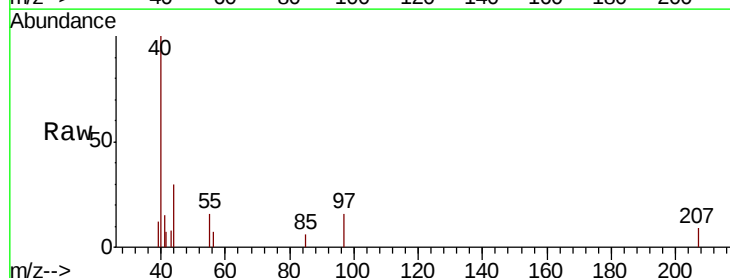
Ion Ratio Lower Upper

97 100

83 0.0 70.2 105.4#

85 34.8 44.0 66.0#

99 0.0 47.8 71.6#



Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC

600

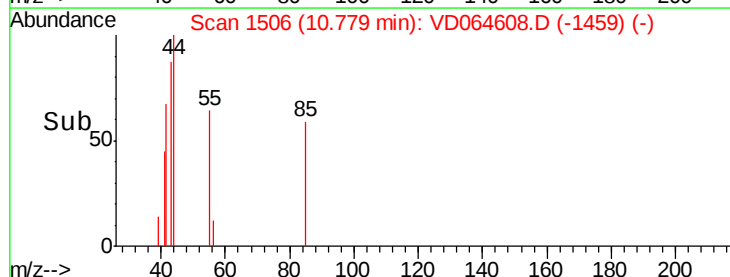
400

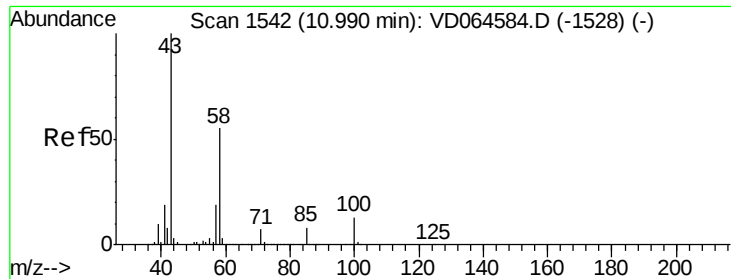
200

0

Time-->

10.75 10.80

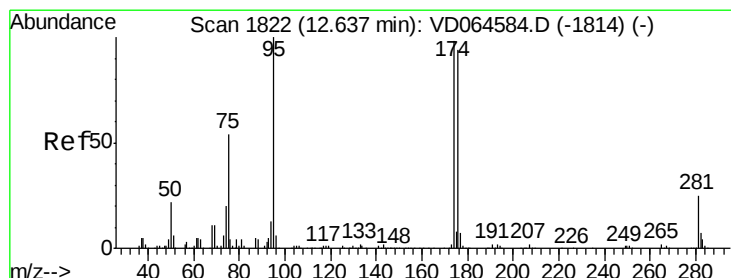
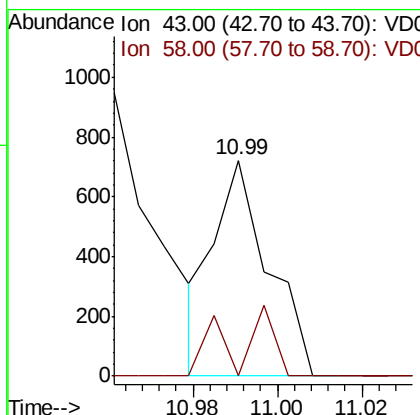
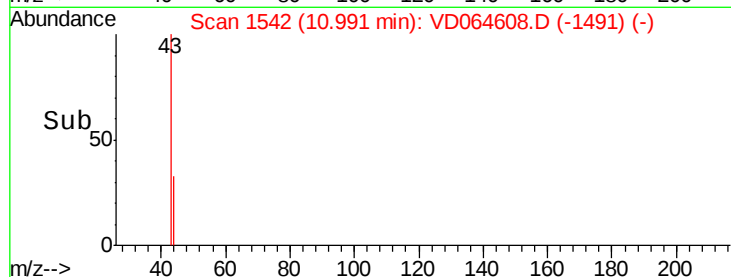
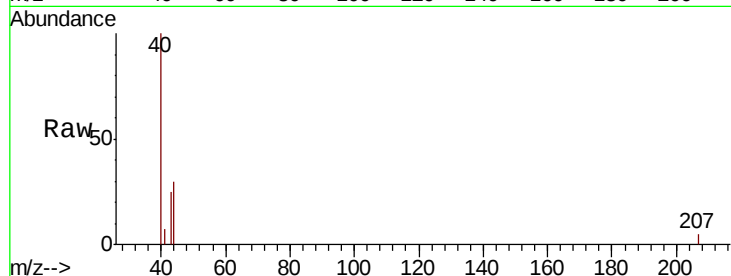




