

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102418\
 Data File : VX005565.D
 Acq On : 25 Oct 2018 02:44
 Operator : JC/MD
 Sample : J5198-30
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 37 Sample Multiplier: 1

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

Quant Time: Oct 25 05:57:42 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	196669	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	303895	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	279896	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	131529	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	128749	53.63	ug/l	0.00
Spiked Amount			Recovery	=	107.26%	
35) Dibromofluoromethane	5.50	113	102255	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
50) Toluene-d8	8.71	98	370086	50.05	ug/l	0.00
Spiked Amount			Recovery	=	100.10%	
62) 4-Bromofluorobenzene	11.14	95	121450	43.50	ug/l	0.00
Spiked Amount			Recovery	=	87.00%	

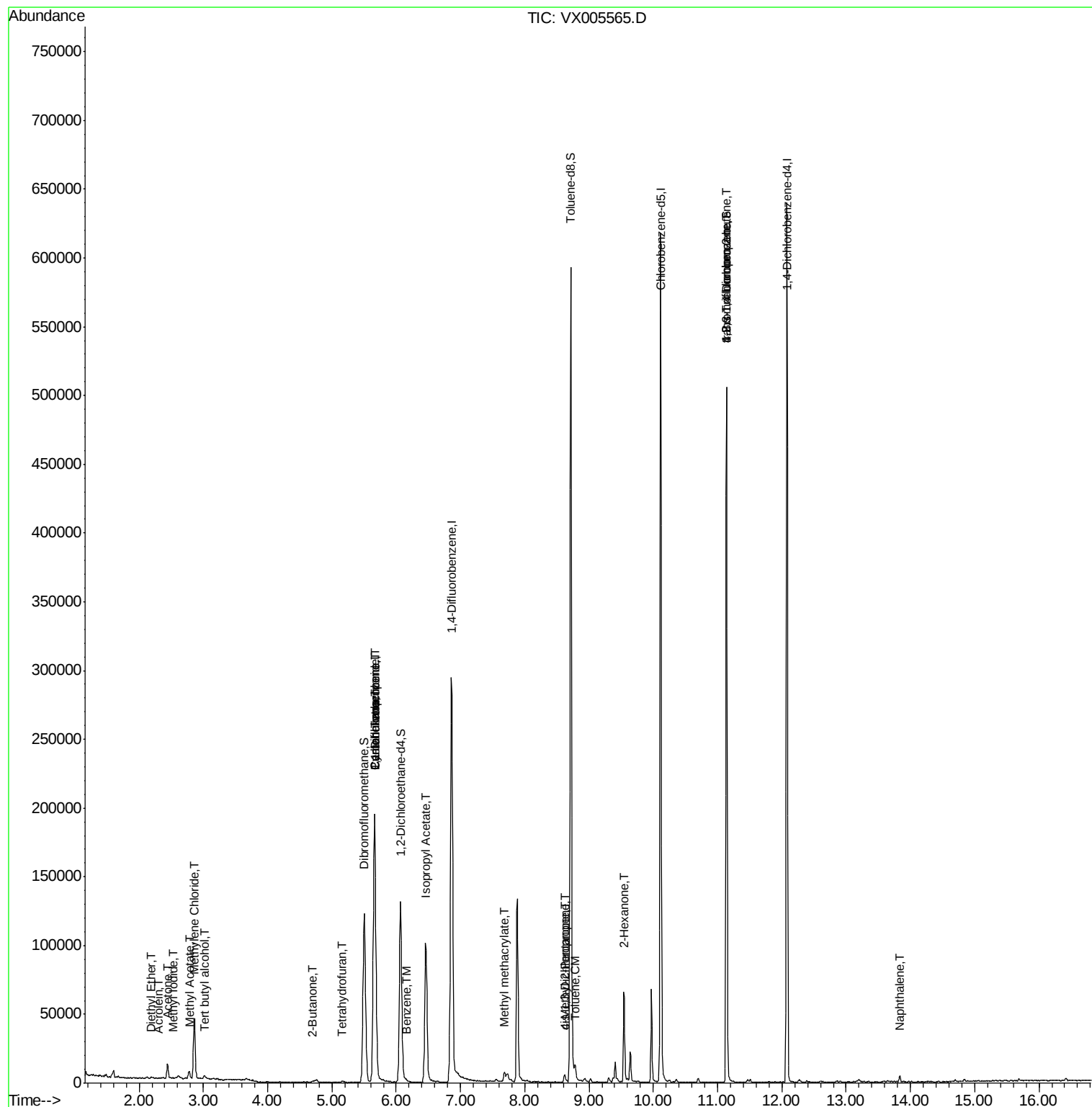
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.19	74	356	0.264	ug/l	71
10) Methyl Iodide	2.52	142	148	2.794	ug/l #	41
11) Tert butyl alcohol	3.01	59	1508	2.334	ug/l #	72
13) Acrolein	2.31	56	121	0.367	ug/l #	1
16) Acetone	2.44	43	10721	8.451	ug/l	89
18) Methyl Acetate	2.78	43	7276	0.886	ug/l	96
20) Methylene Chloride	2.86	84	20154	9.486	ug/l	94
25) 2-Butanone	4.69	43	1981	1.025	ug/l #	83
29) Tetrahydrofuran	5.16	42	1109	0.882	ug/l #	70
31) Cyclohexane	5.67	56	3961	1.224	ug/l #	25
36) 1,1-Dichloropropene	5.67	75	13929	4.723	ug/l #	49
38) Carbon Tetrachloride	5.67	117	18053	5.812	ug/l #	16
40) Benzene	6.15	78	1814	0.215	ug/l	98
43) Isopropyl Acetate	6.46	43	135677	24.058	ug/l	95
48) Methyl methacrylate	7.69	41	5318	1.936	ug/l #	21
51) 4-Methyl-2-Pentanone	8.62	43	2294	0.605	ug/l #	47
52) Toluene	8.79	92	1936	0.377	ug/l	94
54) cis-1,3-Dichloropropene	8.62	75	811	0.245	ug/l #	62
59) 2-Hexanone	9.54	43	7821	2.617	ug/l #	54
76) 1,2,3-Trichloropropane	11.14	75	61331	22.893	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	61331	71.911	ug/l #	10
95) Naphthalene	13.83	128	3016	0.336	ug/l	97

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005565.D

Acq: 25 Oct 2018 02:44

Instrument :

MSVOA_X

ClientSampleId :

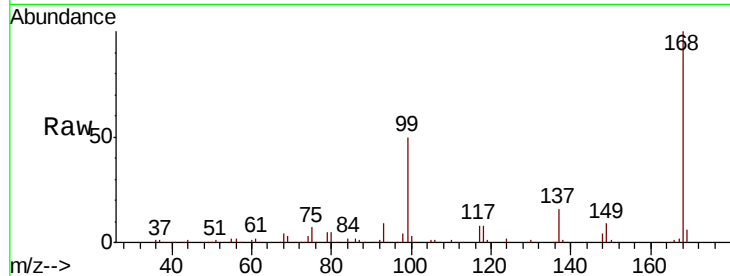
CL-01-102318-E

Tot Ion:168 Resp: 196669

Ion Ratio Lower Upper

168 100

99 49.6 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

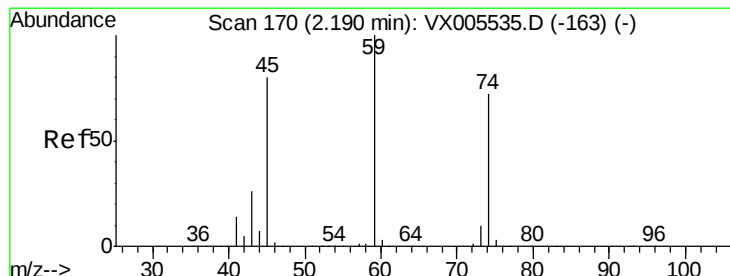
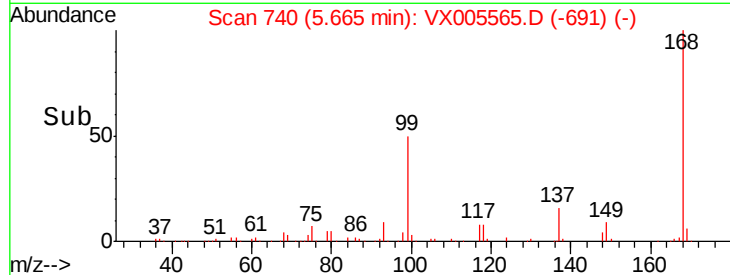
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#8

