

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102418\
 Data File : VX005547.D
 Acq On : 24 Oct 2018 17:53
 Operator : JC/MD
 Sample : PB114120ZHE#14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114120ZHE#14

Quant Time: Oct 25 04:55:09 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	209087	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	322973	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	295658	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	135933	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	142167	55.70	ug/l	0.00
Spiked Amount			Recovery	=	111.40%	
35) Dibromofluoromethane	5.51	113	106996	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
50) Toluene-d8	8.71	98	387320	49.29	ug/l	0.00
Spiked Amount			Recovery	=	98.58%	
62) 4-Bromofluorobenzene	11.14	95	126987	42.79	ug/l	0.00
Spiked Amount			Recovery	=	85.58%	

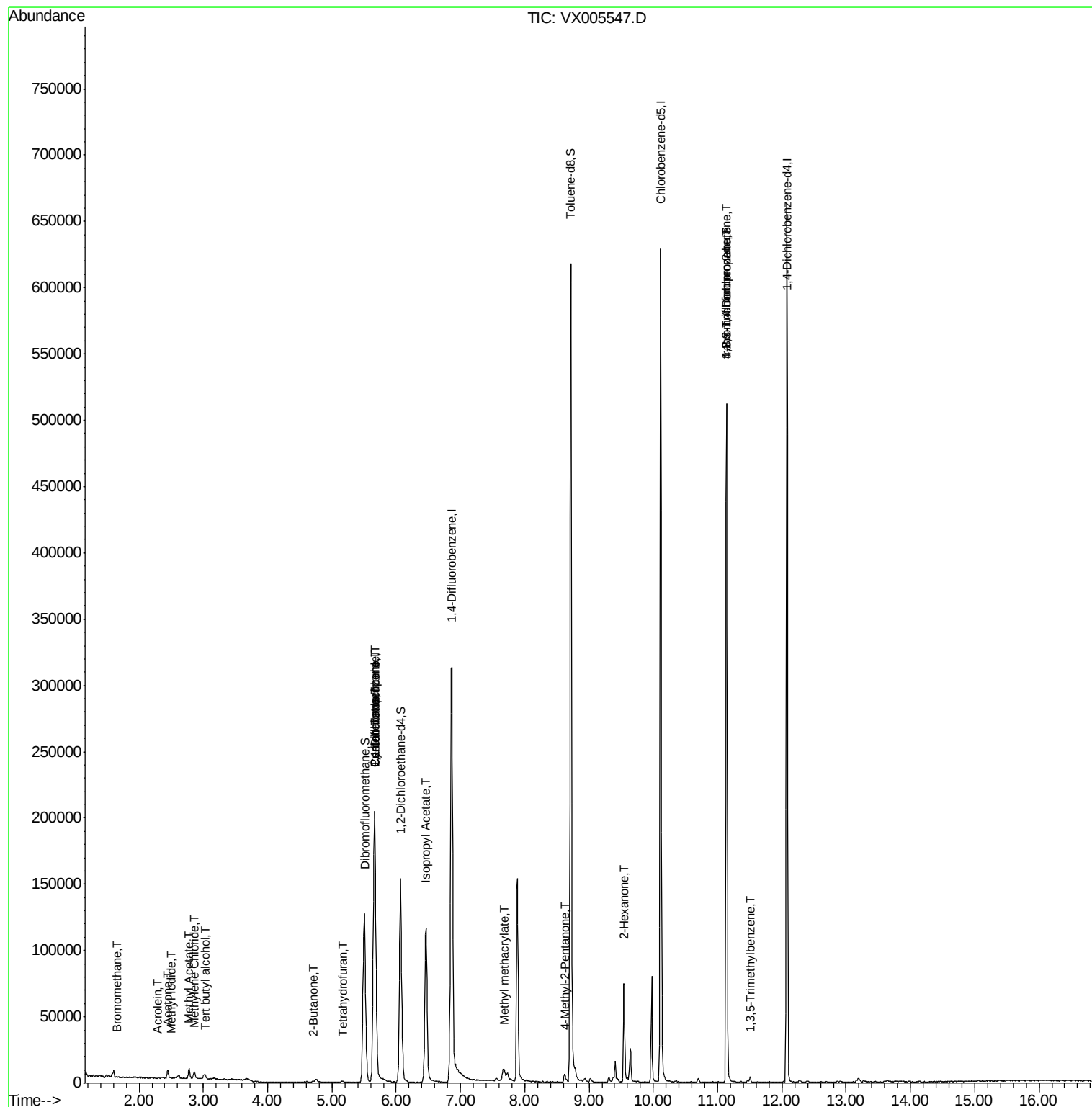
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	352	0.219	ug/l #	74
10) Methyl Iodide	2.51	142	159	2.795	ug/l #	41
11) Tert butyl alcohol	3.02	59	2282	3.323	ug/l #	82
13) Acrolein	2.28	56	111	0.317	ug/l #	59
16) Acetone	2.45	43	6092	4.517	ug/l	92
18) Methyl Acetate	2.78	43	8463	1.111	ug/l	97
20) Methylene Chloride	2.86	84	2097	0.928	ug/l	90
25) 2-Butanone	4.71	43	1793	0.873	ug/l #	81
29) Tetrahydrofuran	5.17	42	1035	0.774	ug/l #	74
31) Cyclohexane	5.67	56	4053	1.178	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14813	4.726	ug/l #	50
38) Carbon Tetrachloride	5.67	117	19465	5.896	ug/l #	14
43) Isopropyl Acetate	6.46	43	157429	26.267	ug/l	95
48) Methyl methacrylate	7.68	41	5644	1.933	ug/l #	21
51) 4-Methyl-2-Pentanone	8.62	43	2807	0.697	ug/l #	34
59) 2-Hexanone	9.54	43	8575	2.700	ug/l #	55
76) 1,2,3-Trichloropropane	11.14	75	64246	23.204	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	1466	0.206	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.14	75	64246	72.888	ug/l #	10

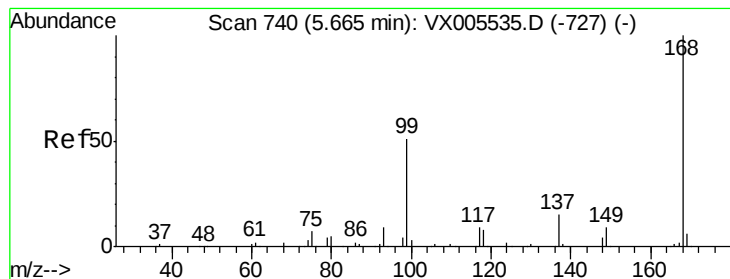
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 25 04:55:09 2018
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QLast Update : Wed Oct 24 13:13:34 2018
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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: VX005547.D

Acq: 24 Oct 2018 17:53

Instrument :

MSVOA_X

ClientSampleId :

