

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102418\
 Data File : VX005561.D
 Acq On : 25 Oct 2018 00:58
 Operator : JC/MD
 Sample : J5198-22
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CL-01-102318-A

Quant Time: Oct 25 05:56:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 13:13:34 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	206270	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	312565	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	287859	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	131990	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	130290	51.75	ug/l	0.00
Spiked Amount			Recovery	=	103.50%	
35) Dibromofluoromethane	5.50	113	102038	48.21	ug/l	0.00
Spiked Amount			Recovery	=	96.42%	
50) Toluene-d8	8.71	98	379499	49.90	ug/l	0.00
Spiked Amount			Recovery	=	99.80%	
62) 4-Bromofluorobenzene	11.14	95	123538	43.02	ug/l	0.00
Spiked Amount			Recovery	=	86.04%	

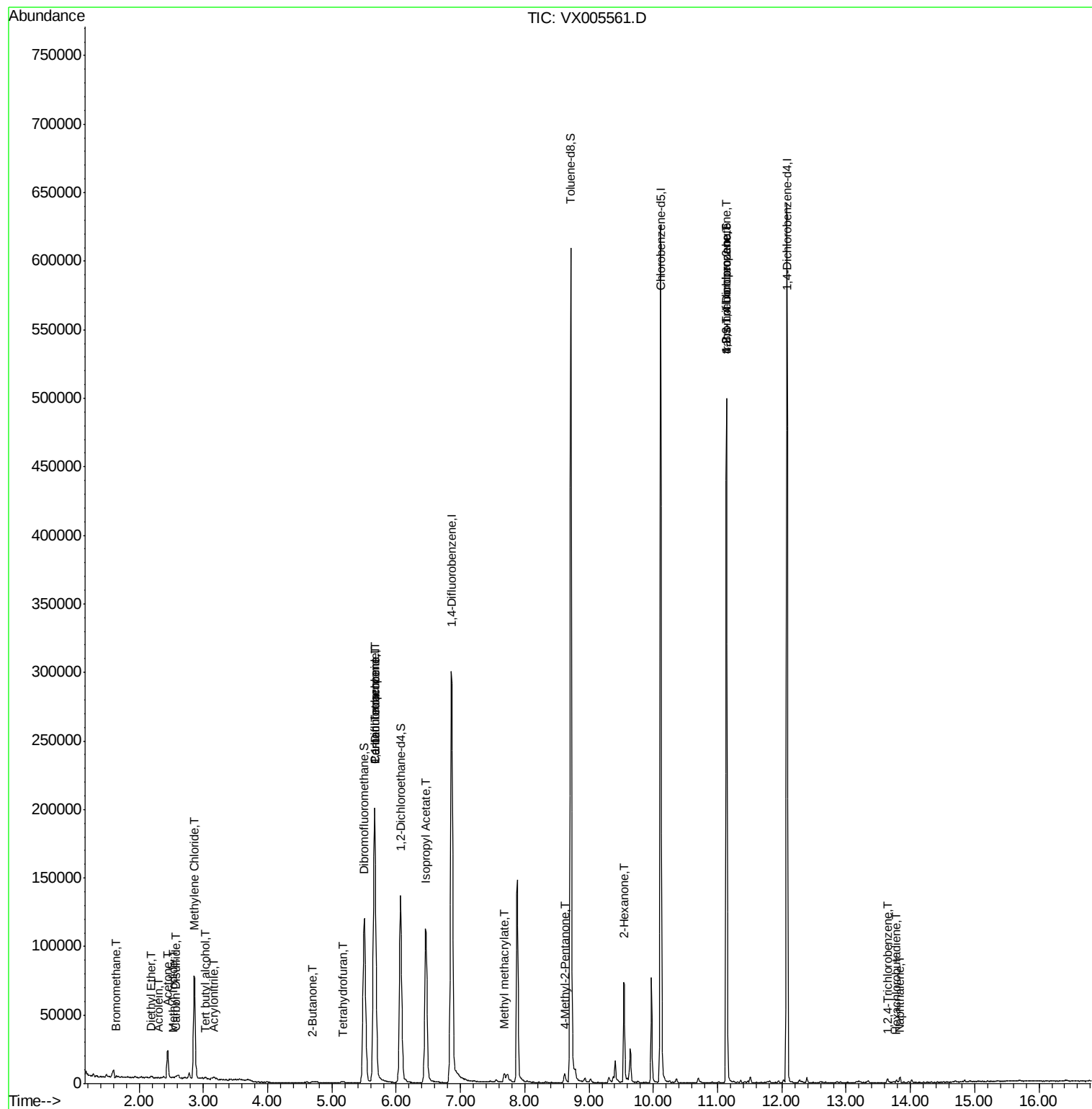
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	601	0.379	ug/l #	76
8) Diethyl Ether	2.19	74	522	0.369	ug/l	90
10) Methyl Iodide	2.52	142	730	3.050	ug/l #	88
11) Tert butyl alcohol	3.02	59	630	0.930	ug/l #	94
13) Acrolein	2.29	56	223	0.645	ug/l #	1
15) Acrylonitrile	3.15	53	641	0.422	ug/l #	79
16) Acetone	2.45	43	21672	16.289	ug/l	99
17) Carbon Disulfide	2.57	76	2183	0.370	ug/l	95
18) Methyl Acetate	2.78	43	4466	Below Cal		100
20) Methylene Chloride	2.86	84	33955	15.238	ug/l	98
25) 2-Butanone	4.70	43	2110	1.041	ug/l	97
29) Tetrahydrofuran	5.16	42	1063	0.806	ug/l #	85
36) 1,1-Dichloropropene	5.66	75	15140	4.991	ug/l #	49
38) Carbon Tetrachloride	5.67	117	18645	5.836	ug/l #	15
43) Isopropyl Acetate	6.46	43	154357	26.612	ug/l	94
48) Methyl methacrylate	7.68	41	6053	2.142	ug/l #	22
51) 4-Methyl-2-Pentanone	8.62	43	3164	0.812	ug/l #	34
59) 2-Hexanone	9.55	43	8817	2.869	ug/l #	54
76) 1,2,3-Trichloropropane	11.14	75	62932	23.408	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	62932	73.530	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.65	180	812	0.262	ug/l	92
94) Hexachlorobutadiene	13.79	225	326	0.203	ug/l	94
95) Naphthalene	13.83	128	2699	0.299	ug/l	99

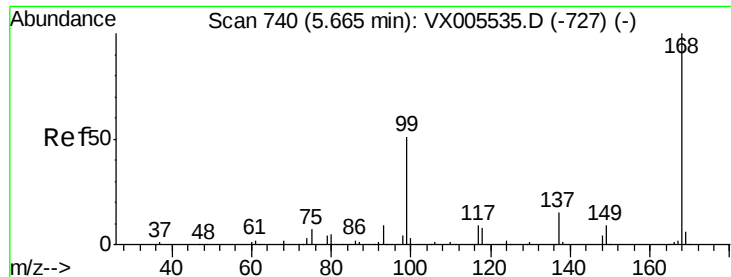
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX102418\
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Acq On : 25 Oct 2018 00:58
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Quant Time: Oct 25 05:56:36 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 24 13:13:34 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005561.D

Acq: 25 Oct 2018 00:58

Instrument :

MSVOA_X

ClientSampleId :

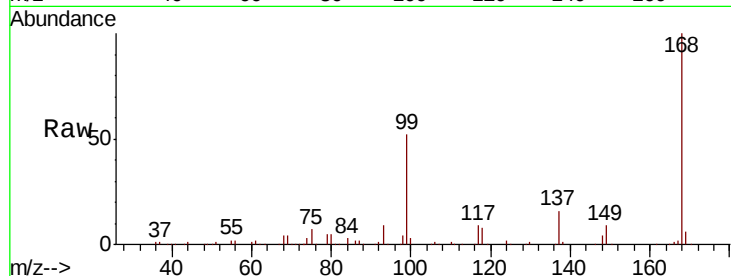
CL-01-102318-A

Tot Ion:168 Resp: 206270

Ion Ratio Lower Upper

168 100

99 52.3 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

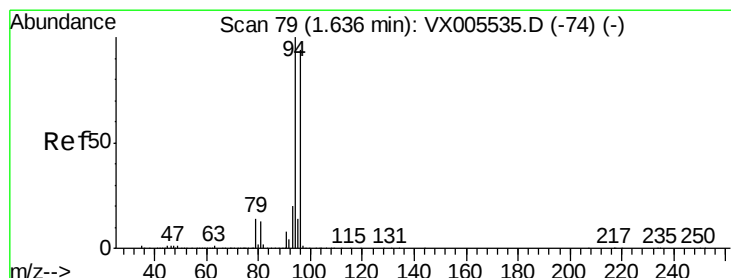
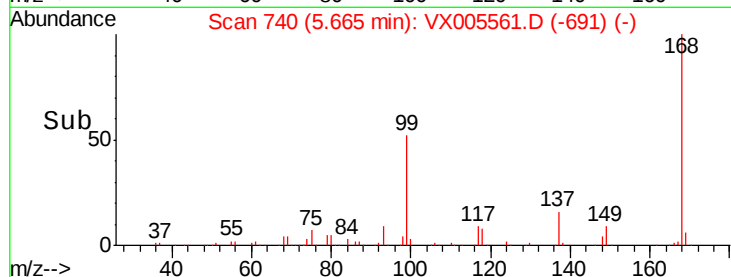
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: 0.379 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX005561.D

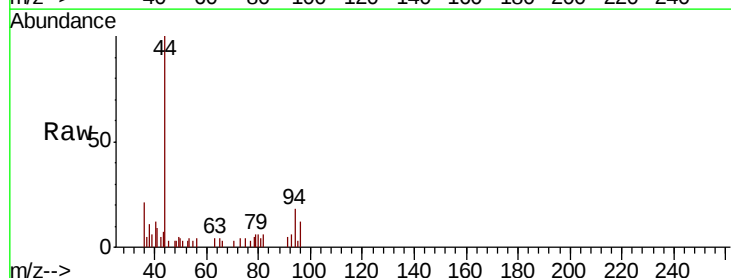
Acq: 25 Oct 2018 00:58

Tgt Ion: 94 Resp: 601

Ion Ratio Lower Upper

94 100

96 70.5 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

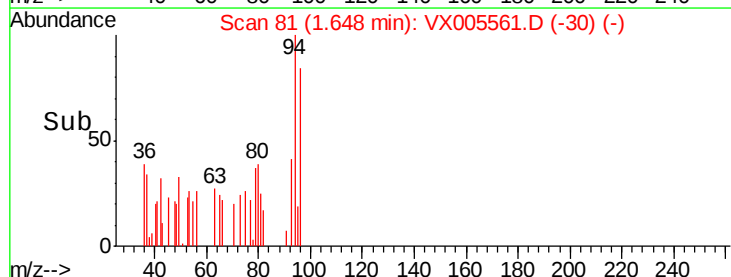
300

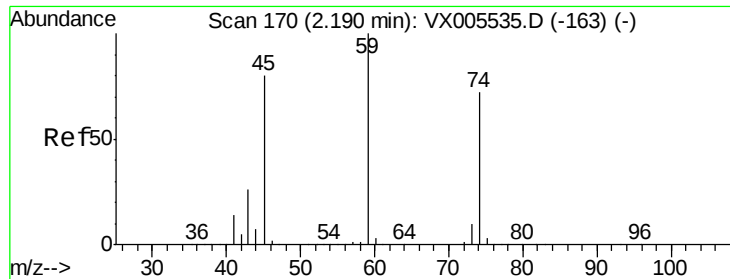
200

100

0

Time--> 1.60 1.65 1.70





#8

Diethyl Ether

Concen: 0.369 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX005561.D

Acq: 25 Oct 2018 00:58

Instrument :