Diethyl Ether

Concen: 0.264 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX005565.D

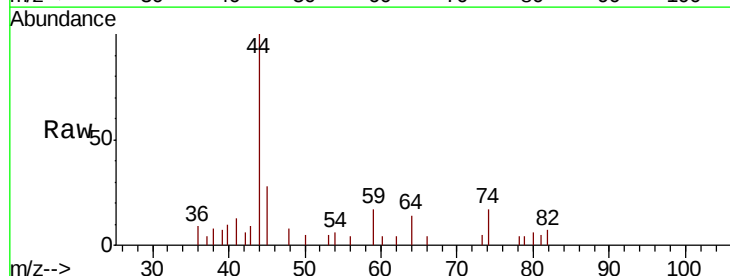
Acq: 25 Oct 2018 02:44

Tgt Ion: 74 Resp: 356

Ion Ratio Lower Upper

74 100

45 124.4 48.3 144.8



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

500

400

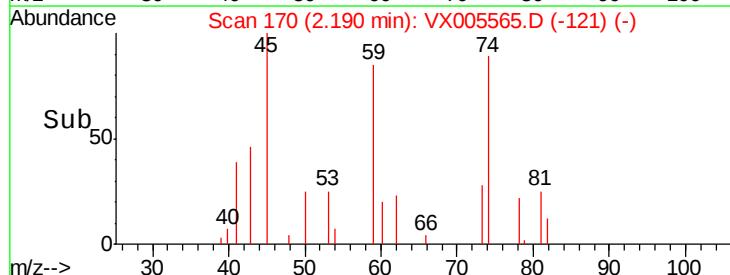
300

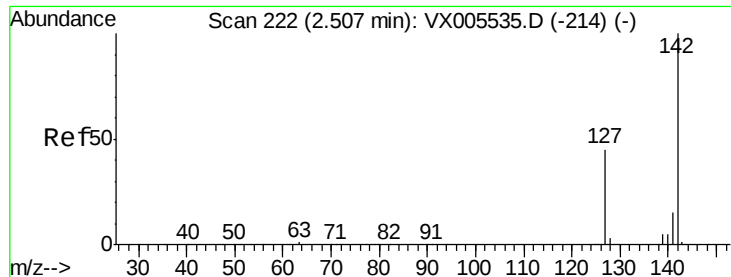
200

100

0

Time--> 2.15 2.20

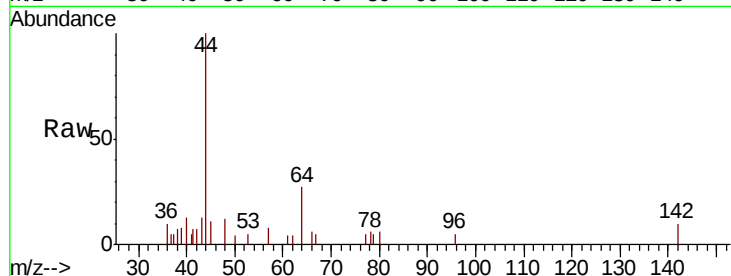




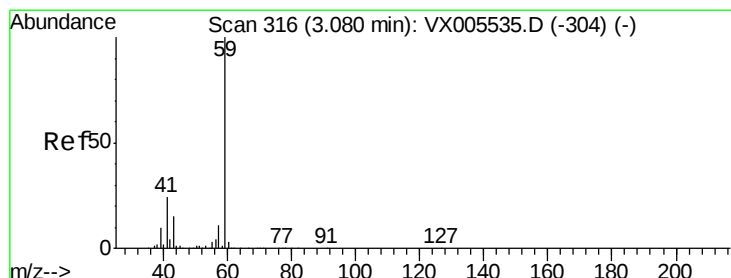
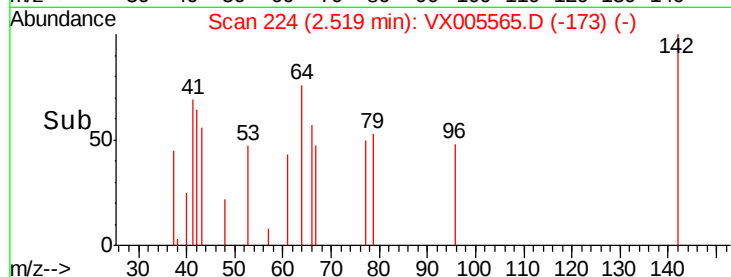
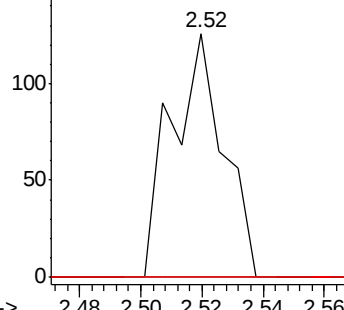
#10
Methyl Iodide
Concen: 2.794 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX005565.D
Acq: 25 Oct 2018 02:44

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

Tot Ion:142 Resp: 148
Ion Ratio Lower Upper
142 100
127 0.0 33.8 50.6#
141 0.0 11.4 17.0#

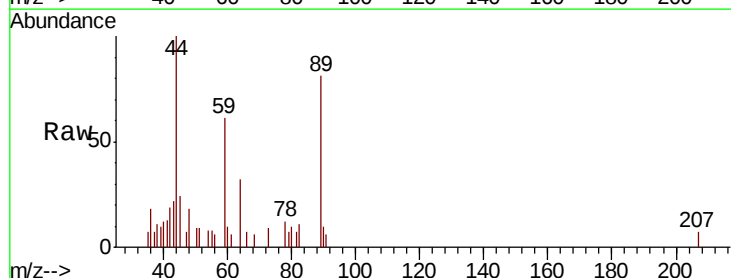


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

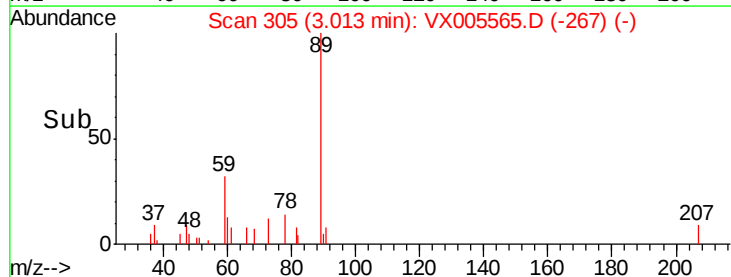
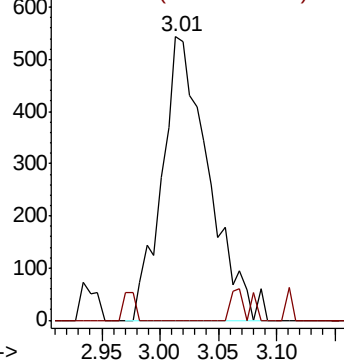


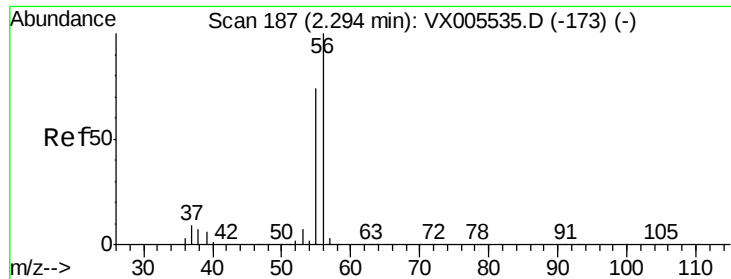
#11
Tert butyl alcohol
Concen: 2.334 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.07 min
Lab File: VX005565.D
Acq: 25 Oct 2018 02:44

Tgt Ion: 59 Resp: 1508
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.367 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX005565.D

Acq: 25 Oct 2018 02:44

Instrument :

MSVOA_X

ClientSampleId :

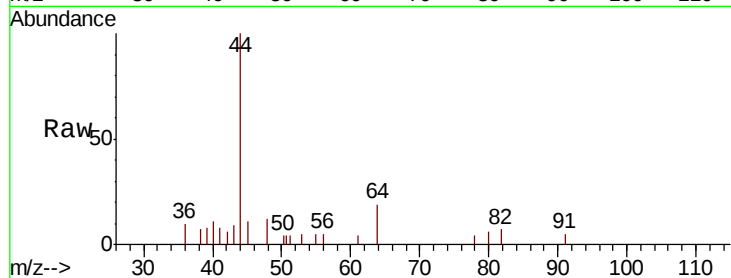
CL-01-102318-E

Tot Ion: 56 Resp: 121

Ion Ratio Lower Upper

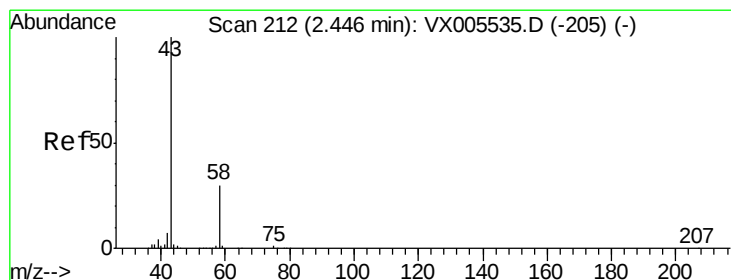
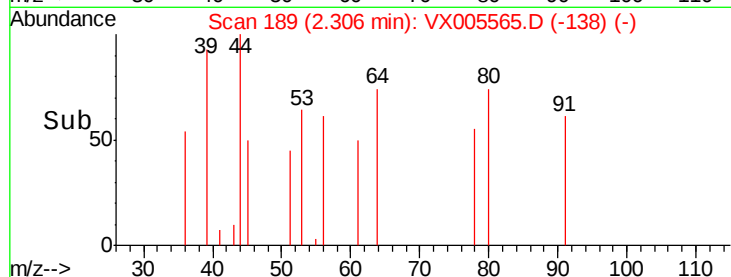
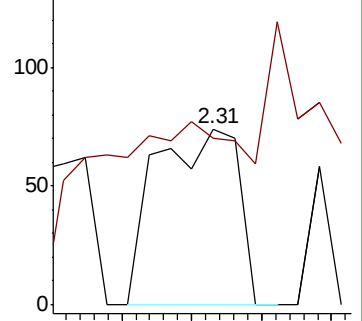
56 100

55 180.2 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 8.451 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX005565.D

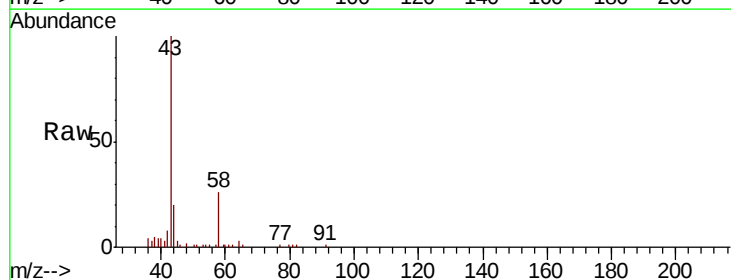
Acq: 25 Oct 2018 02:44

Tgt Ion: 43 Resp: 10721

Ion Ratio Lower Upper

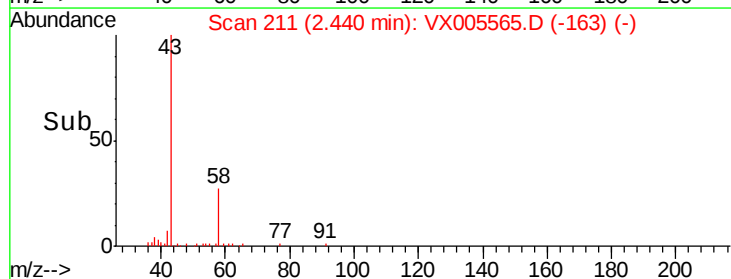
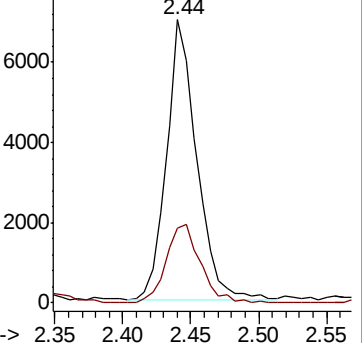
43 100

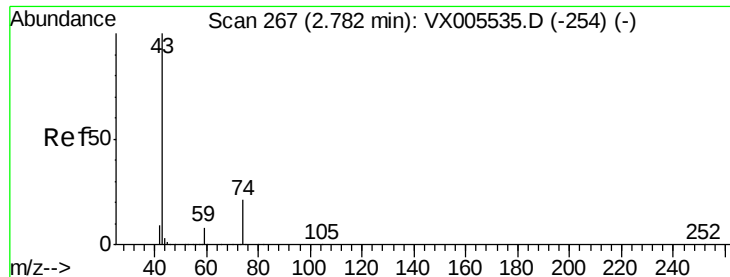
58 26.7 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

