

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080519\
 Data File : VX011323.D
 Acq On : 05 Aug 2019 12:00
 Operator : JC/SP
 Sample : K4119-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 06 02:36:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	145353	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	230398	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	218438	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	98296	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	79780	54.50	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	109.00%	
35) Dibromofluoromethane	5.49	113	76781	51.04	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.08%	
50) Toluene-d8	8.71	98	284652	50.13	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.26%	
62) 4-Bromofluorobenzene	11.13	95	95388	47.05	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	94.10%	

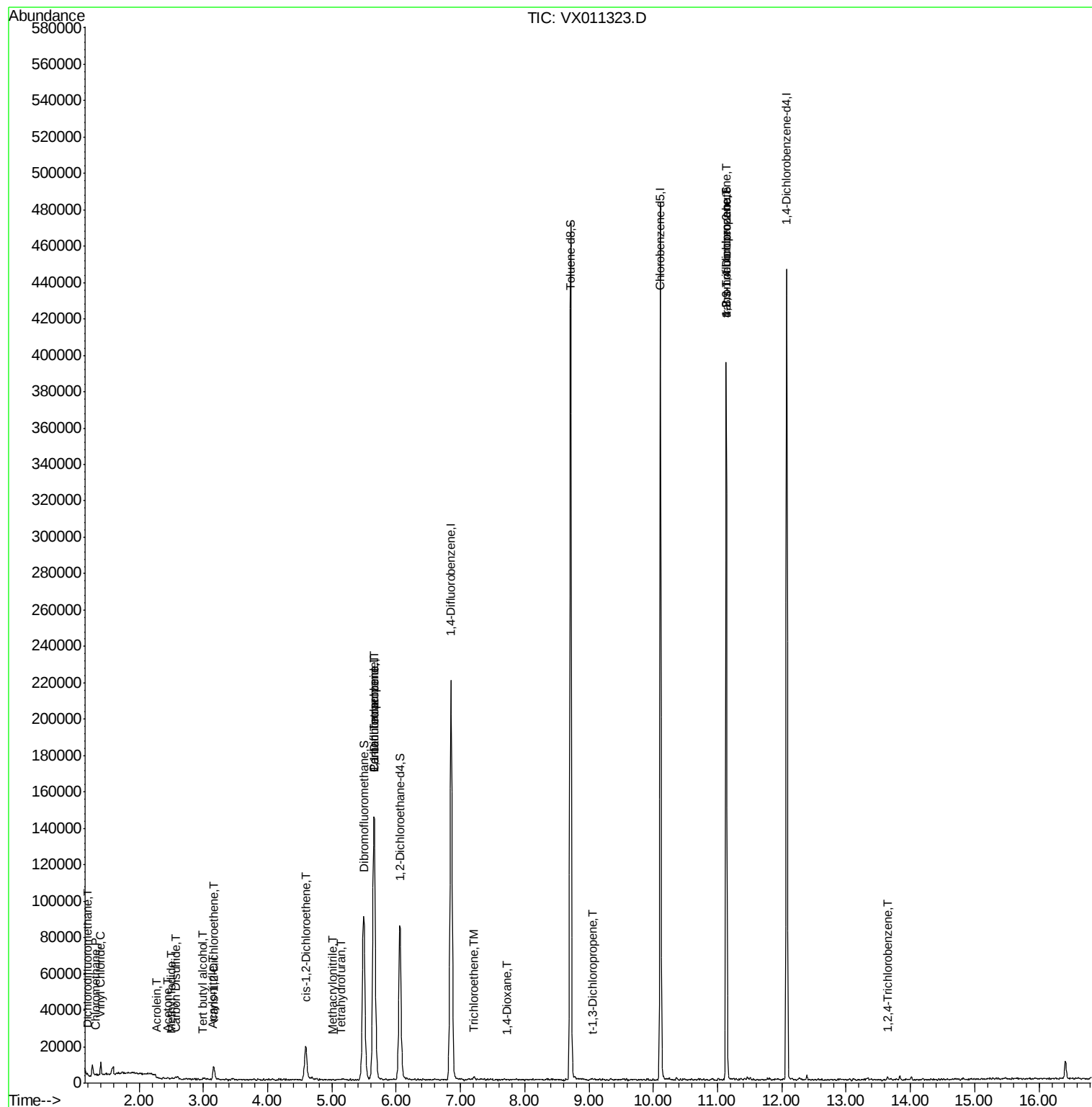
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	549	0.489	ug/l #	58
3) Chloromethane	1.32	50	354	0.281	ug/l #	63
4) Vinyl Chloride	1.40	62	4395	3.169	ug/l	95
6) Chloroethane	1.72	64	743	Below Cal	#	64
10) Methyl Iodide	2.51	142	591	0.351	ug/l #	76
11) Tert butyl alcohol	2.99	59	875	3.020	ug/l #	82
13) Acrolein	2.28	56	269	1.062	ug/l #	33
15) Acrylonitrile	3.14	53	468	0.672	ug/l #	43
16) Acetone	2.45	43	1003	1.440	ug/l	92
17) Carbon Disulfide	2.56	76	944	0.304	ug/l #	52
21) trans-1,2-Dichloroethene	3.16	96	3021	2.159	ug/l	88
27) cis-1,2-Dichloroethene	4.59	96	12611	7.826	ug/l	90
29) Tetrahydrofuran	5.14	42	422	0.694	ug/l #	45
36) 1,1-Dichloropropene	5.66	75	9880	4.912	ug/l #	49
38) Carbon Tetrachloride	5.65	117	13713	6.776	ug/l #	15
41) Methacrylonitrile	5.01	41	444	0.403	ug/l #	51
44) Trichloroethene	7.21	130	582	0.320	ug/l	54
49) 1,4-Dioxane	7.71	88	19	0.432	ug/l #	1
53) t-1,3-Dichloropropene	9.05	75	102	2.881	ug/l #	43
76) 1,2,3-Trichloropropane	11.13	75	47183	26.358	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	47183	68.537	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.65	180	459	0.209	ug/l	94

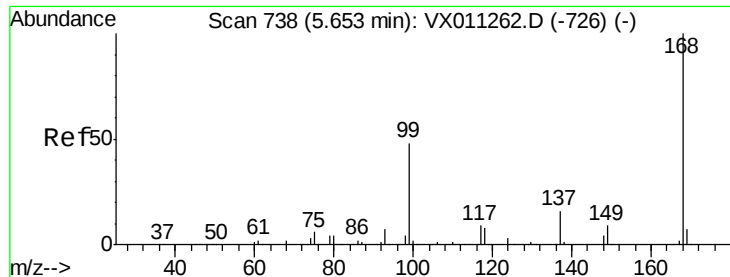
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX080519\
Data File : VX011323.D
Acq On : 05 Aug 2019 12:00
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Instrument :
MSVOA_X
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Quant Time: Aug 06 02:36:51 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011323.D

Acq: 05 Aug 2019 12:00

Instrument :

MSVOA_X

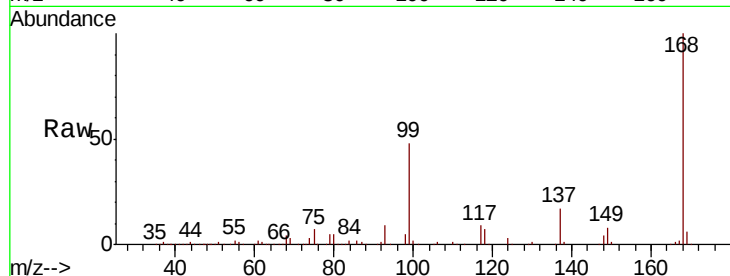
ClientSampleId :

Tot Ion:168 Resp: 145353

Ion Ratio Lower Upper

168 100

99 48.0 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

60000

50000

40000

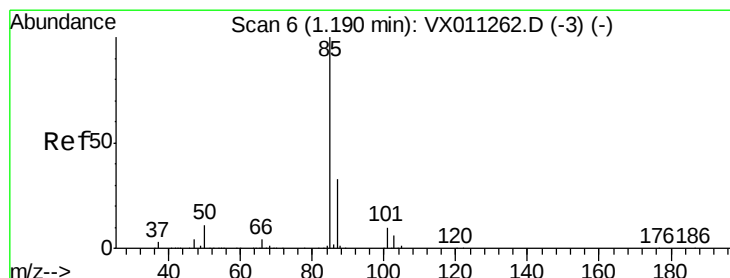
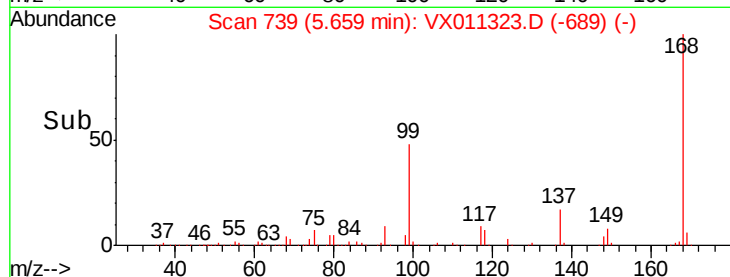
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.489 ug/l

RT: 1.19 min Scan# 6

Delta R.T. -0.00 min

Lab File: VX011323.D

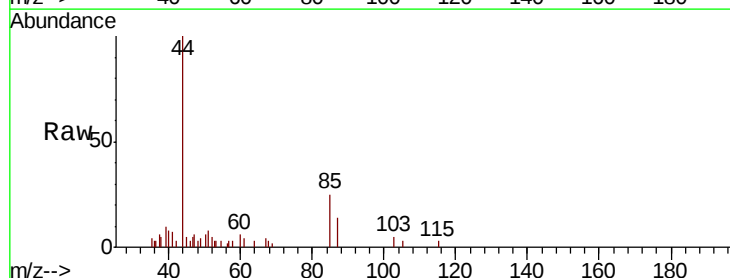
Acq: 05 Aug 2019 12:00

Tgt Ion: 85 Resp: 549

Ion Ratio Lower Upper

85 100

87 56.3 16.4 49.1#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

600

500

400

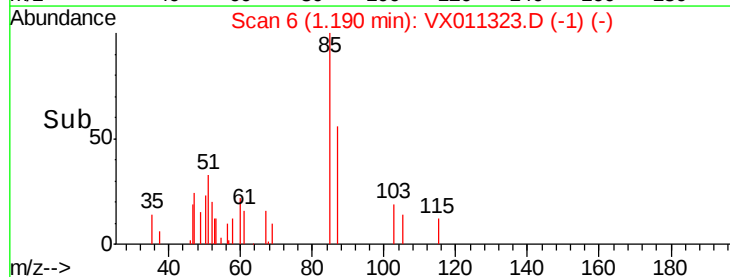
300

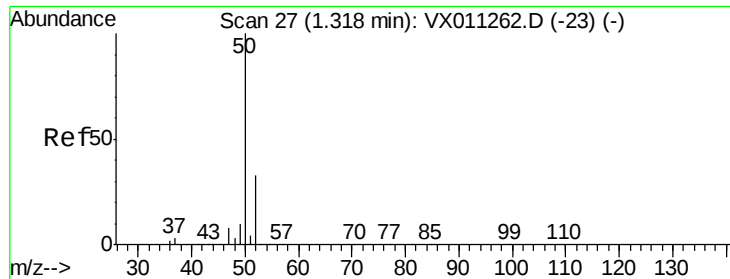
200

100

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: 0.281 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.01 min