MSVOA_X

ClientSampleId :

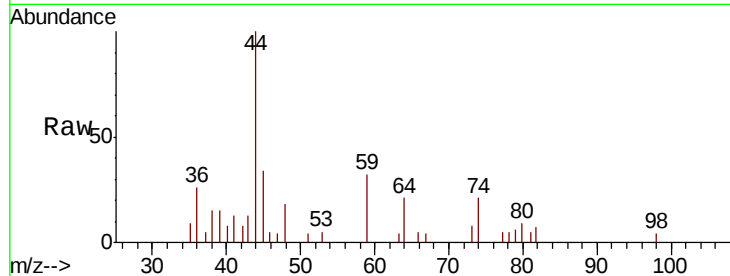
CL-01-102318-A

Tot Ion: 74 Resp: 522

Ion Ratio Lower Upper

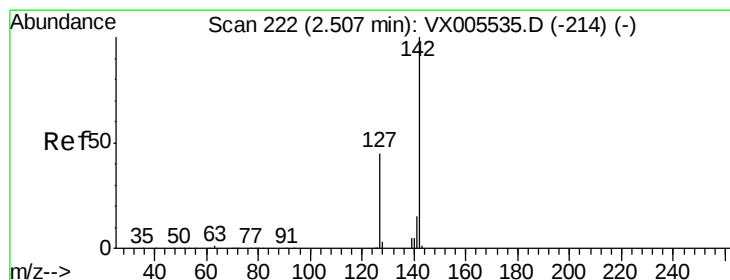
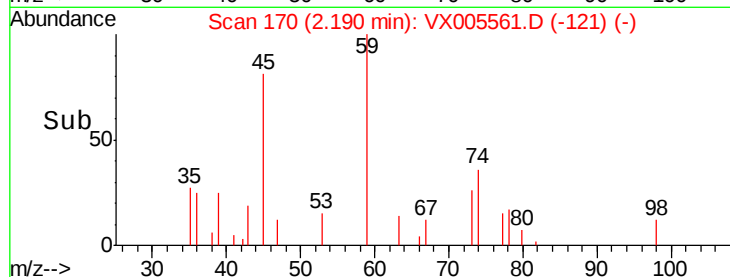
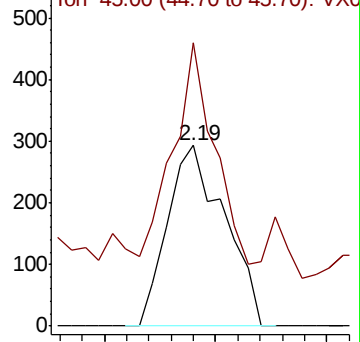
74 100

45 87.0 48.3 144.8



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 3.050 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005561.D

Acq: 25 Oct 2018 00:58

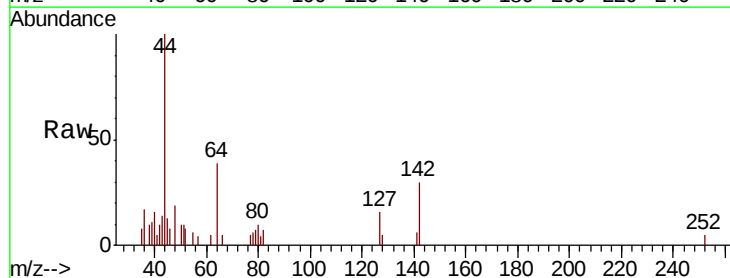
Tgt Ion: 142 Resp: 730

Ion Ratio Lower Upper

142 100

127 51.2 33.8 50.6#

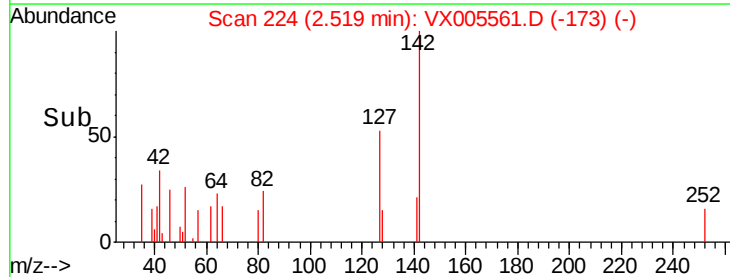
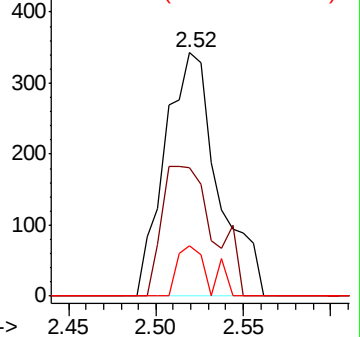
141 12.2 11.4 17.0

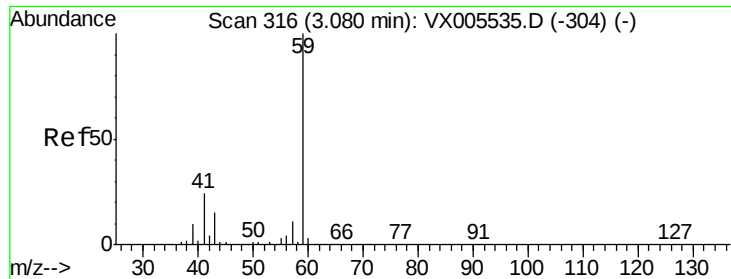


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

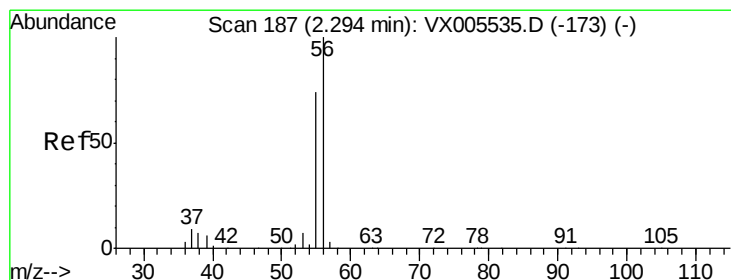
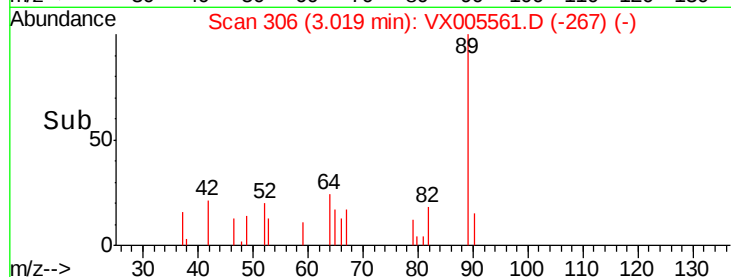
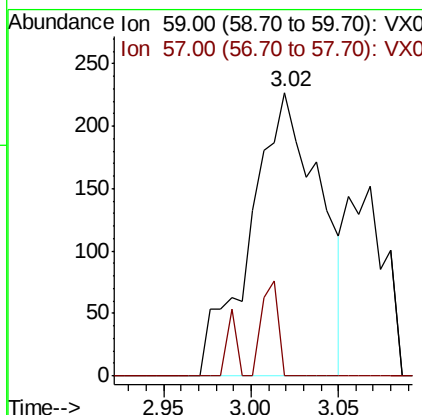
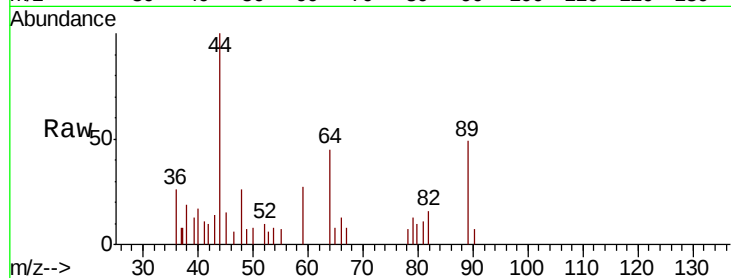




#11
Tert butyl alcohol
Concen: 0.930 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005561.D
Acq: 25 Oct 2018 00:58

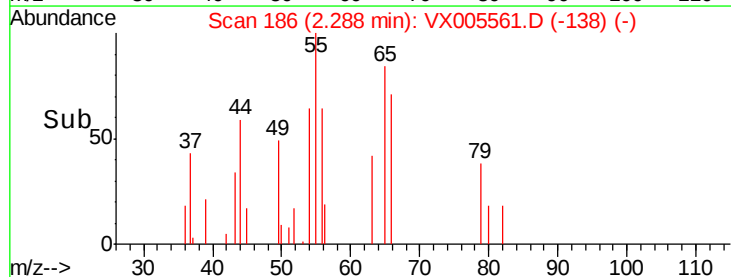
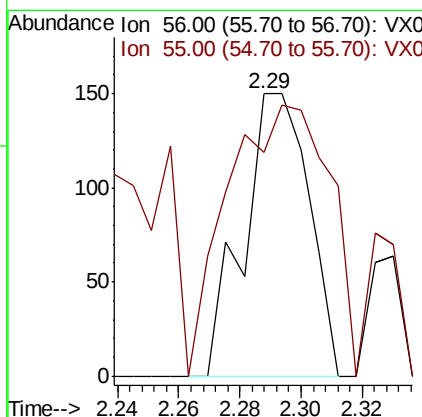
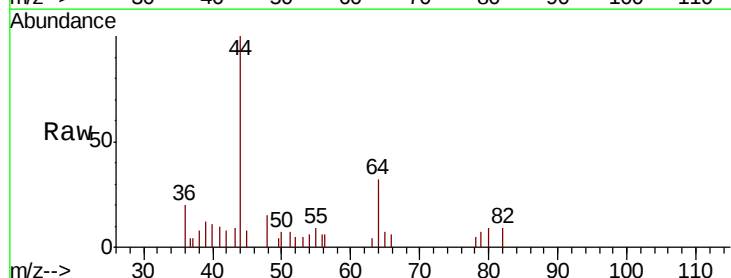
Instrument :
MSVOA_X
ClientSampleId :
CL-01-102318-A

