

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072219\
 Data File : VD063180.D
 Acq On : 22 Jul 2019 16:42
 Operator : VA/AP
 Sample : K3916-02
 Misc : 6.16g/5ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 GIS-BUILDING-2

Quant Time: Jul 23 07:50:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	939409	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.23	114	1281109	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.37	117	1062045	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	509550	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.47	65	702173	60.00	ug/l	0.03
Spiked Amount	50.000		Recovery	=	120.00%	
35) Dibromofluoromethane	6.94	113	773639	60.63	ug/l	0.03
Spiked Amount	50.000		Recovery	=	121.26%	
50) Toluene-d8	10.43	98	1700575	62.04	ug/l	0.03
Spiked Amount	50.000		Recovery	=	124.08%	
62) 4-Bromofluorobenzene	13.57	95	727387	57.36	ug/l	0.02
Spiked Amount	50.000		Recovery	=	114.72%	

Target Compounds

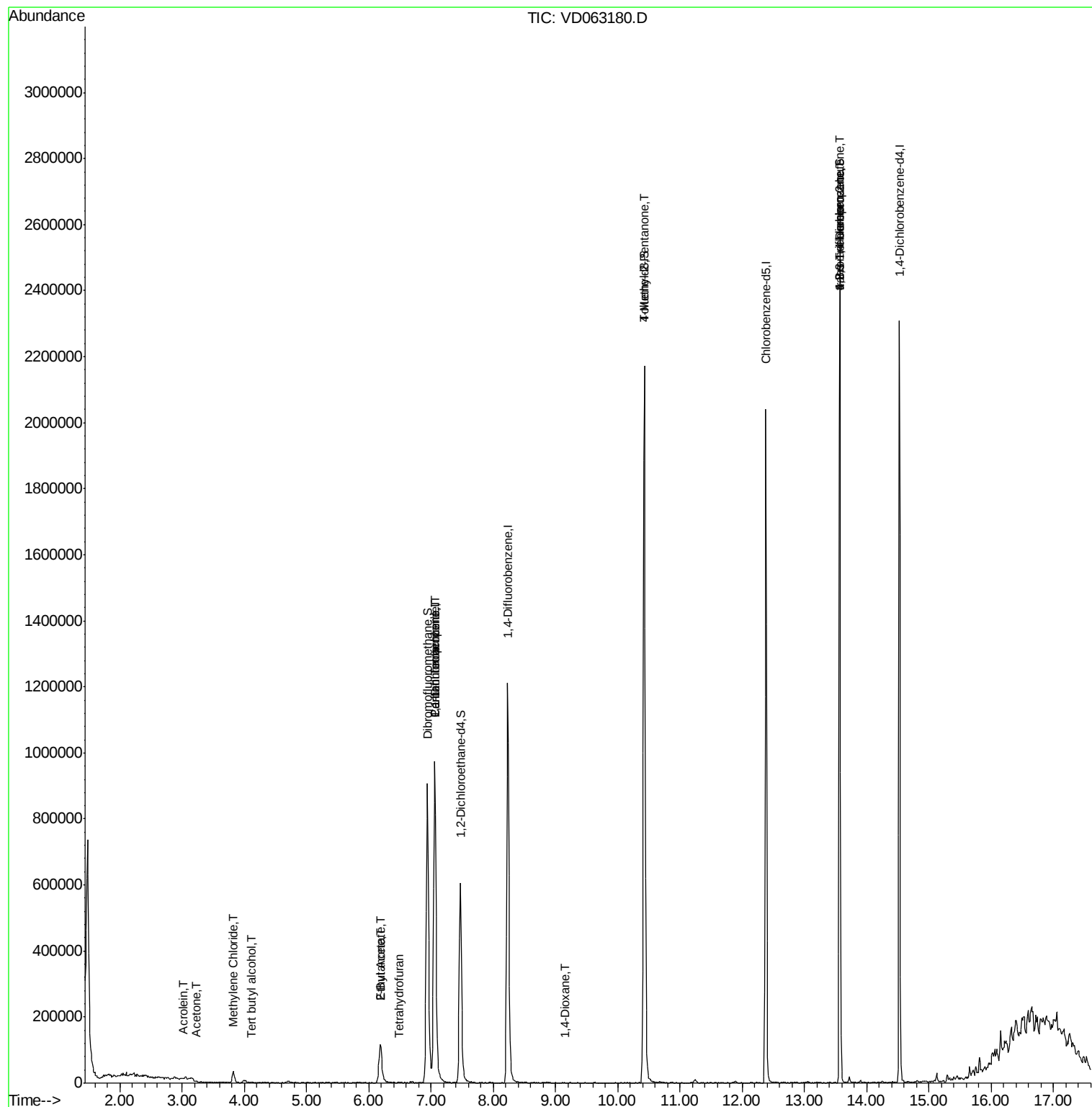
						Qvalue
2) Dichlorodifluoromethane	1.58	85	747	Below Cal	#	43
3) Chloromethane	1.76	50	808	Below Cal	#	48
5) Bromomethane	2.15	94	1691	Below Cal	#	13
11) Tert butyl alcohol	4.10	59	2135	3.161	ug/l #	77
13) Acrolein	3.02	56	447	2.193	ug/l	93
16) Acetone	3.23	43	5179	1.832	ug/l	98
18) Methyl Acetate	3.65	43	1843	Below Cal	#	63
20) Methylene Chloride	3.82	84	19553	1.831	ug/l #	82
25) 2-Butanone	6.18	43	9927	3.678	ug/l #	61
29) Tetrahydrofuran	6.50	42	1322	1.081	ug/l #	33
36) 1,1-Dichloropropene	7.06	75	70422	4.888	ug/l #	47
37) Ethyl Acetate	6.18	43	10127	1.642	ug/l #	4
38) Carbon Tetrachloride	7.06	117	97121	4.436	ug/l #	13
49) 1,4-Dioxane	9.16	88	249	4.974	ug/l #	27
51) 4-Methyl-2-Pentanone	10.43	43	11268	1.922	ug/l #	1
76) 1,2,3-Trichloropropane	13.57	75	301916	38.518	ug/l #	44
81) trans-1,4-Dichloro-2-buten	13.57	75	330746	160.235	ug/l #	1

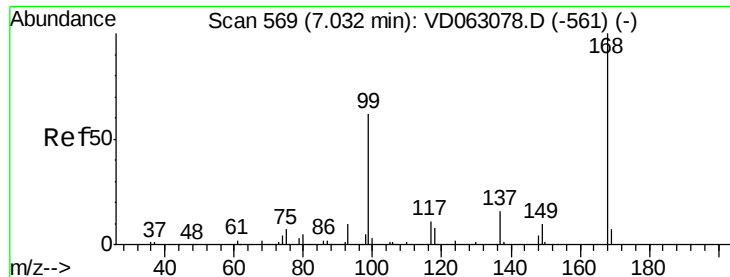
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD072219\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.03 min

Lab File: VD063180.D

Acq: 22 Jul 2019 16:42

Instrument :

MSVOA_D

ClientSampleId :

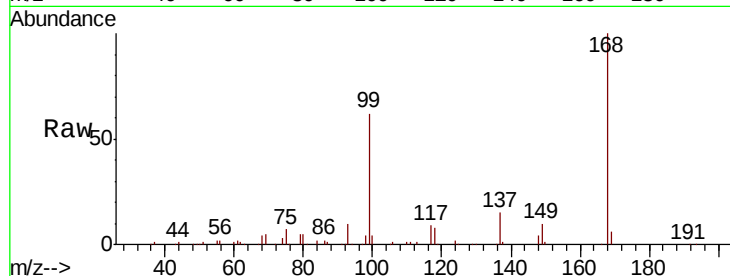
GIS-BUILDING-2

Tot Ion:168 Resp: 939409

Ion Ratio Lower Upper

168 100

99 62.1 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

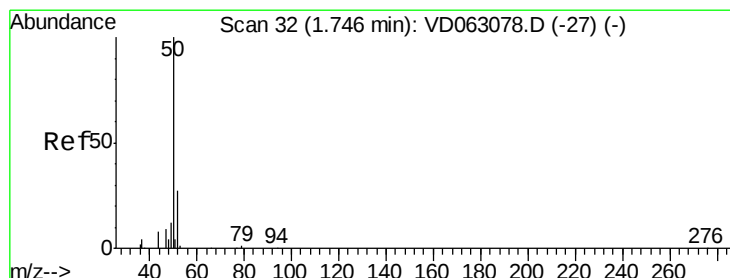
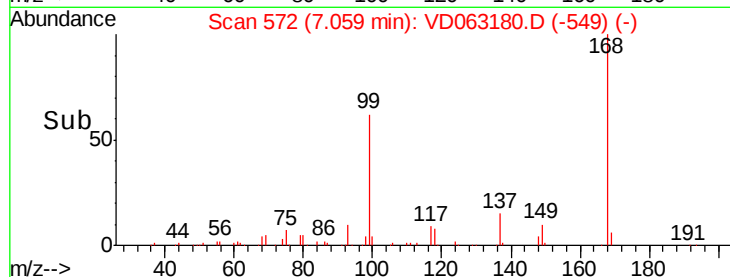
300000