Lab File: VX011323.D

Acq: 05 Aug 2019 12:00

Instrument :

MSVOA_X

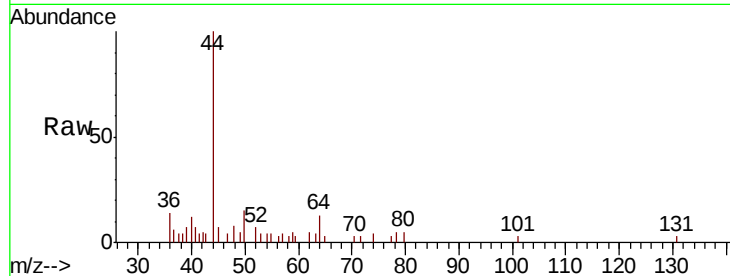
ClientSampled :

Tot Ion: 50 Resp: 354

Ion Ratio Lower Upper

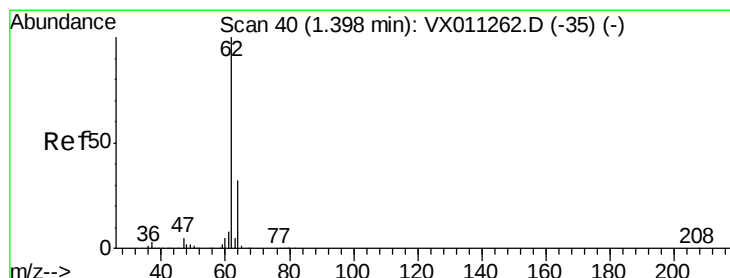
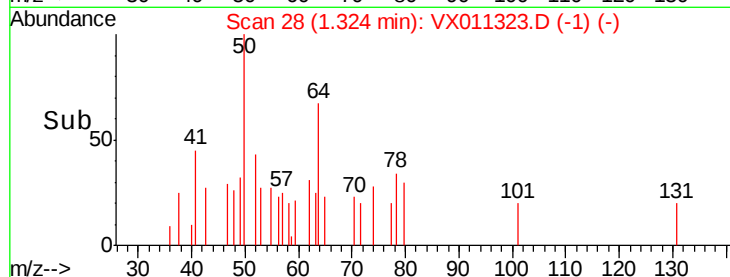
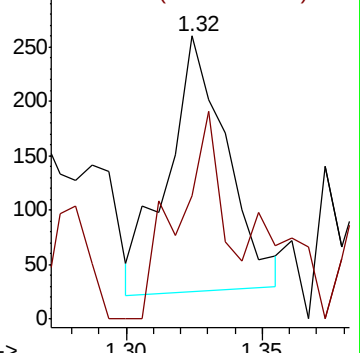
50 100

52 54.1 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 3.169 ug/l

RT: 1.40 min Scan# 41

Delta R.T. 0.01 min

Lab File: VX011323.D

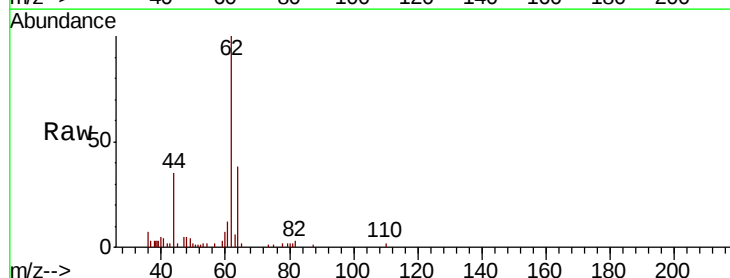
Acq: 05 Aug 2019 12:00

Tgt Ion: 62 Resp: 4395

Ion Ratio Lower Upper

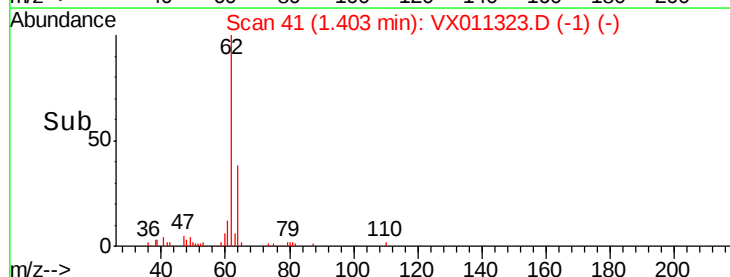
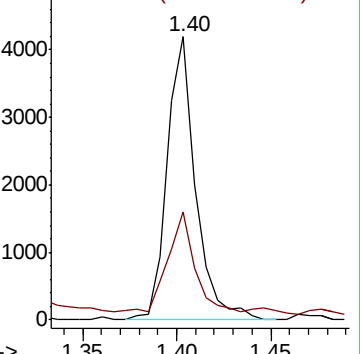
62 100

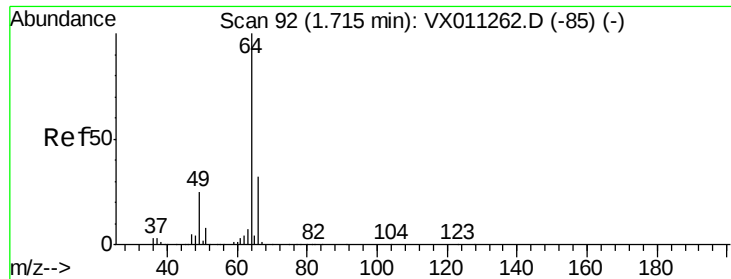
64 35.1 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX011323.D

Acq: 05 Aug 2019 12:00

Instrument :

MSVOA_X

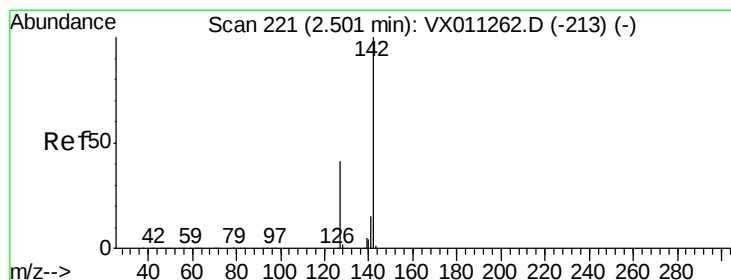
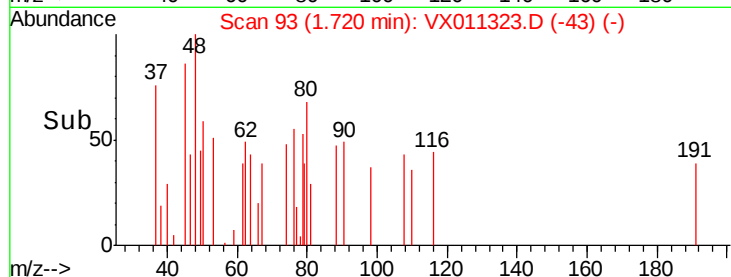
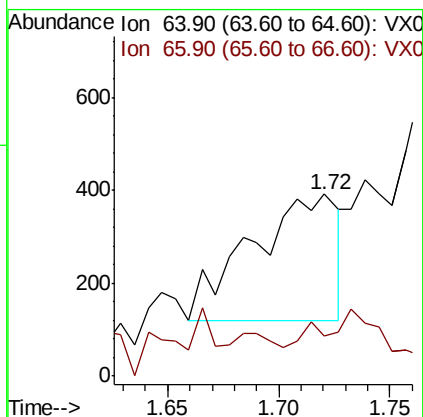
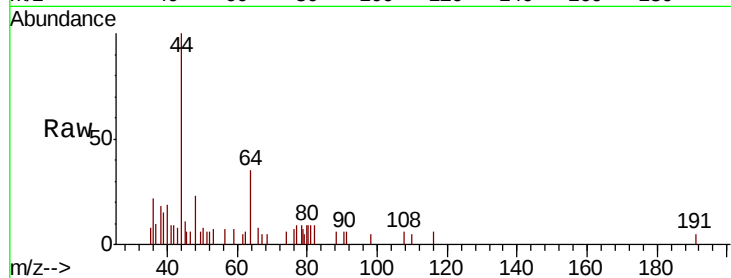
ClientSampled :

Tot Ion: 64 Resp: 743

Ion Ratio Lower Upper

64 100

66 11.4 25.1 37.7#



#10

Methyl Iodide

Concen: 0.351 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX011323.D

Acq: 05 Aug 2019 12:00

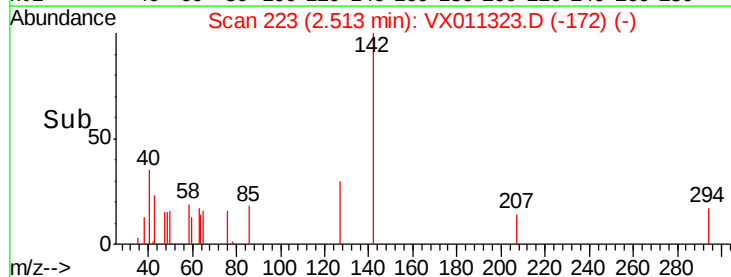
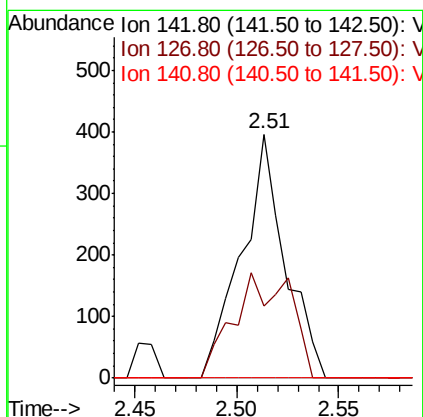
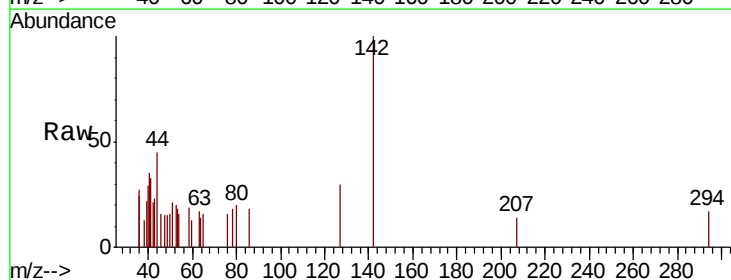
Tgt Ion: 142 Resp: 591