#59
2-Hexanone
Concen: 2.969 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.00 min
Lab File: VD064608.D
Acq: 26 Dec 2019 19:27

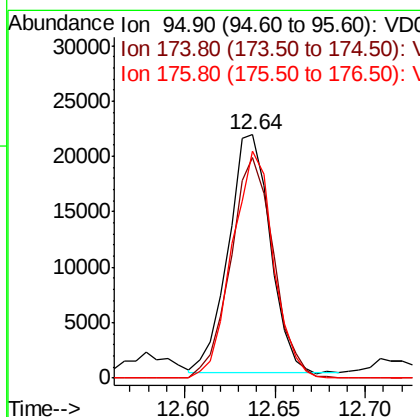
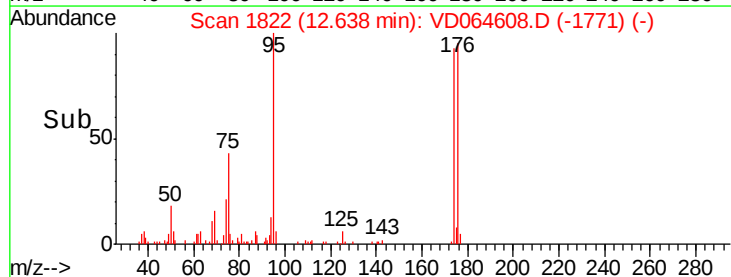
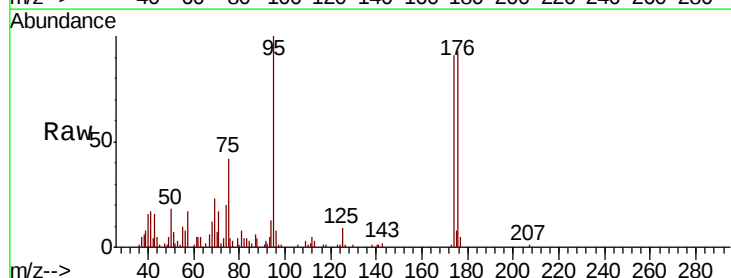
Instrument :
MSVOA_D
ClientSampleID :

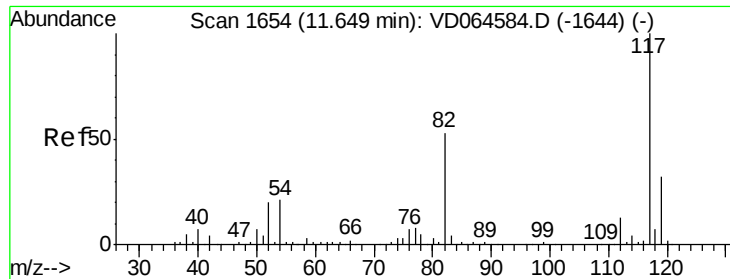
Tot Ion: 43 Resp: 645
Ion Ratio Lower Upper
43 100
58 11.2 26.4 79.0#



#62
4-Bromofluorobenzene
Concen: 53.649 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064608.D
Acq: 26 Dec 2019 19:27

Tgt Ion: 95 Resp: 34300
Ion Ratio Lower Upper
95 100
174 95.7 0.0 193.2
176 94.0 0.0 184.2