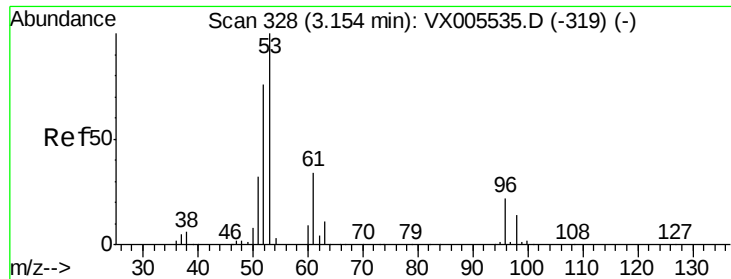
Tot Ion: 59 Resp: 630
Ion Ratio Lower Upper
59 100
57 8.1 8.2 12.4#



#13
Acrolein
Concen: 0.645 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX005561.D
Acq: 25 Oct 2018 00:58

Tgt Ion: 56 Resp: 223
Ion Ratio Lower Upper
56 100
55 149.3 54.7 82.1#





#15

Acrylonitrile

Concen: 0.422 ug/l

RT: 3.15 min Scan# 328

Delta R.T. -0.00 min

Lab File: VX005561.D

Acq: 25 Oct 2018 00:58

Instrument :

MSVOA_X

ClientSampleId :

CL-01-102318-A

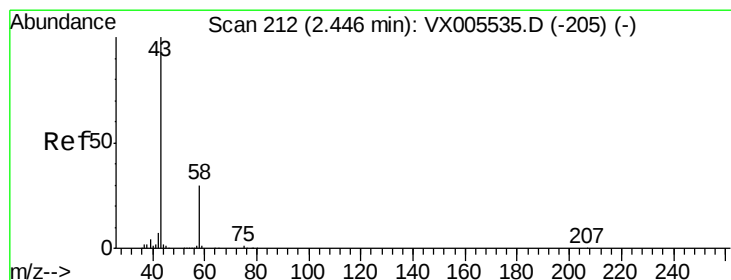
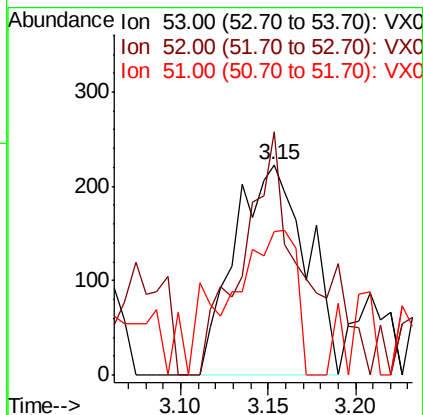
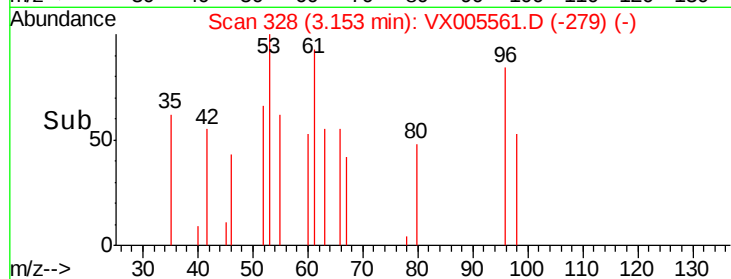
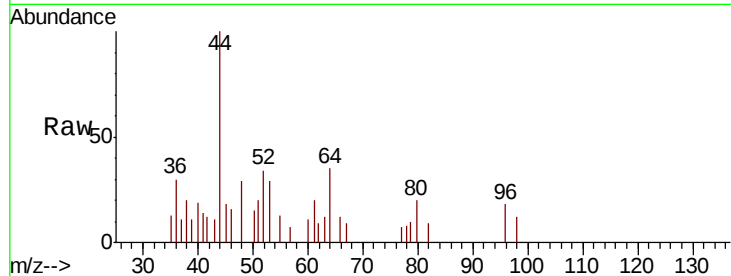
Tot Ion: 53 Resp: 641

Ion Ratio Lower Upper

53 100

52 98.8 65.2 97.8#

51 49.9 28.2 42.2#



#16

Acetone

Concen: 16.289 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005561.D

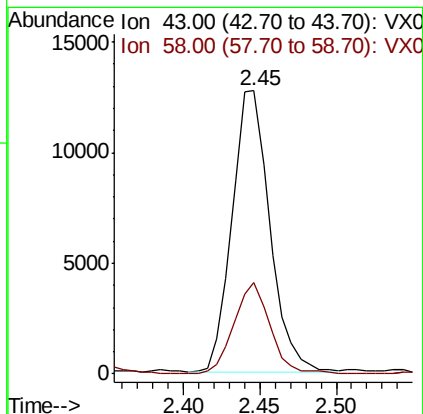
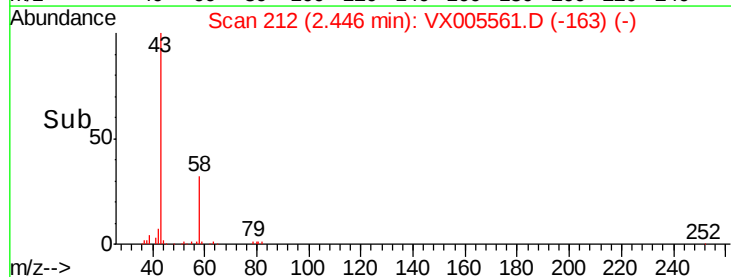
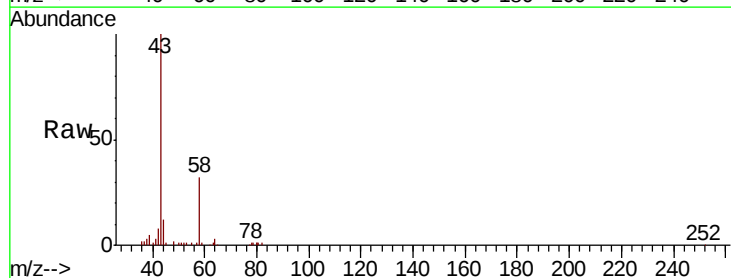
Acq: 25 Oct 2018 00:58

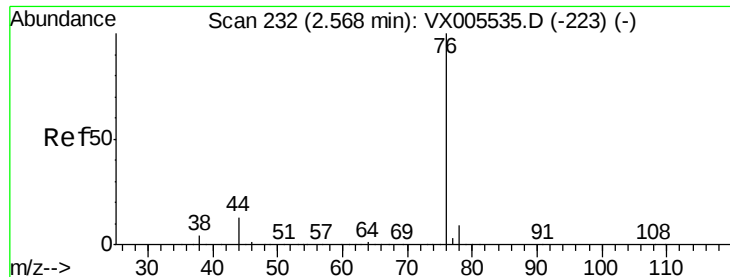
Tgt Ion: 43 Resp: 21672

Ion Ratio Lower Upper

43 100

58 32.4 26.2 39.4





#17

Carbon Disulfide

Concen: 0.370 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX005561.D

Acq: 25 Oct 2018 00:58

Instrument :

MSVOA_X

ClientSampleId :

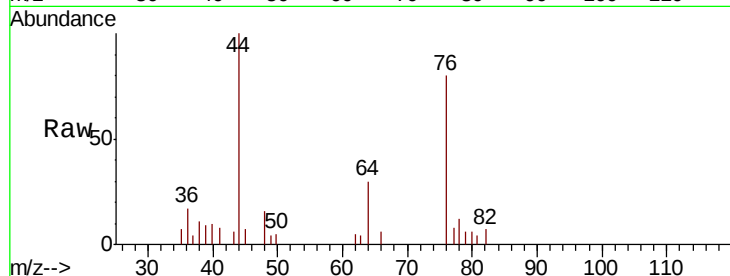
CL-01-102318-A

Tot Ion: 76 Resp: 2183

Ion Ratio Lower Upper

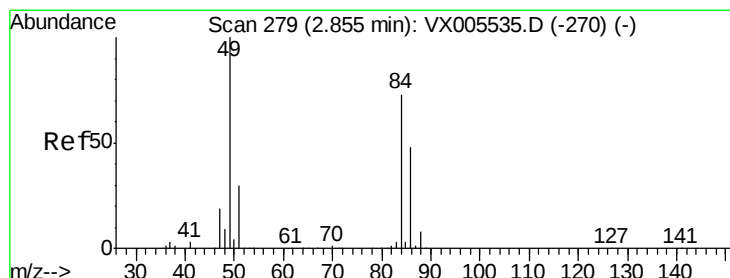
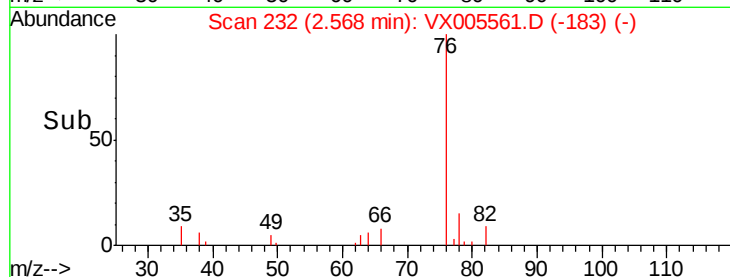
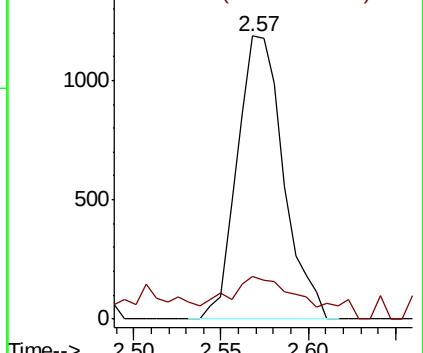
76 100

78 10.5 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 15.238 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX005561.D

Acq: 25 Oct 2018 00:58

Tgt Ion: 84 Resp: 33955

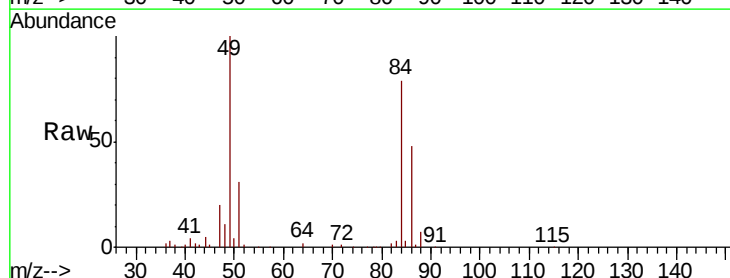
Ion Ratio Lower Upper

84 100

49 126.5 101.2 151.8

51 39.4 29.5 44.3

86 61.2 52.3 78.5

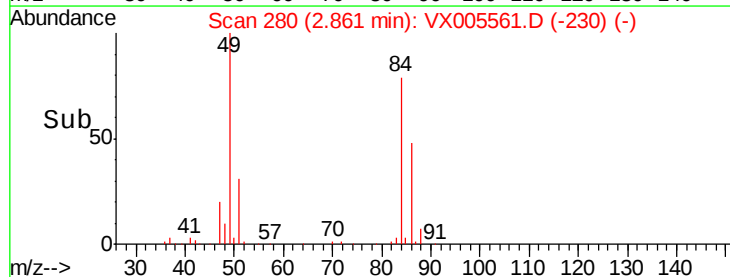
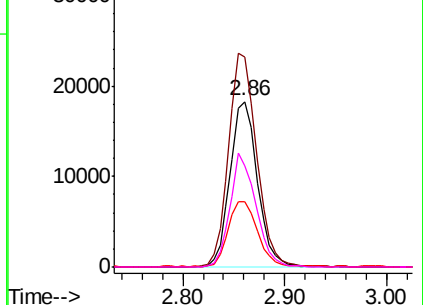