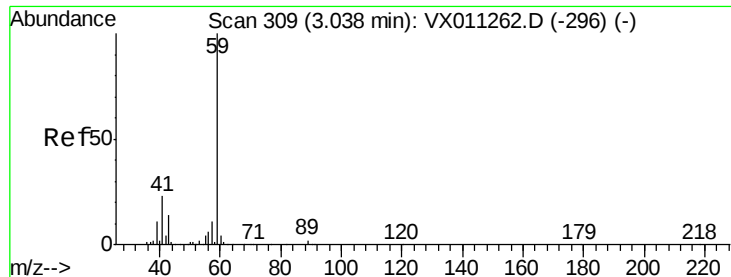
Ion Ratio Lower Upper

142 100

127 55.5 33.8 50.8#

141 0.0 11.4 17.2#



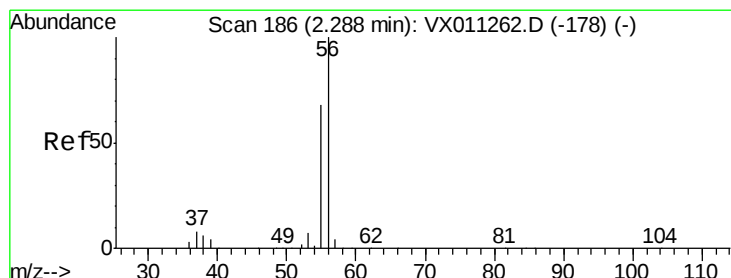
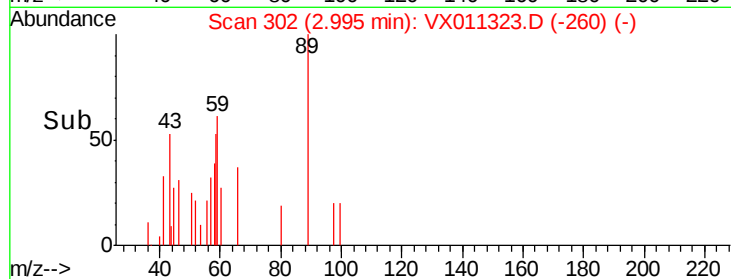
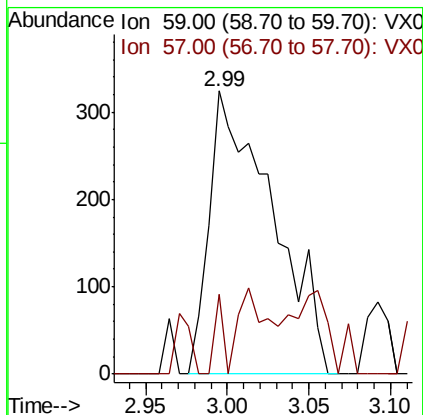
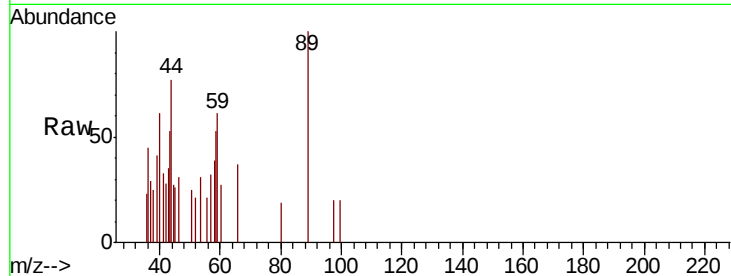


#11

Tert butvl alcohol
Concen: 3.020 ug/l
RT: 2.99 min Scan# 302
Delta R.T. -0.04 min
Lab File: VX011323.D
Acq: 05 Aug 2019 12:00

Instrument :
MSVOA_X
ClientSampled :

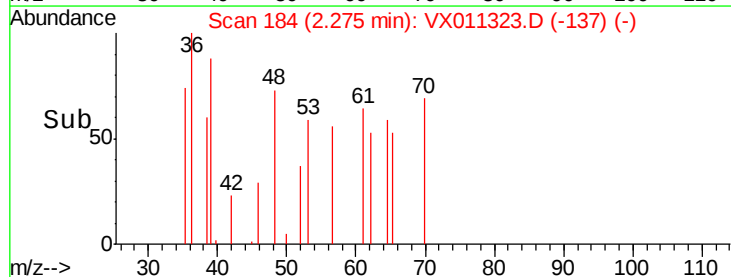
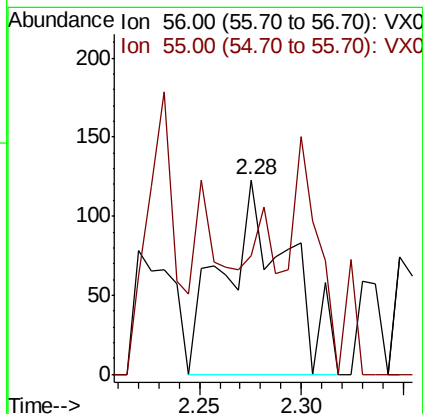
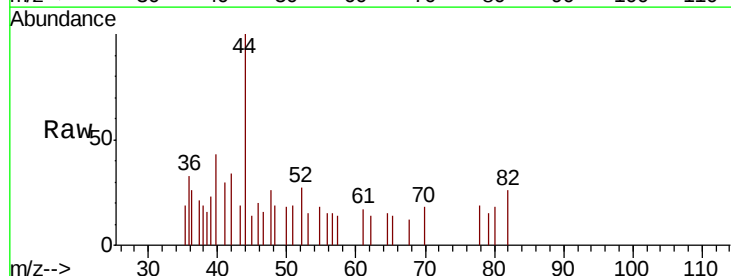
Tot Ion: 59 Resp: 875
Ion Ratio Lower Upper
59 100
57 3.8 8.3 12.5#

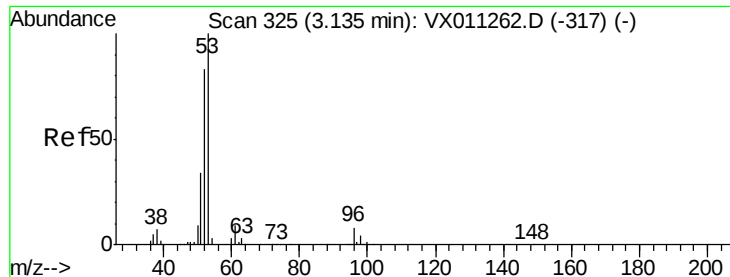


#13

Acrolein
Concen: 1.062 ug/l
RT: 2.28 min Scan# 184
Delta R.T. -0.01 min
Lab File: VX011323.D
Acq: 05 Aug 2019 12:00

Tgt Ion: 56 Resp: 269
Ion Ratio Lower Upper
56 100
55 15.2 56.0 84.0#





#15

Acrylonitrile

Concen: 0.672 ug/l

RT: 3.14 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX011323.D

Acq: 05 Aug 2019 12:00

Instrument :

MSVOA_X

ClientSampled :

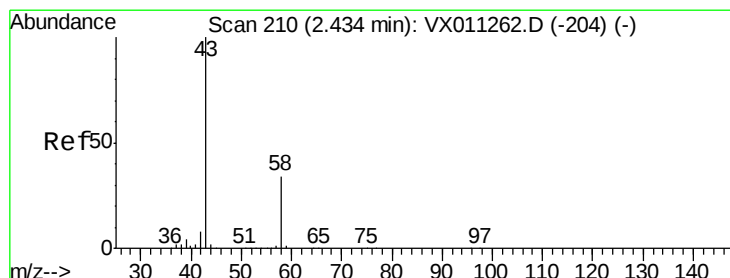
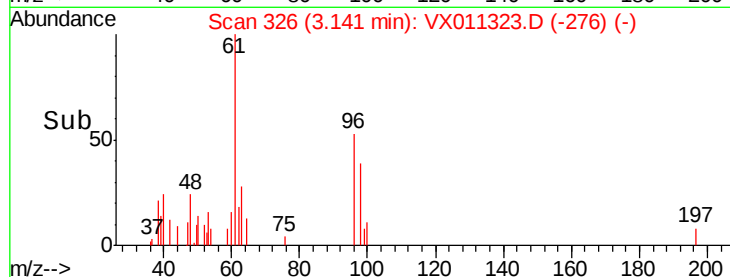
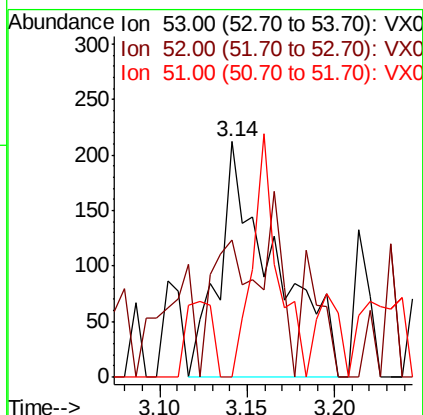
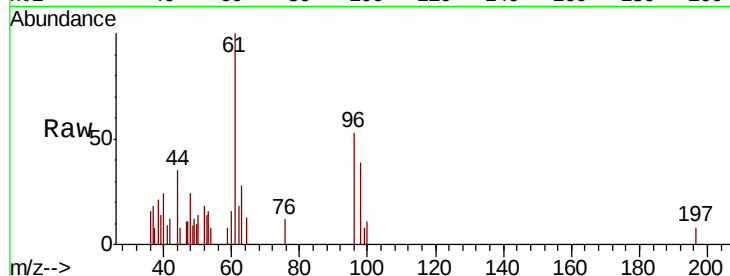
Tot Ion: 53 Resp: 468

Ion Ratio Lower Upper

53 100

52 32.1 65.5 98.3#

51 0.0 27.9 41.9#



#16

Acetone

Concen: 1.440 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.01 min

Lab File: VX011323.D

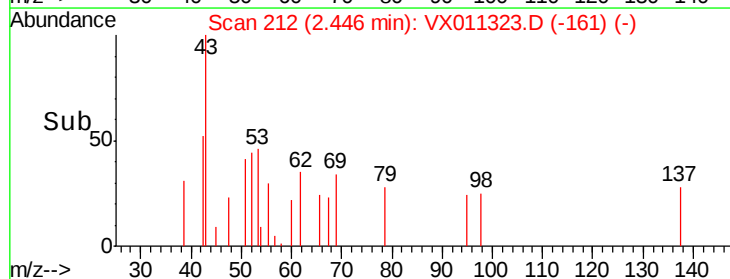
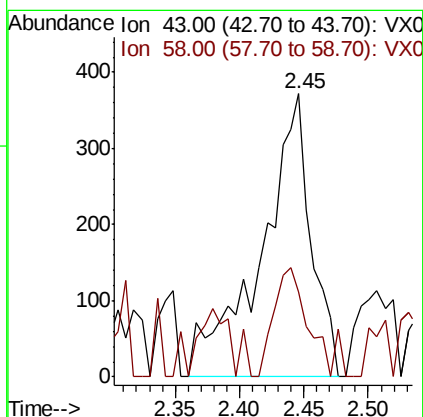
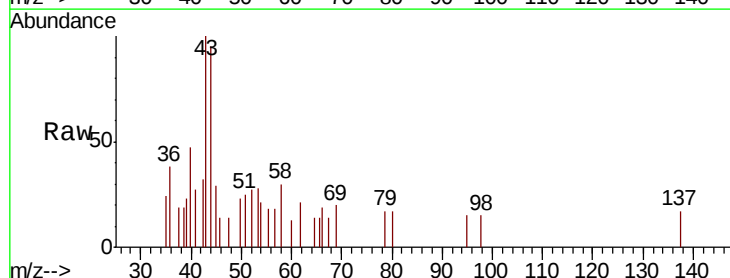
Acq: 05 Aug 2019 12:00