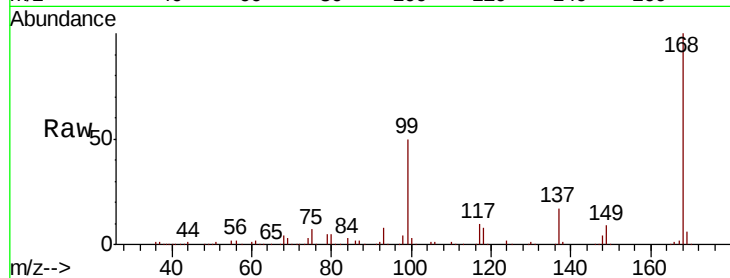
PB114120ZHE#14

Tot Ion:168 Resp: 209087

Ion Ratio Lower Upper

168 100

99 49.5 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

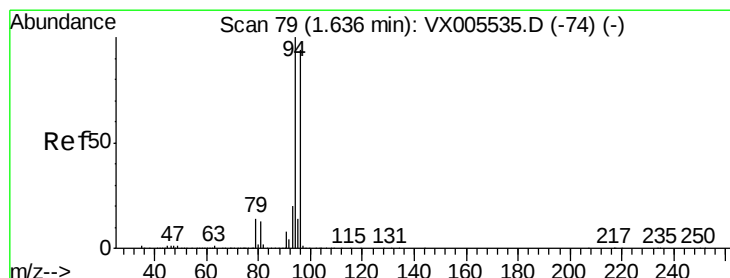
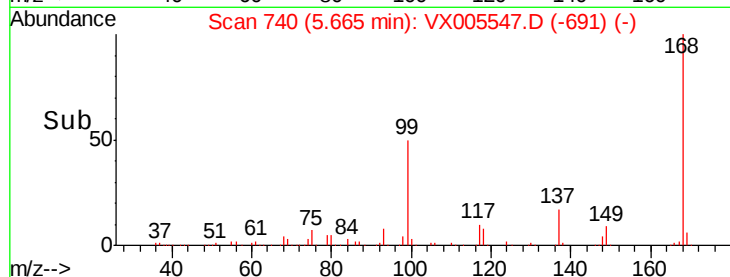
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.219 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX005547.D

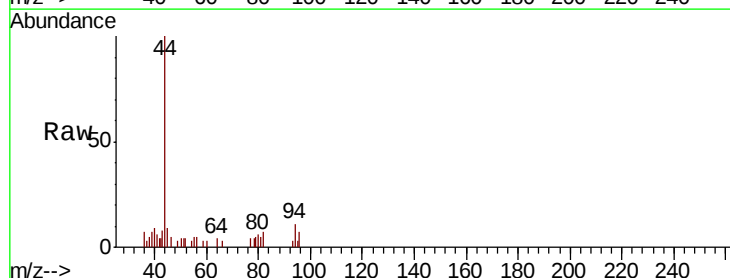
Acq: 24 Oct 2018 17:53

Tgt Ion: 94 Resp: 352

Ion Ratio Lower Upper

94 100

96 68.2 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

200

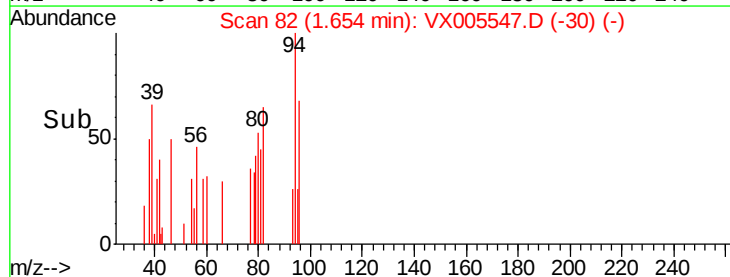
150

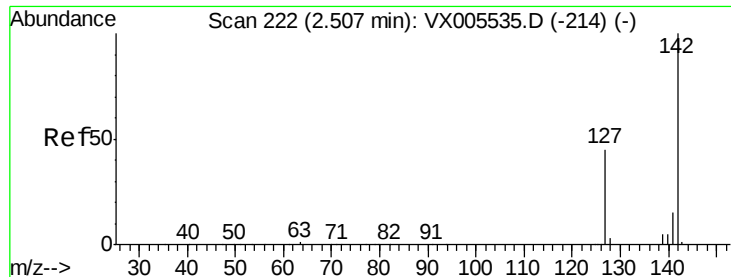
100

50

0

Time--> 1.65 1.70

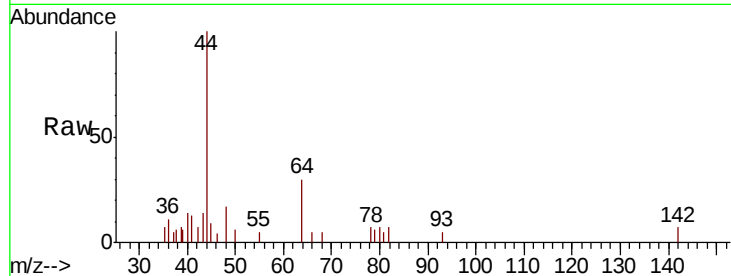




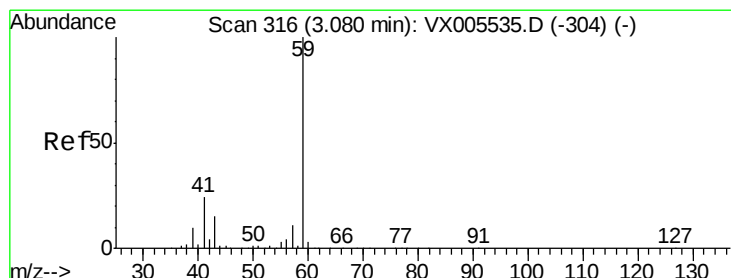
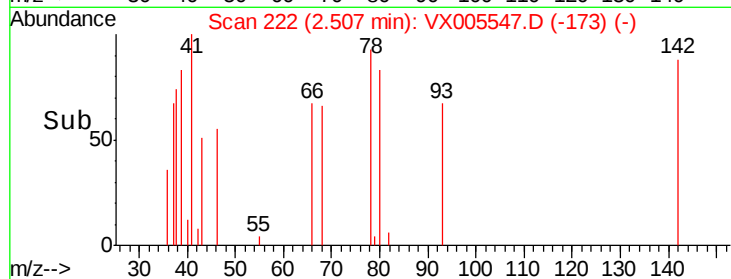
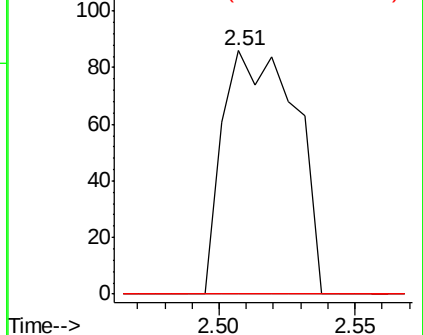
#10
Methyl Iodide
Concen: 2.795 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX005547.D
Acq: 24 Oct 2018 17:53

Instrument :
MSVOA_X
ClientSampleId :
PB114120ZHE#14

Tot Ion:142 Resp: 159
Ion Ratio Lower Upper
142 100
127 0.0 33.8 50.6#
141 0.0 11.4 17.0#

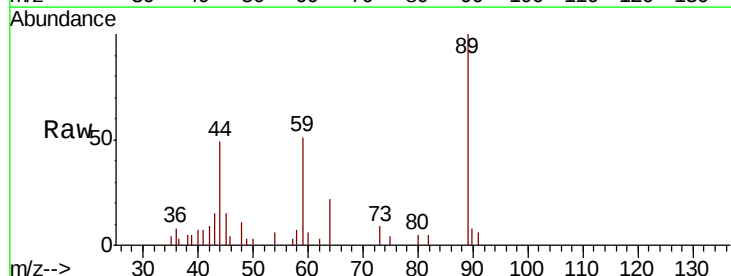


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

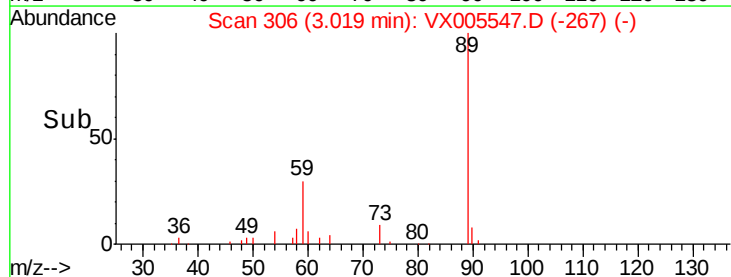
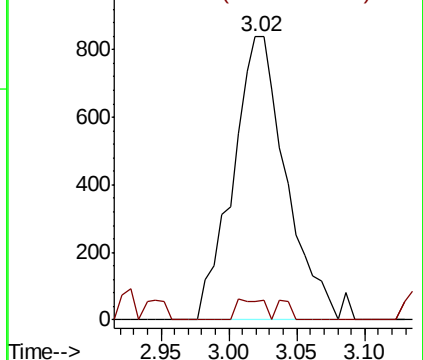