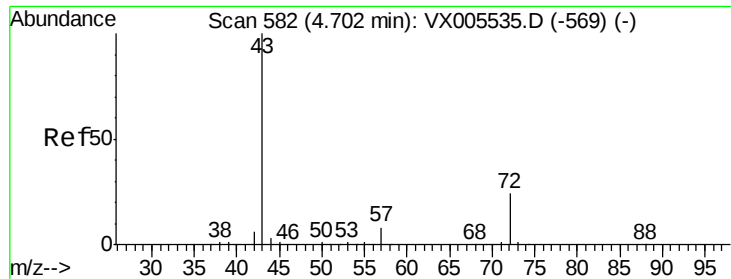
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 1.041 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX005561.D

Acq: 25 Oct 2018 00:58

Instrument :

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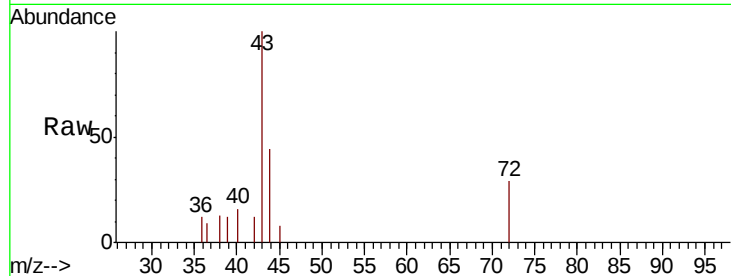
CL-01-102318-A

Tot Ion: 43 Resp: 2110

Ion Ratio Lower Upper

43 100

72 28.9 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.70

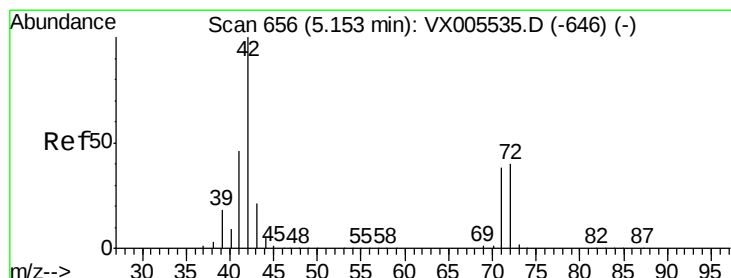
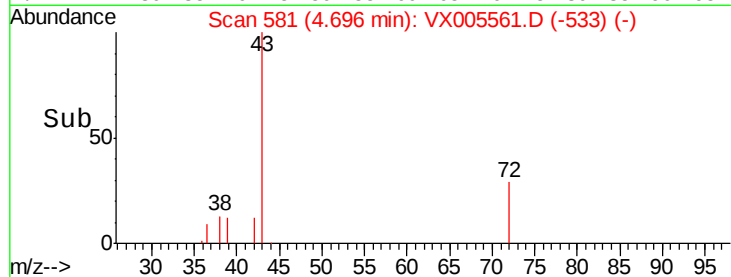
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: 0.806 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005561.D

Acq: 25 Oct 2018 00:58

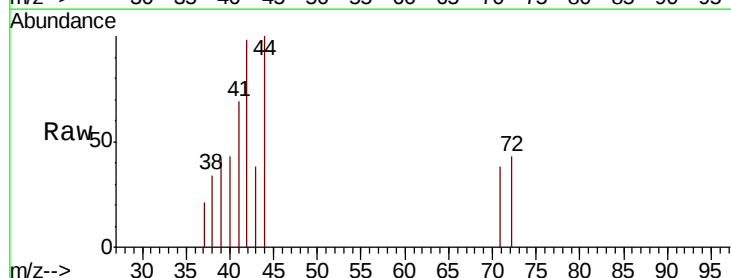
Tgt Ion: 42 Resp: 1063

Ion Ratio Lower Upper

42 100

72 33.5 37.4 56.0#

71 37.4 34.5 51.7



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

400

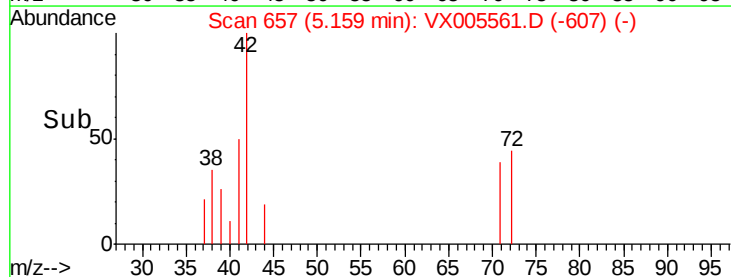
300

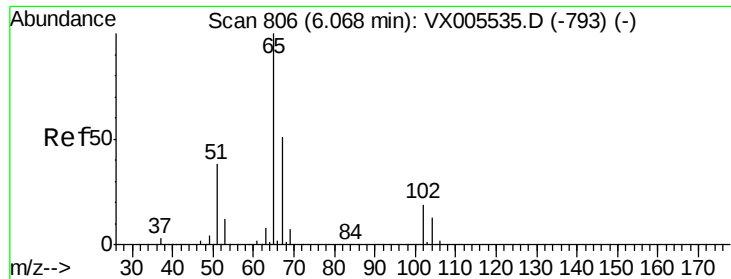
200

100

0

Time-->

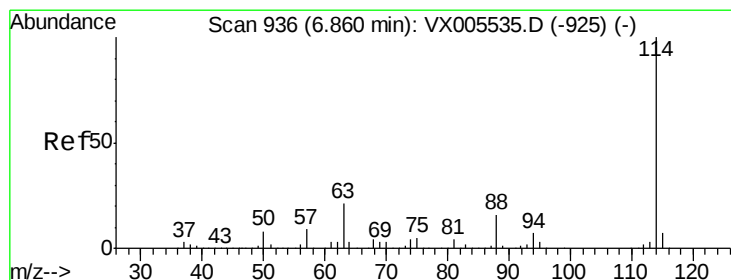
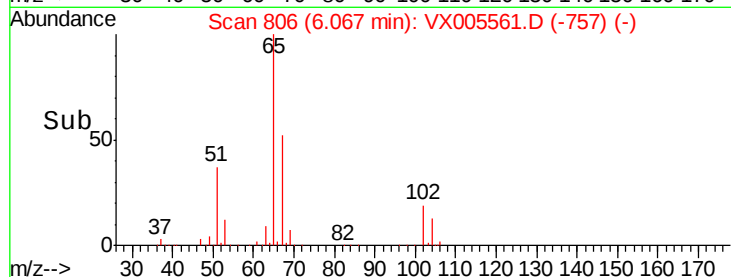
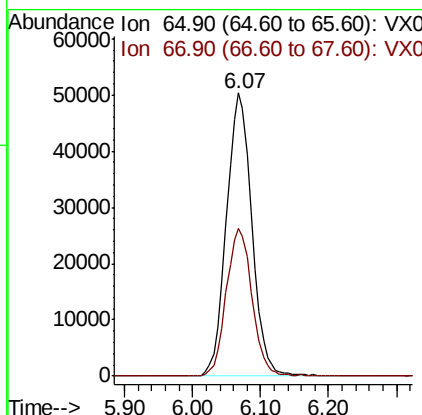
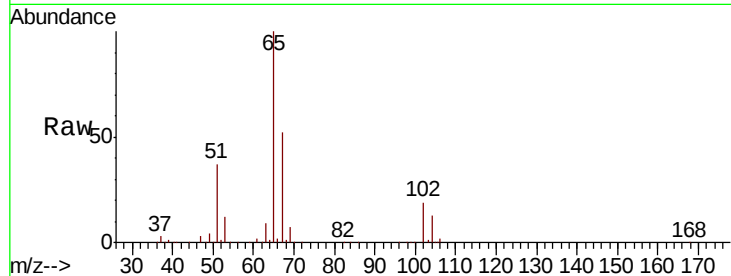




#33
 1,2-Dichloroethane-d4
 Concen: 51.745 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX005561.D
 Acq: 25 Oct 2018 00:58

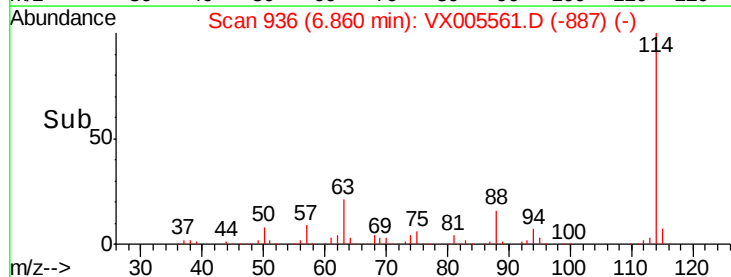
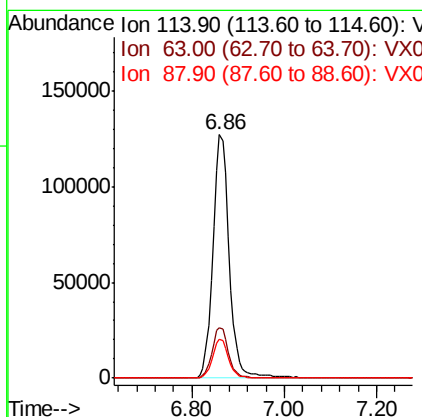
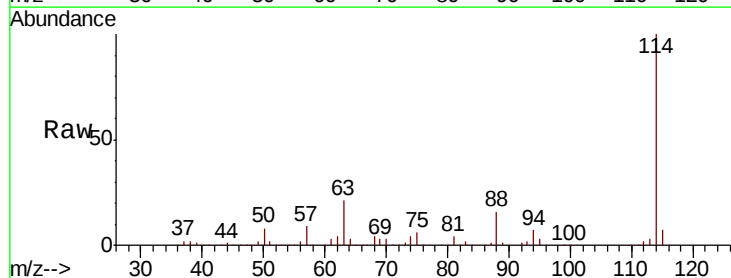
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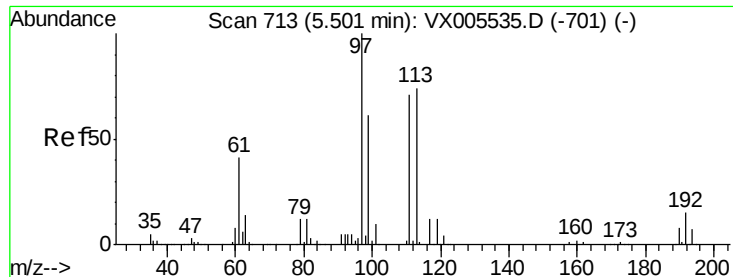
Tot Ion: 65 Resp: 130290
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005561.D
 Acq: 25 Oct 2018 00:58