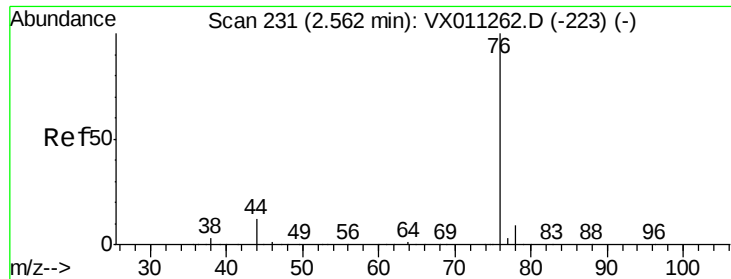
Tgt Ion: 43 Resp: 1003

Ion Ratio Lower Upper

43 100

58 29.8 27.4 41.0

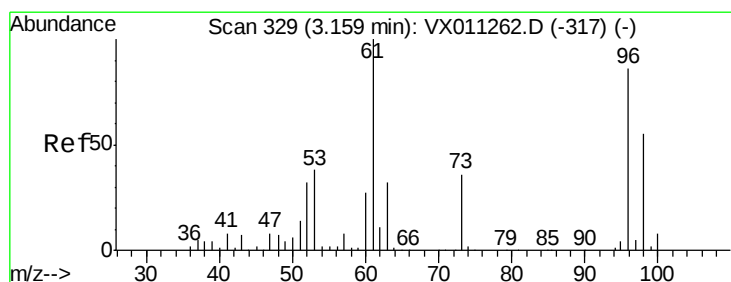
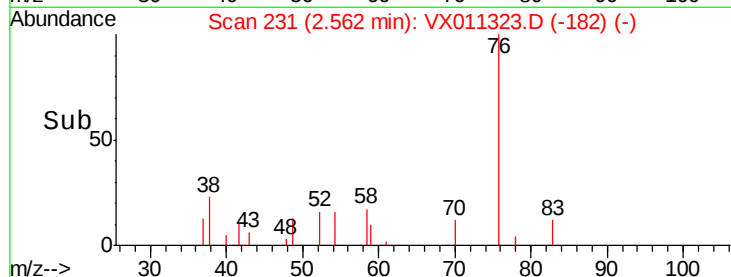
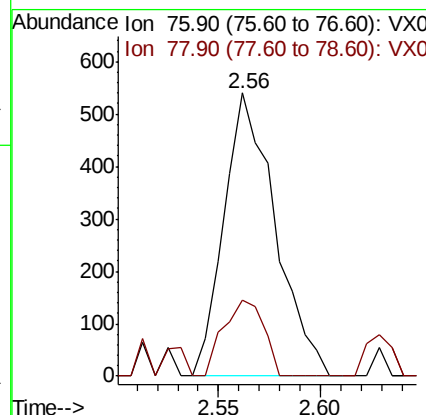
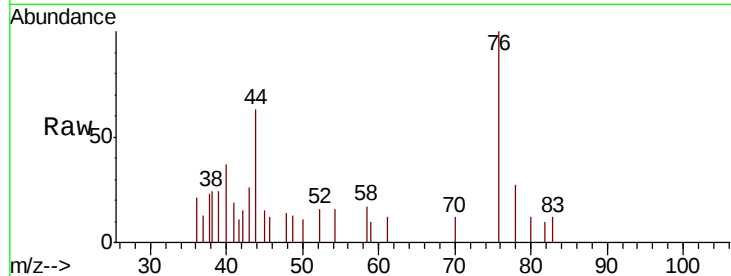




#17
Carbon Disulfide
Concen: 0.304 ug/l
RT: 2.56 min Scan# 231
Delta R.T. -0.00 min
Lab File: VX011323.D
Acq: 05 Aug 2019 12:00

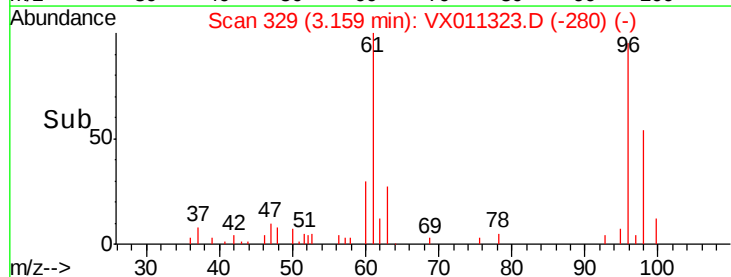
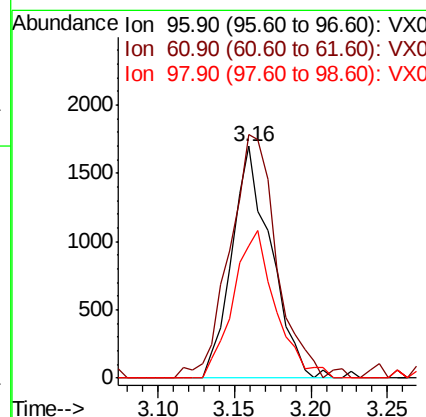
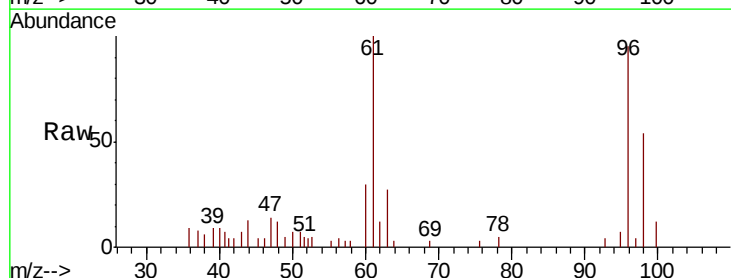
Instrument :
MSVOA_X
ClientSampleId :

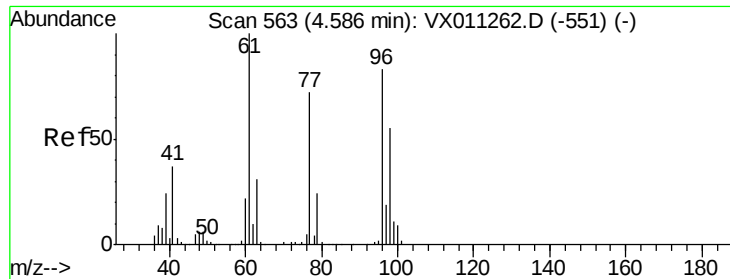
Tot Ion: 76 Resp: 944
Ion Ratio Lower Upper
76 100
78 26.7 7.4 11.0#



#21
trans-1,2-Dichloroethene
Concen: 2.159 ug/l
RT: 3.16 min Scan# 329
Delta R.T. -0.00 min
Lab File: VX011323.D
Acq: 05 Aug 2019 12:00

Tgt Ion: 96 Resp: 3021
Ion Ratio Lower Upper
96 100
61 101.4 92.8 139.2
98 57.2 51.2 76.8



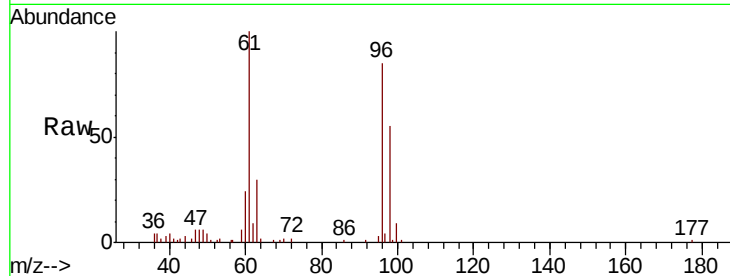


#27

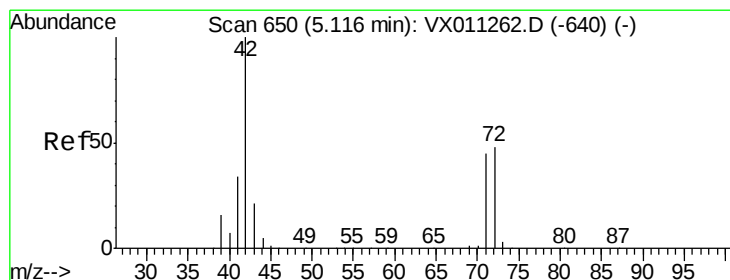
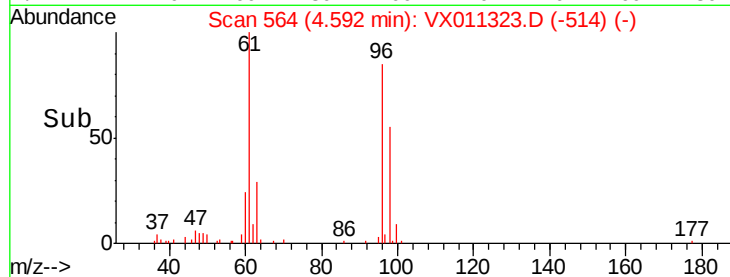
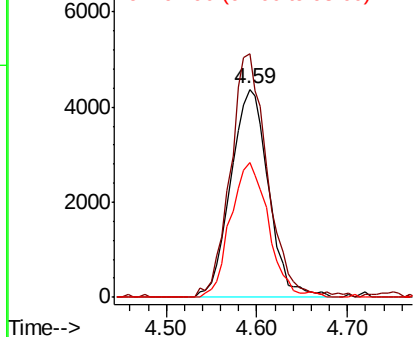
cis-1,2-Dichloroethene
 Concen: 7.826 ug/l
 RT: 4.59 min Scan# 564
 Delta R.T. 0.01 min
 Lab File: VX011323.D
 Acq: 05 Aug 2019 12:00

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	114.0	0.0	260.2
98	64.2	0.0	133.2



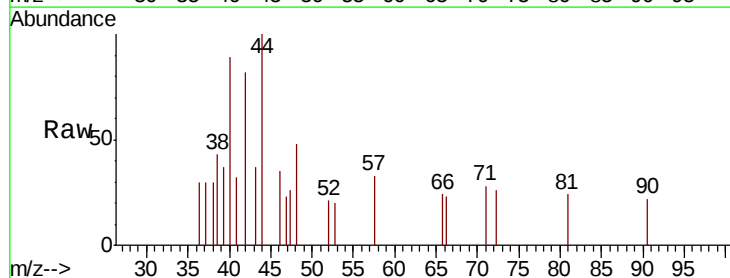
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