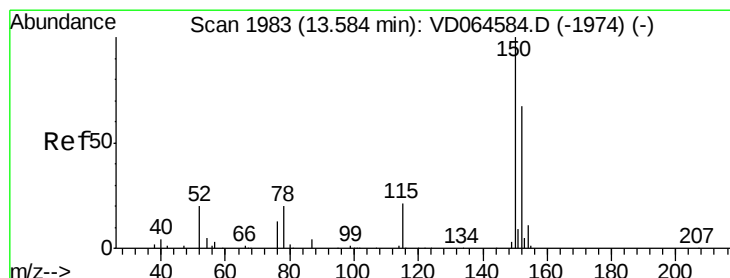
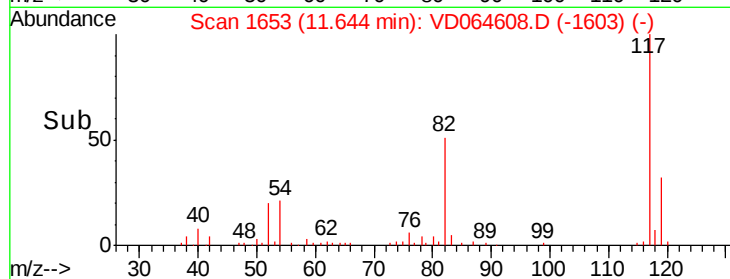
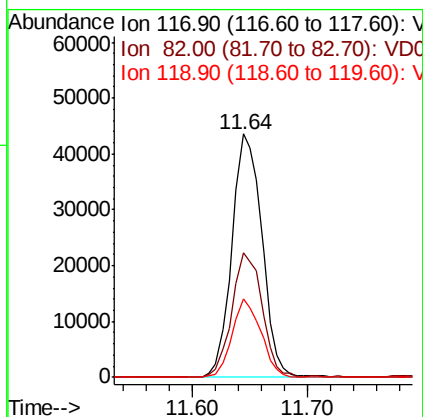
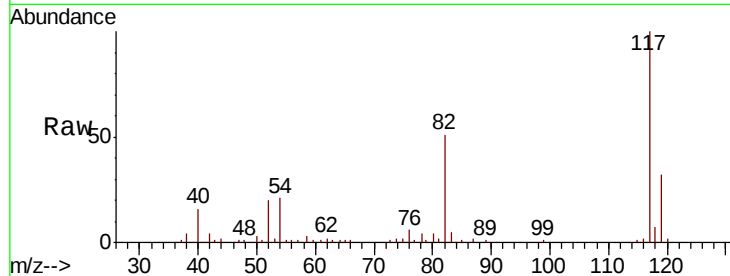




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.01 min
Lab File: VD064608.D
Acq: 26 Dec 2019 19:27

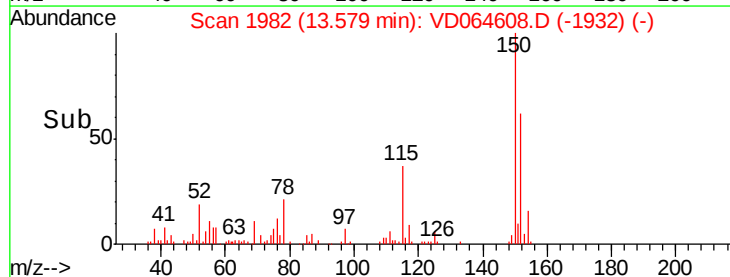
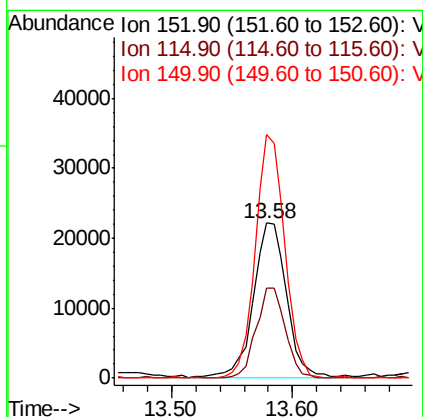
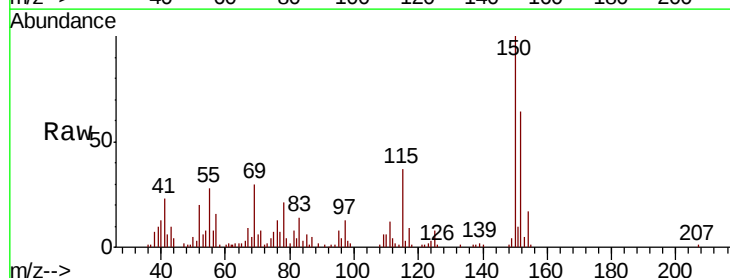
Instrument :
MSVOA_D
ClientSampled :

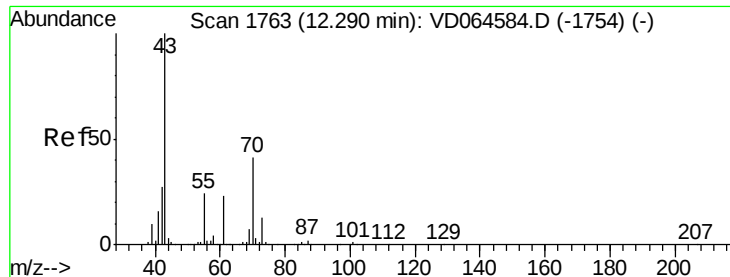
Tot Ion:117 Resp: 78378
Ion Ratio Lower Upper
117 100
82 51.1 42.2 63.4
119 32.3 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD064608.D
Acq: 26 Dec 2019 19:27

Tgt Ion:152 Resp: 42527
Ion Ratio Lower Upper
152 100
115 50.5 27.8 83.4
150 138.1 0.0 351.4