Tgt Ion: 114 Resp: 312565
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 39.0
 88 15.9 0.0 30.4

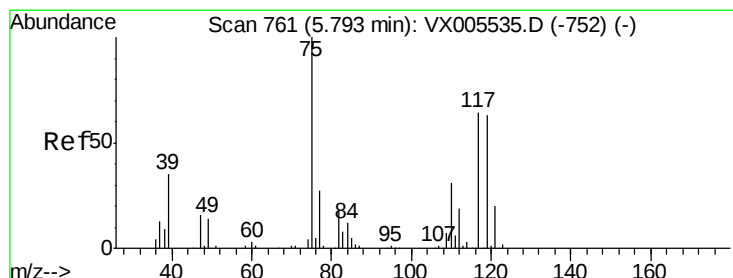
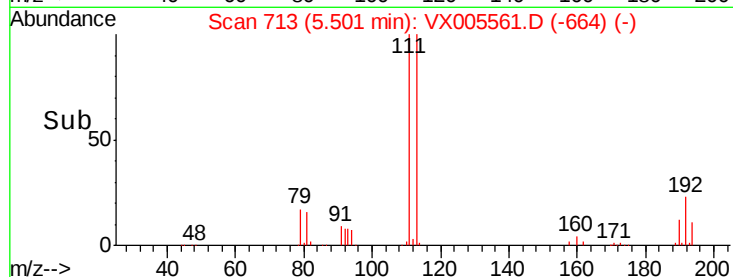
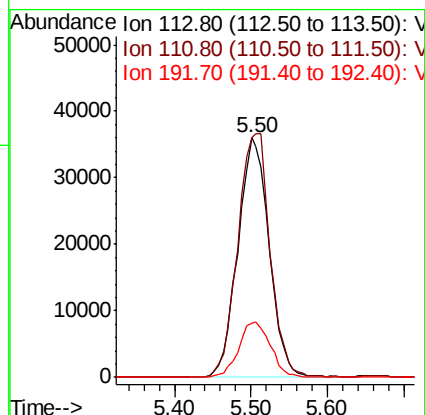
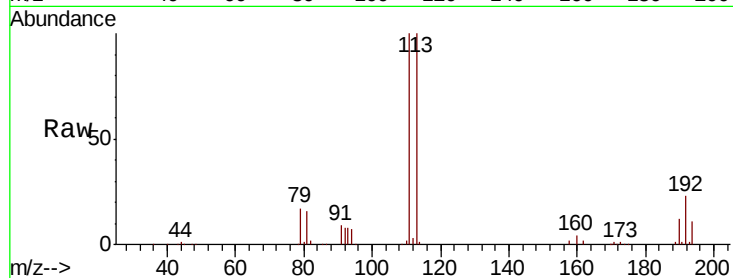




#35
 Dibromofluoromethane
 Concen: 48.212 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005561.D
 Acq: 25 Oct 2018 00:58

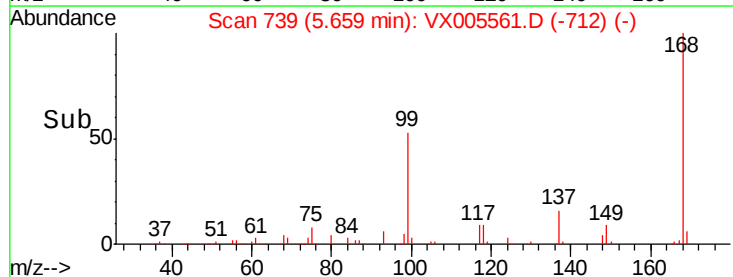
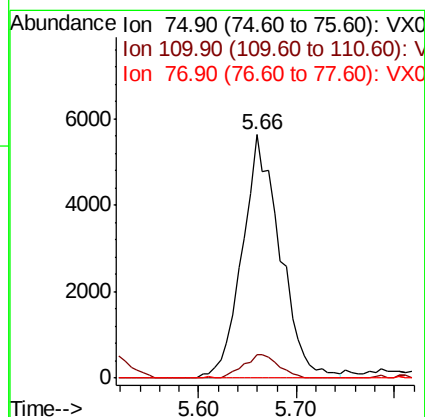
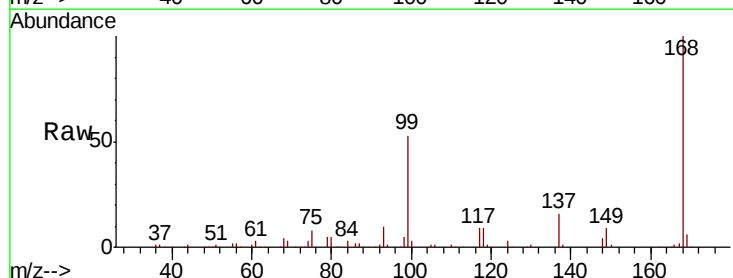
Instrument :
 MSVOA_X
 ClientSampleId :
 CL-01-102318-A

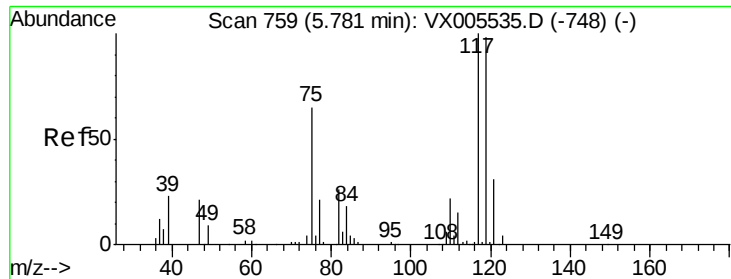
Tot Ion:113 Resp: 102038
 Ion Ratio Lower Upper
 113 100
 111 105.1 82.4 123.6
 192 23.7 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 4.991 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX005561.D
 Acq: 25 Oct 2018 00:58

Tgt Ion: 75 Resp: 15140
 Ion Ratio Lower Upper
 75 100
 110 8.8 18.0 54.0#
 77 0.0 24.6 36.8#

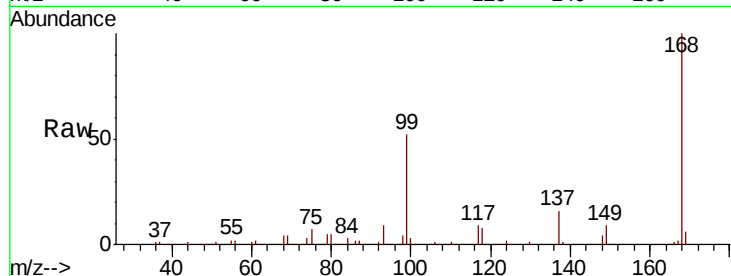




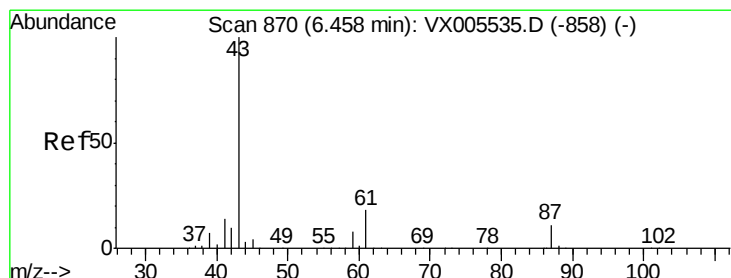
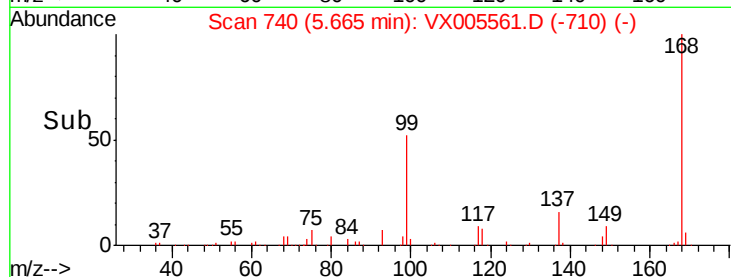
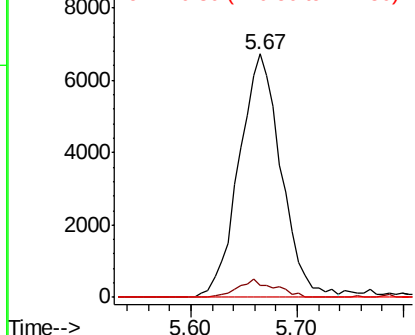
#38
Carbon Tetrachloride
Concen: 5.836 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX005561.D
Acq: 25 Oct 2018 00:58

Instrument :
MSVOA_X
ClientSampleId :
CL-01-102318-A

Tot Ion:117 Resp: 18645
Ion Ratio Lower Upper
117 100
119 4.9 78.8 118.2#
121 0.0 24.9 37.3#

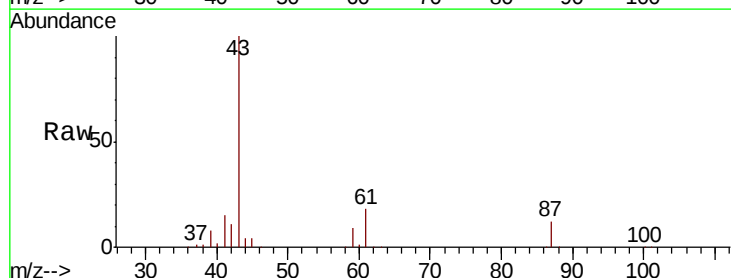


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

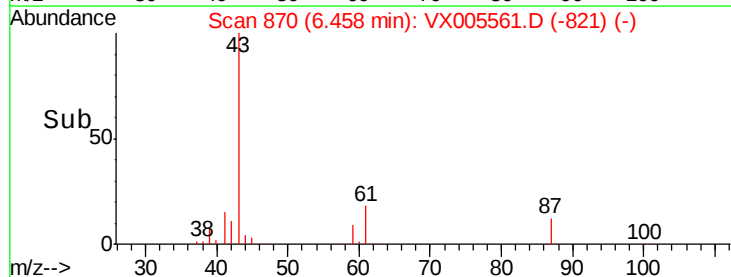
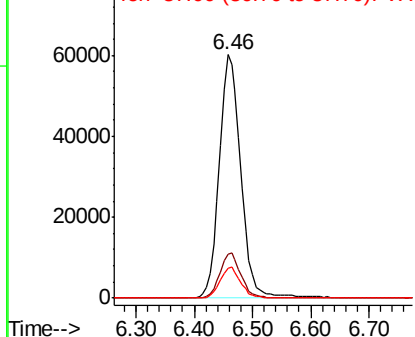