200000

100000

0

Time--> 6.90 7.00 7.10 7.20



#3

Chloromethane

Concen: Below Cal

RT: 1.76 min Scan# 34

Delta R.T. 0.02 min

Lab File: VD063180.D

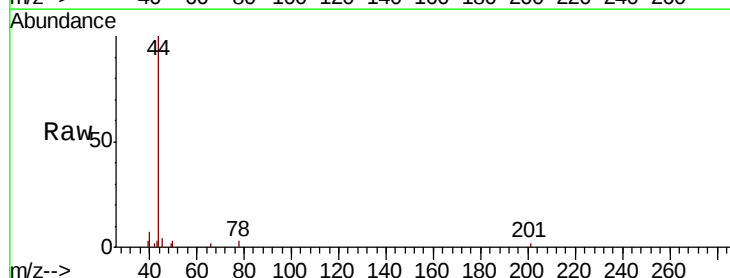
Acq: 22 Jul 2019 16:42

Tgt Ion: 50 Resp: 808

Ion Ratio Lower Upper

50 100

52 0.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.76

600

500

400

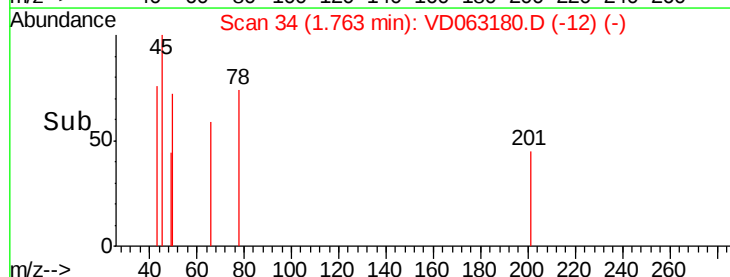
300

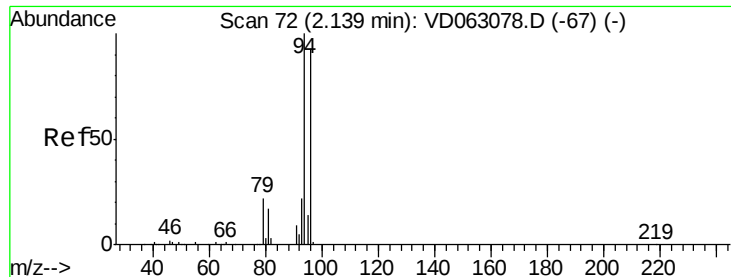
200

100

0

Time--> 1.70 1.75 1.80





#5

Bromomethane

Concen: Below Cal

RT: 2.15 min Scan# 73

Delta R.T. 0.01 min

Lab File: VD063180.D

Acq: 22 Jul 2019 16:42

Instrument :

MSVOA_D

ClientSampleId :

GIS-BUILDING-2

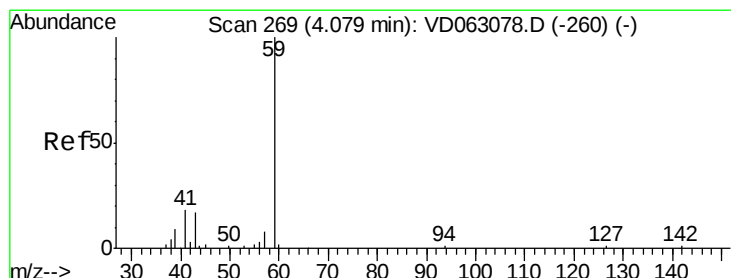
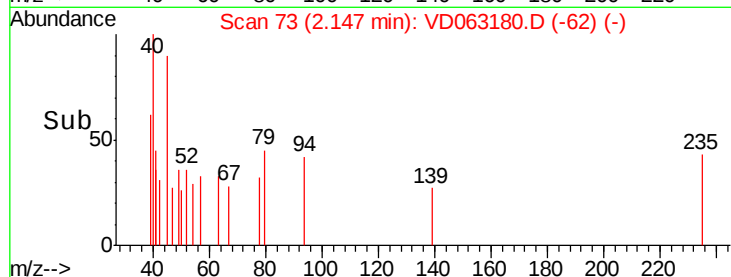
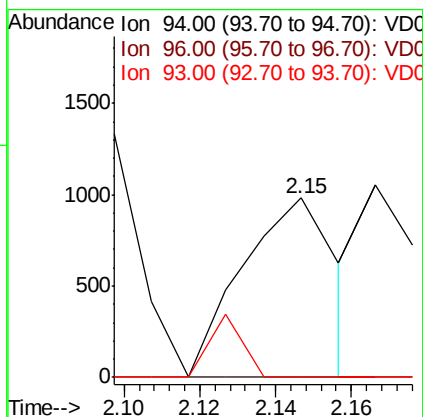
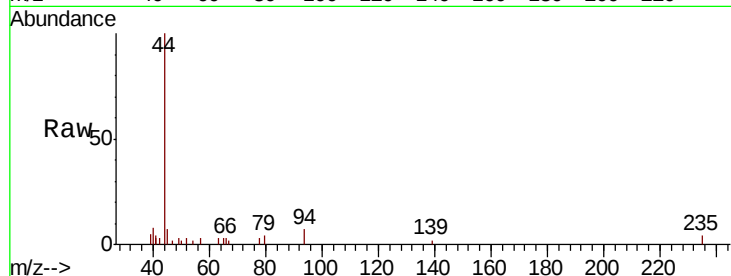
Tot Ion: 94 Resp: 1691

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#

93 0.0 17.8 26.6#



#11

Tert butyl alcohol

Concen: 3.161 ug/l

RT: 4.10 min Scan# 271

Delta R.T. 0.02 min

Lab File: VD063180.D

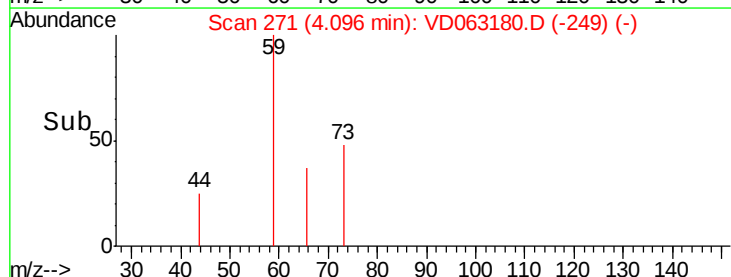
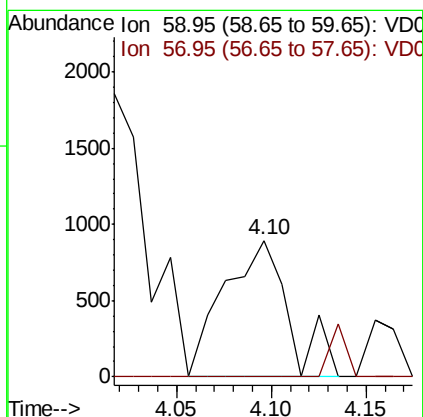
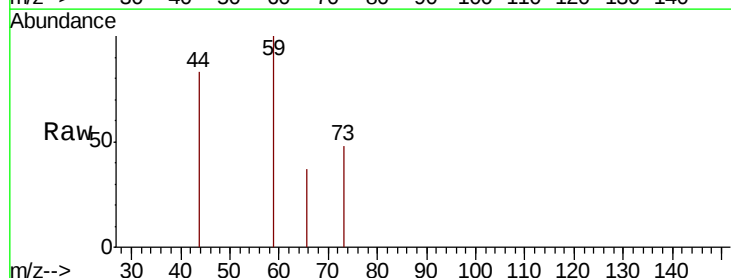
Acq: 22 Jul 2019 16:42

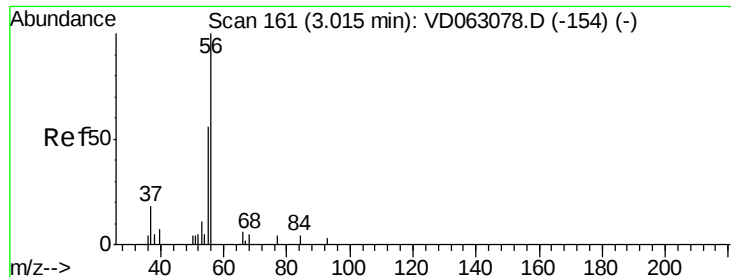
Tgt Ion: 59 Resp: 2135

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#





#13

Acrolein

Concen: 2.193 ug/l

RT: 3.02 min Scan# 162

Delta R.T. 0.01 min

Lab File: VD063180.D

Acq: 22 Jul 2019 16:42

Instrument :