#74

N-amvl acetate

Concen: 19.896 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD064608.D

Acq: 26 Dec 2019 19:27

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 12925

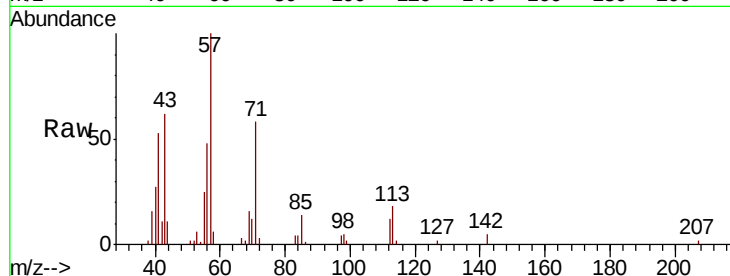
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 0.0 19.4 29.0#

61 0.0 18.3 27.5#

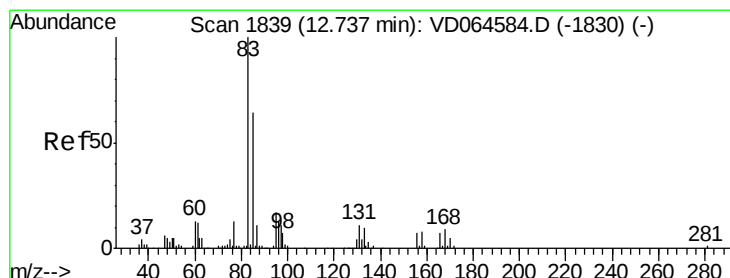
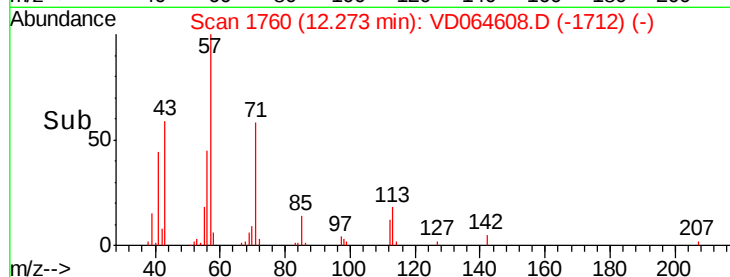
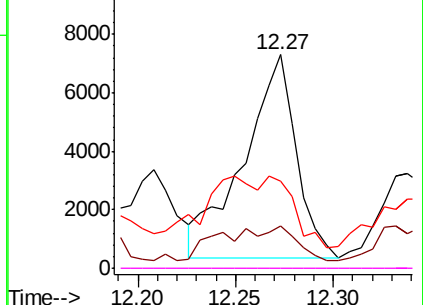


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC



#75

1,1,2,2-Tetrachloroethane

Concen: 1.458 ug/l

RT: 12.72 min Scan# 1836

Delta R.T. -0.02 min

Lab File: VD064608.D

Acq: 26 Dec 2019 19:27

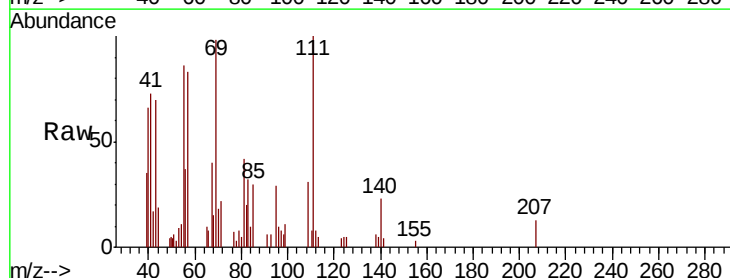
Tgt Ion: 83 Resp: 696

Ion Ratio Lower Upper

83 100

131 0.0 5.8 17.4#

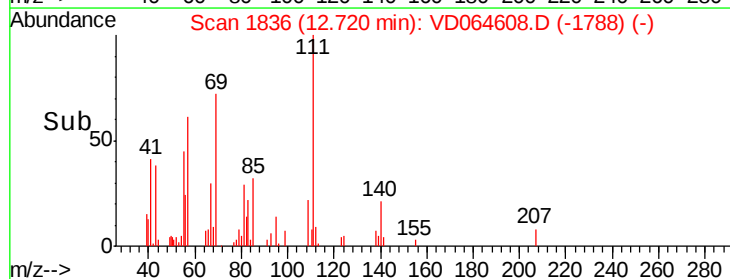
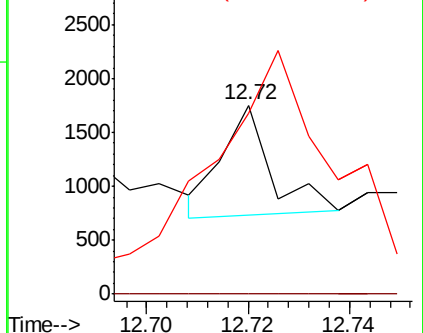
85 634.2 32.3 96.9#