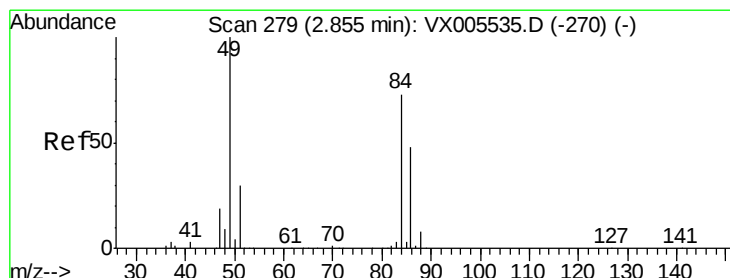
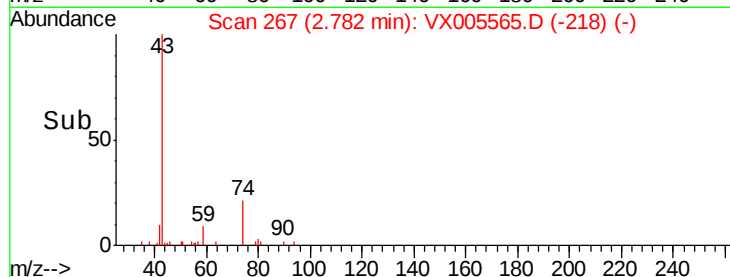
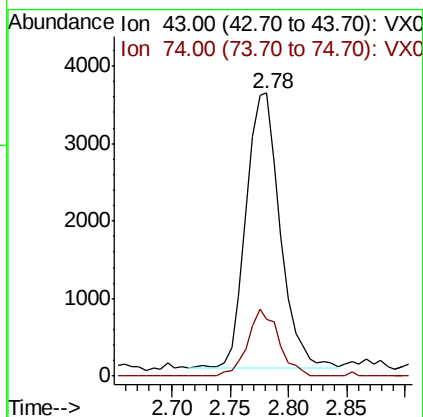
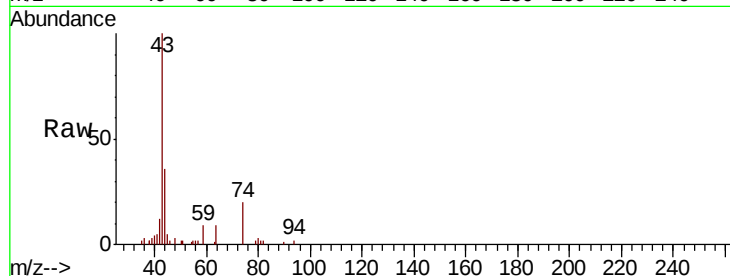




#18
Methvl Acetate
Concen: 0.886 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX005565.D
Acq: 25 Oct 2018 02:44

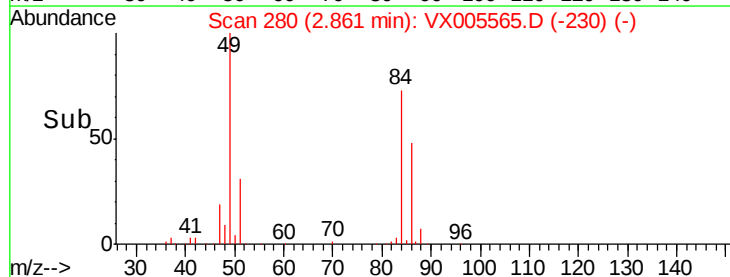
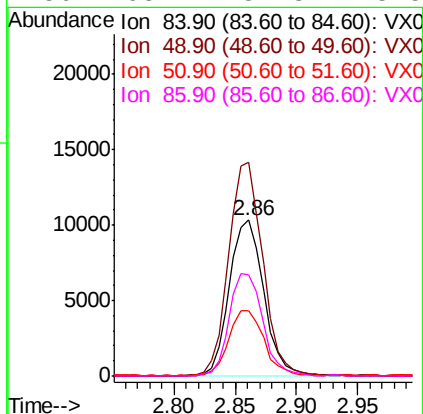
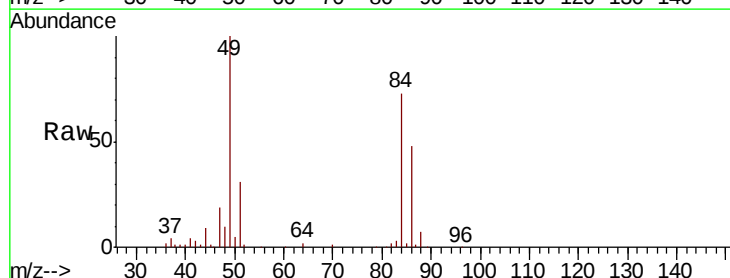
Instrument :
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ClientSampleId :
CL-01-102318-E

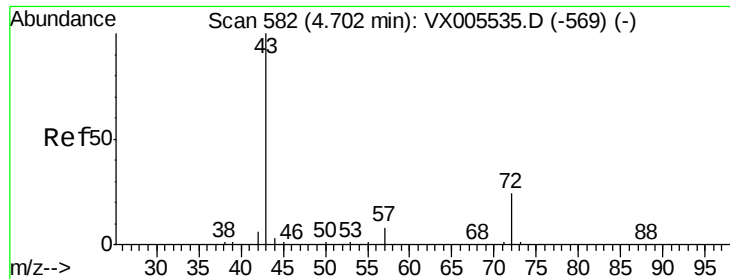
Tot Ion: 43 Resp: 7276
Ion Ratio Lower Upper
43 100
74 22.1 19.4 29.2



#20
Methylene Chloride
Concen: 9.486 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005565.D
Acq: 25 Oct 2018 02:44

Tgt Ion: 84 Resp: 20154
Ion Ratio Lower Upper
84 100
49 136.4 101.2 151.8
51 41.8 29.5 44.3
86 65.1 52.3 78.5





#25

2-Butanone

Concen: 1.025 ug/l

RT: 4.69 min Scan# 580

Delta R.T. -0.01 min

Lab File: VX005565.D

Acq: 25 Oct 2018 02:44

Instrument :

MSVOA_X

ClientSampleId :

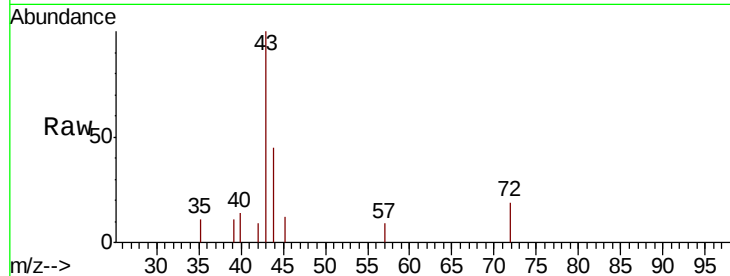
CL-01-102318-E

Tot Ion: 43 Resp: 1981

Ion Ratio Lower Upper

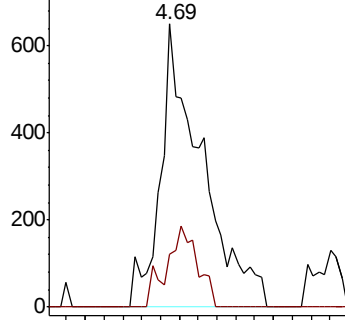
43 100

72 18.8 22.0 33.0#

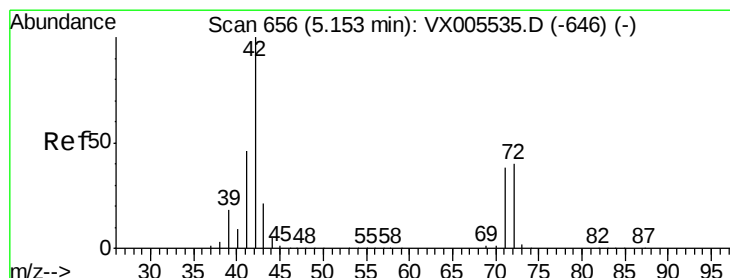
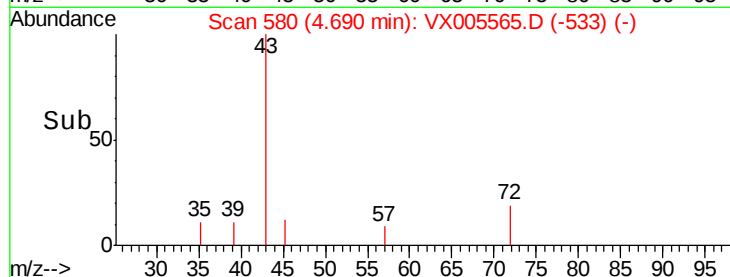


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



#29

Tetrahydrofuran

Concen: 0.882 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005565.D

Acq: 25 Oct 2018 02:44

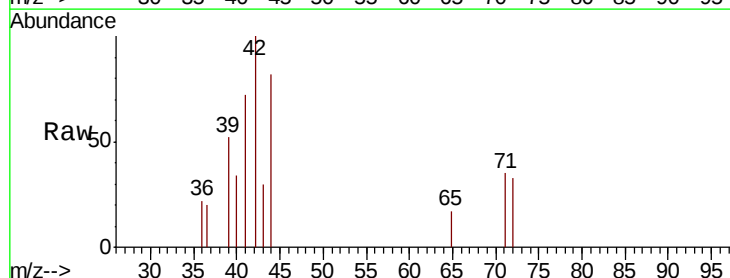
Tgt Ion: 42 Resp: 1109

Ion Ratio Lower Upper

42 100

72 24.3 37.4 56.0#

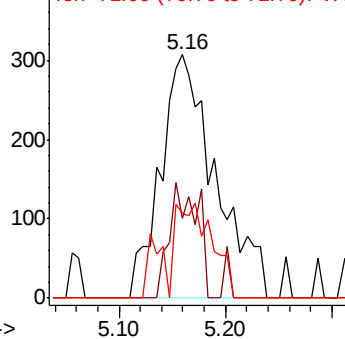
71 26.1 34.5 51.7#



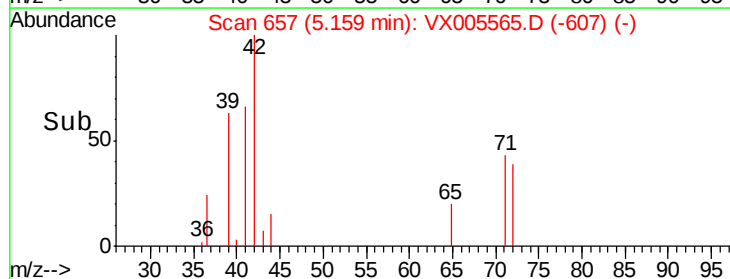
Abundance Ion 42.00 (41.70 to 42.70): VX0