MSVOA_D

ClientSampleId :

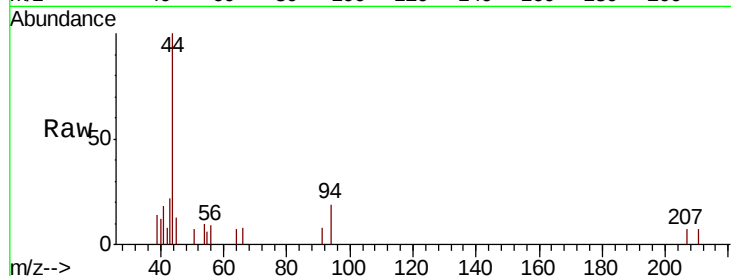
GIS-BUILDING-2

Tot Ion: 56 Resp: 447

Ion Ratio Lower Upper

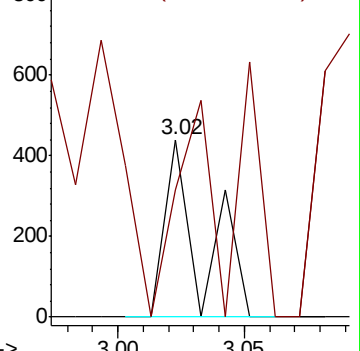
56 100

55 72.0 53.0 79.4

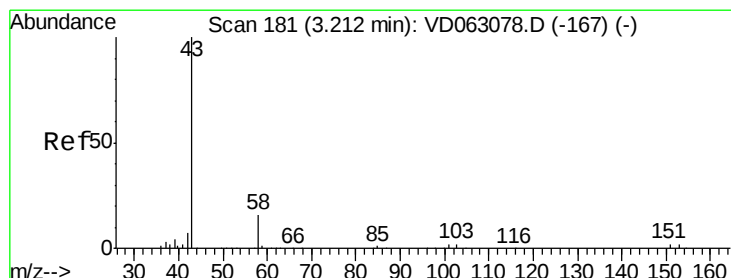
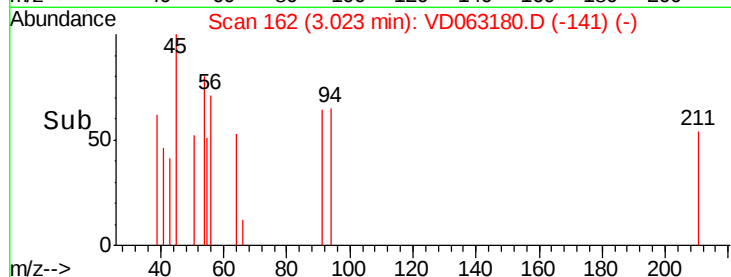


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



Time-->



#16

Acetone

Concen: 1.832 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.02 min

Lab File: VD063180.D

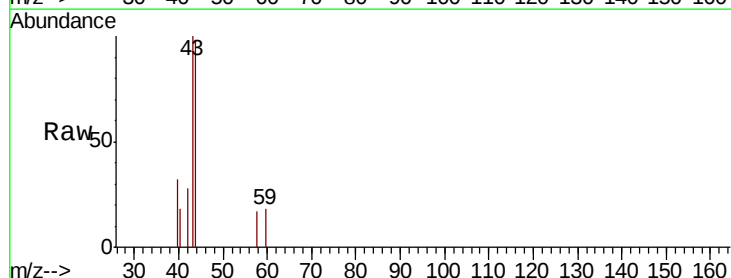
Acq: 22 Jul 2019 16:42

Tgt Ion: 43 Resp: 5179

Ion Ratio Lower Upper

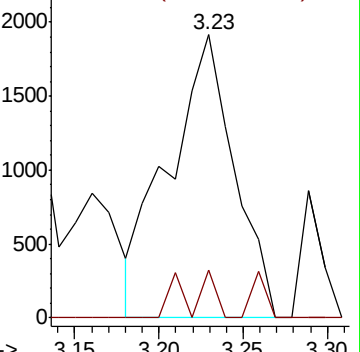
43 100

58 17.0 13.0 19.4

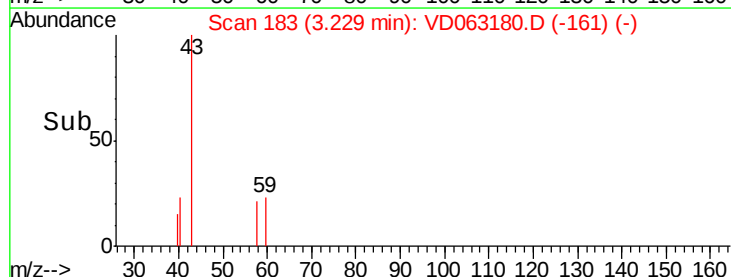


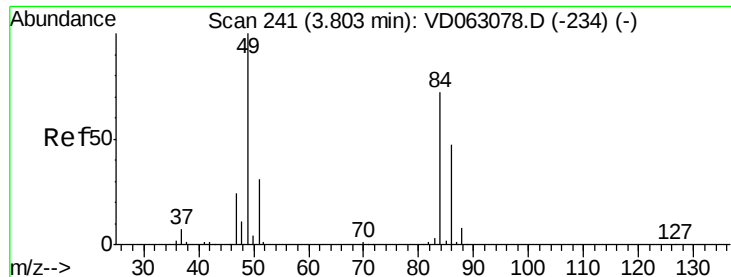
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



Time-->

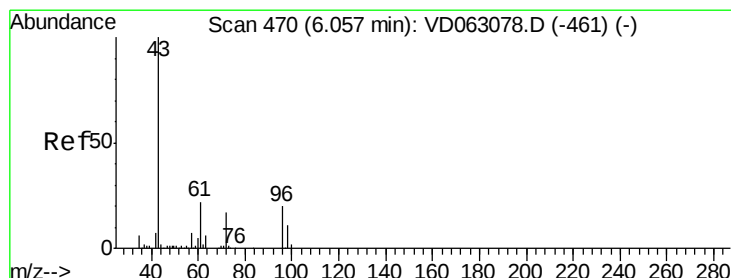
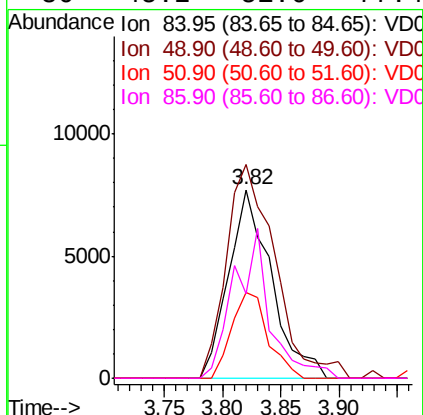
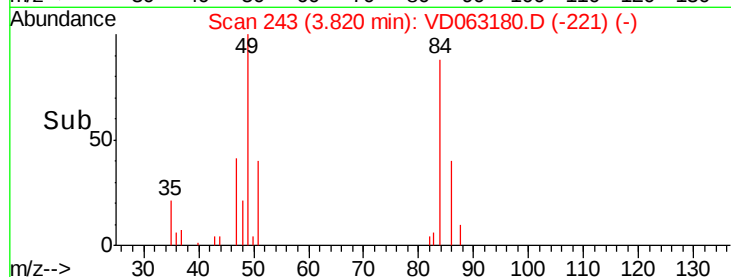
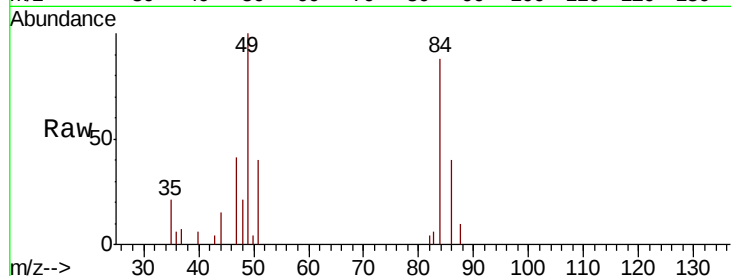




#20
Methvlene Chloride
Concen: 1.831 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.02 min
Lab File: VD063180.D
Acq: 22 Jul 2019 16:42