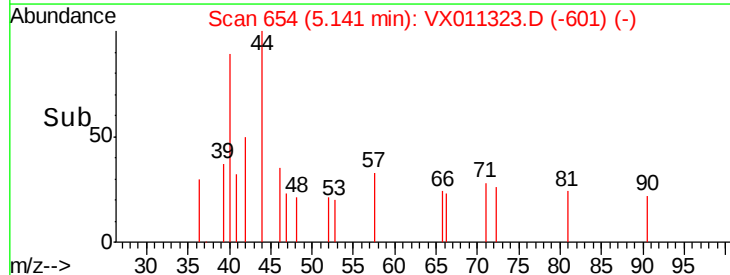
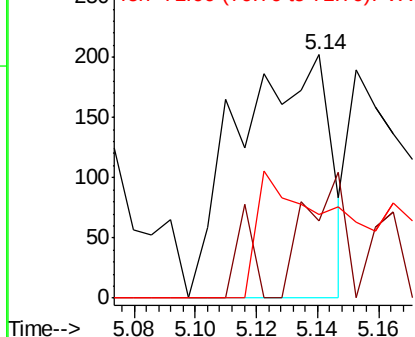
#29

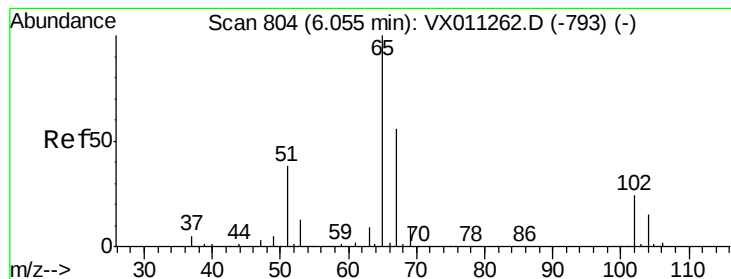
Tetrahydrofuran
 Concen: 0.694 ug/l
 RT: 5.14 min Scan# 654
 Delta R.T. 0.02 min
 Lab File: VX011323.D
 Acq: 05 Aug 2019 12:00

Tgt Ion	Ratio	Lower	Upper
42	100		
72	21.6	39.9	59.9#
71	0.0	36.9	55.3#



Abundance Ion 42.00 (41.70 to 42.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0
 Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 54.503 ug/l

RT: 6.05 min Scan# 803

Delta R.T. -0.01 min

Lab File: VX011323.D

Acq: 05 Aug 2019 12:00

Instrument :

MSVOA_X

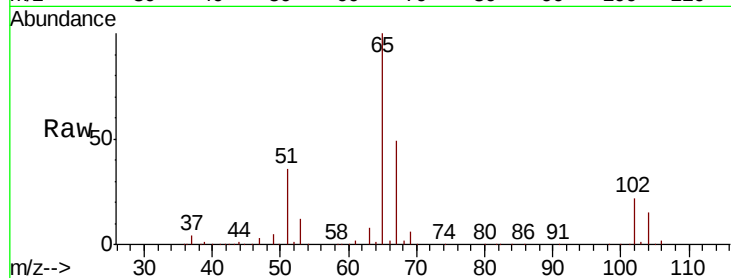
ClientSampleId :

Tot Ion: 65 Resp: 79780

Ion Ratio Lower Upper

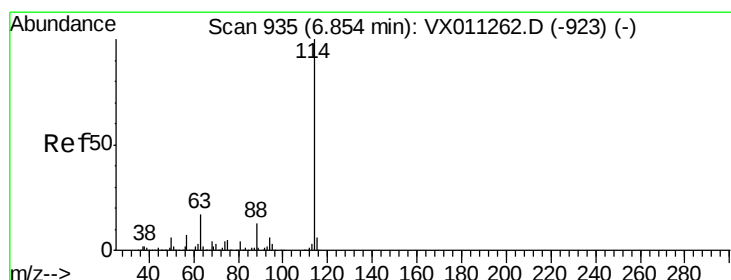
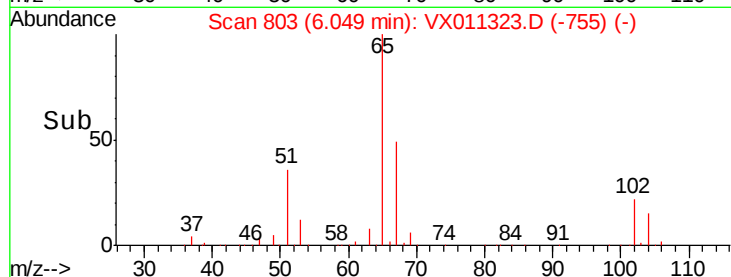
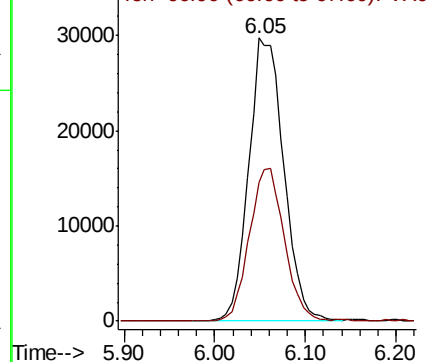
65 100

67 53.7 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.00 min

Lab File: VX011323.D

Acq: 05 Aug 2019 12:00

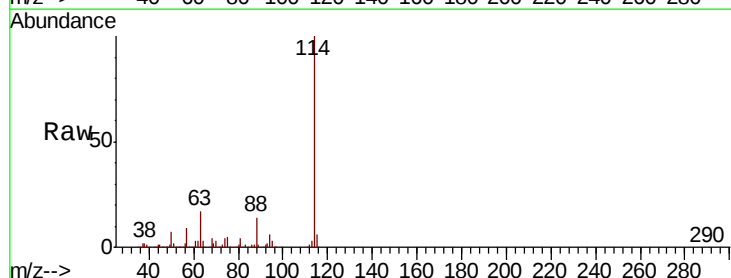
Tgt Ion: 114 Resp: 230398

Ion Ratio Lower Upper

114 100

63 17.1 0.0 34.0

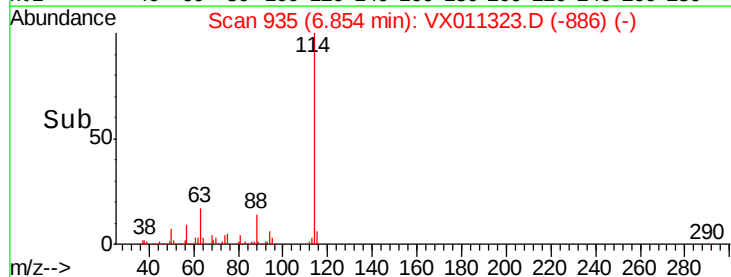
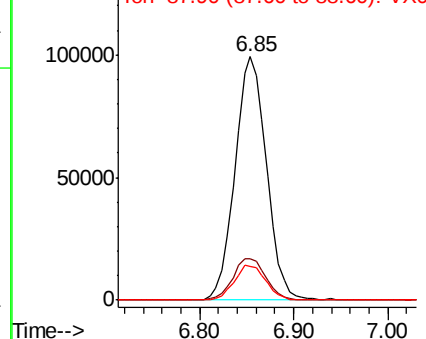
88 13.9 0.0 26.4

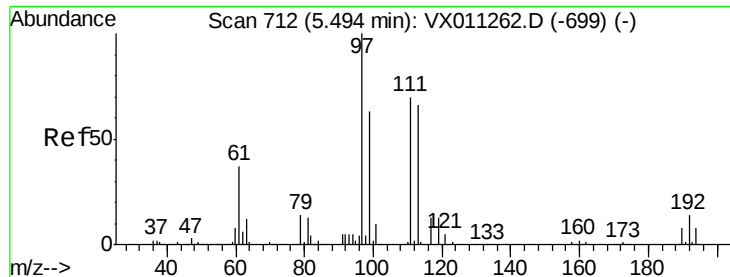


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.044 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.00 min

Lab File: VX011323.D

Acq: 05 Aug 2019 12:00

Instrument :
MSVOA_X
ClientSampleId :

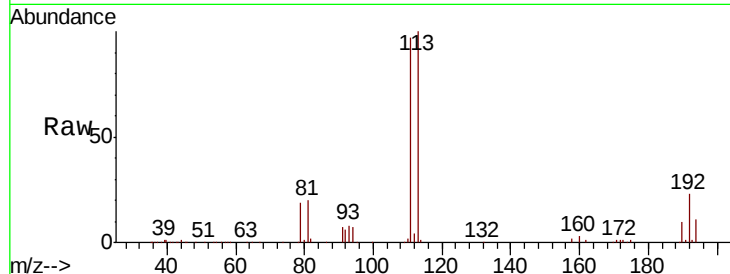
Tot Ion:113 Resp: 76781

Ion Ratio Lower Upper

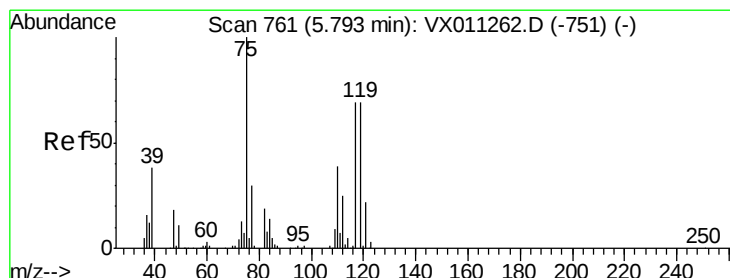
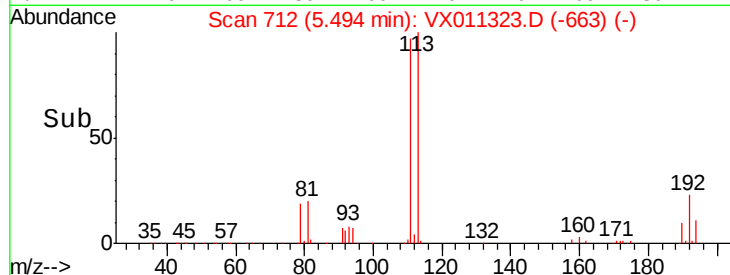
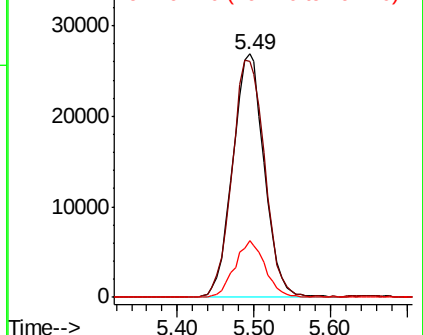
113 100

111 100.5 81.9 122.9

192 22.3 17.8 26.8



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: 4.912 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011323.D