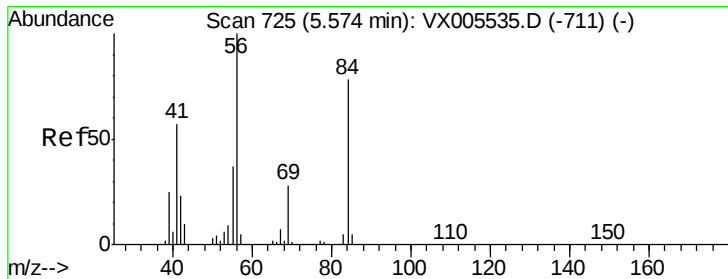
Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



Time-->

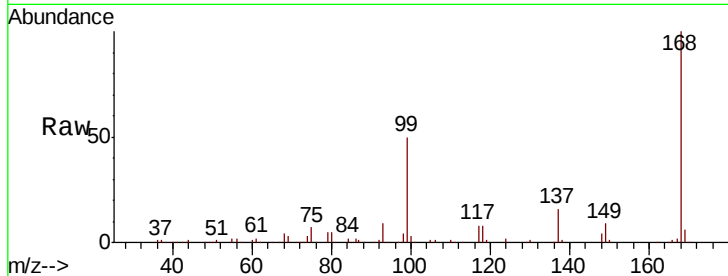




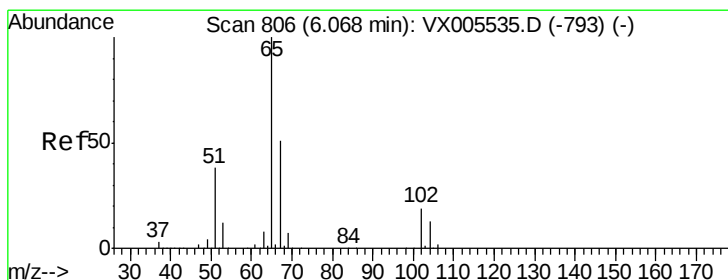
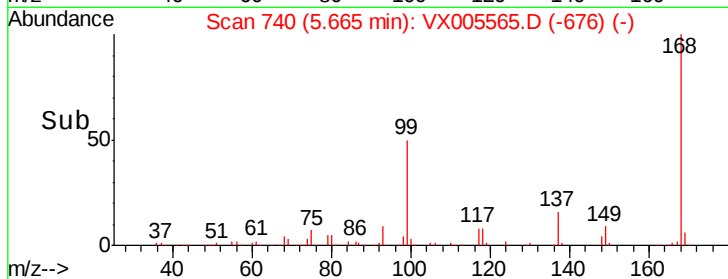
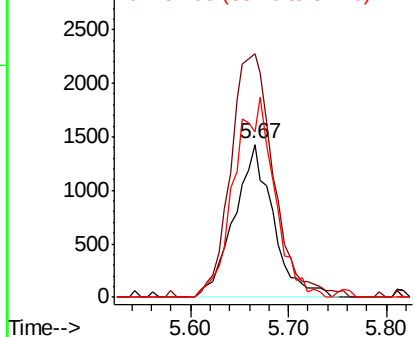
#31
Cyclohexane
Concen: 1.224 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX005565.D
Acq: 25 Oct 2018 02:44

Instrument :
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CL-01-102318-E

Tot Ion: 56 Resp: 3961
Ion Ratio Lower Upper
56 100
69 159.0 25.4 38.2#
84 108.3 71.4 107.2#

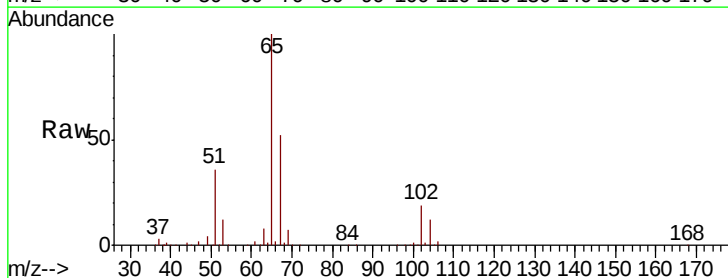


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

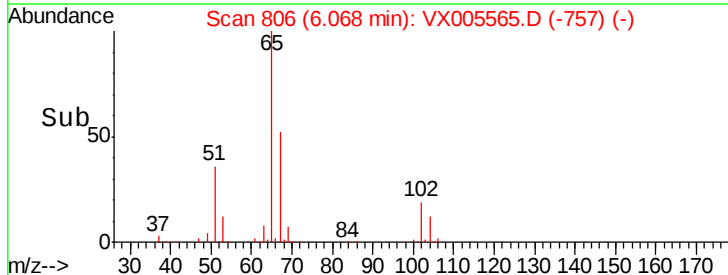
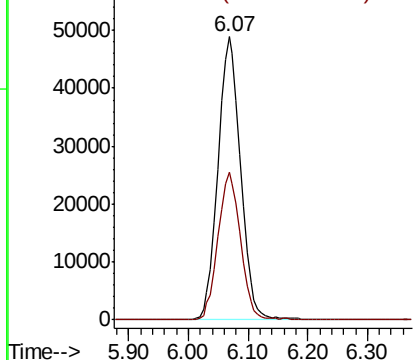


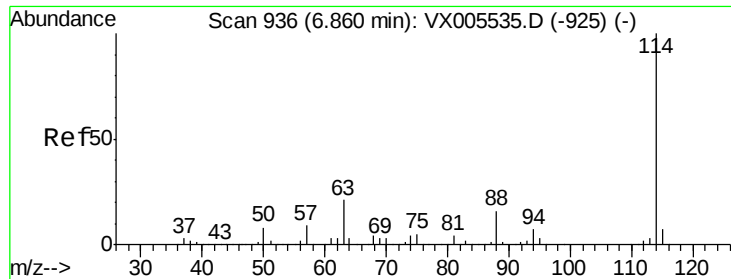
#33
1,2-Dichloroethane-d4
Concen: 53.629 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX005565.D
Acq: 25 Oct 2018 02:44

Tgt Ion: 65 Resp: 128749
Ion Ratio Lower Upper
65 100
67 51.6 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

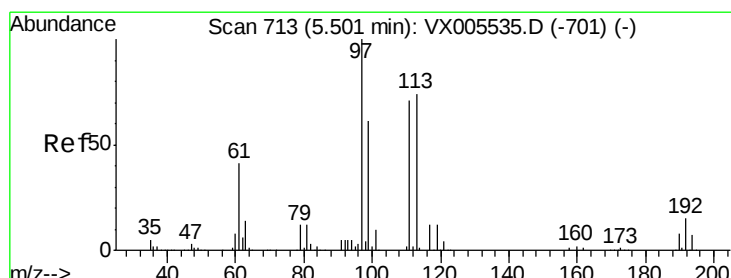
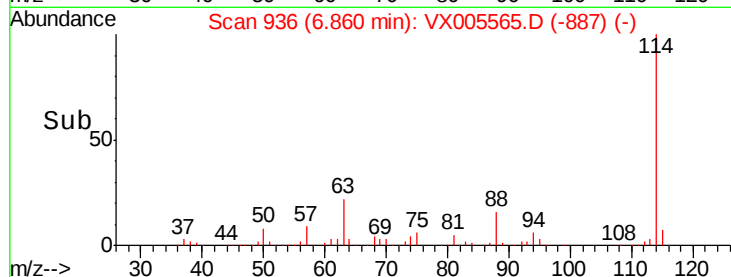
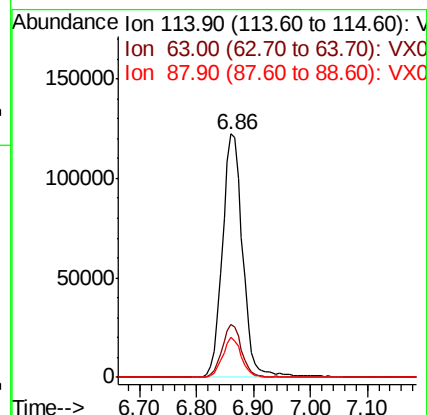
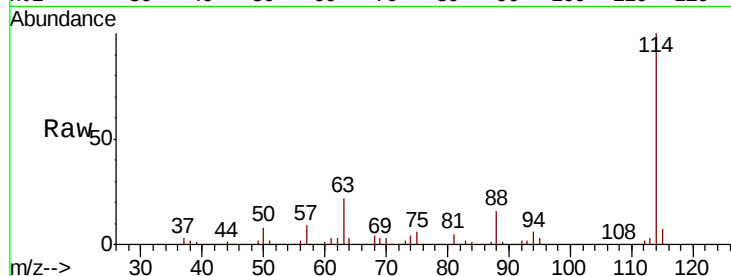




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005565.D
 Acq: 25 Oct 2018 02:44

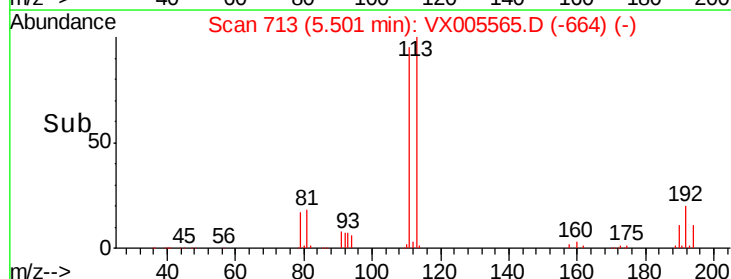
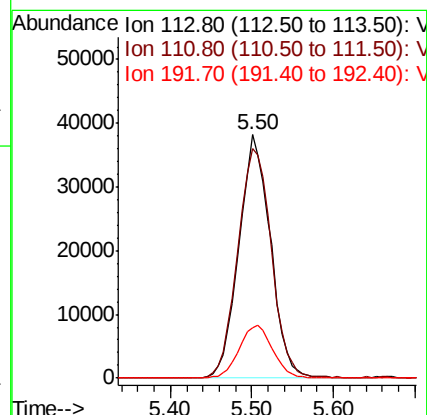
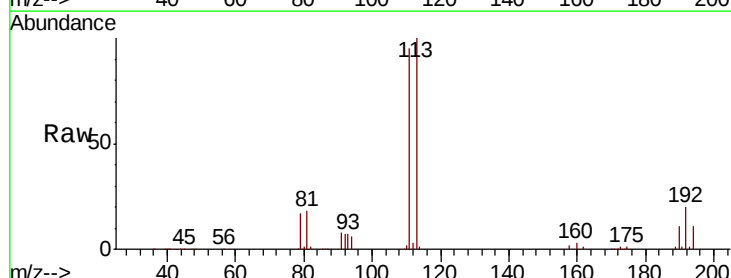
Instrument :
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 ClientSampleId :
 CL-01-102318-E