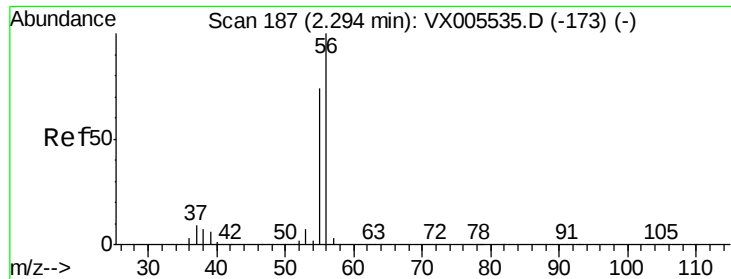
#11
Tert butyl alcohol
Concen: 3.323 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005547.D
Acq: 24 Oct 2018 17:53

Tgt Ion: 59 Resp: 2282
Ion Ratio Lower Upper
59 100
57 3.6 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: 0.317 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX005547.D

Acq: 24 Oct 2018 17:53

Instrument :

MSVOA_X

ClientSampleId :

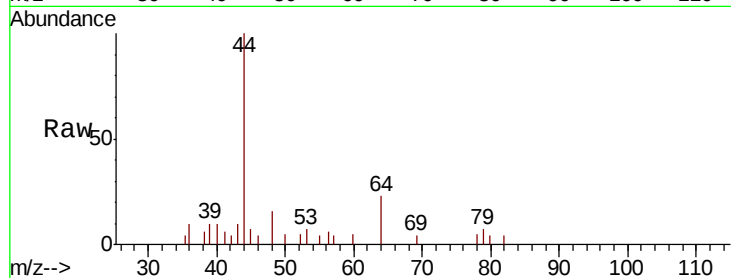
PB114120ZHE#14

Tot Ion: 56 Resp: 111

Ion Ratio Lower Upper

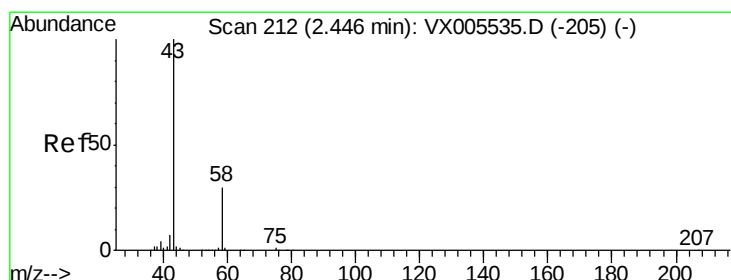
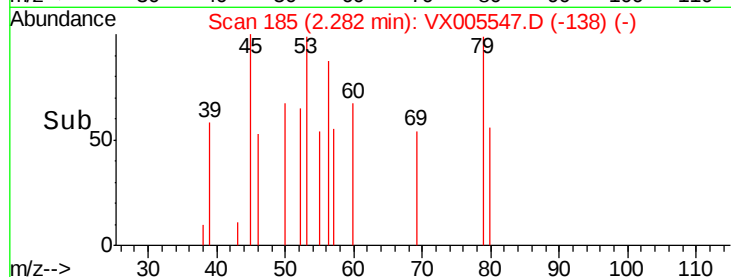
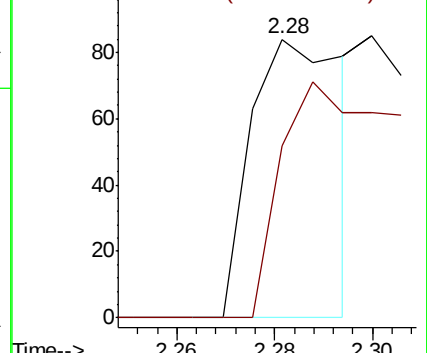
56 100

55 101.8 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: 4.517 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005547.D

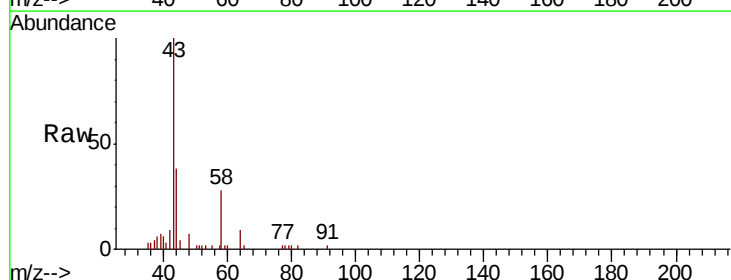
Acq: 24 Oct 2018 17:53

Tgt Ion: 43 Resp: 6092

Ion Ratio Lower Upper

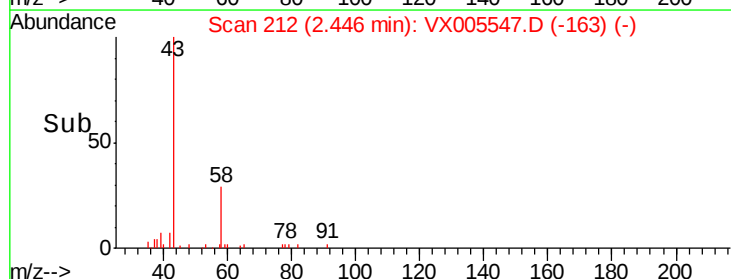
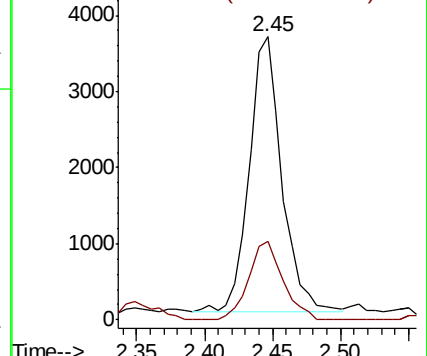
43 100

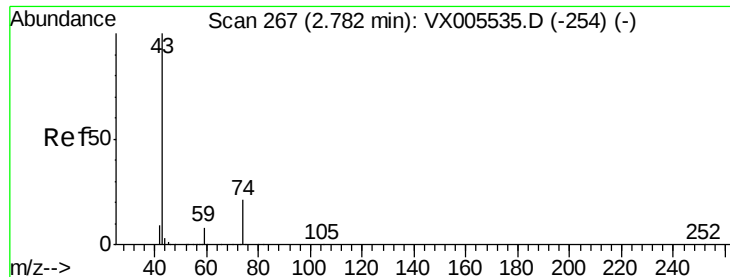
58 28.5 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