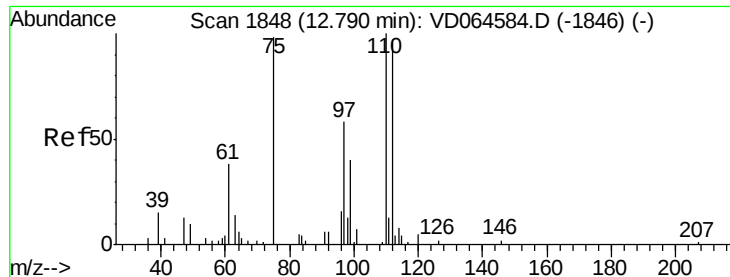


Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VDC





#76

1,2,3-Trichloropropane

Concen: 52.290 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064608.D

Acq: 26 Dec 2019 19:27

Instrument :

MSVOA_D

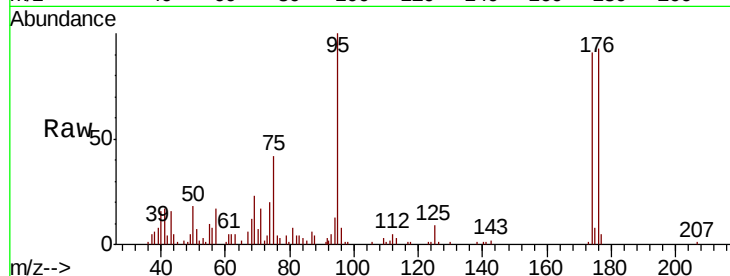
ClientSampleId :

Tot Ion: 75 Resp: 17560

Ion Ratio Lower Upper

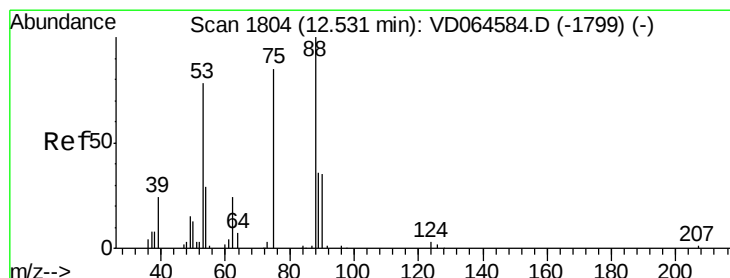
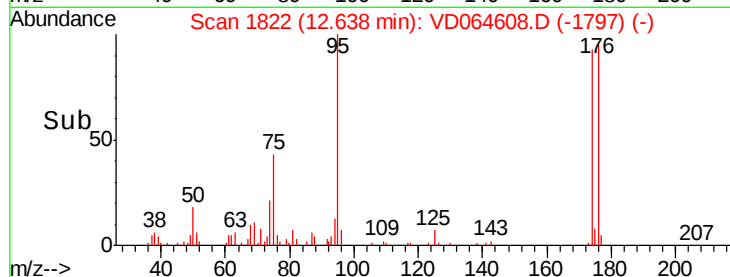
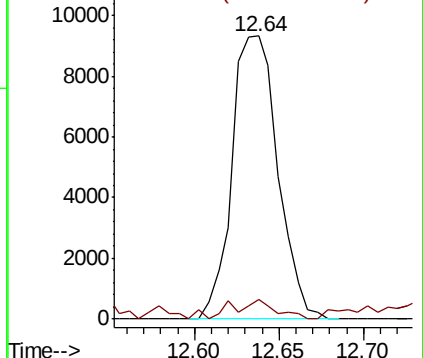
75 100

77 4.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 109.363 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064608.D