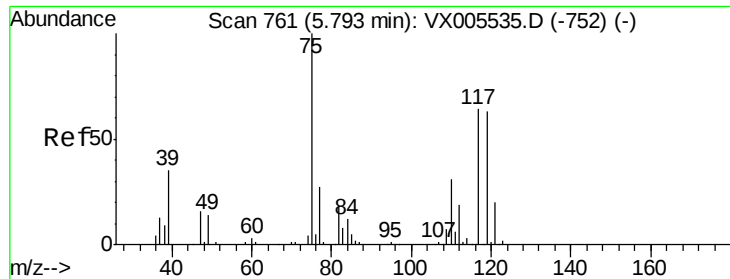
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	39.0
88	16.3	0.0	30.4



#35
 Dibromofluoromethane
 Concen: 49.693 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005565.D
 Acq: 25 Oct 2018 02:44

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.8	82.4	123.6
192	22.9	19.4	29.2





#36

1,1-Dichloropropene

Concen: 4.723 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005565.D

Acq: 25 Oct 2018 02:44

Instrument :

MSVOA_X

ClientSampleId :

CL-01-102318-E

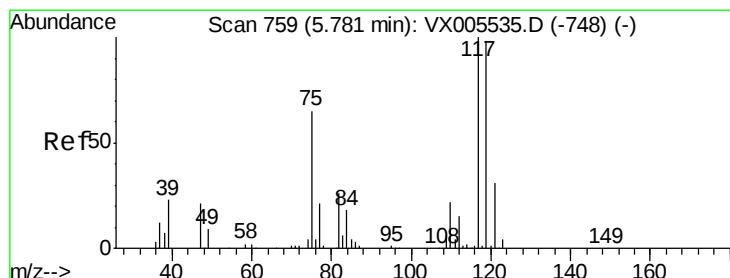
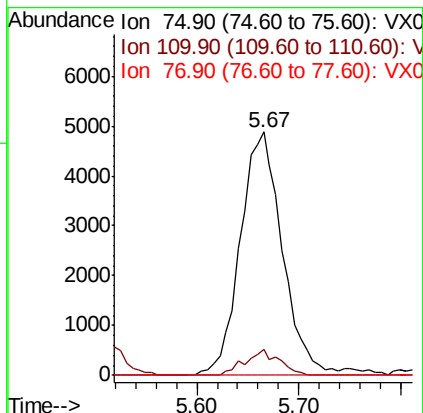
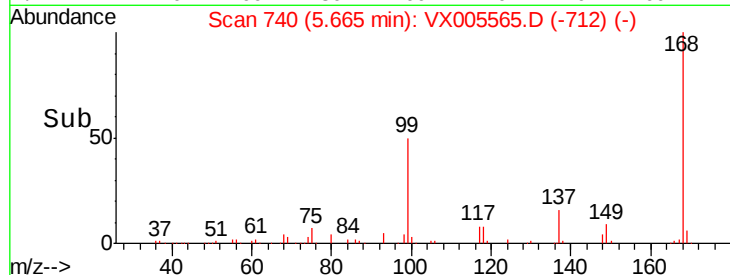
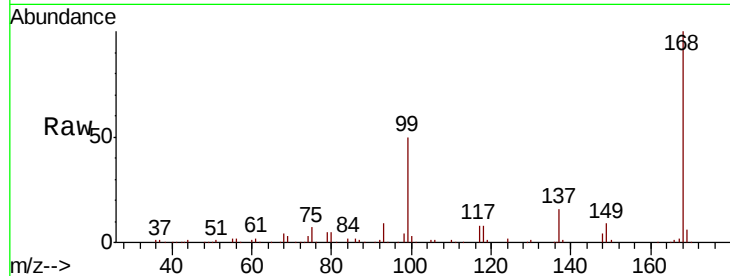
Tot Ion: 75 Resp: 13929

Ion Ratio Lower Upper

75 100

110 8.6 18.0 54.0#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 5.812 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.11 min

Lab File: VX005565.D

Acq: 25 Oct 2018 02:44

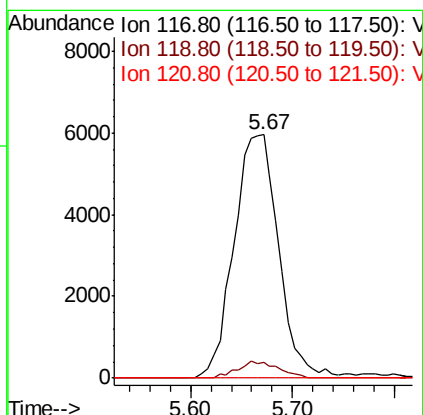
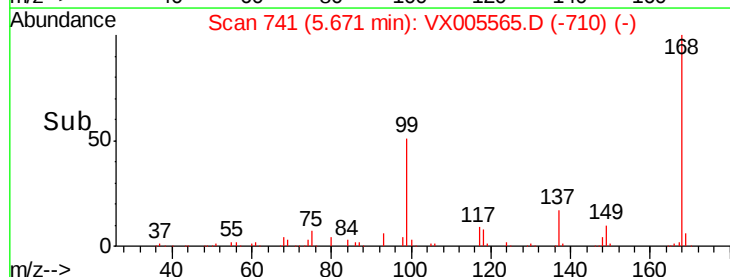
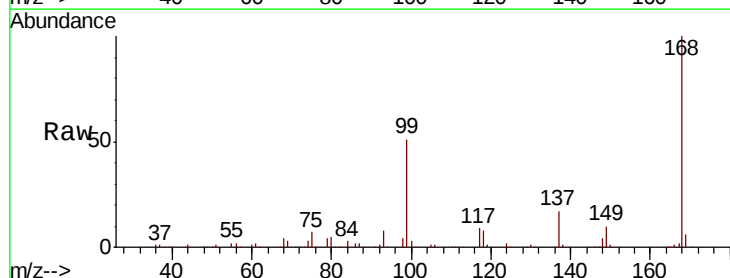
Tgt Ion: 117 Resp: 18053

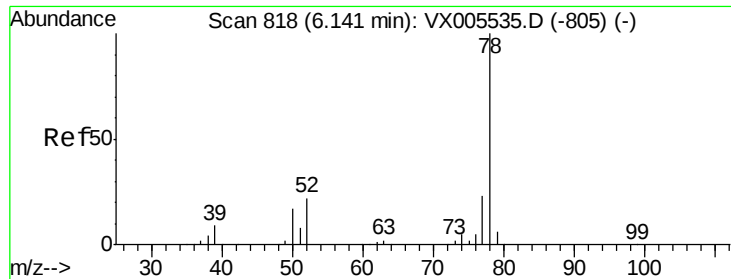
Ion Ratio Lower Upper

117 100

119 6.4 78.8 118.2#

121 0.0 24.9 37.3#





#40

Benzene

Concen: 0.215 ug/l

RT: 6.15 min Scan# 820

Delta R.T. 0.01 min

Lab File: VX005565.D

Acq: 25 Oct 2018 02:44

Instrument :

MSVOA_X

ClientSampleId :

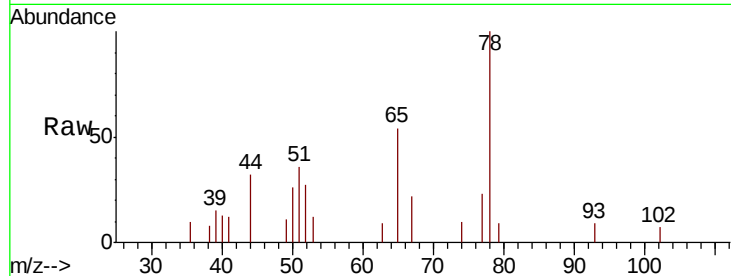
CL-01-102318-E

Tot Ion: 78 Resp: 1814

Ion Ratio Lower Upper

78 100

77 22.7 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.15

800

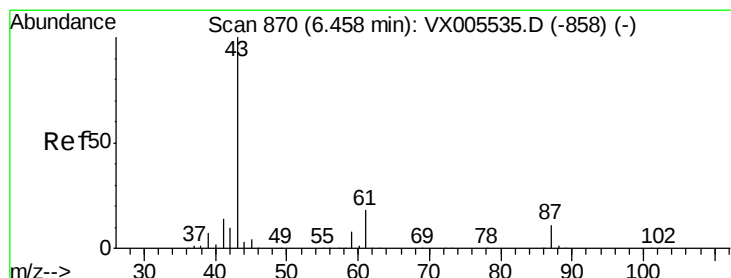
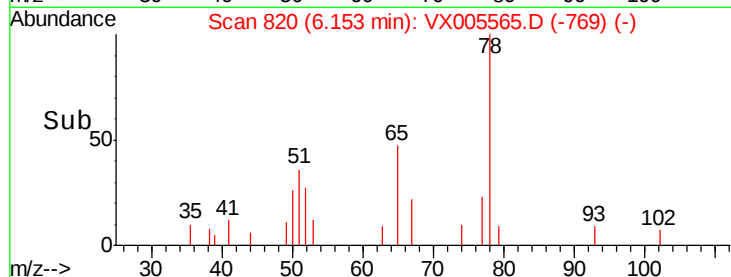
600