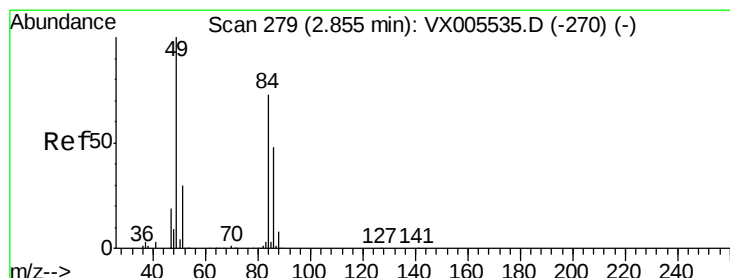
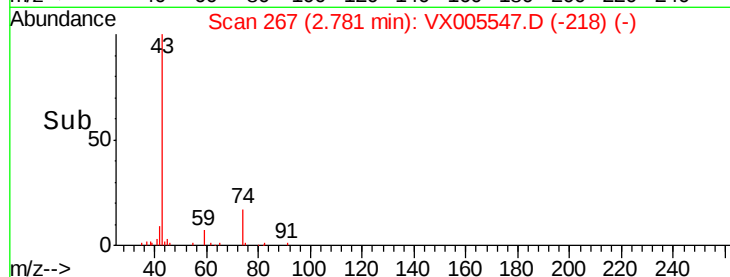
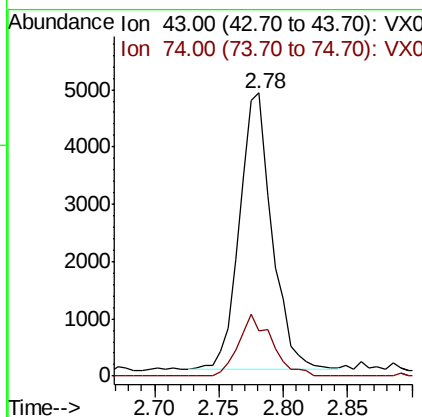
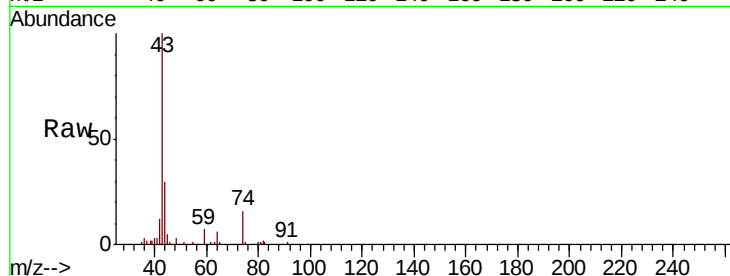




#18
Methvl Acetate
Concen: 1.111 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX005547.D
Acq: 24 Oct 2018 17:53

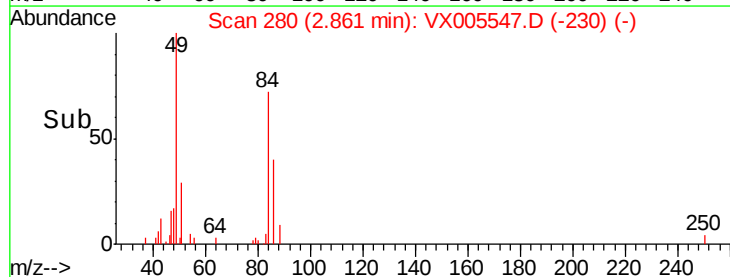
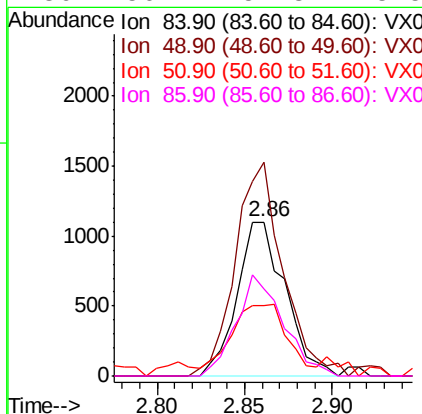
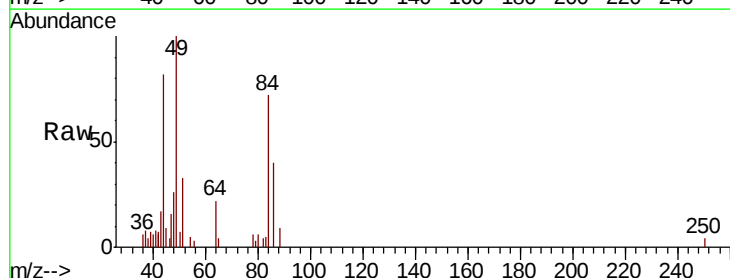
Instrument :
MSVOA_X
ClientSampleId :
PB114120ZHE#14

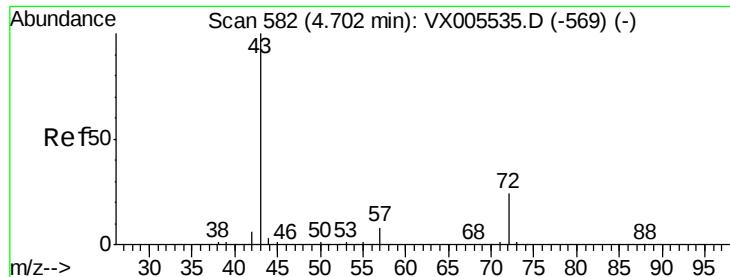
Tot Ion: 43 Resp: 8463
Ion Ratio Lower Upper
43 100
74 22.9 19.4 29.2



#20
Methylene Chloride
Concen: 0.928 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005547.D
Acq: 24 Oct 2018 17:53

Tgt Ion: 84 Resp: 2097
Ion Ratio Lower Upper
84 100
49 138.6 101.2 151.8
51 39.8 29.5 44.3
86 56.1 52.3 78.5





#25

2-Butanone

Concen: 0.873 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX005547.D

Acq: 24 Oct 2018 17:53

Instrument :

MSVOA_X

ClientSampleId :

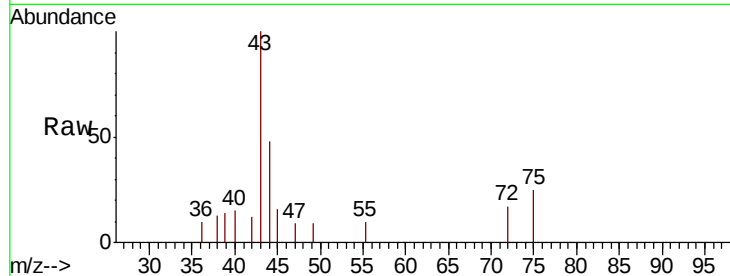
PB114120ZHE#14

Tot Ion: 43 Resp: 1793

Ion Ratio Lower Upper

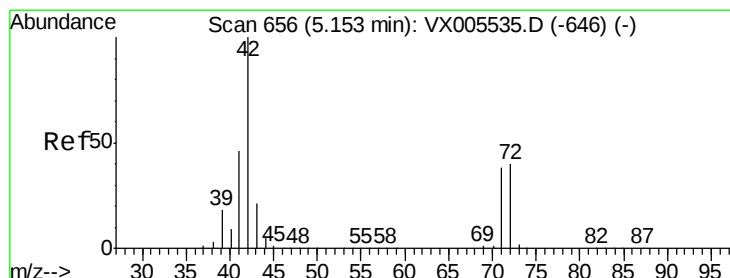
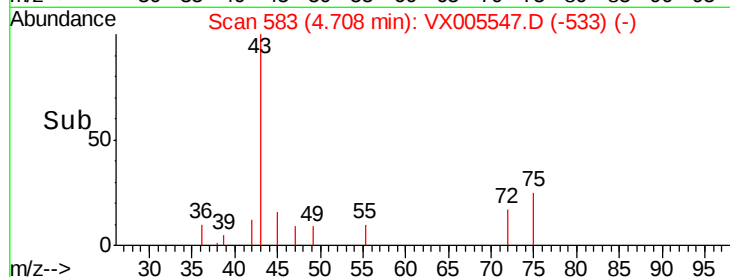
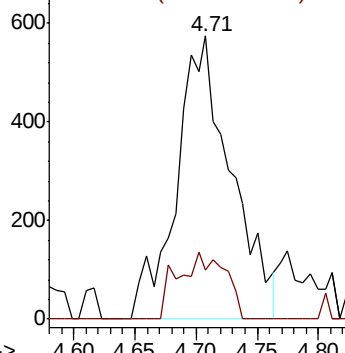
43 100