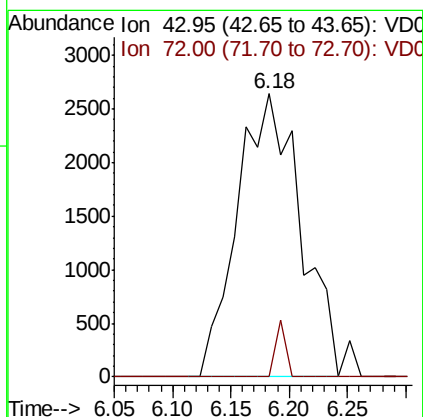
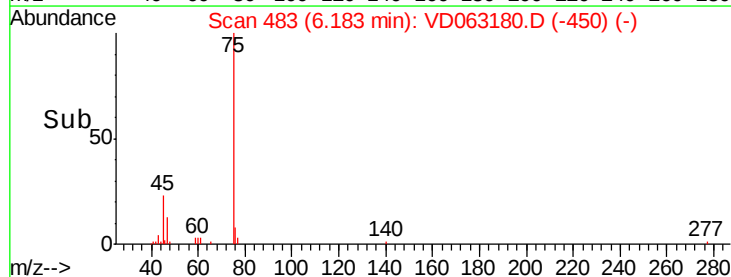
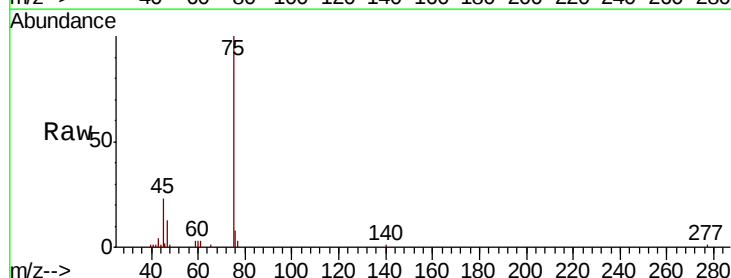
Instrument :
MSVOA_D
ClientSampleId :
GIS-BUILDING-2

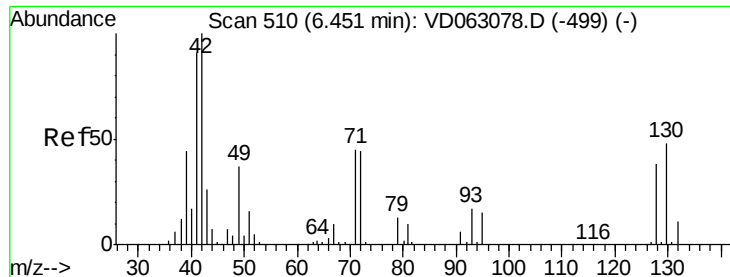
Tot Ion: 84 Resp: 19553
Ion Ratio Lower Upper
84 100
49 113.5 110.5 165.7
51 45.3 34.6 51.8
86 45.2 51.6 77.4#



#25
2-Butanone
Concen: 3.678 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.13 min
Lab File: VD063180.D
Acq: 22 Jul 2019 16:42

Tgt Ion: 43 Resp: 9927
Ion Ratio Lower Upper
43 100
72 0.0 13.4 20.0#





#29

Tetrahydrofuran

Concen: 1.081 ug/l

RT: 6.50 min Scan# 515

Delta R.T. 0.05 min

Lab File: VD063180.D

Acq: 22 Jul 2019 16:42

Instrument :

MSVOA_D

ClientSampleID :

GIS-BUILDING-2

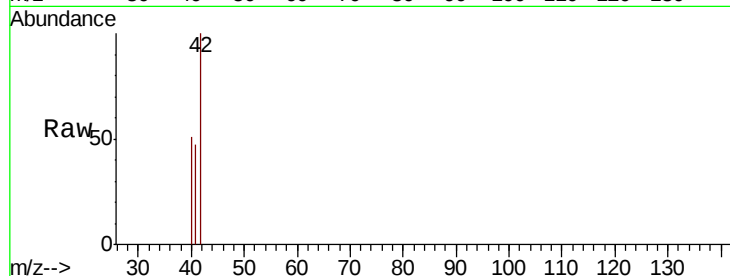
Tot Ion: 42 Resp: 1322

Ion Ratio Lower Upper

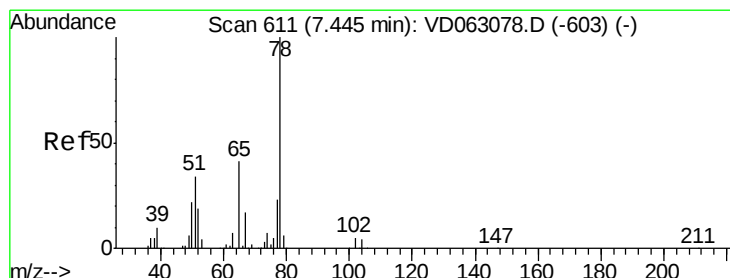
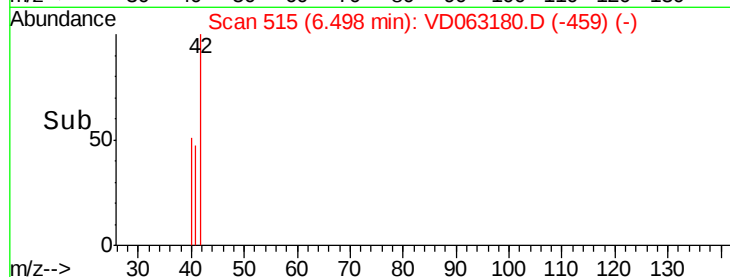
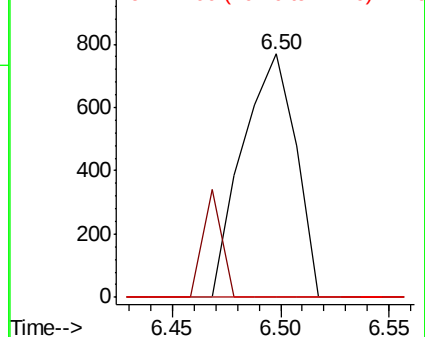
42 100

72 0.0 33.7 50.5#

71 0.0 34.2 51.2#



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 60.004 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.03 min

Lab File: VD063180.D

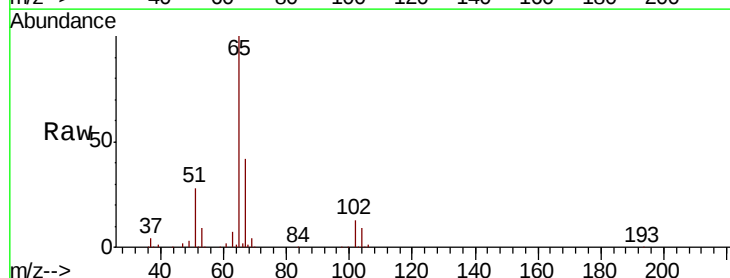
Acq: 22 Jul 2019 16:42

Tgt Ion: 65 Resp: 702173

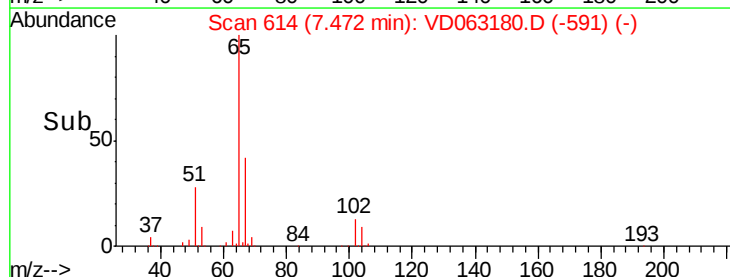
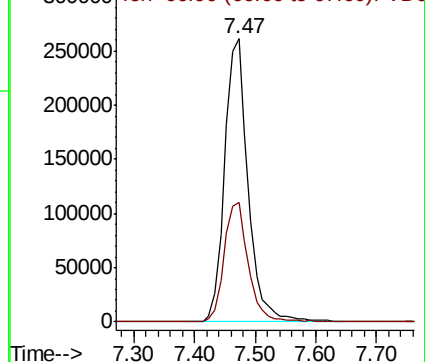
Ion Ratio Lower Upper