Acq: 05 Aug 2019 12:00

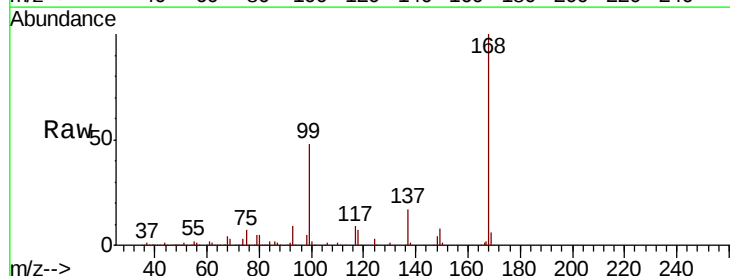
Tgt Ion: 75 Resp: 9880

Ion Ratio Lower Upper

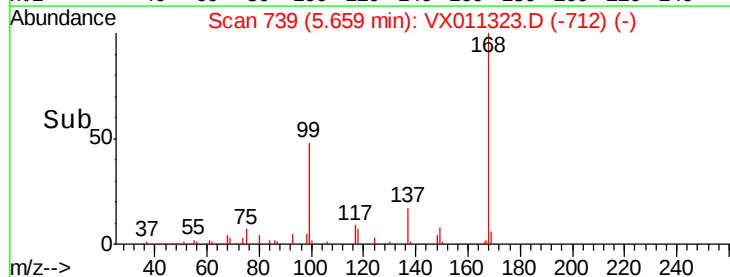
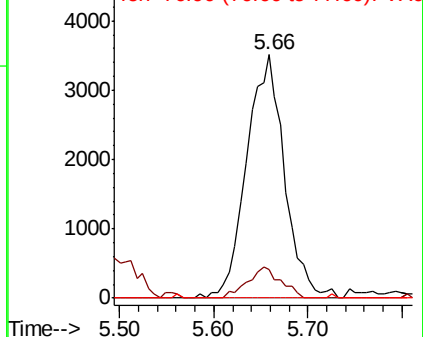
75 100

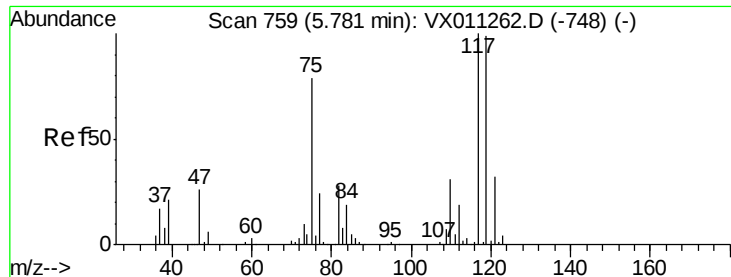
110 11.2 20.0 59.9#

77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.776 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011323.D

Acq: 05 Aug 2019 12:00

Instrument :

MSVOA_X

ClientSampled :

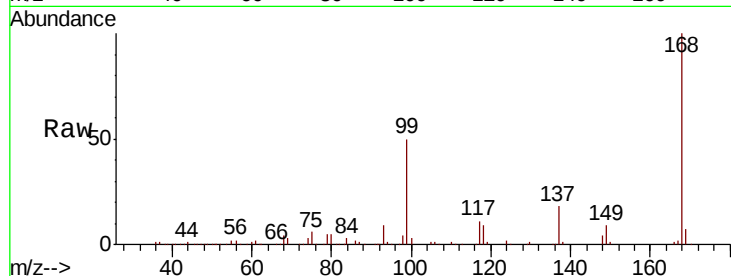
Tot Ion:117 Resp: 13713

Ion Ratio Lower Upper

117 100

119 5.5 79.0 118.4#

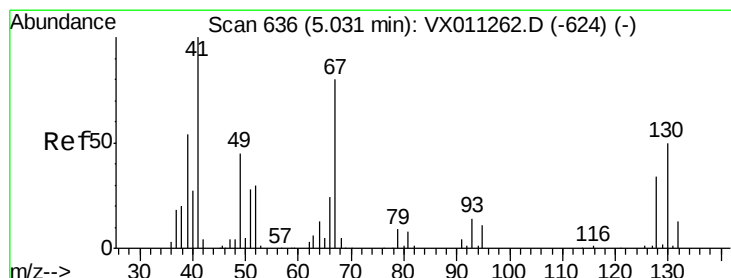
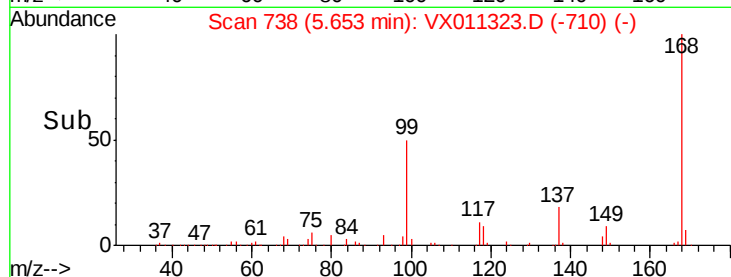
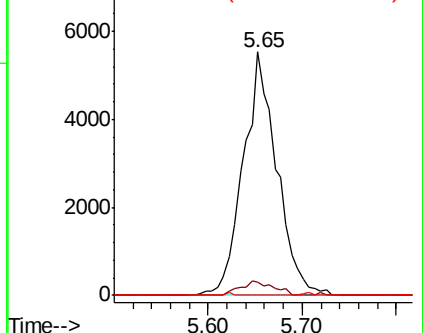
121 0.0 25.9 38.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.403 ug/l

RT: 5.01 min Scan# 633

Delta R.T. -0.02 min

Lab File: VX011323.D

Acq: 05 Aug 2019 12:00

Tgt Ion: 41 Resp: 444

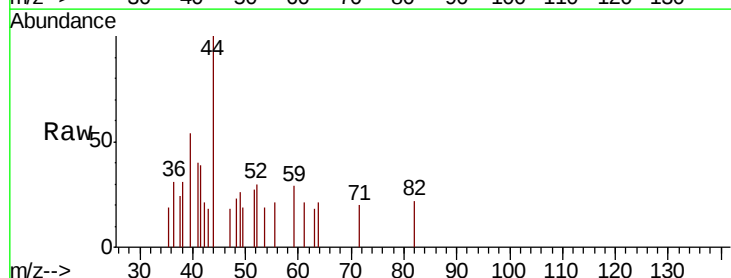
Ion Ratio Lower Upper

41 100

39 61.7 43.0 64.6

67 0.0 65.1 97.7#

52 33.1 24.8 37.2

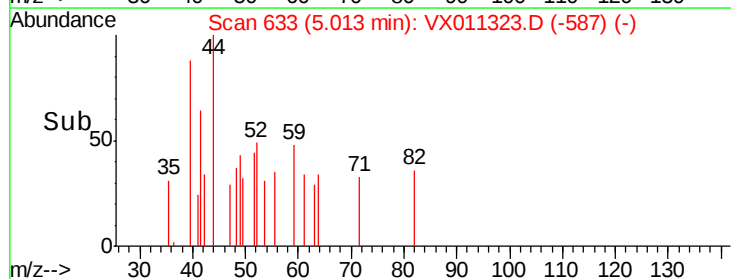
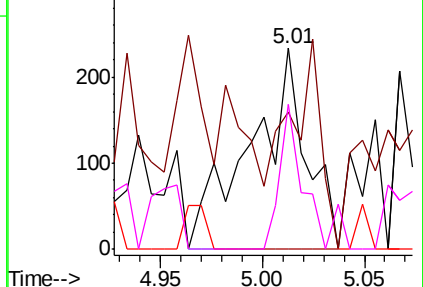


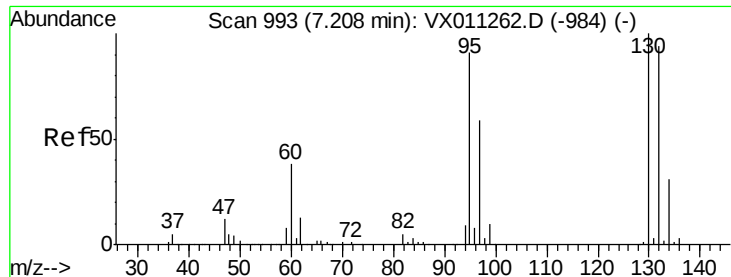
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

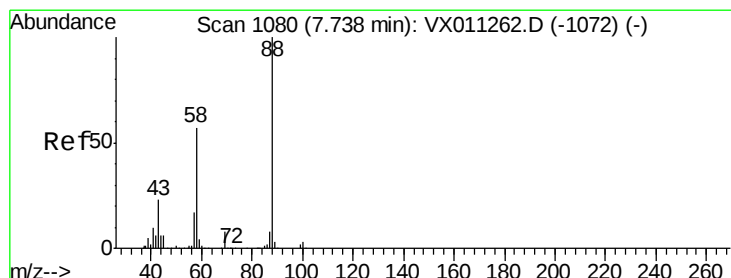
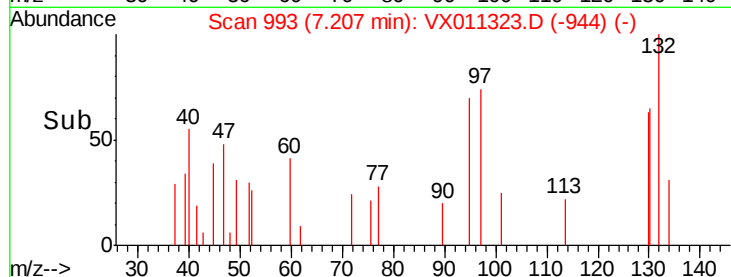
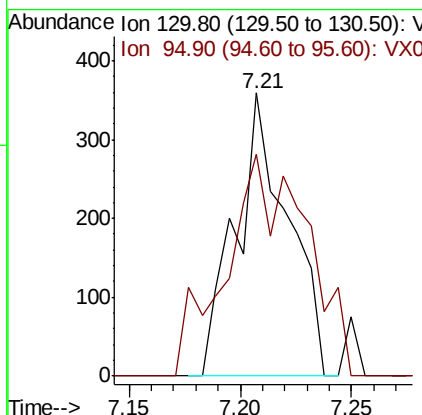
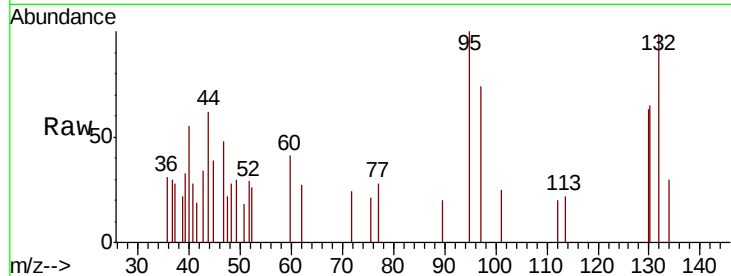




#44
 Trichloroethene
 Concen: 0.320 ug/l
 RT: 7.21 min Scan# 993
 Delta R.T. -0.00 min
 Lab File: VX011323.D
 Acq: 05 Aug 2019 12:00