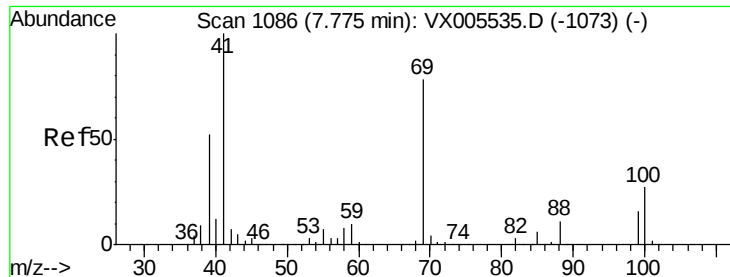
#43
Isopropyl Acetate
Concen: 26.612 ug/l
RT: 6.46 min Scan# 870
Delta R.T. -0.00 min
Lab File: VX005561.D
Acq: 25 Oct 2018 00:58

Tgt Ion: 43 Resp: 154357
Ion Ratio Lower Upper
43 100
61 18.2 17.0 25.4
87 12.2 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0

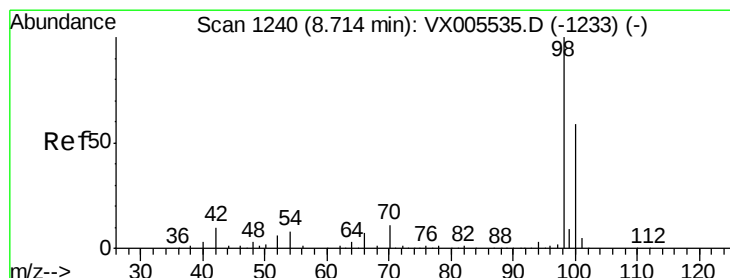
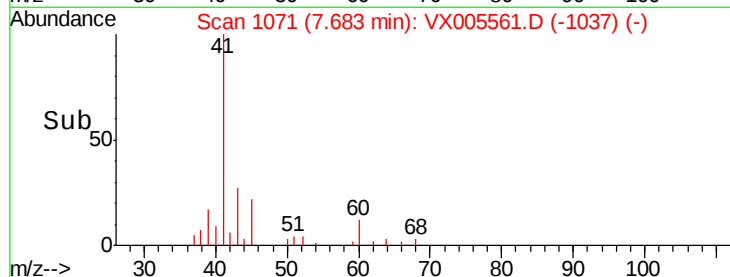
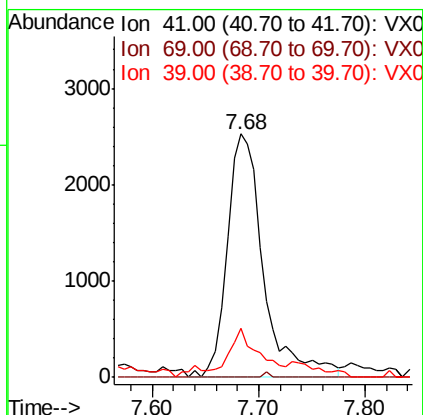
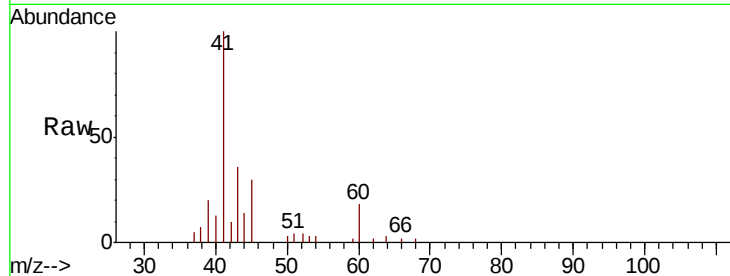




#48
Methvl methacrylate
Concen: 2.142 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX005561.D
Acq: 25 Oct 2018 00:58

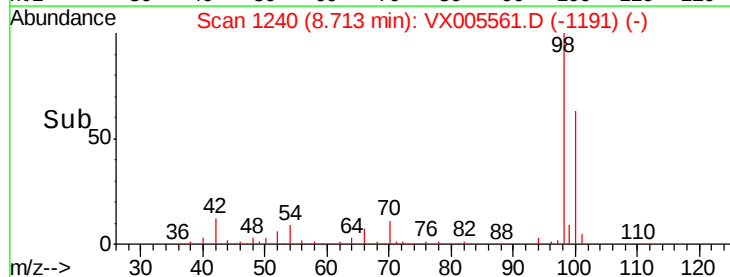
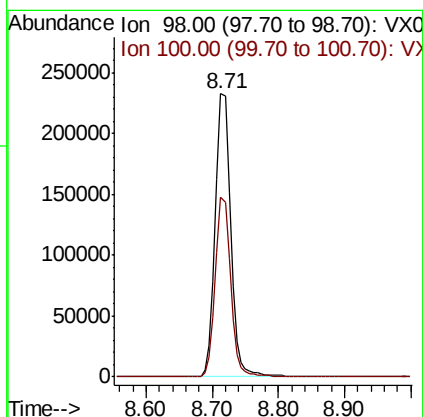
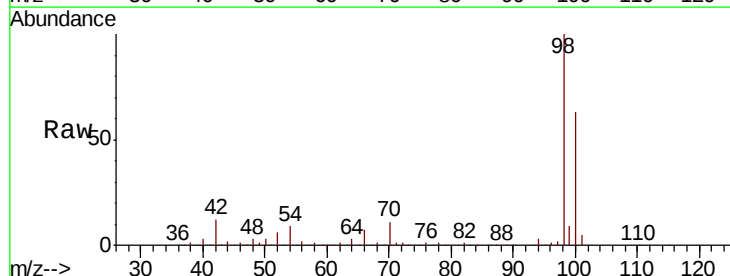
Instrument :
MSVOA_X
ClientSampleId :
CL-01-102318-A

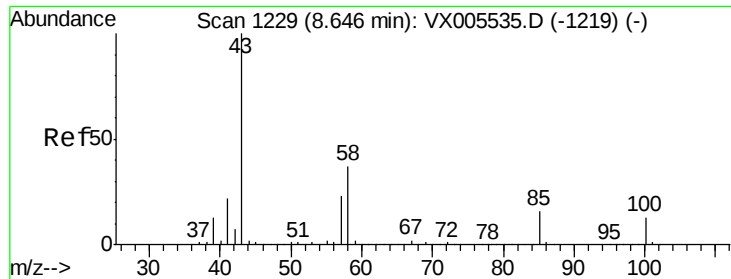
Tot Ion: 41 Resp: 6053
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 16.7 42.7 64.1#



#50
Toluene-d8
Concen: 49.903 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005561.D
Acq: 25 Oct 2018 00:58

Tgt Ion: 98 Resp: 379499
Ion Ratio Lower Upper
98 100
100 62.9 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 0.812 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VX005561.D

Acq: 25 Oct 2018 00:58

Instrument :

MSVOA_X

ClientSampleId :

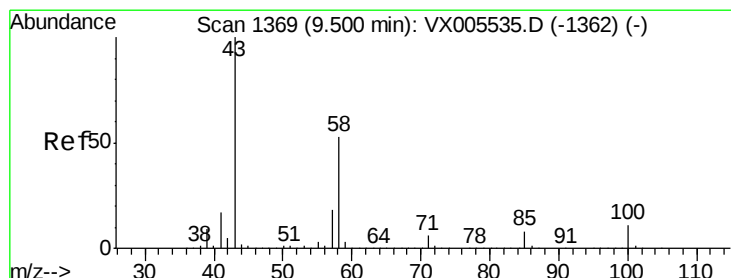
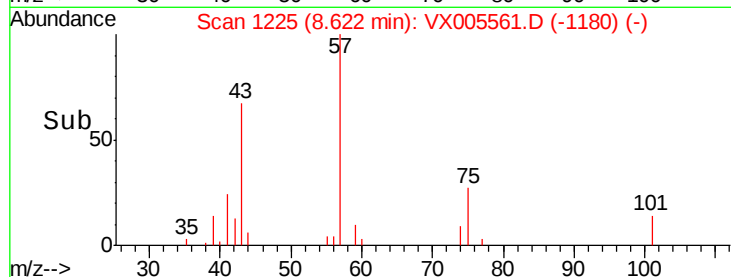
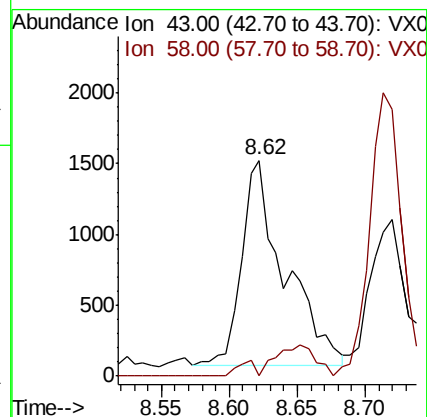
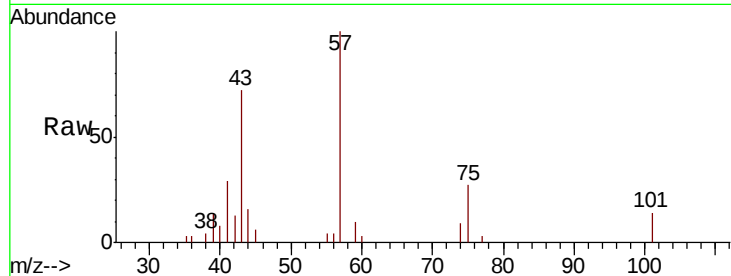
CL-01-102318-A

Tot Ion: 43 Resp: 3164

Ion Ratio Lower Upper

43 100

58 0.0 33.1 49.7#



#59

2-Hexanone

Concen: 2.869 ug/l

RT: 9.55 min Scan# 1377

Delta R.T. 0.05 min

Lab File: VX005561.D

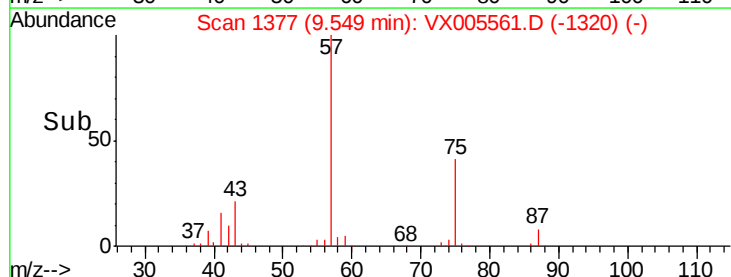
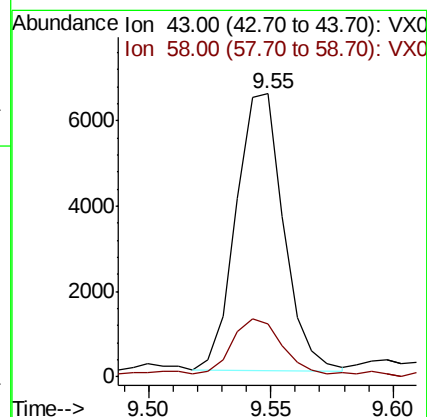
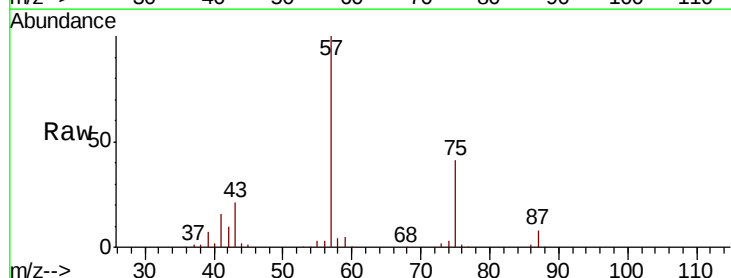
Acq: 25 Oct 2018 00:58