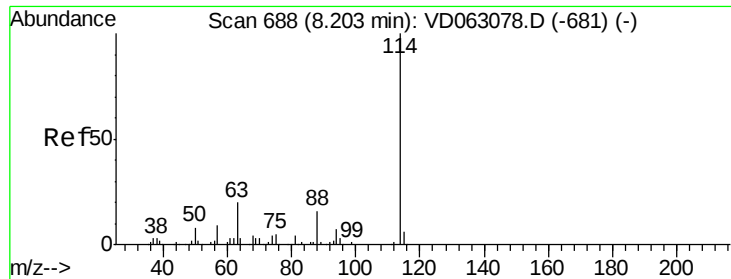
65 100

67 42.1 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

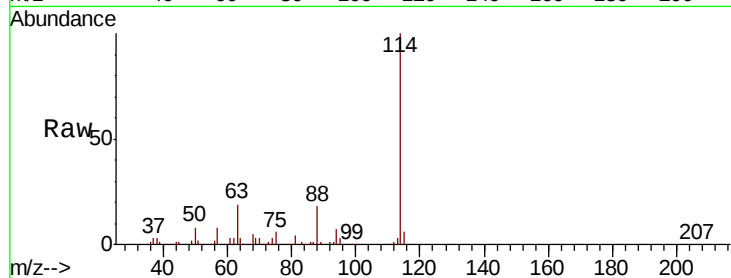




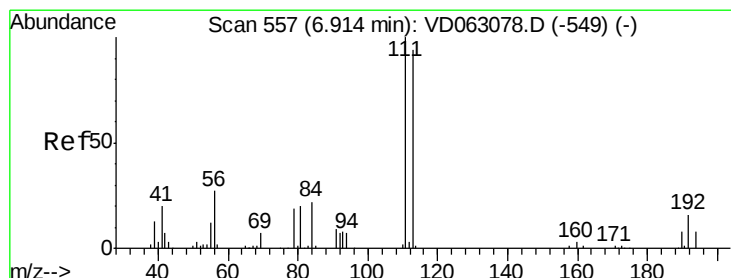
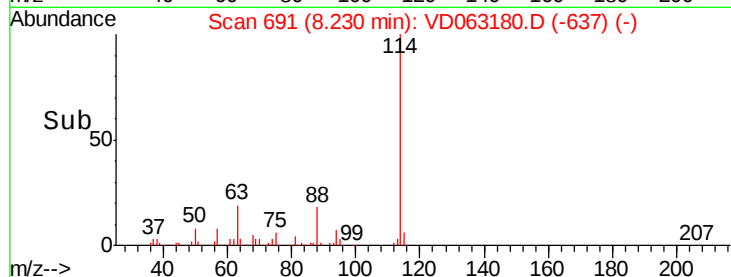
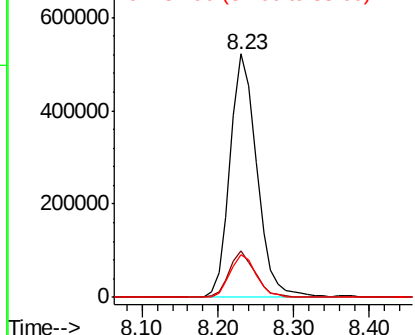
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.03 min
 Lab File: VD063180.D
 Acq: 22 Jul 2019 16:42

Instrument :
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 ClientSampleId :
 GIS-BUILDING-2

Tot Ion:114 Resp: 1281109
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 40.6
 88 17.5 0.0 32.6

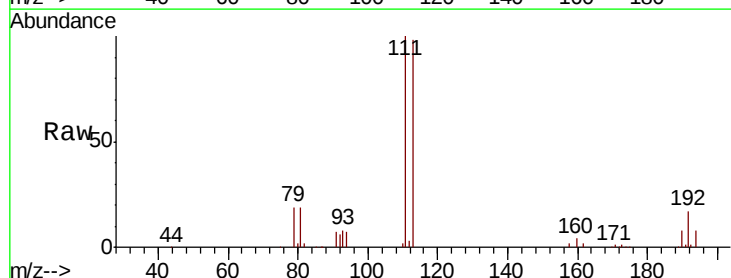


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

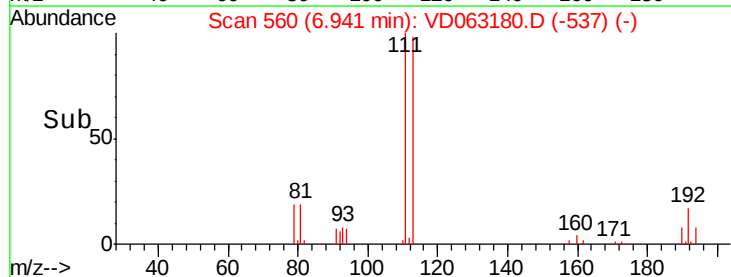
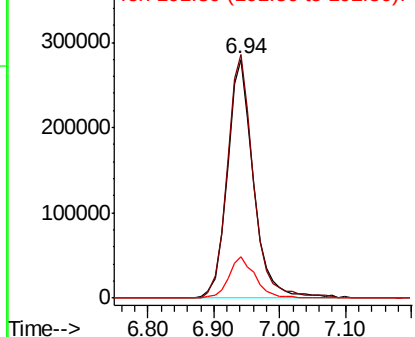


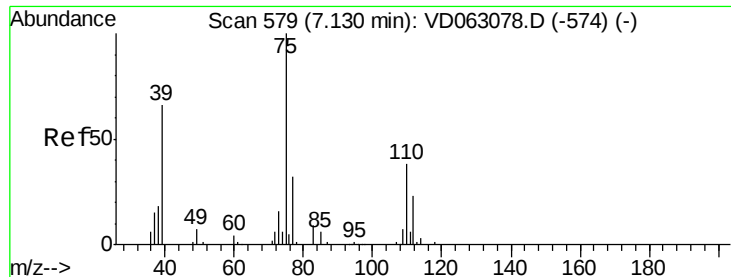
#35
 Dibromofluoromethane
 Concen: 60.629 ug/l
 RT: 6.94 min Scan# 560
 Delta R.T. 0.03 min
 Lab File: VD063180.D
 Acq: 22 Jul 2019 16:42

Tgt Ion:113 Resp: 773639
 Ion Ratio Lower Upper
 113 100
 111 101.9 84.8 127.2
 192 17.5 13.4 20.0



Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 4.888 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.07 min

Lab File: VD063180.D

Acq: 22 Jul 2019 16:42

Instrument :

MSVOA_D

ClientSampleId :

GIS-BUILDING-2

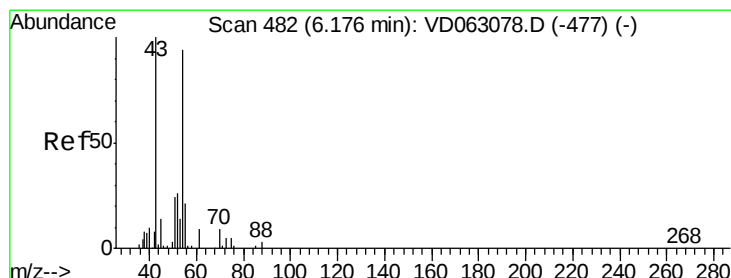
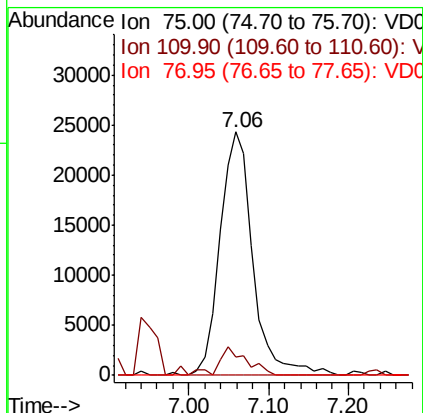
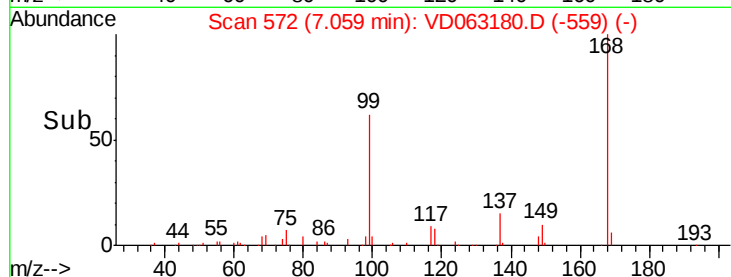
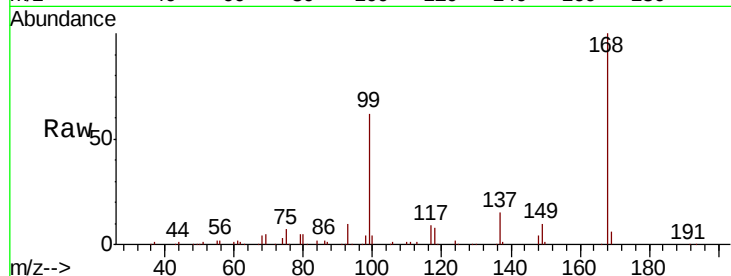
Tot Ion: 75 Resp: 70422