400

200

0

Time-->



#43

Isopropyl Acetate

Concen: 24.058 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.00 min

Lab File: VX005565.D

Acq: 25 Oct 2018 02:44

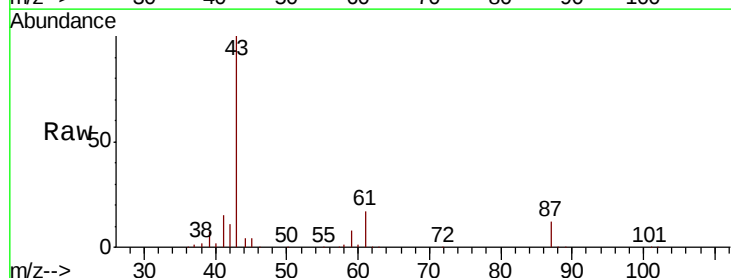
Tgt Ion: 43 Resp: 135677

Ion Ratio Lower Upper

43 100

61 18.7 17.0 25.4

87 12.1 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

6.46

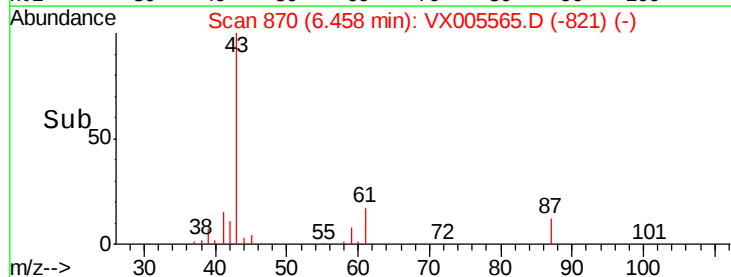
60000

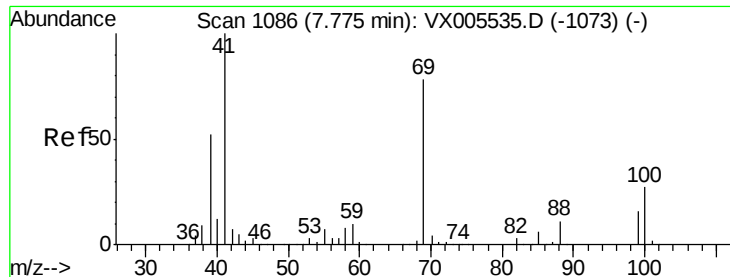
40000

20000

0

Time-->

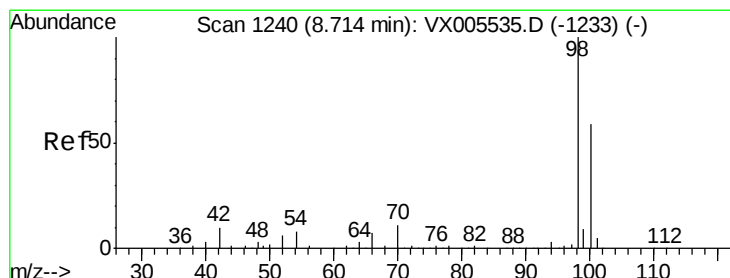
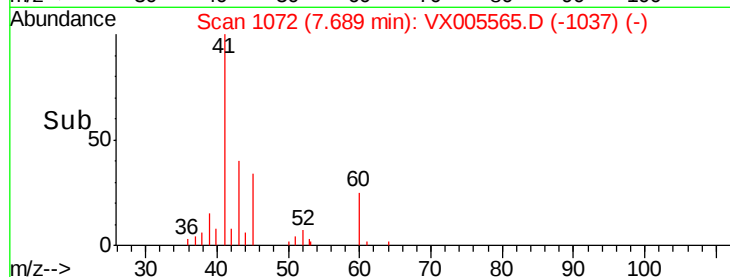
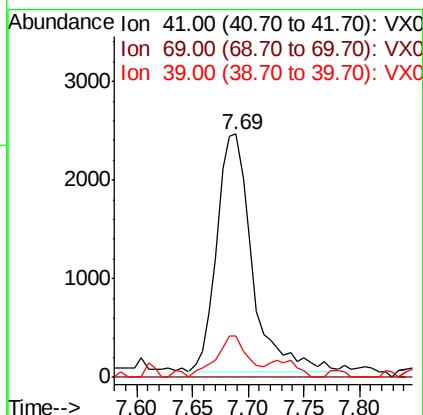
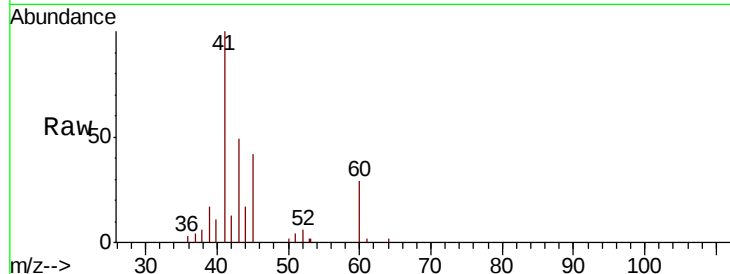




#48
Methvl methacrylate
Concen: 1.936 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.09 min
Lab File: VX005565.D
Acq: 25 Oct 2018 02:44

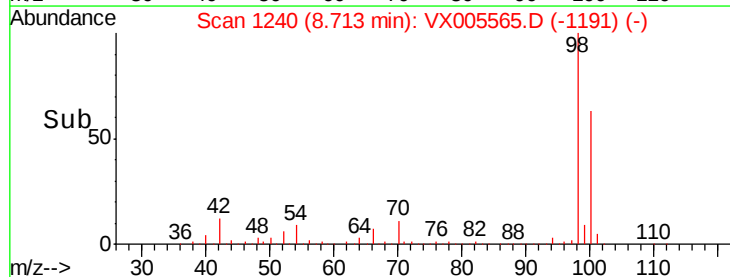
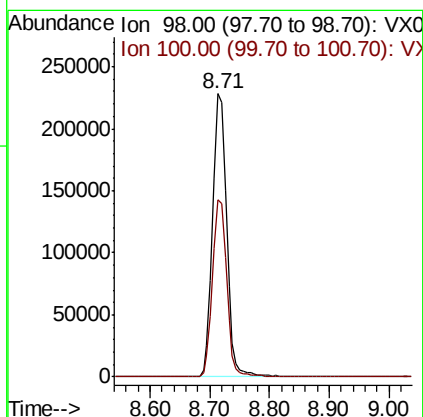
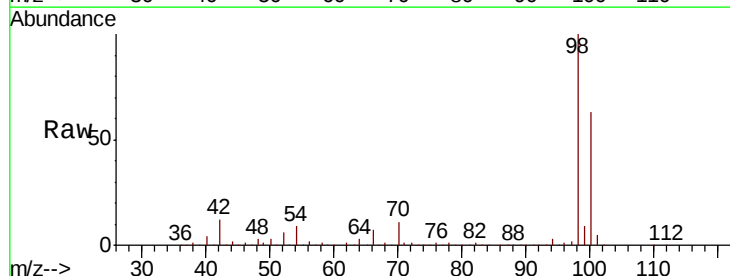
Instrument :
MSVOA_X
ClientSampleId :
CL-01-102318-E

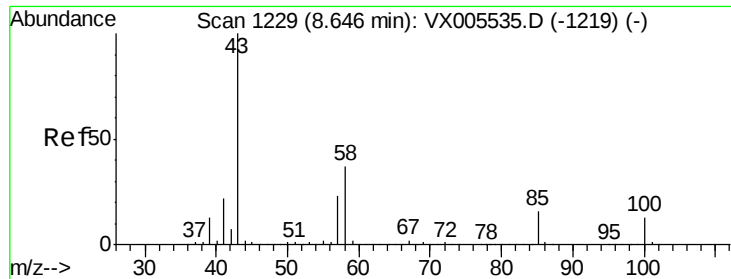
Tot Ion: 41 Resp: 5318
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 15.7 42.7 64.1#



#50
Toluene-d8
Concen: 50.053 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005565.D
Acq: 25 Oct 2018 02:44

Tgt Ion: 98 Resp: 370086
Ion Ratio Lower Upper
98 100
100 63.4 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 0.605 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VX005565.D

Acq: 25 Oct 2018 02:44

Instrument :

MSVOA_X

ClientSampleId :

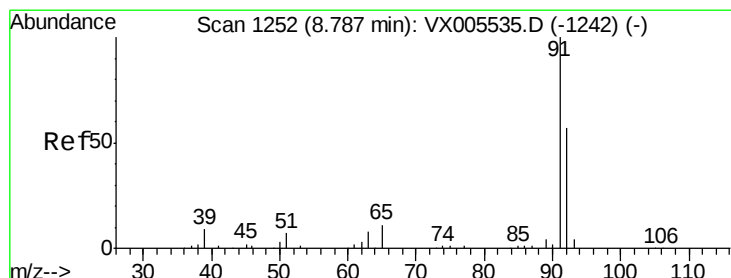
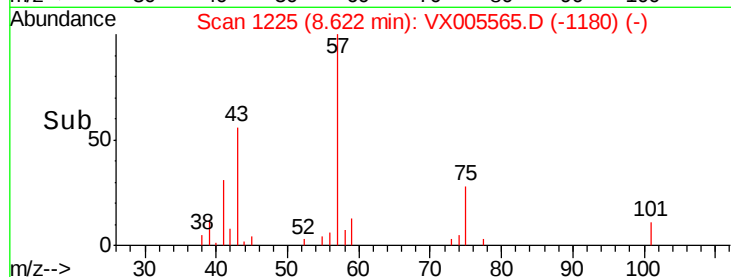
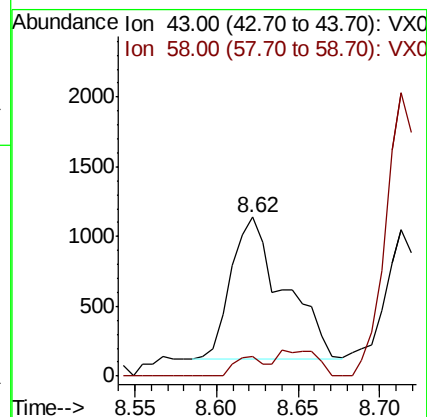
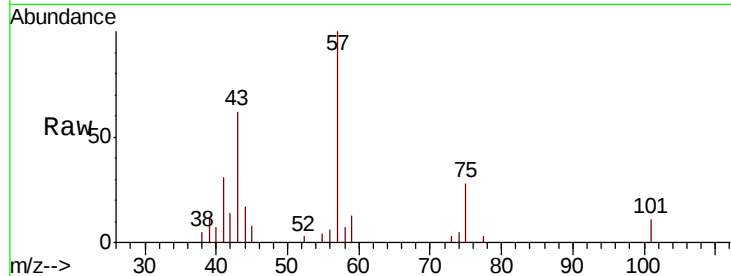
CL-01-102318-E

Tot Ion: 43 Resp: 2294

Ion Ratio Lower Upper

43 100

58 8.4 33.1 49.7#



#52

Toluene

Concen: 0.377 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX005565.D

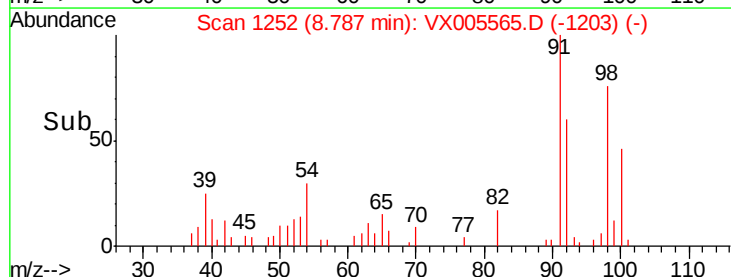
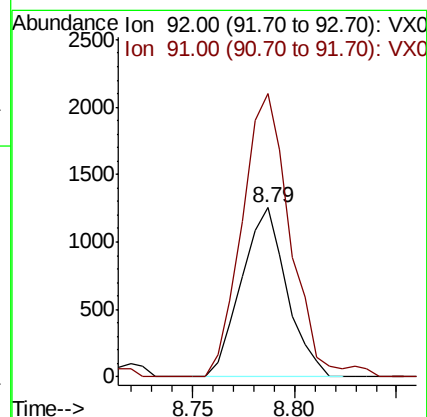
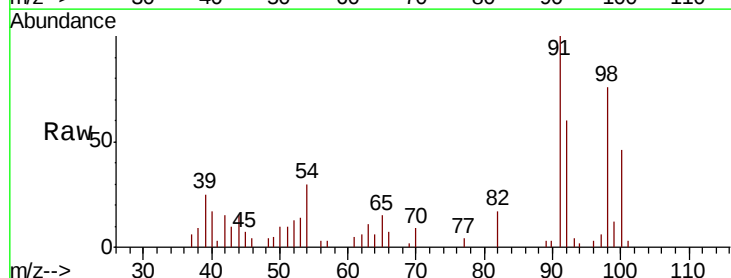
Acq: 25 Oct 2018 02:44