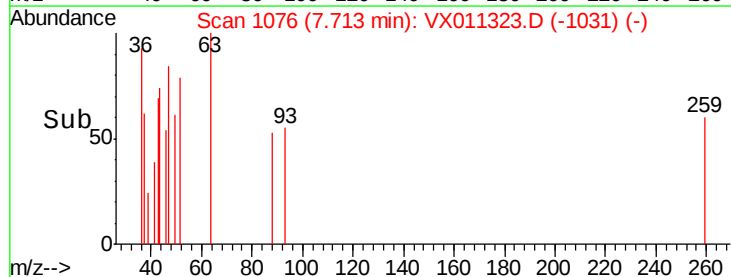
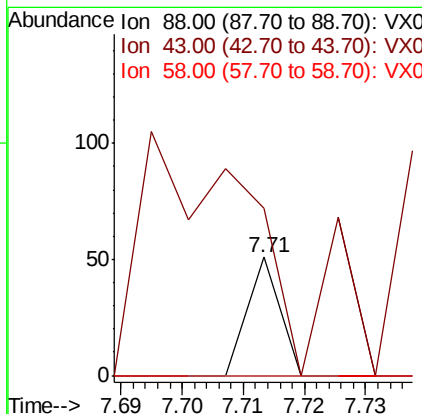
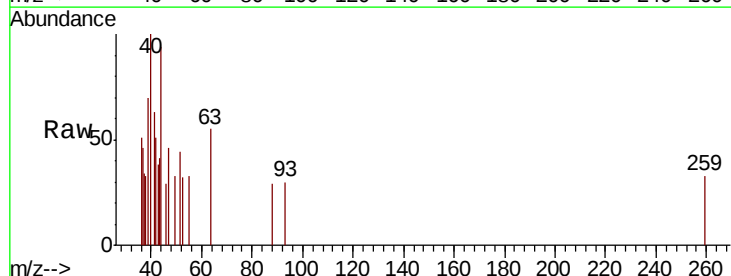
Instrument :
 MSVOA_X
 ClientSampled :

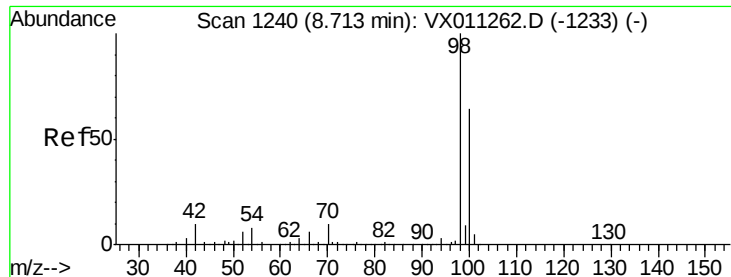
Tot Ion:130 Resp: 582
 Ion Ratio Lower Upper
 130 100
 95 47.4 0.0 182.6



#49
 1,4-Dioxane
 Concen: 0.432 ug/l
 RT: 7.71 min Scan# 1076
 Delta R.T. -0.02 min
 Lab File: VX011323.D
 Acq: 05 Aug 2019 12:00

Tgt Ion: 88 Resp: 19
 Ion Ratio Lower Upper
 88 100
 43 642.1 22.2 33.2#
 58 0.0 47.8 71.8#





#50

Toluene-d8

Concen: 50.133 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011323.D

Acq: 05 Aug 2019 12:00

Instrument :

MSVOA_X

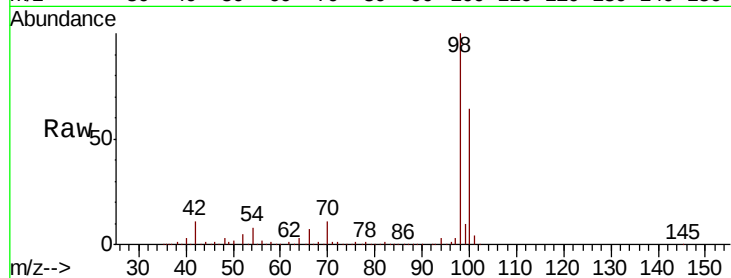
ClientSampled :

Tot Ion: 98 Resp: 284652

Ion Ratio Lower Upper

98 100

100 63.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

200000

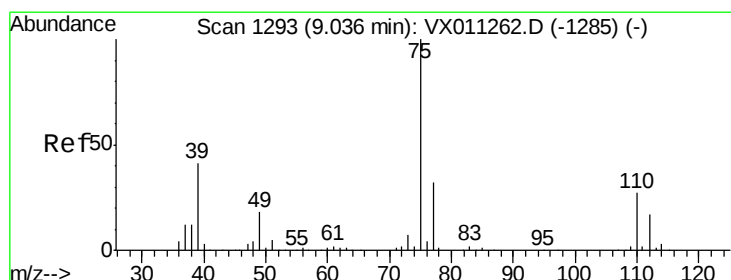
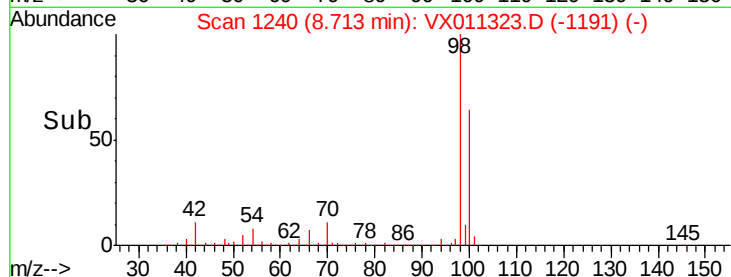
150000

100000

50000

0

Time--> 8.60 8.65 8.70 8.75 8.80



#53

t-1,3-Dichloropropene

Concen: 2.881 ug/l

RT: 9.05 min Scan# 1295

Delta R.T. 0.01 min

Lab File: VX011323.D

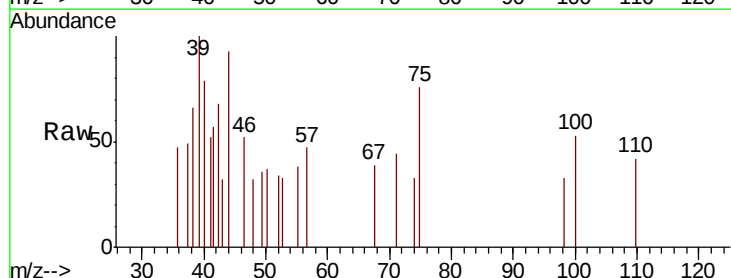
Acq: 05 Aug 2019 12:00

Tgt Ion: 75 Resp: 102

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

9.05

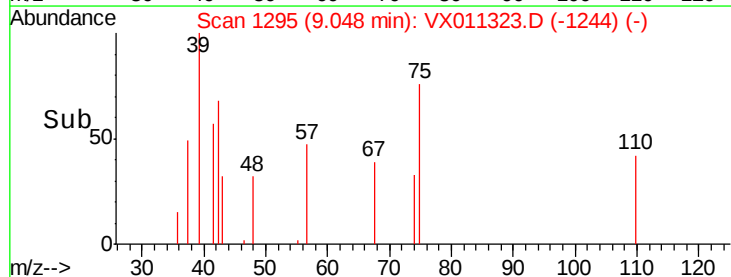
150

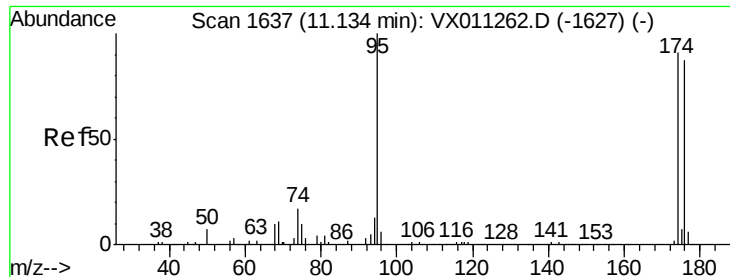
100

50

0

Time--> 9.02 9.04 9.06

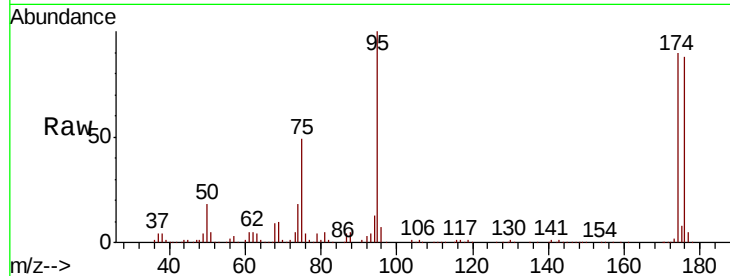




#62
4-Bromofluorobenzene
Concen: 47.054 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011323.D
Acq: 05 Aug 2019 12:00

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	95	Resp	95388
Ion	Ratio	Lower	Upper
95	100		
174	94.0	0.0	191.2
176	91.5	0.0	184.8

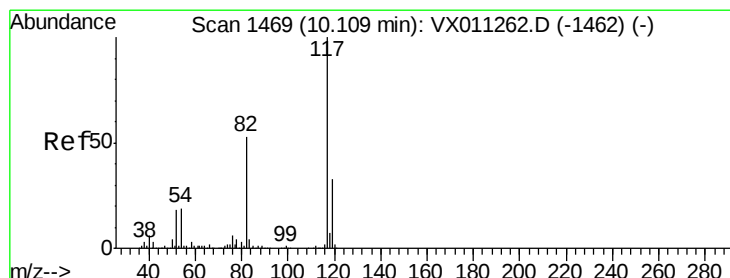
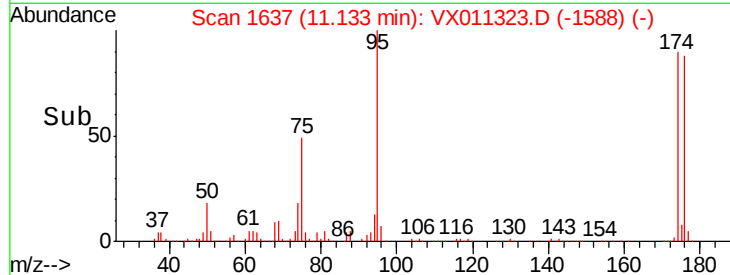
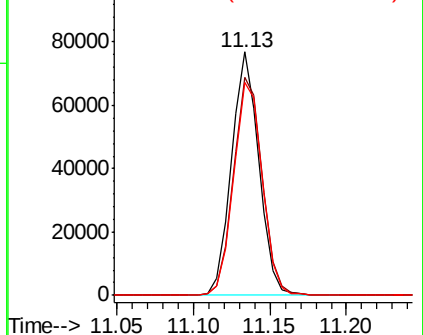


Abundance

Ion 94.90 (94.60 to 95.60): VX011262.D (-1627) (-)

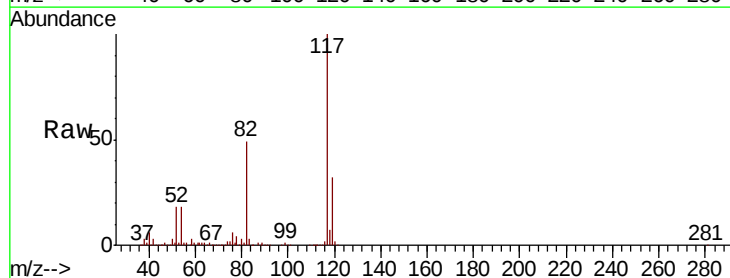
Ion 173.80 (173.50 to 174.50): VX011262.D (-1627) (-)

Ion 175.80 (175.50 to 176.50): VX011262.D (-1627) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011323.D
Acq: 05 Aug 2019 12:00

Tgt Ion	117	Resp	218438
Ion	Ratio	Lower	Upper
117	100		
82	49.4	42.2	63.2
119	31.7	26.6	39.8