Ion Ratio Lower Upper

75 100

110 7.6 18.9 56.5#

77 0.0 25.2 37.8#



#37

Ethyl Acetate

Concen: 1.642 ug/l

RT: 6.18 min Scan# 483

Delta R.T. 0.01 min

Lab File: VD063180.D

Acq: 22 Jul 2019 16:42

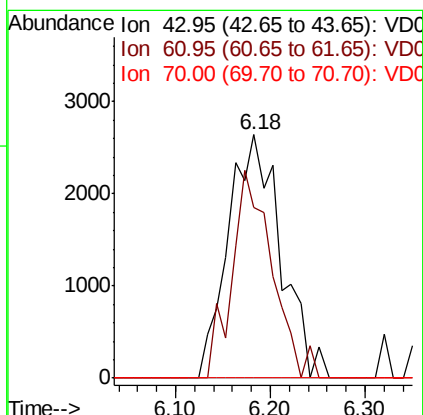
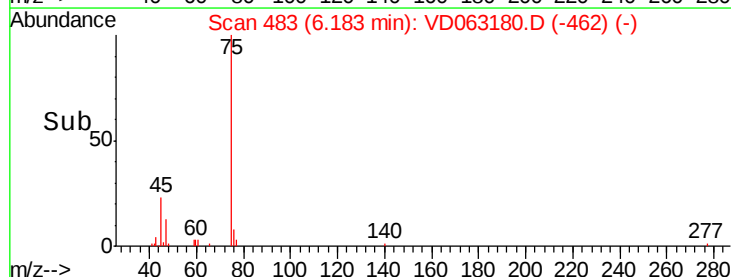
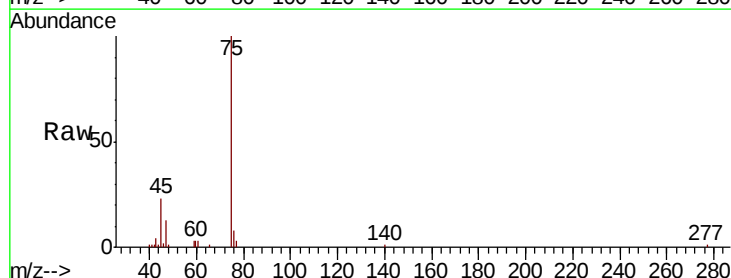
Tgt Ion: 43 Resp: 10127

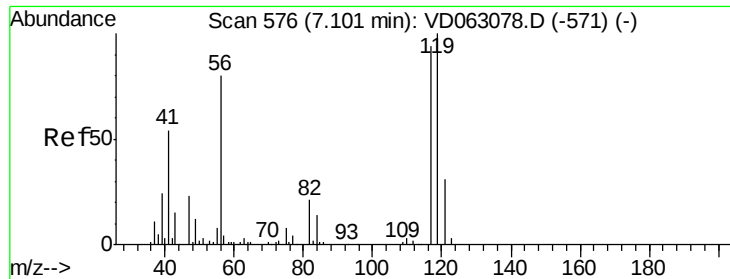
Ion Ratio Lower Upper

43 100

61 70.0 10.6 16.0#

70 0.0 6.6 9.8#





#38

Carbon Tetrachloride

Concen: 4.436 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.04 min

Lab File: VD063180.D

Acq: 22 Jul 2019 16:42

Instrument :

MSVOA_D

ClientSampleId :

GIS-BUILDING-2

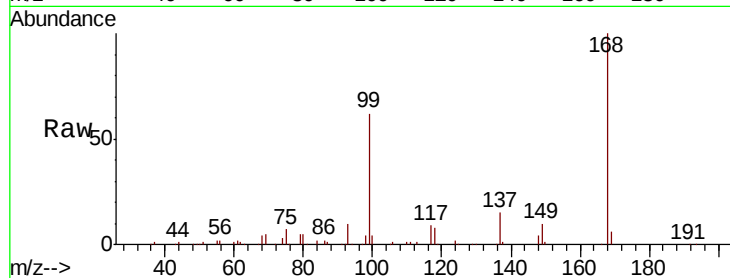
Tot Ion:117 Resp: 97121

Ion Ratio Lower Upper

117 100

119 3.2 80.0 120.0#

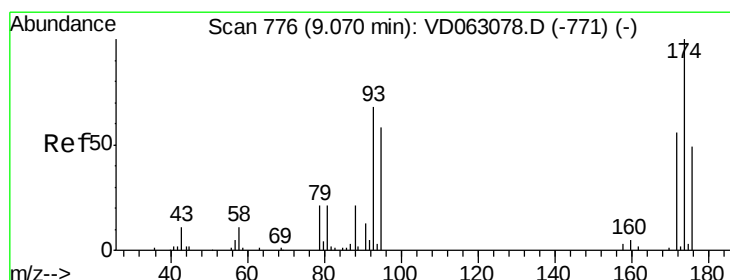
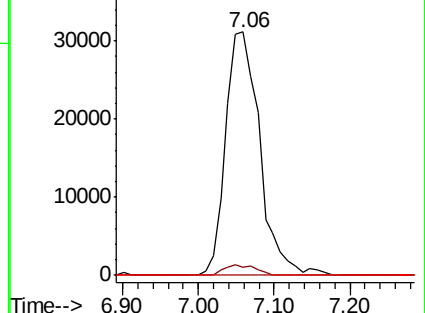
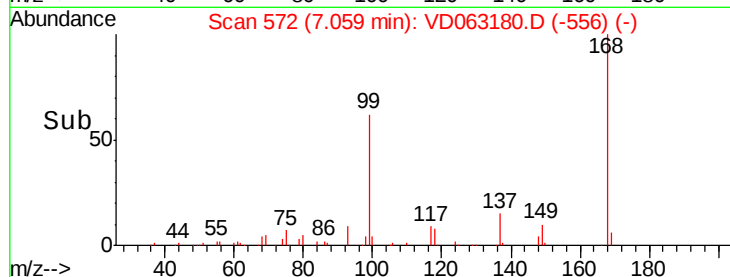
121 0.0 25.0 37.4#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#49

1,4-Dioxane

Concen: 4.974 ug/l

RT: 9.16 min Scan# 785

Delta R.T. 0.09 min

Lab File: VD063180.D

Acq: 22 Jul 2019 16:42

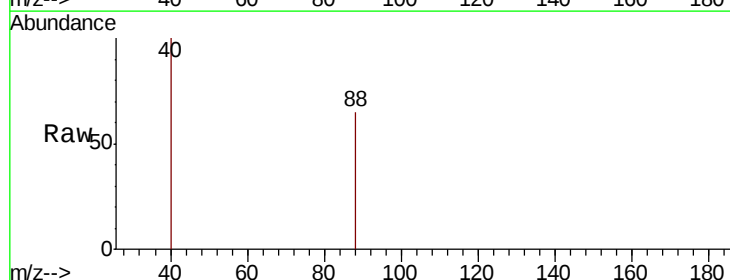
Tgt Ion: 88 Resp: 249

Ion Ratio Lower Upper

88 100

43 0.0 40.2 60.4#

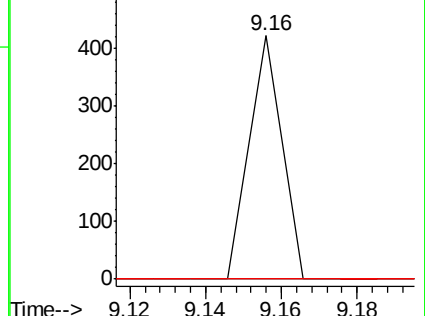
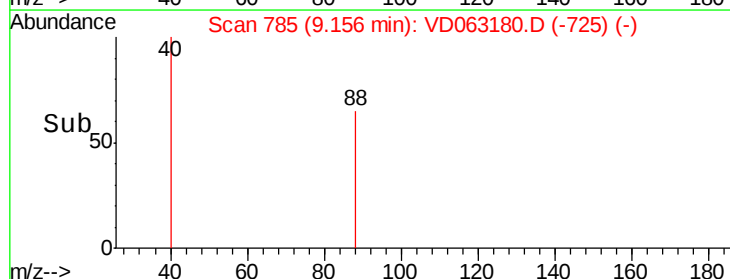
58 0.0 41.6 62.4#