72 17.4 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.774 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005547.D

Acq: 24 Oct 2018 17:53

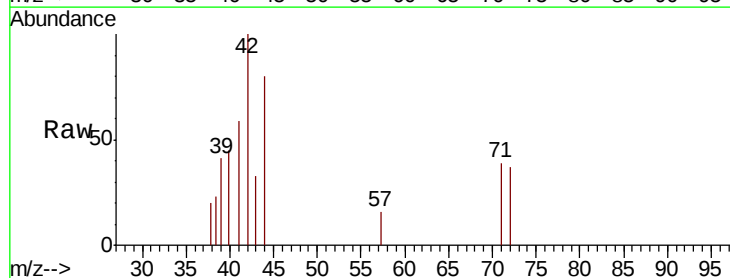
Tgt Ion: 42 Resp: 1035

Ion Ratio Lower Upper

42 100

72 33.9 37.4 56.0#

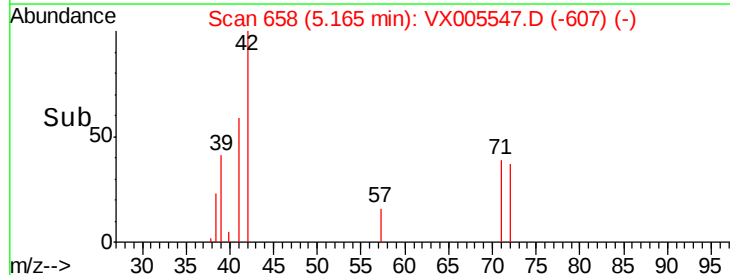
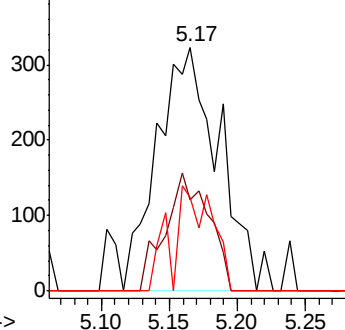
71 22.2 34.5 51.7#

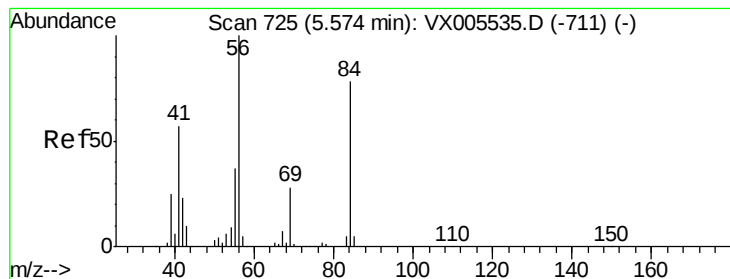


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.178 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX005547.D

Acq: 24 Oct 2018 17:53

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ClientSampleId :

PB114120ZHE#14

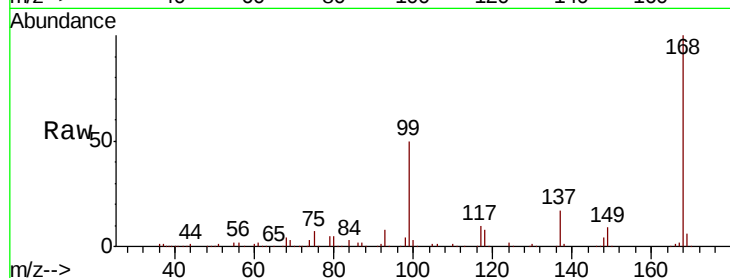
Tot Ion: 56 Resp: 4053

Ion Ratio Lower Upper

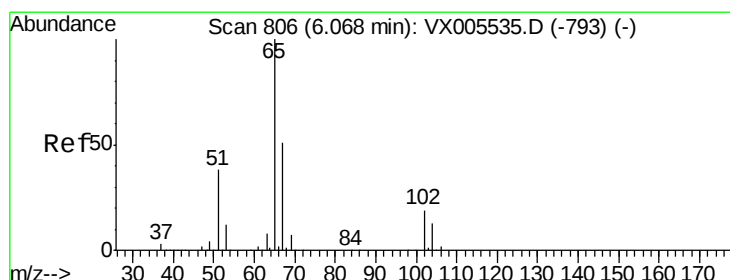
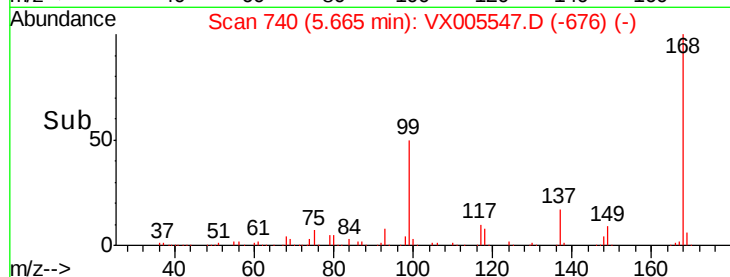
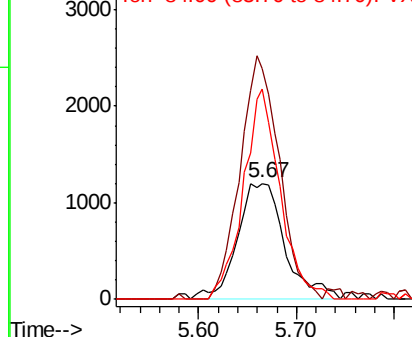
56 100

69 199.7 25.4 38.2#

84 182.1 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: 55.701 ug/l

RT: 6.07 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX005547.D

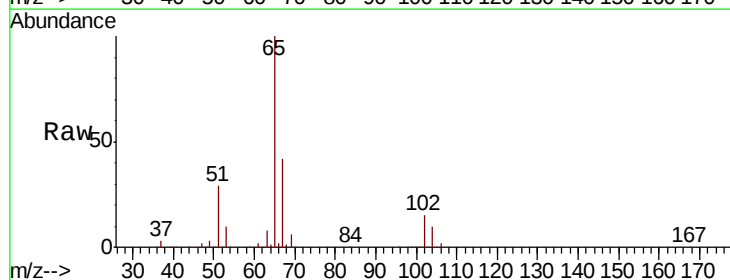
Acq: 24 Oct 2018 17:53

Tgt Ion: 65 Resp: 142167

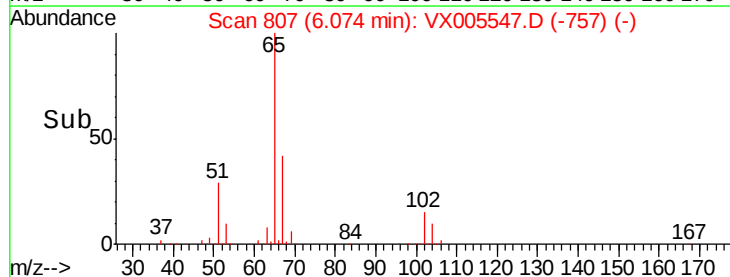
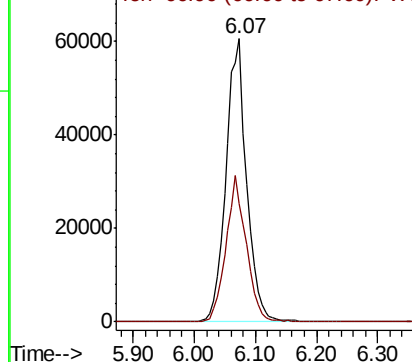
Ion Ratio Lower Upper