Acq: 26 Dec 2019 19:27

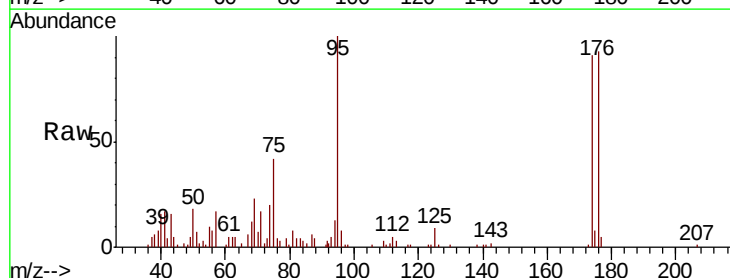
Tgt Ion: 75 Resp: 17560

Ion Ratio Lower Upper

75 100

53 5.5 78.8 118.2#

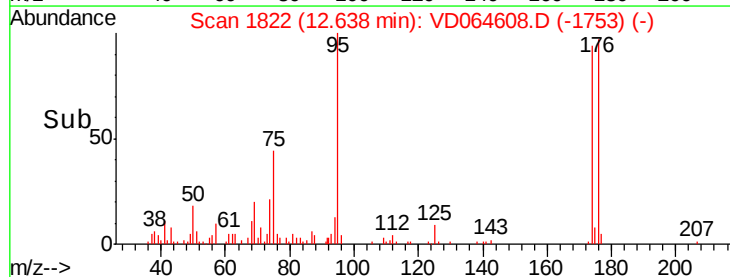
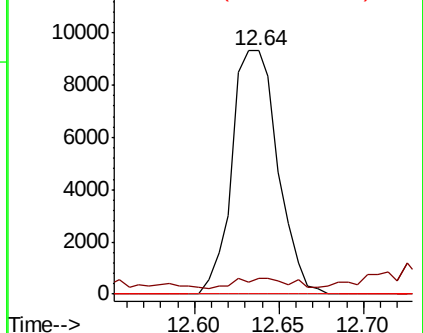
89 0.0 38.3 57.5#

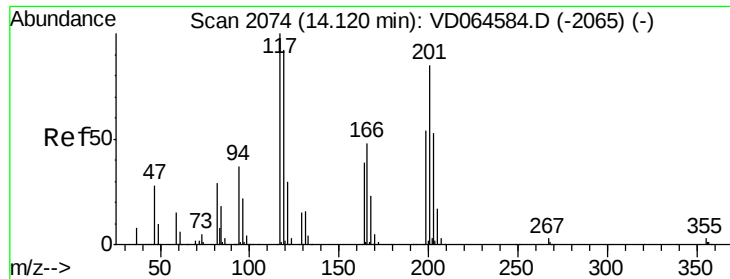


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#90

Hexachloroethane

Concen: 1.651 ug/l

RT: 14.13 min Scan# 2076

Delta R.T. 0.01 min

Lab File: VD064608.D

Acq: 26 Dec 2019 19:27

Instrument :

MSVOA_D

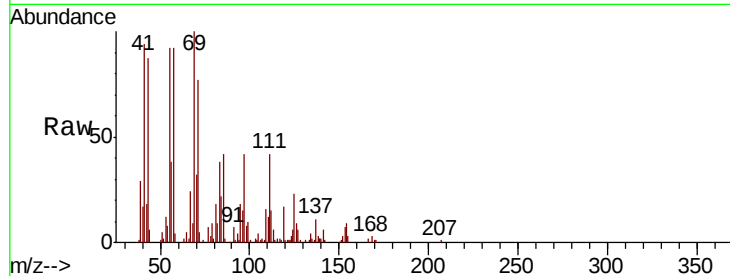
ClientSampleId :

Tot Ion:117 Resp: 896

Ion Ratio Lower Upper

117 100

201 0.0 44.0 131.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

14.13

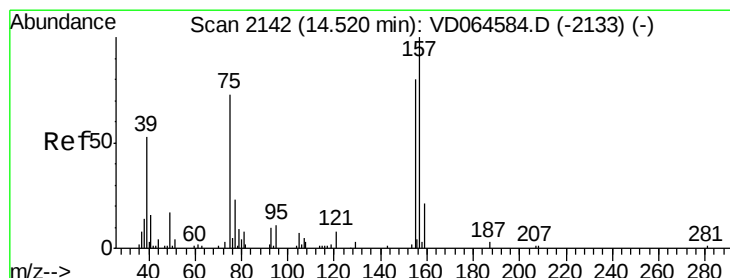
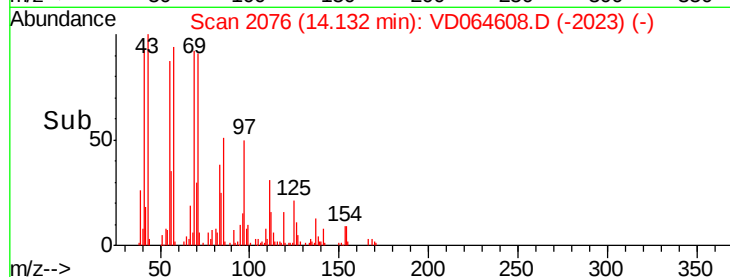
600