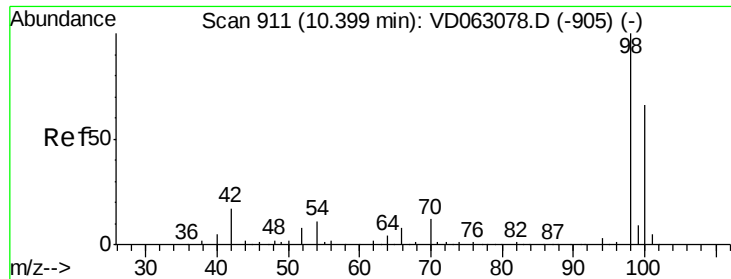


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC

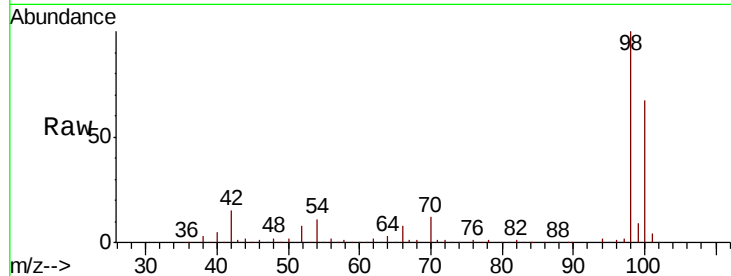




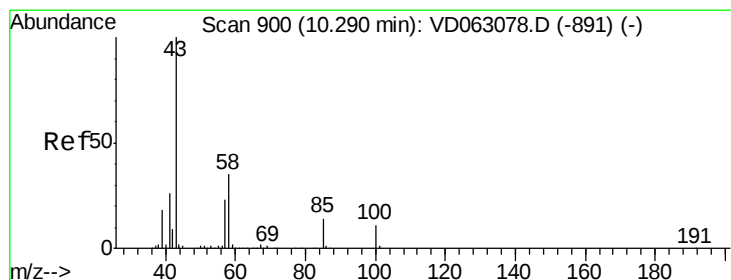
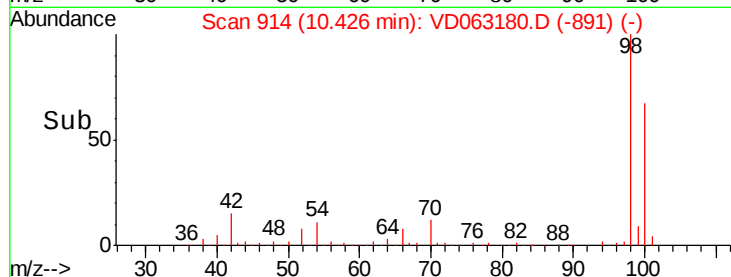
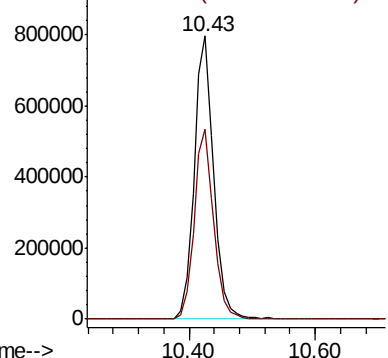
#50
Toluene-d8
Concen: 62.045 ug/l
RT: 10.43 min Scan# 914
Delta R.T. 0.03 min
Lab File: VD063180.D
Acq: 22 Jul 2019 16:42

Instrument :
MSVOA_D
ClientSampleId :
GIS-BUILDING-2

Tot Ion: 98 Resp: 1700575
Ion Ratio Lower Upper
98 100
100 67.1 53.5 80.3

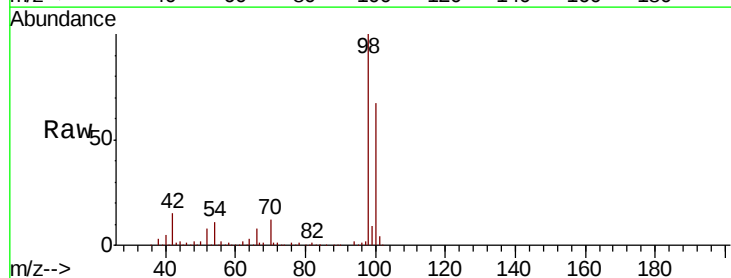


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

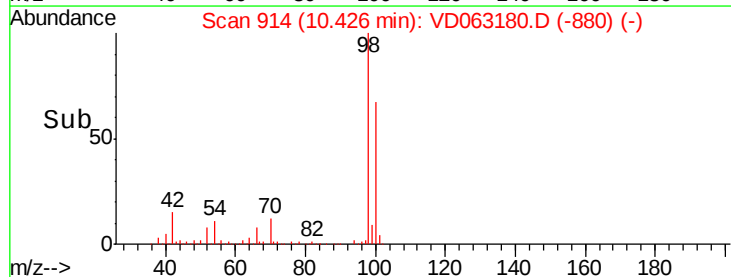
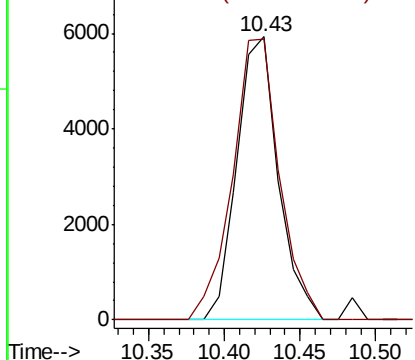


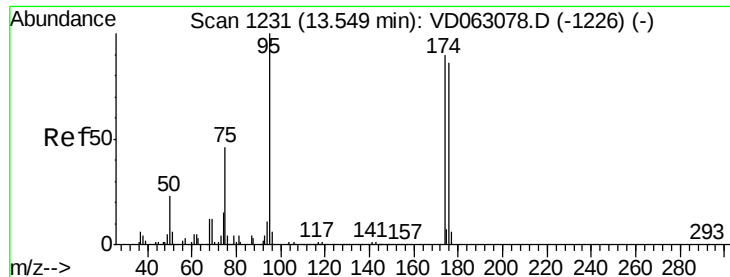
#51
4-Methyl-2-Pentanone
Concen: 1.922 ug/l
RT: 10.43 min Scan# 914
Delta R.T. 0.14 min
Lab File: VD063180.D
Acq: 22 Jul 2019 16:42

Tgt Ion: 43 Resp: 11268
Ion Ratio Lower Upper
43 100
58 99.0 27.8 41.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

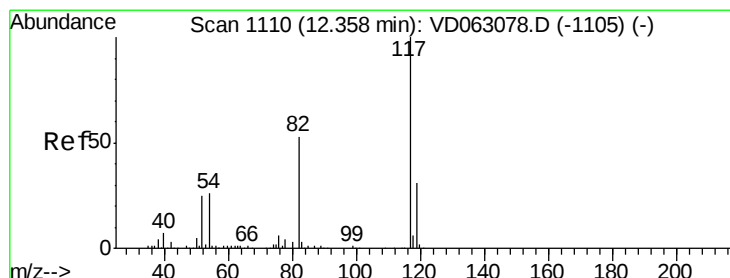
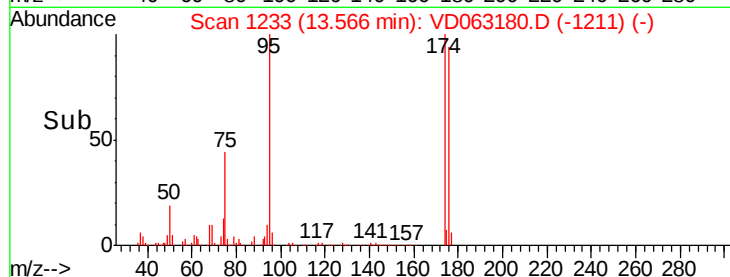
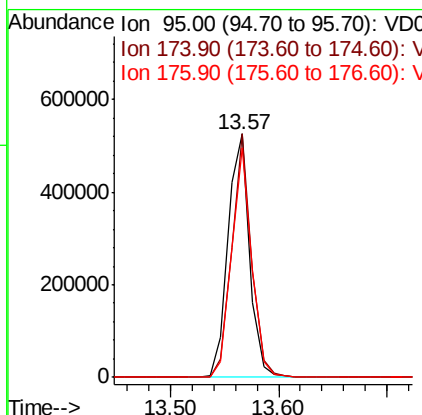
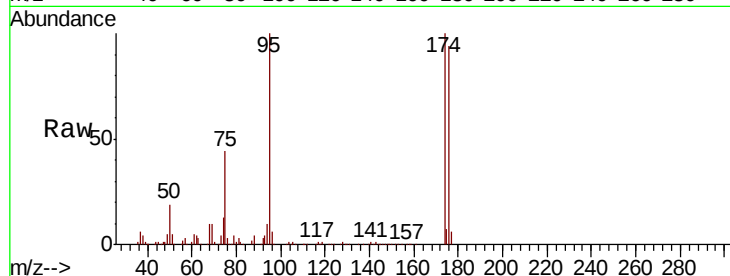




#62
4-Bromofluorobenzene
Concen: 57.363 ug/l
RT: 13.57 min Scan# 1233
Delta R.T. 0.02 min
Lab File: VD063180.D
Acq: 22 Jul 2019 16:42