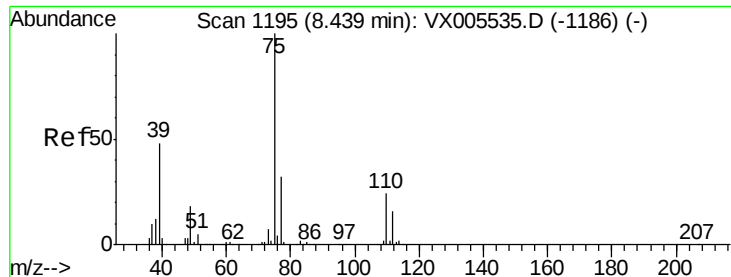
Tgt Ion: 92 Resp: 1936

Ion Ratio Lower Upper

92 100

91 179.3 136.4 204.6





#54

cis-1,3-Dichloropropene

Concen: 0.245 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX005565.D

Acq: 25 Oct 2018 02:44

Instrument :

MSVOA_X

ClientSampleId :

CL-01-102318-E

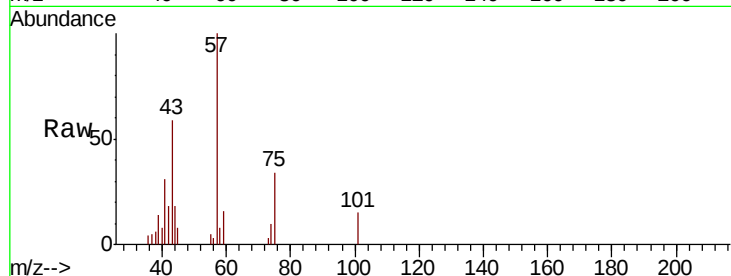
Tot Ion: 75 Resp: 811

Ion Ratio Lower Upper

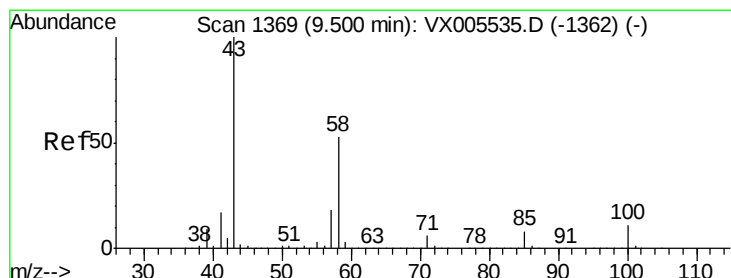
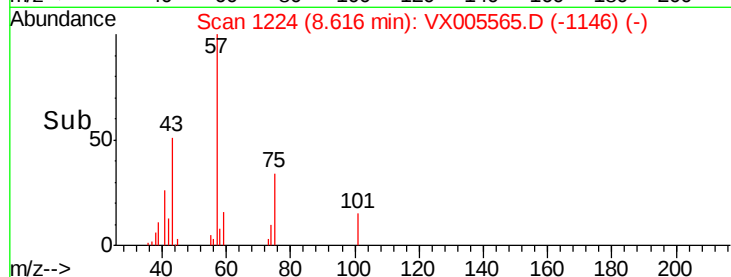
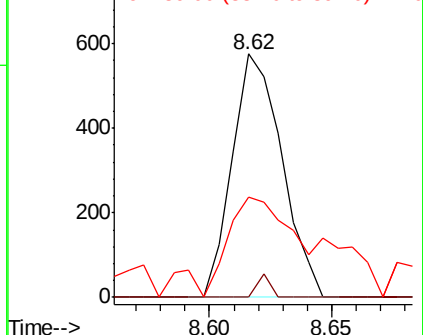
75 100

77 0.0 26.2 39.2#

39 30.0 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 76.90 (76.60 to 77.60): VX0
Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 2.617 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.04 min

Lab File: VX005565.D

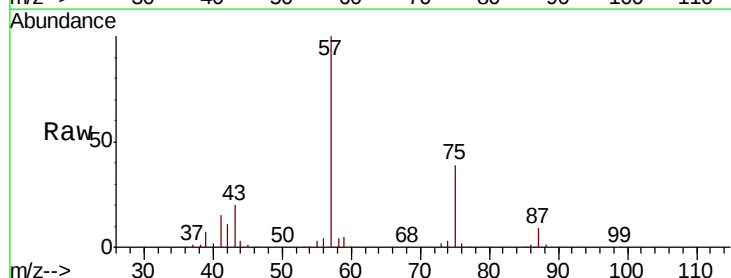
Acq: 25 Oct 2018 02:44

Tgt Ion: 43 Resp: 7821

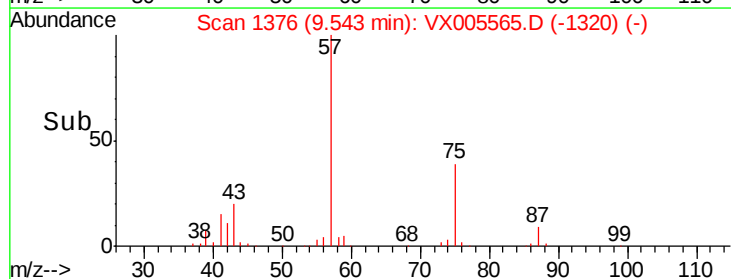
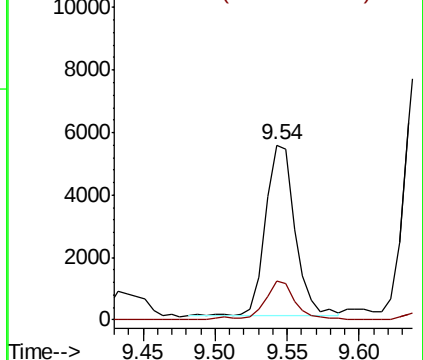
Ion Ratio Lower Upper

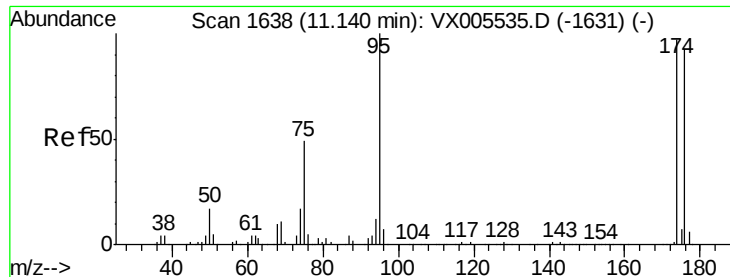
43 100

58 23.7 29.0 87.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 43.495 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005565.D

Acq: 25 Oct 2018 02:44

Instrument :

MSVOA_X

ClientSampleId :

CL-01-102318-E

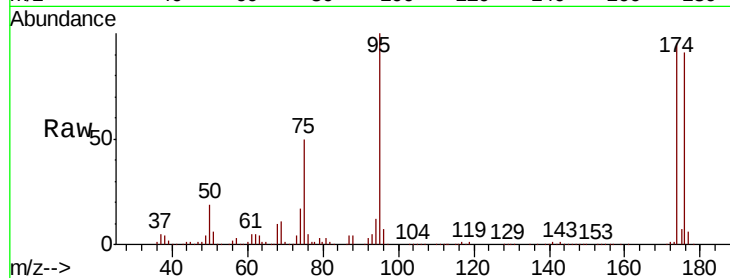
Tot Ion: 95 Resp: 121450

Ion Ratio Lower Upper

95 100

174 93.9 0.0 185.2

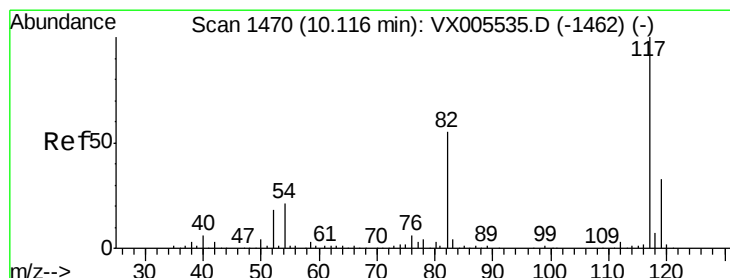
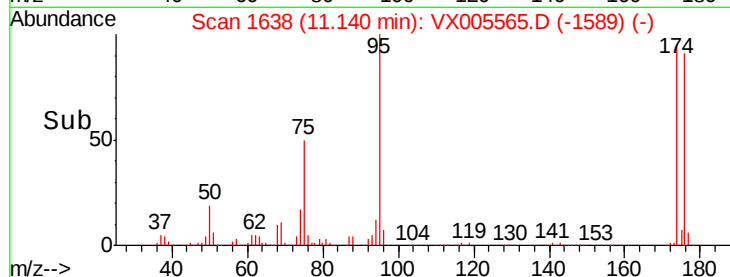
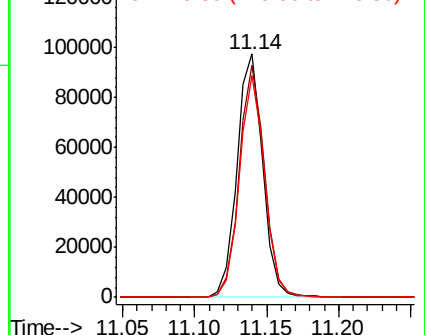
176 89.2 0.0 178.6



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: VX005565.D

Acq: 25 Oct 2018 02:44

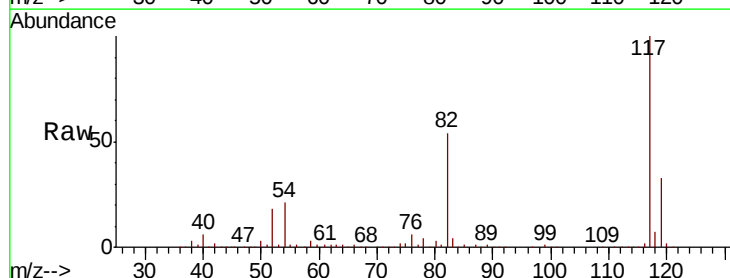
Tgt Ion: 117 Resp: 279896

Ion Ratio Lower Upper

117 100

82 53.9 47.8 71.6

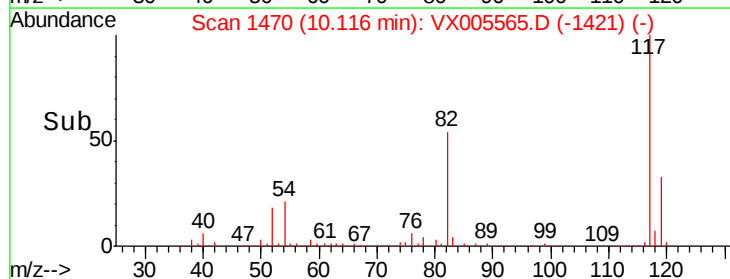
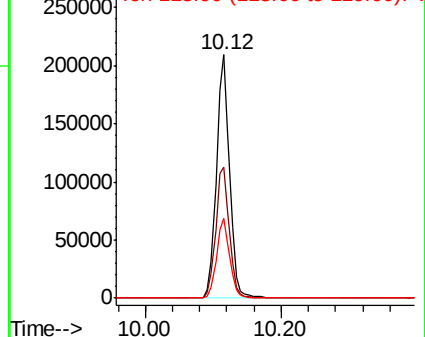
119 32.5 29.3 43.9