400

200

0

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.171 ug/l

RT: 14.53 min Scan# 2144

Delta R.T. 0.01 min

Lab File: VD064608.D

Acq: 26 Dec 2019 19:27

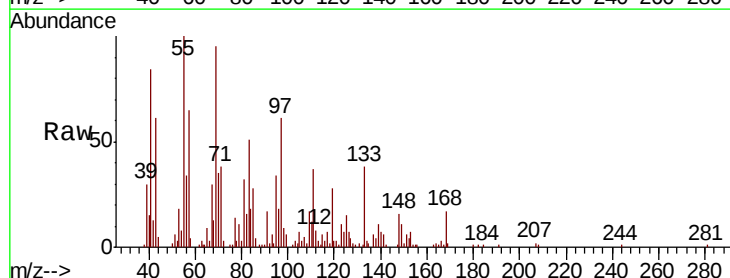
Tgt Ion: 75 Resp: 168

Ion Ratio Lower Upper

75 100

155 0.0 48.0 144.0#

157 0.0 64.1 192.3#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

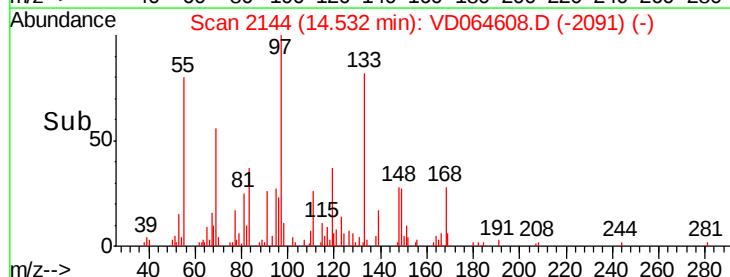
Ion 156.80 (156.50 to 157.50): V

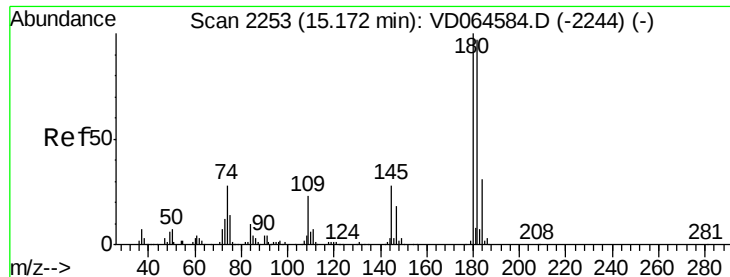
1000

500

0

Time-->

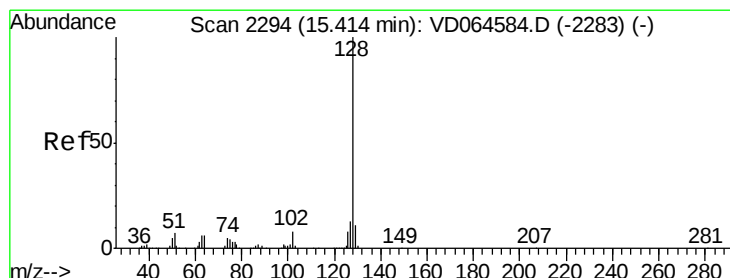
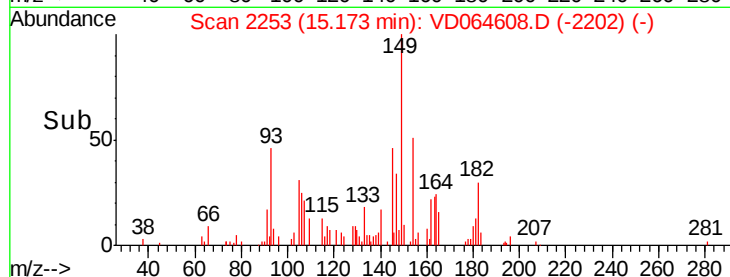
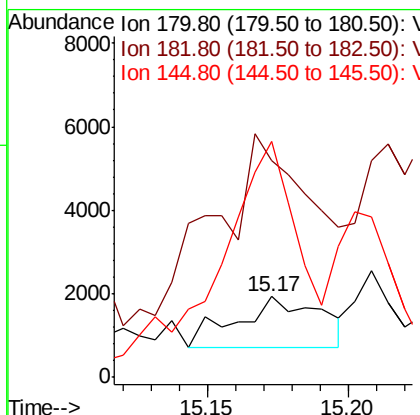
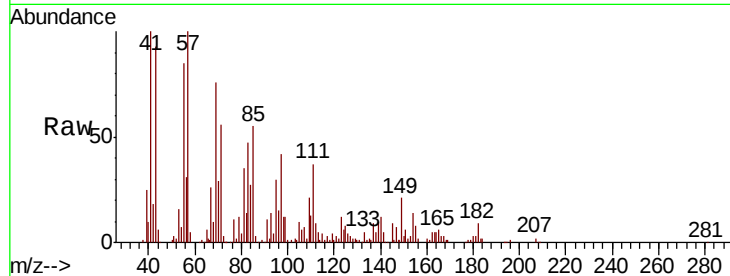