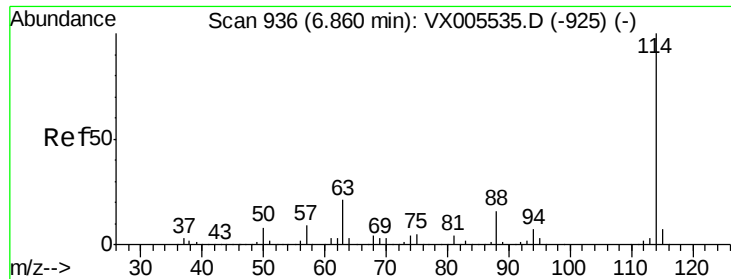
65 100

67 50.8 0.0 106.8



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

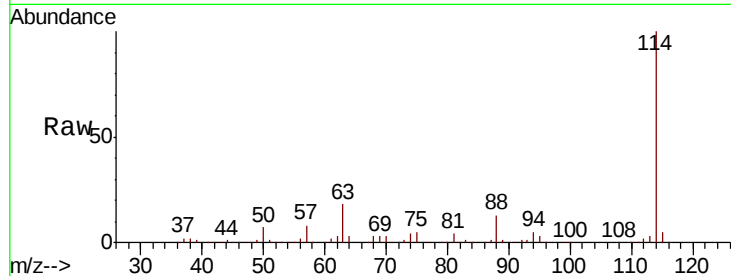




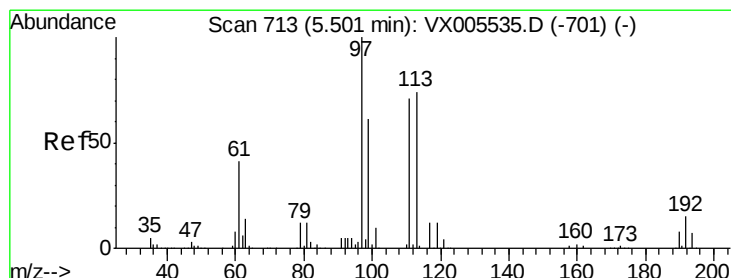
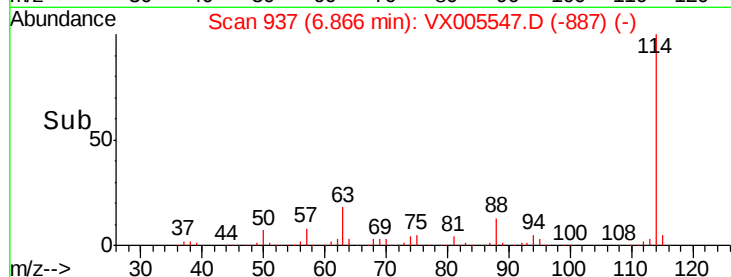
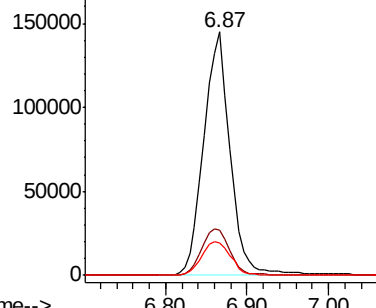
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.87 min Scan# 937
Delta R.T. 0.01 min
Lab File: VX005547.D
Acq: 24 Oct 2018 17:53

Instrument :
MSVOA_X
ClientSampleId :
PB114120ZHE#14

Tot Ion:114 Resp: 322973
Ion Ratio Lower Upper
114 100
63 18.4 0.0 39.0
88 13.2 0.0 30.4

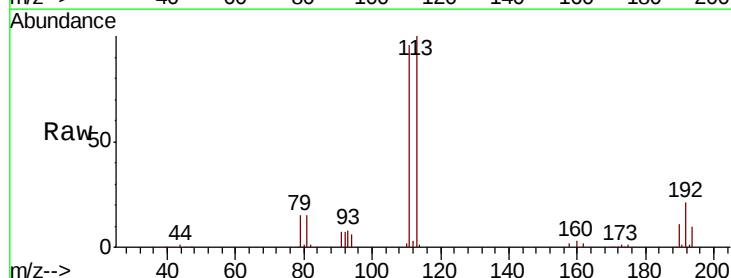


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

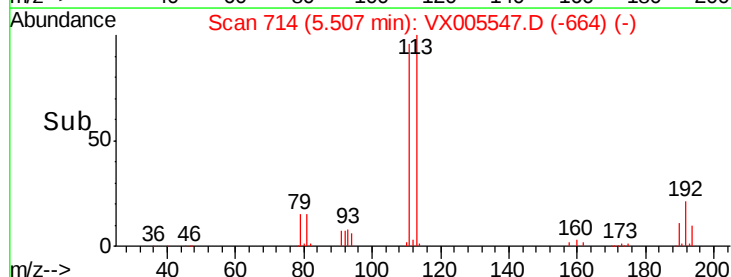
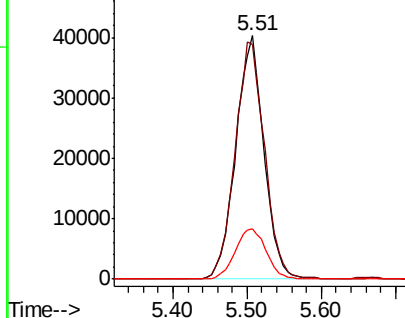


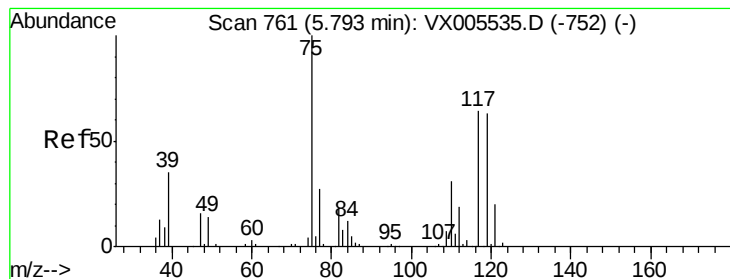
#35
Dibromofluoromethane
Concen: 48.926 ug/l
RT: 5.51 min Scan# 714
Delta R.T. 0.01 min
Lab File: VX005547.D
Acq: 24 Oct 2018 17:53

Tgt Ion:113 Resp: 106996
Ion Ratio Lower Upper
113 100
111 101.8 82.4 123.6
192 22.7 19.4 29.2



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: 4.726 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX005547.D

Acq: 24 Oct 2018 17:53

Instrument :

MSVOA_X

ClientSampleId :