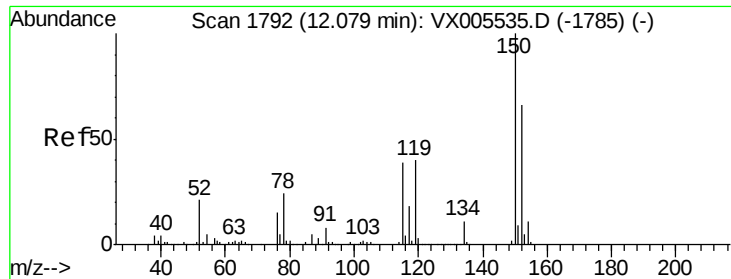


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX005565.D

Acq: 25 Oct 2018 02:44

Instrument :

MSVOA_X

ClientSampleId :

CL-01-102318-E

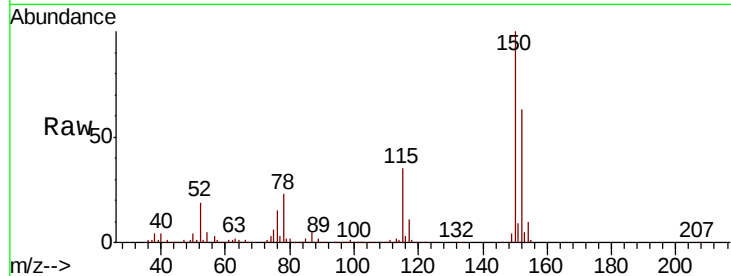
Tot Ion:152 Resp: 131529

Ion Ratio Lower Upper

152 100

115 56.2 39.0 117.0

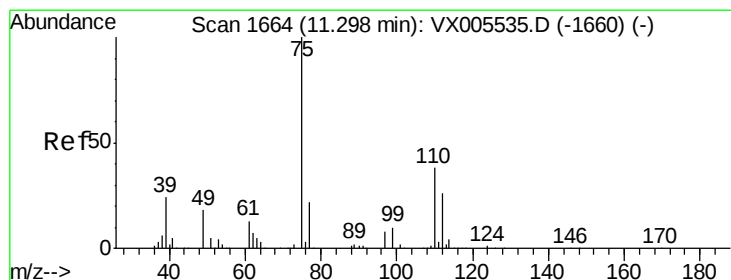
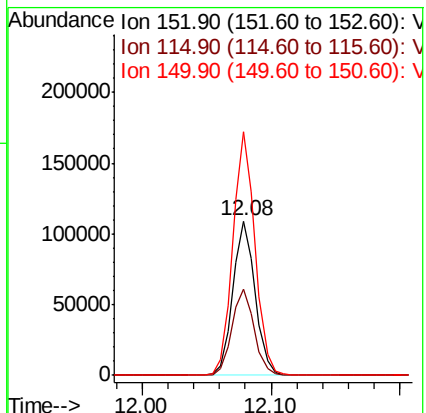
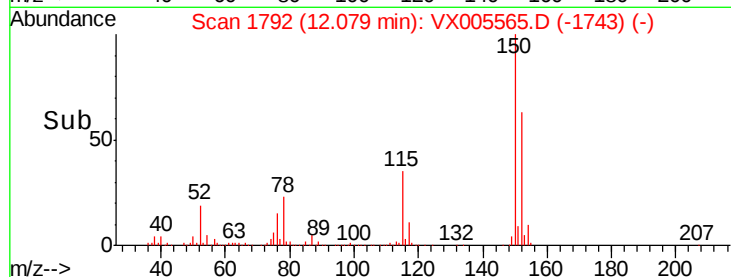
150 157.0 0.0 351.0



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: 22.893 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005565.D

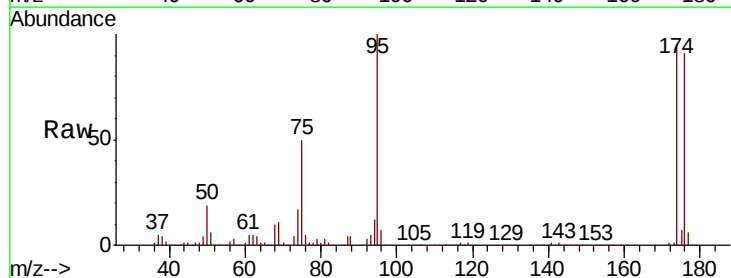
Acq: 25 Oct 2018 02:44

Tgt Ion: 75 Resp: 61331

Ion Ratio Lower Upper

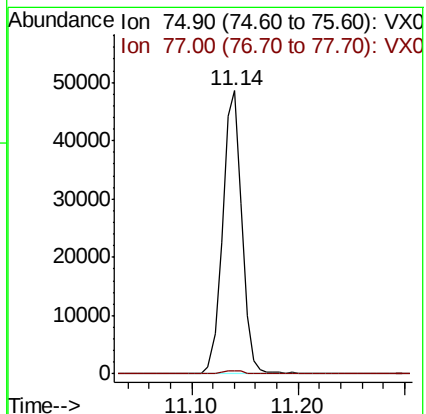
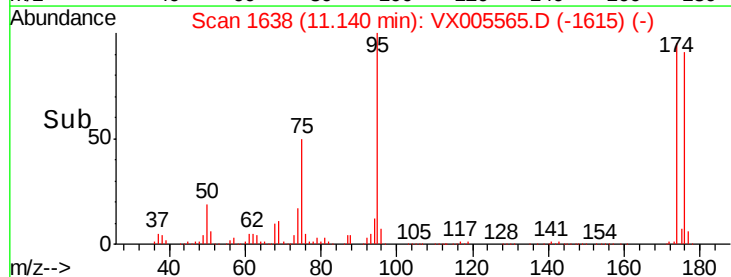
75 100

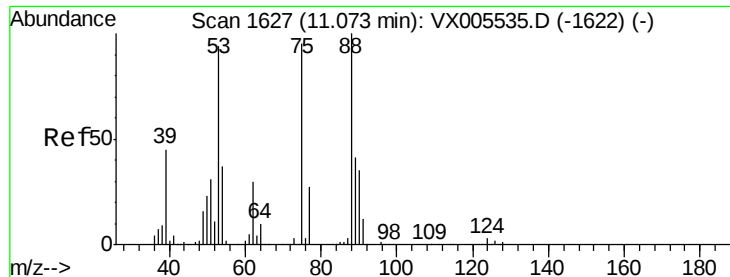
77 1.3 20.2 60.6#



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: 71.911 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005565.D

Acq: 25 Oct 2018 02:44

Instrument :

MSVOA_X

ClientSampleId :

CL-01-102318-E

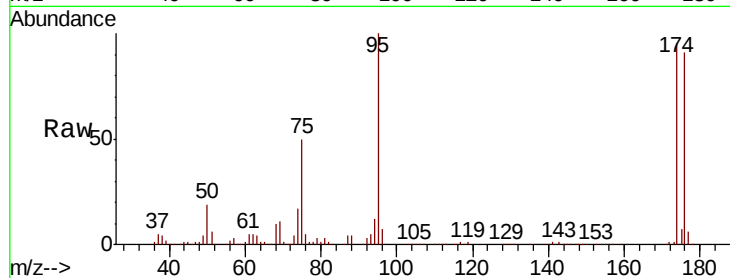
Tot Ion: 75 Resp: 61331

Ion Ratio Lower Upper

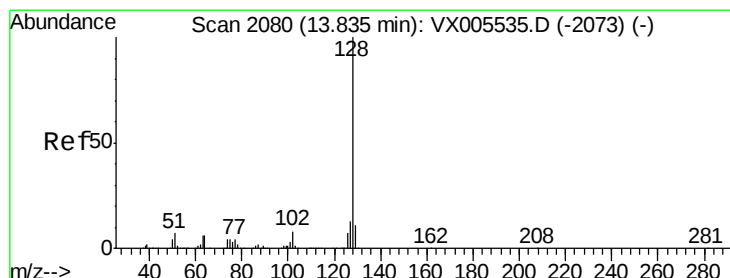
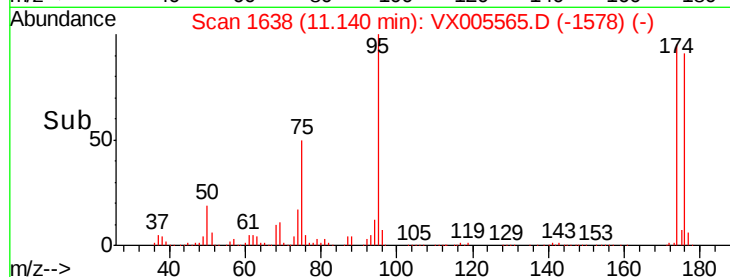
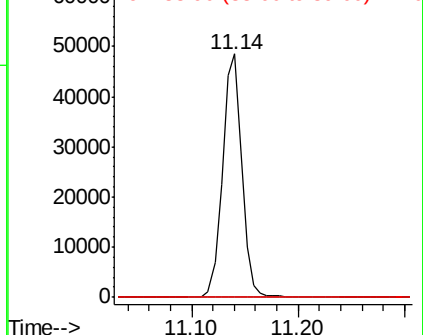
75 100

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



#95

Naphthalene

Concen: 0.336 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005565.D

Acq: 25 Oct 2018 02:44

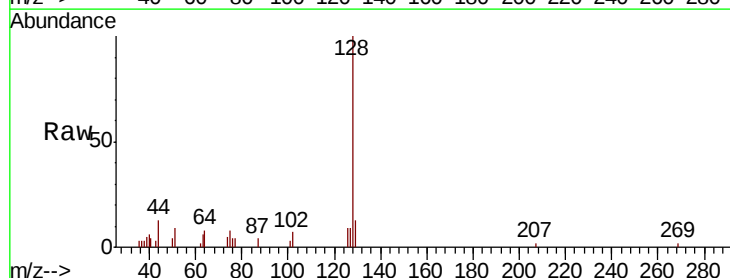
Tgt Ion:128 Resp: 3016

Ion Ratio Lower Upper

128 100

127 10.9 10.2 15.2

129 10.9 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