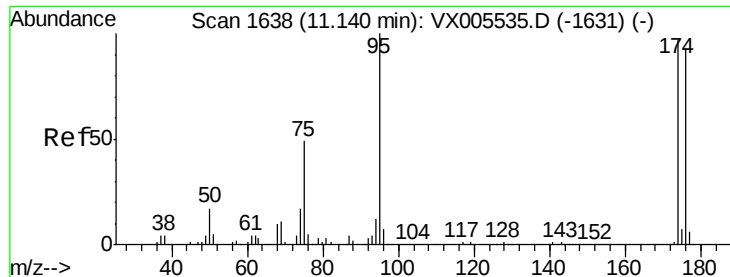
Tgt Ion: 43 Resp: 8817

Ion Ratio Lower Upper

43 100

58 23.5 29.0 87.0#





#62

4-Bromofluorobenzene

Concen: 43.016 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005561.D

Acq: 25 Oct 2018 00:58

Instrument :

MSVOA_X

ClientSampleId :

CL-01-102318-A

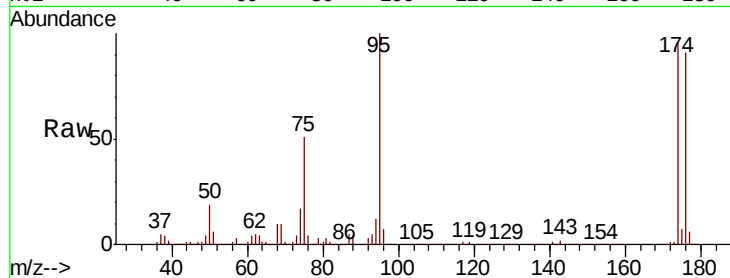
Tot Ion: 95 Resp: 123538

Ion Ratio Lower Upper

95 100

174 94.0 0.0 185.2

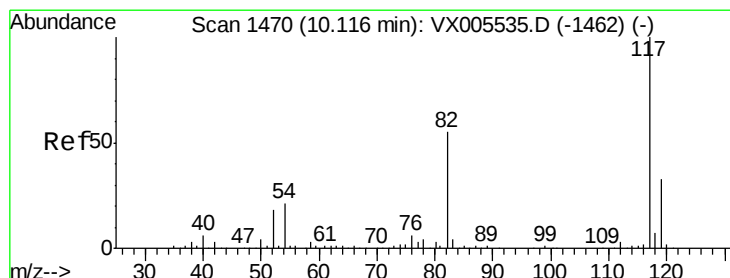
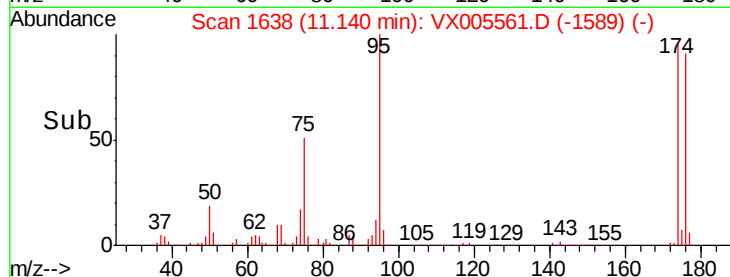
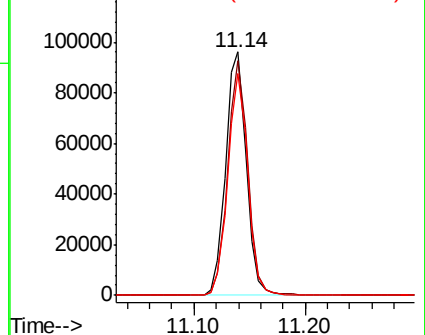
176 88.8 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005561.D

Acq: 25 Oct 2018 00:58

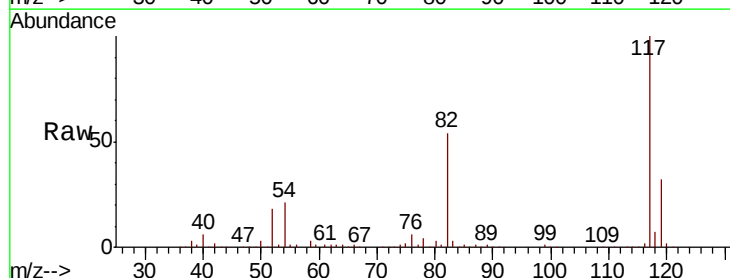
Tgt Ion: 117 Resp: 287859

Ion Ratio Lower Upper

117 100

82 54.1 47.8 71.6

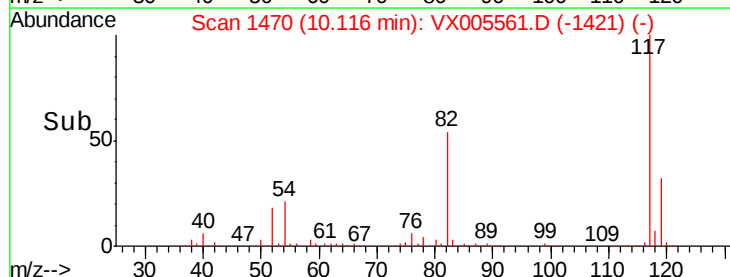
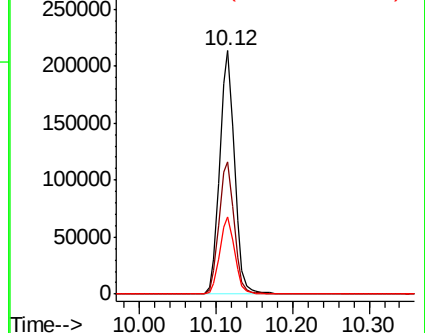
119 31.9 29.3 43.9

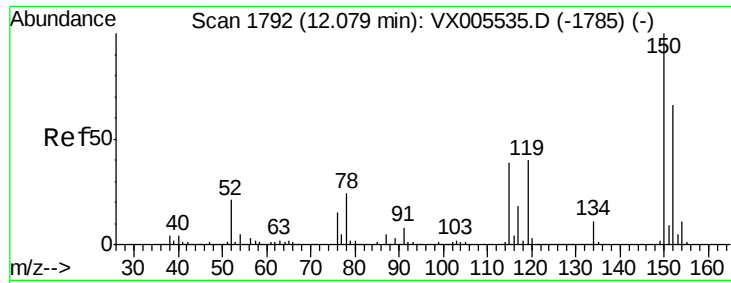


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005561.D

Acq: 25 Oct 2018 00:58

Instrument :

MSVOA_X

ClientSampleId :

CL-01-102318-A

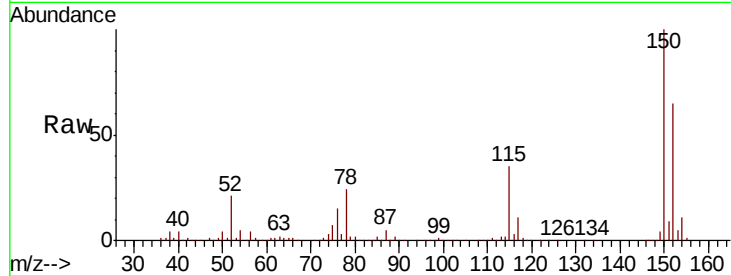
Tot Ion:152 Resp: 131990

Ion Ratio Lower Upper

152 100

115 55.7 39.0 117.0

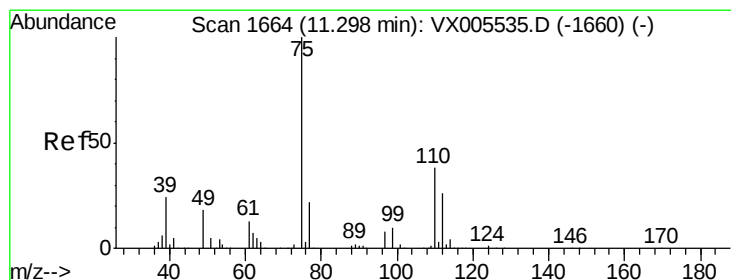
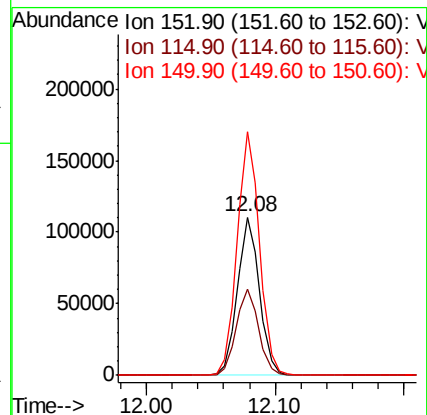
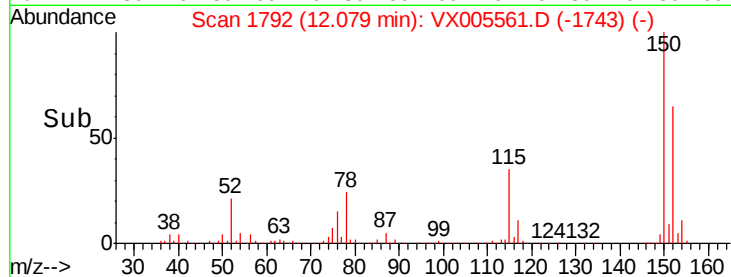
150 156.6 0.0 351.0



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: 23.408 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005561.D

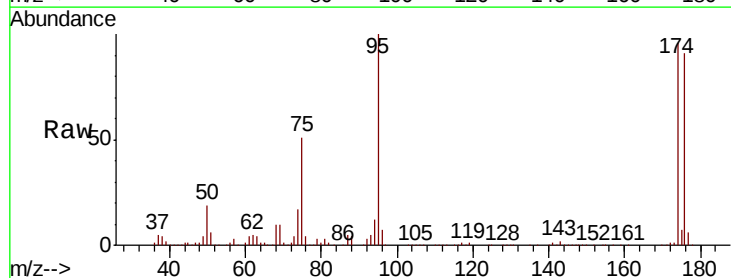
Acq: 25 Oct 2018 00:58

Tgt Ion: 75 Resp: 62932

Ion Ratio Lower Upper

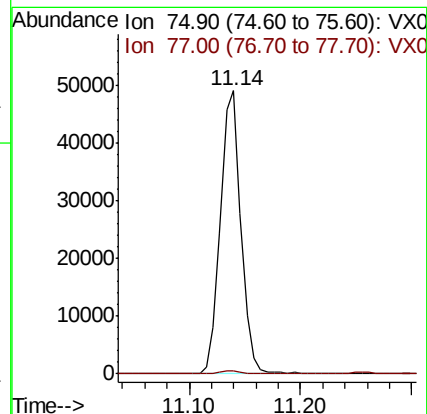
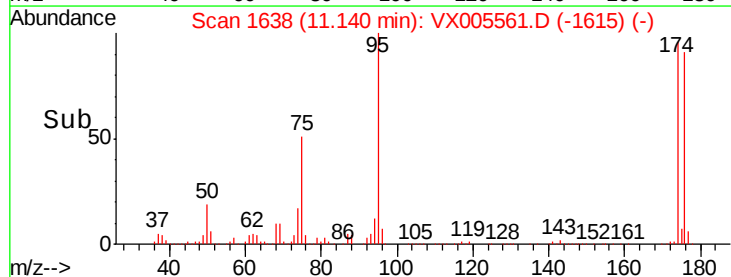
75 100