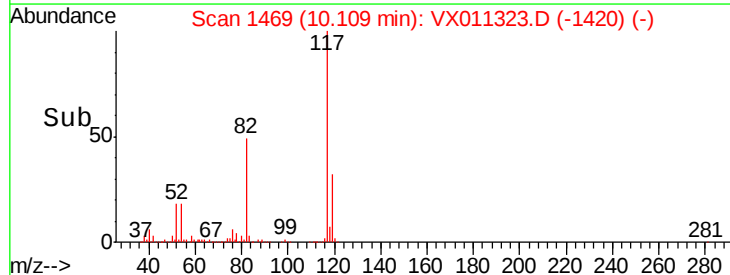
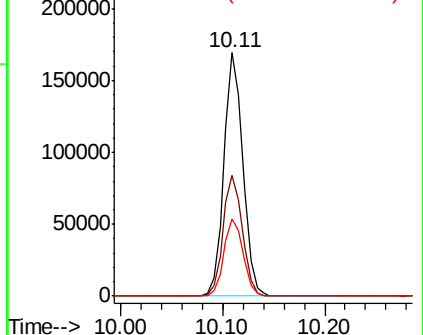


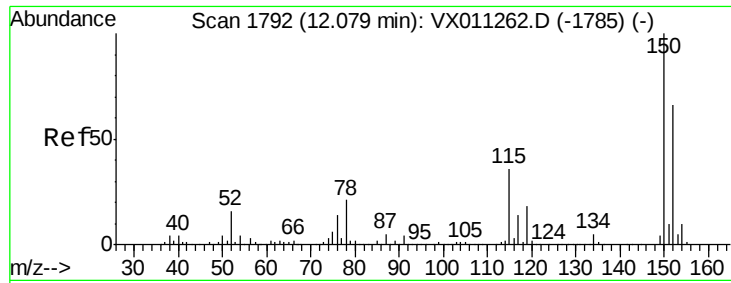
Abundance

Ion 116.90 (116.60 to 117.60): VX011262.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX011262.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX011262.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX011323.D

Acq: 05 Aug 2019 12:00

Instrument :

MSVOA_X

ClientSampleId :

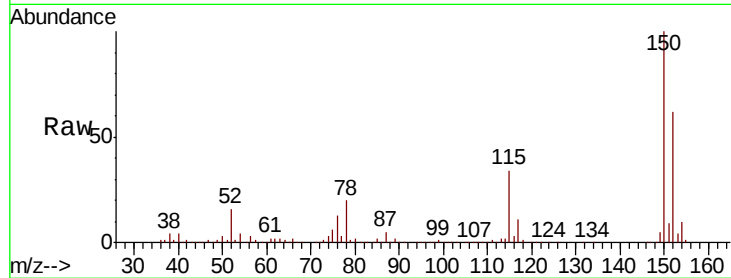
Tot Ion:152 Resp: 98296

Ion Ratio Lower Upper

152 100

115 55.1 40.0 119.9

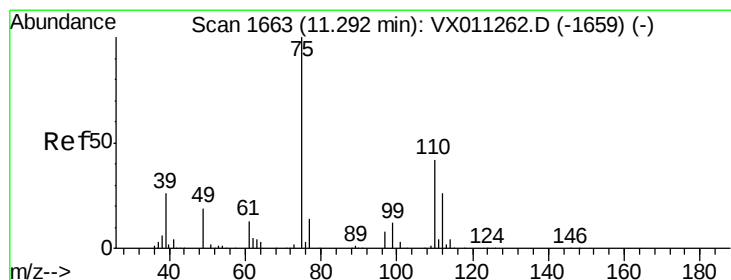
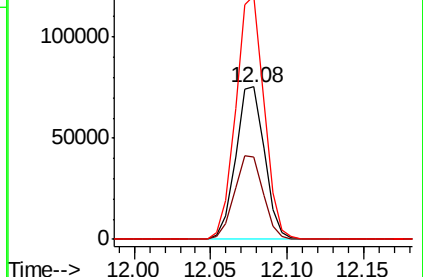
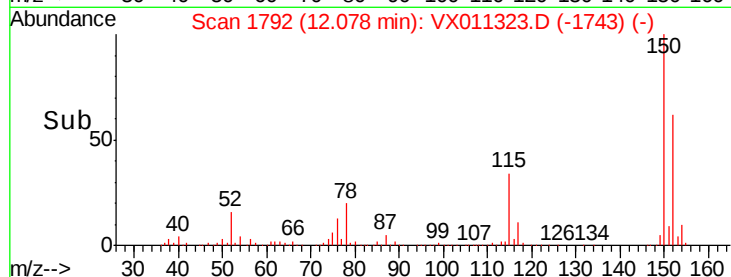
150 157.3 0.0 350.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.358 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011323.D

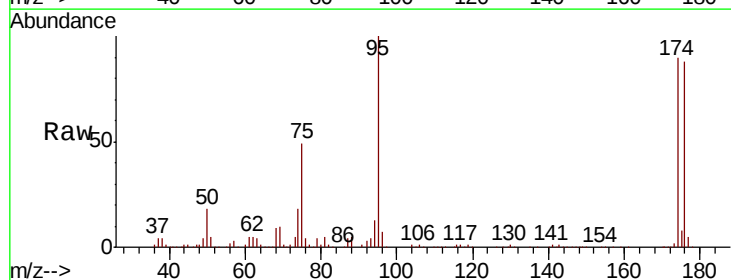
Acq: 05 Aug 2019 12:00

Tgt Ion: 75 Resp: 47183

Ion Ratio Lower Upper

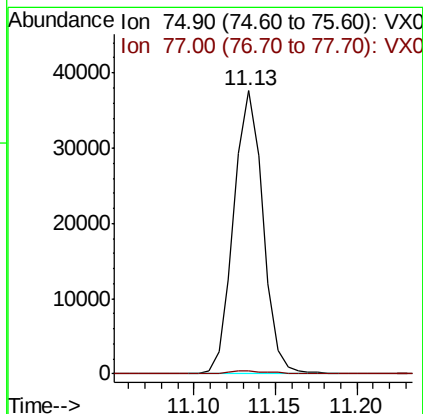
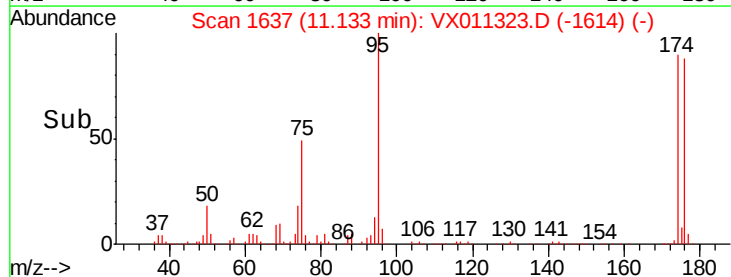
75 100

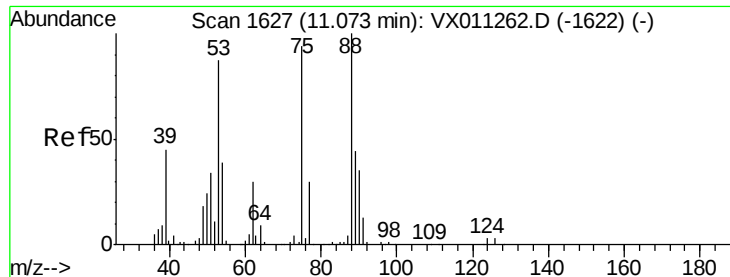
77 1.4 21.1 63.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 68.537 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011323.D

Acq: 05 Aug 2019 12:00

Instrument :

MSVOA_X

ClientSampled :

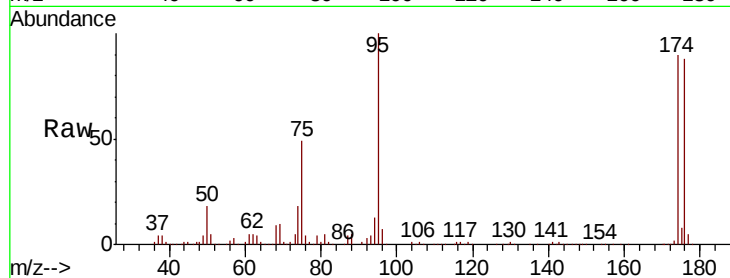
Tot Ion: 75 Resp: 47183

Ion Ratio Lower Upper

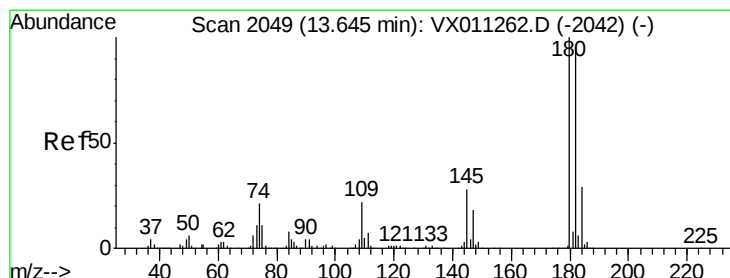
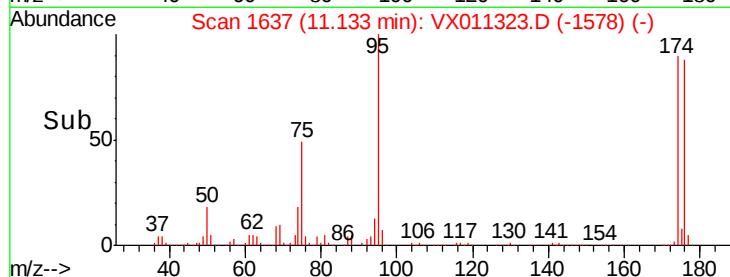
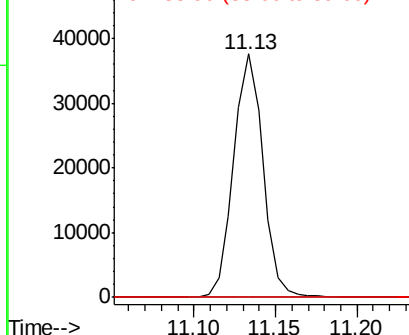
75 100

53 0.2 78.2 117.4#

89 0.0 37.9 56.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#93

1,2,4-Trichlorobenzene

Concen: 0.209 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. -0.00 min

Lab File: VX011323.D

Acq: 05 Aug 2019 12:00

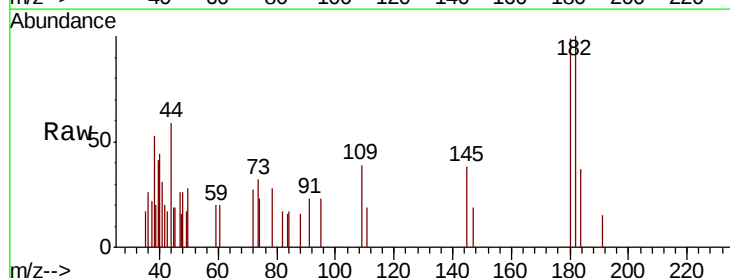
Tgt Ion: 180 Resp: 459

Ion Ratio Lower Upper

180 100

182 100.4 47.8 143.4

145 34.6 14.8 44.3



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