PB114120ZHE#14

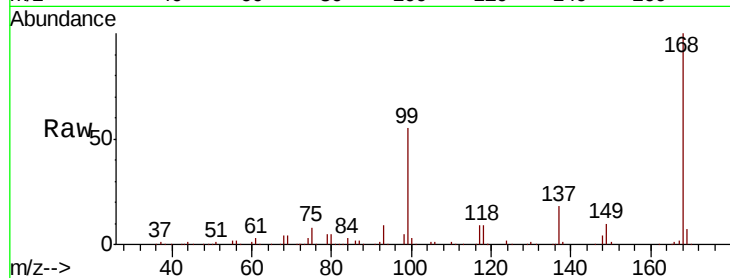
Tot Ion: 75 Resp: 14813

Ion Ratio Lower Upper

75 100

110 10.0 18.0 54.0#

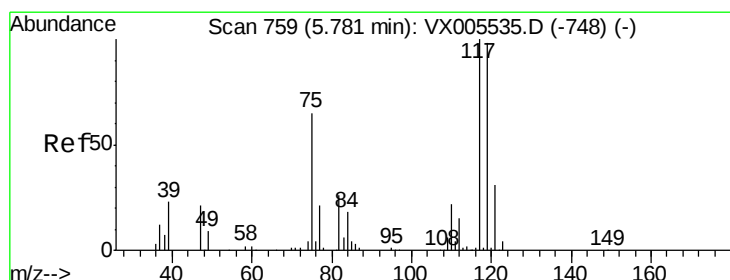
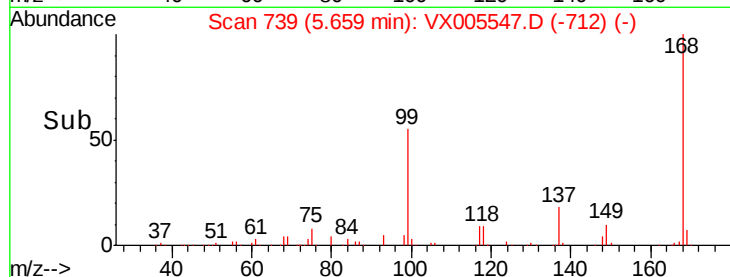
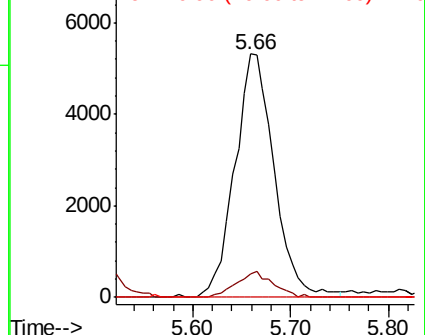
77 0.0 24.6 36.8#



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: 5.896 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005547.D

Acq: 24 Oct 2018 17:53

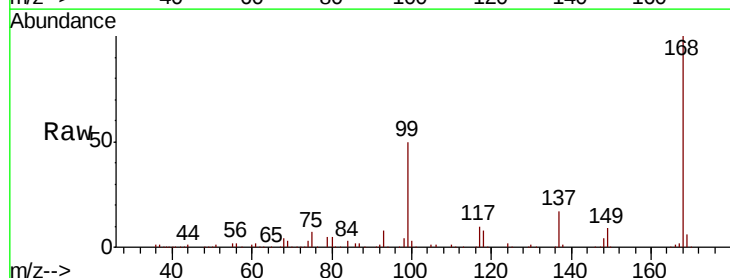
Tgt Ion: 117 Resp: 19465

Ion Ratio Lower Upper

117 100

119 4.2 78.8 118.2#

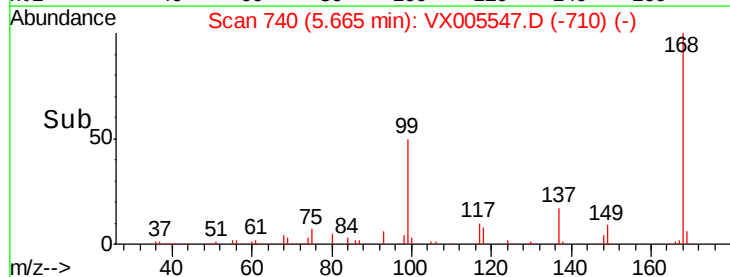
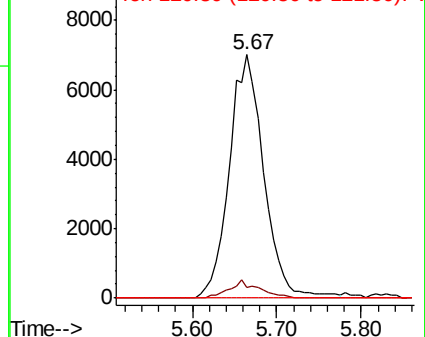
121 0.0 24.9 37.3#

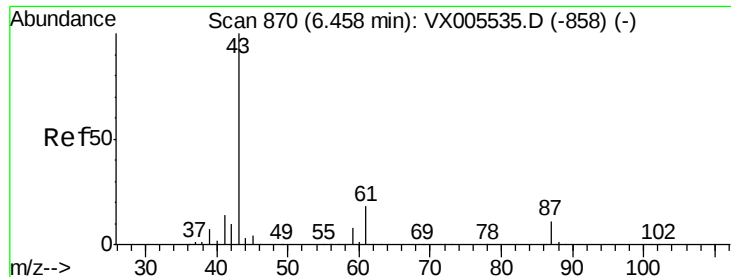


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



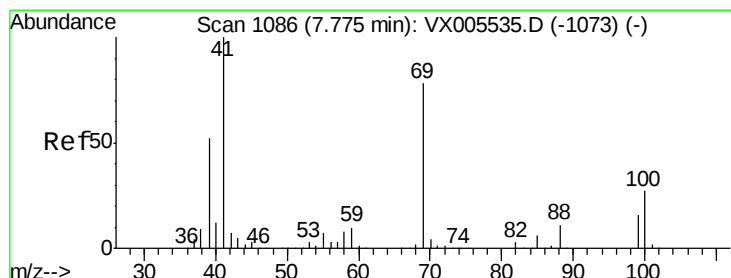
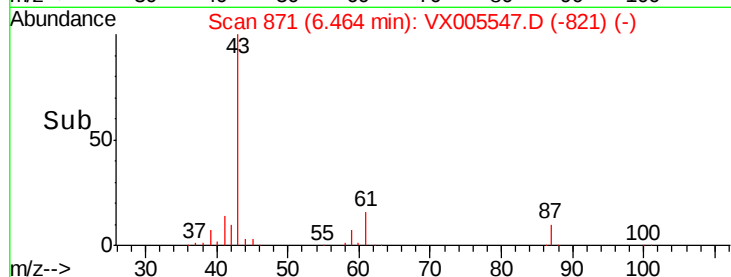
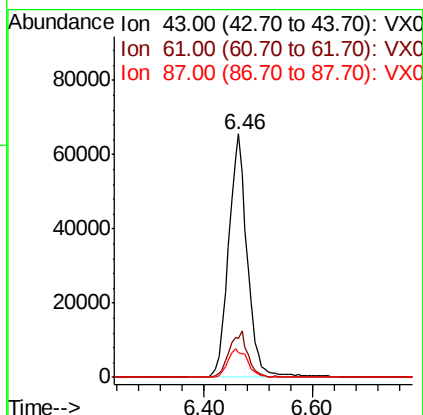
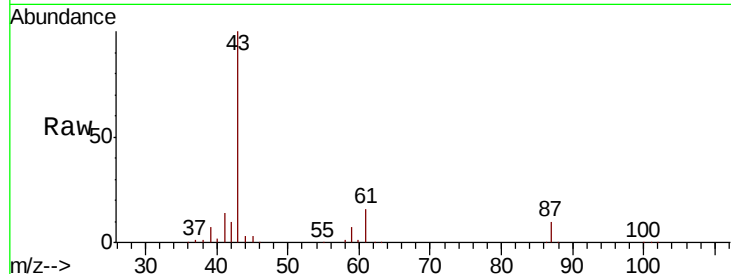


#43

Isopropyl Acetate
 Concen: 26.267 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. 0.01 min
 Lab File: VX005547.D
 Acq: 24 Oct 2018 17:53