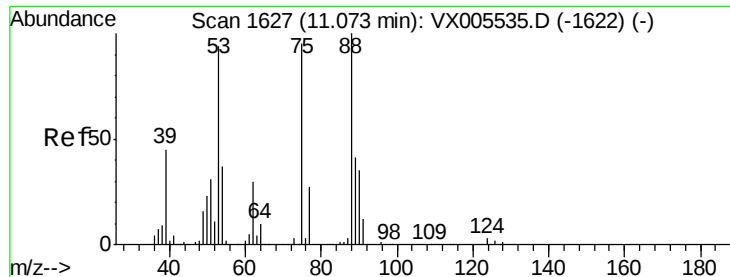
77 1.2 20.2 60.6#



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: 73.530 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005561.D

Acq: 25 Oct 2018 00:58

Instrument :

MSVOA_X

ClientSampleId :

CL-01-102318-A

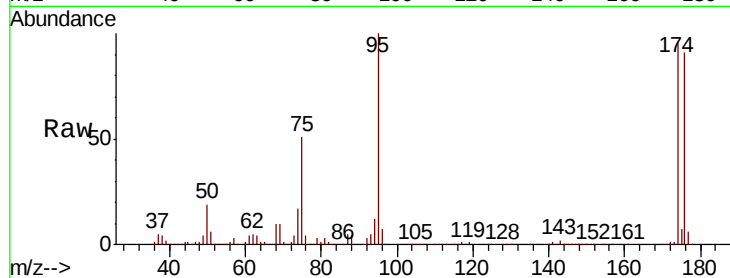
Tot Ion: 75 Resp: 62932

Ion Ratio Lower Upper

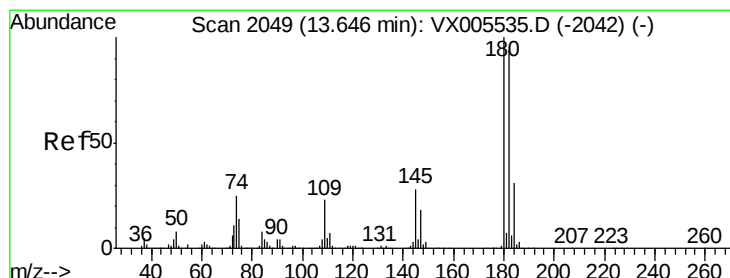
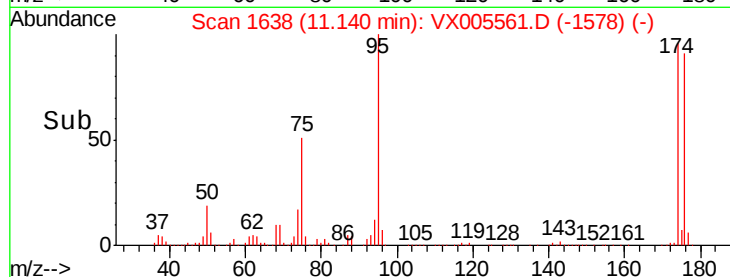
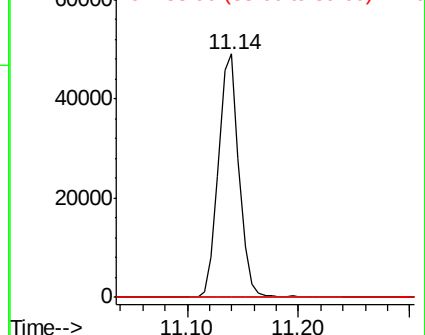
75 100

53 0.3 80.1 120.1#

89 0.0 37.2 55.8#



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: 0.262 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. -0.00 min

Lab File: VX005561.D

Acq: 25 Oct 2018 00:58

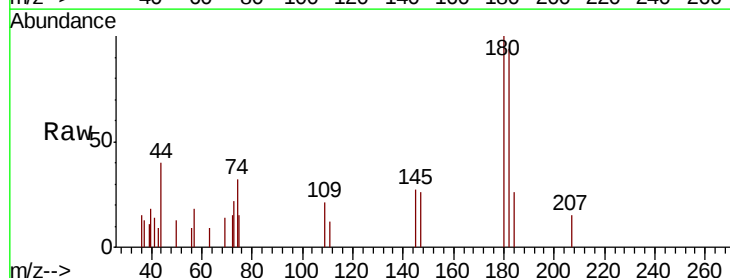
Tgt Ion: 180 Resp: 812

Ion Ratio Lower Upper

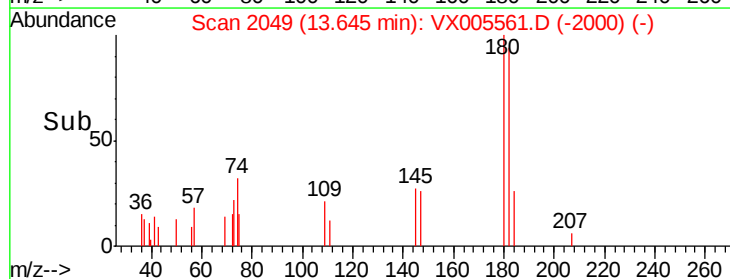
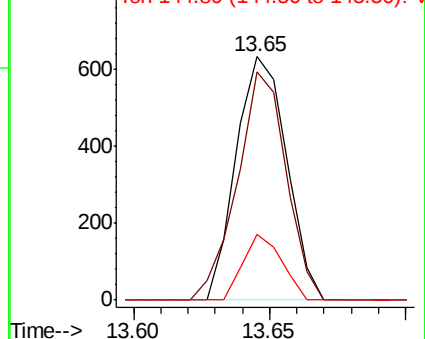
180 100

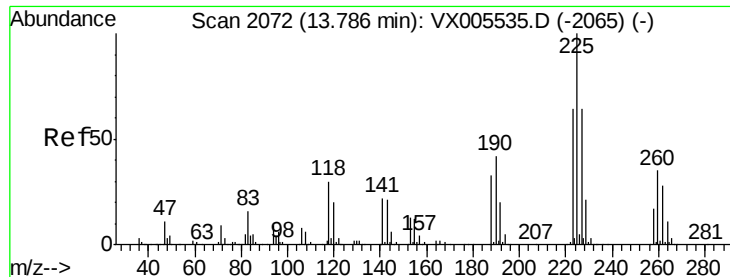
182 91.3 48.4 145.0

145 20.7 14.3 42.9



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





#94

Hexachlorobutadiene

Concen: 0.203 ug/l

RT: 13.79 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VX005561.D

Acq: 25 Oct 2018 00:58

Instrument :

MSVOA_X

ClientSampleId :

CL-01-102318-A

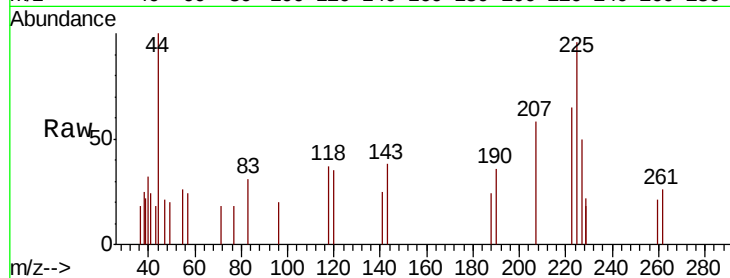
Tot Ion:225 Resp: 326

Ion Ratio Lower Upper

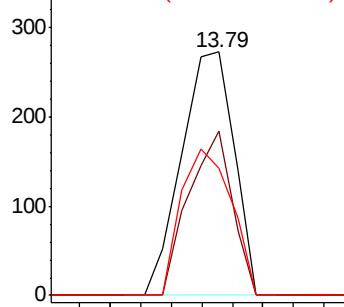
225 100

223 55.8 30.1 90.5

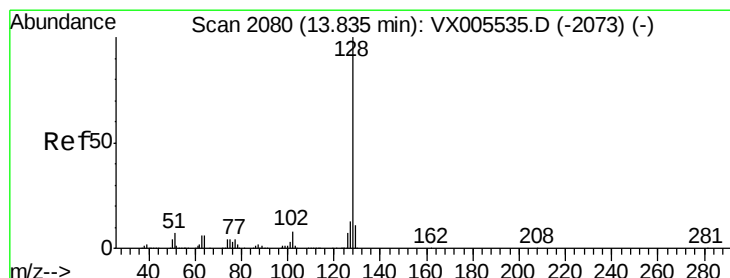
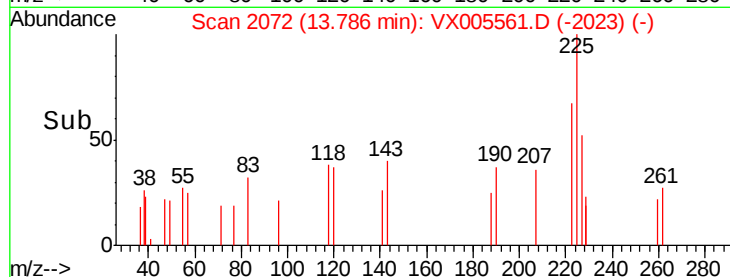
227 57.4 30.8 92.4



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



Time-->



#95

Naphthalene

Concen: 0.299 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005561.D

Acq: 25 Oct 2018 00:58

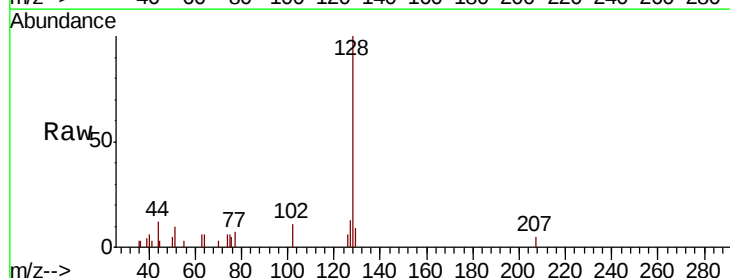
Tgt Ion:128 Resp: 2699

Ion Ratio Lower Upper

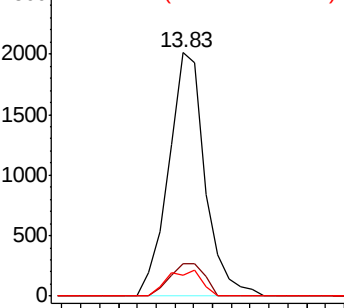
128 100

127 12.6 10.2 15.2

129 9.9 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



Time-->