#93
 1,2,4-Trichlorobenzene
 Concen: 2.840 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VD064608.D
 Acq: 26 Dec 2019 19:27

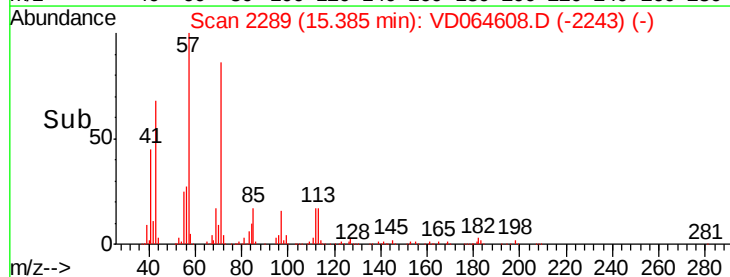
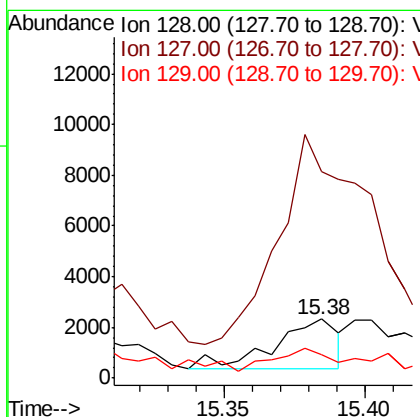
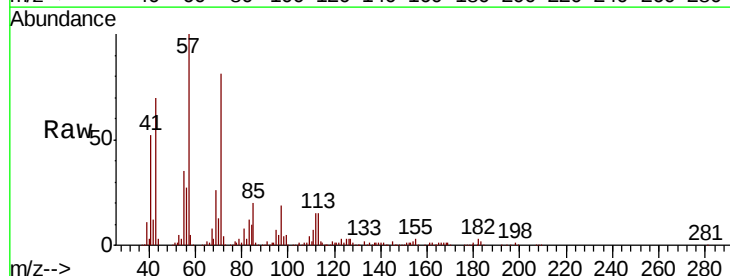
Instrument :
 MSVOA_D
 ClientSampleId :

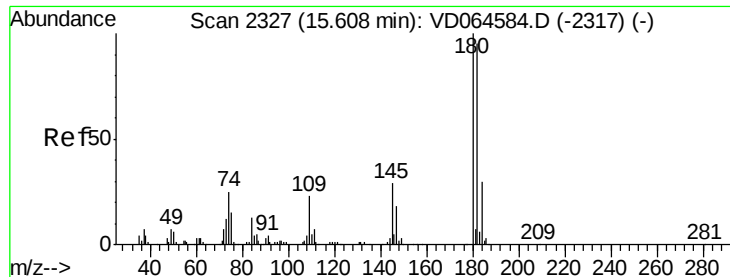
Tot Ion:180 Resp: 2538
 Ion Ratio Lower Upper
 180 100
 182 396.0 48.0 144.2#
 145 446.0 13.8 41.4#



#95
 Naphthalene
 Concen: 2.200 ug/l
 RT: 15.38 min Scan# 2289
 Delta R.T. -0.03 min
 Lab File: VD064608.D
 Acq: 26 Dec 2019 19:27

Tgt Ion:128 Resp: 3111
 Ion Ratio Lower Upper
 128 100
 127 595.9 10.3 15.5#
 129 39.4 8.5 12.7#

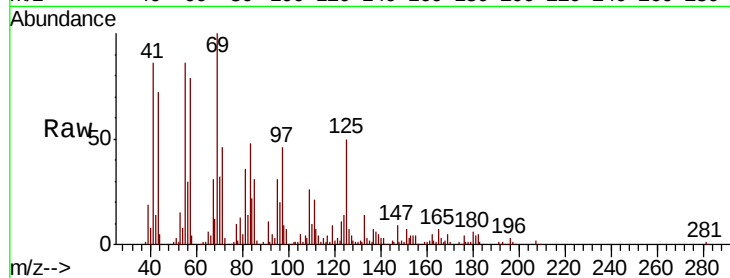




#96
 1,2,3-Trichlorobenzene
 Concen: 6.102 ug/l
 RT: 15.63 min Scan# 2330
 Delta R.T. 0.02 min
 Lab File: VD064608.D
 Acq: 26 Dec 2019 19:27

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.9	143.7#
145	0.0	14.9	44.7#



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