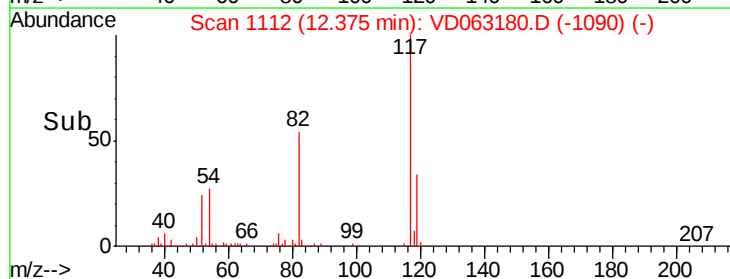
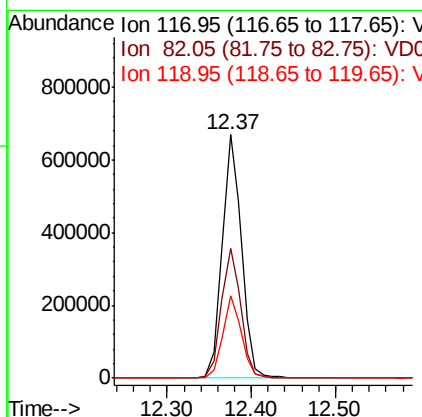
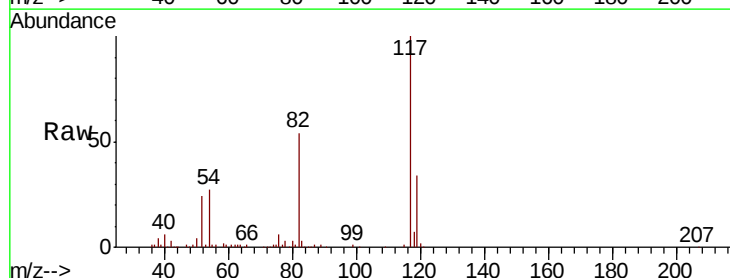
Instrument :
MSVOA_D
ClientSampleId :
GIS-BUILDING-2

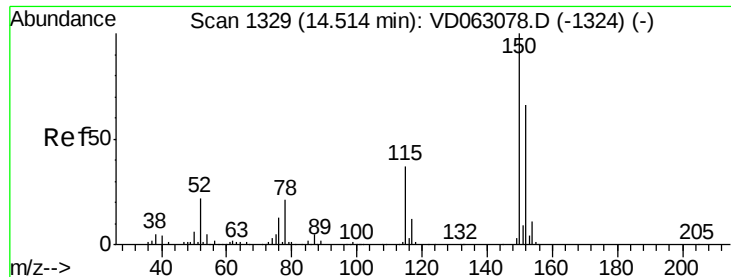
Tot Ion: 95 Resp: 727387
Ion Ratio Lower Upper
95 100
174 99.9 0.0 180.6
176 94.3 0.0 172.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.02 min
Lab File: VD063180.D
Acq: 22 Jul 2019 16:42

Tgt Ion: 117 Resp: 1062045
Ion Ratio Lower Upper
117 100
82 53.5 42.3 63.5
119 33.7 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.01 min

Lab File: VD063180.D

Acq: 22 Jul 2019 16:42

Instrument :

MSVOA_D

ClientSampleId :

GIS-BUILDING-2

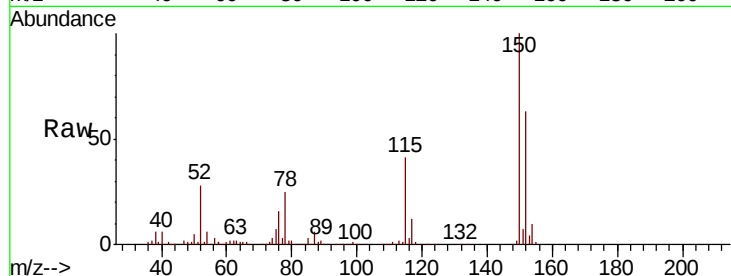
Tot Ion:152 Resp: 509550

Ion Ratio Lower Upper

152 100

115 65.1 28.9 86.8

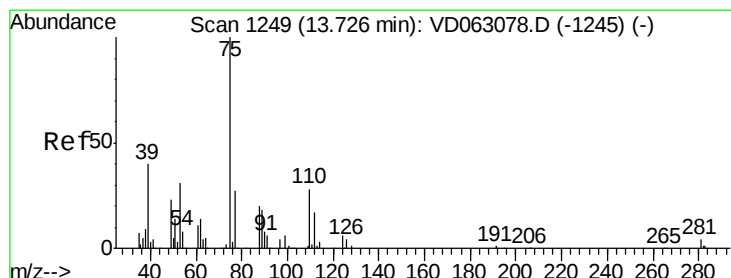
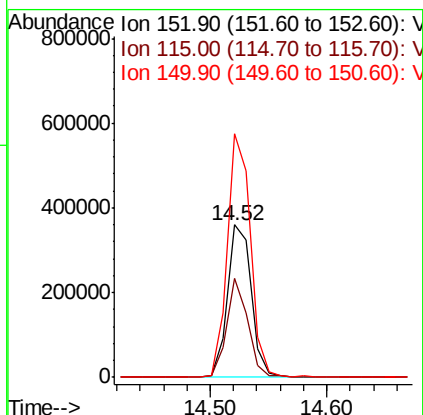
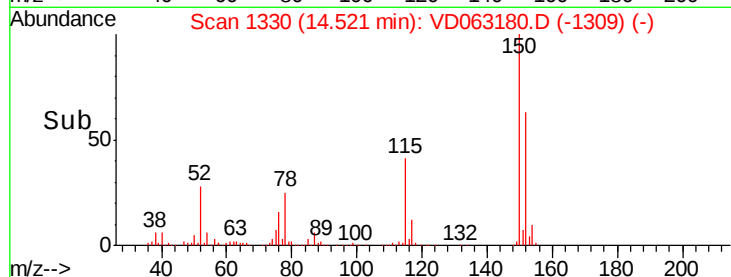
150 159.9 0.0 313.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 38.518 ug/l

RT: 13.57 min Scan# 1233

Delta R.T. -0.16 min

Lab File: VD063180.D

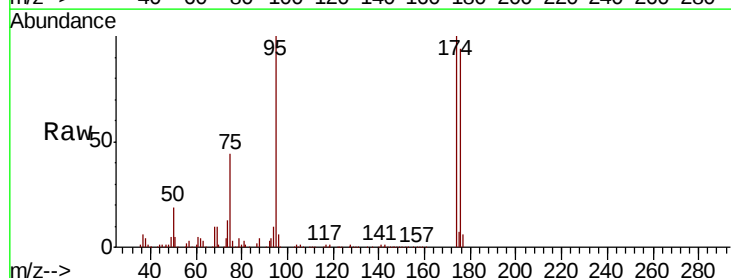
Acq: 22 Jul 2019 16:42

Tgt Ion: 75 Resp: 301916

Ion Ratio Lower Upper

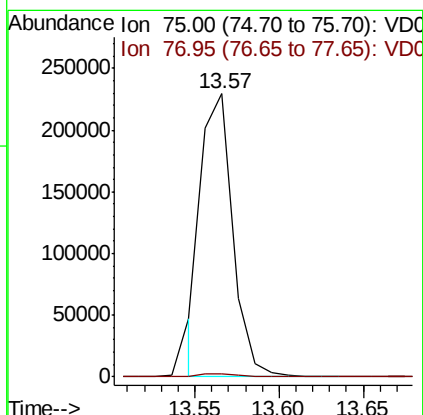
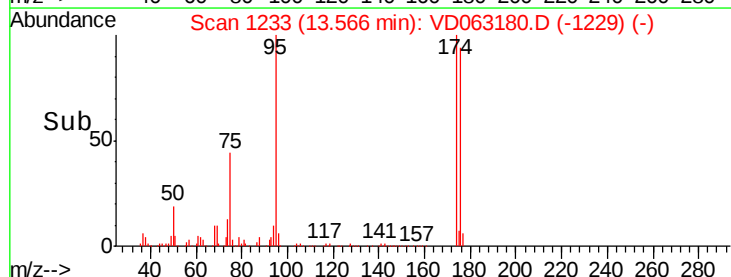
75 100

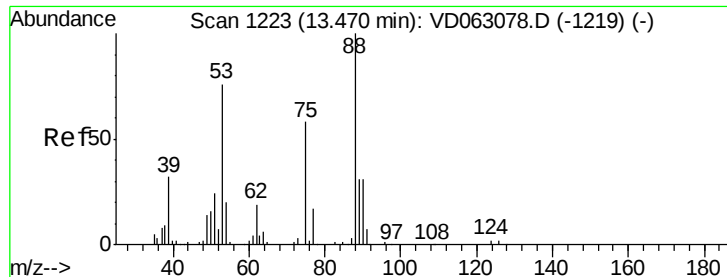
77 0.9 16.3 48.8#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 160.235 ug/l

RT: 13.57 min Scan# 1233

Delta R.T. 0.10 min

Lab File: VD063180.D

Acq: 22 Jul 2019 16:42

Instrument :

MSVOA_D

ClientSampleId :

GIS-BUILDING-2

Tot Ion: 75 Resp: 330746

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#