Instrument :
 MSVOA_X
 ClientSampleId :
 PB114120ZHE#14

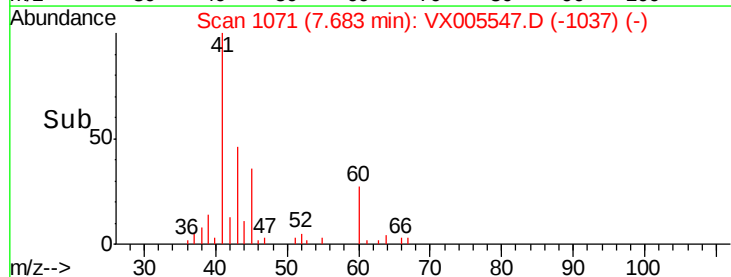
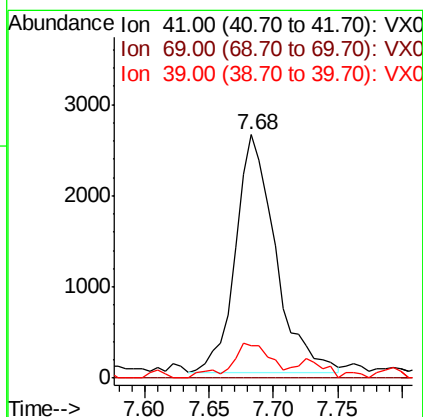
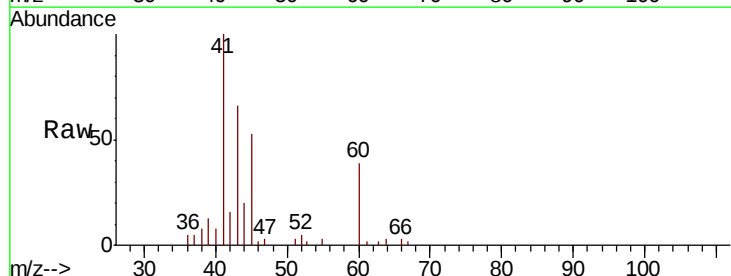
Tot Ion	43	Resp	157429
Ion Ratio	Lower	Upper	
43	100		
61	18.8	17.0	25.4
87	12.3	11.4	17.2

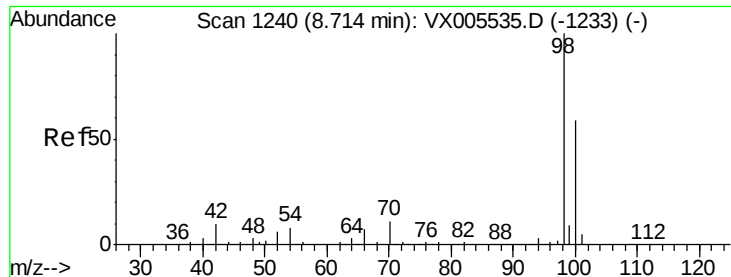


#48

Methyl methacrylate
 Concen: 1.933 ug/l
 RT: 7.68 min Scan# 1071
 Delta R.T. -0.09 min
 Lab File: VX005547.D
 Acq: 24 Oct 2018 17:53

Tgt Ion	41	Resp	5644
Ion Ratio	Lower	Upper	
41	100		
69	0.0	70.2	105.4#
39	14.4	42.7	64.1#





#50

Toluene-d8

Concen: 49.290 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005547.D

Acq: 24 Oct 2018 17:53

Instrument :

MSVOA_X

ClientSampleId :

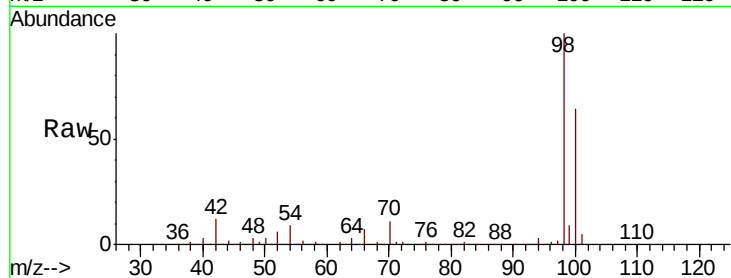
PB114120ZHE#14

Tot Ion: 98 Resp: 387320

Ion Ratio Lower Upper

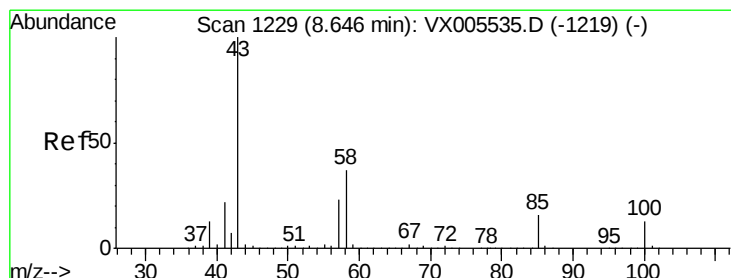
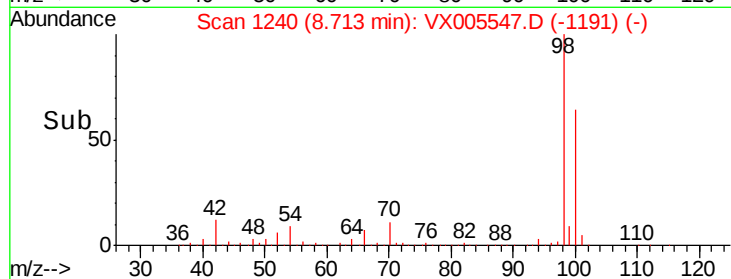
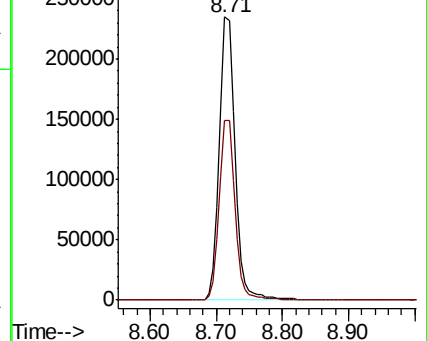
98 100

100 63.6 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.697 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.02 min

Lab File: VX005547.D

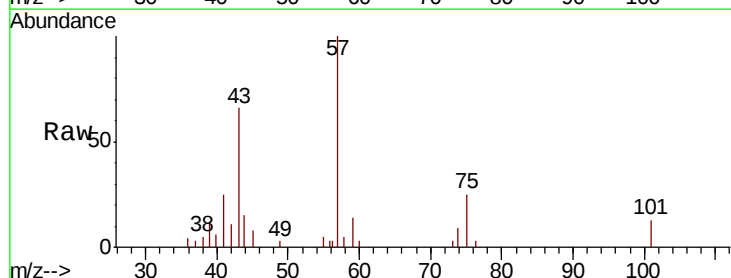
Acq: 24 Oct 2018 17:53

Tgt Ion: 43 Resp: 2807

Ion Ratio Lower Upper

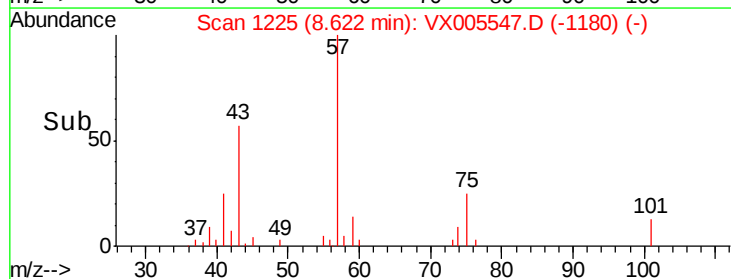
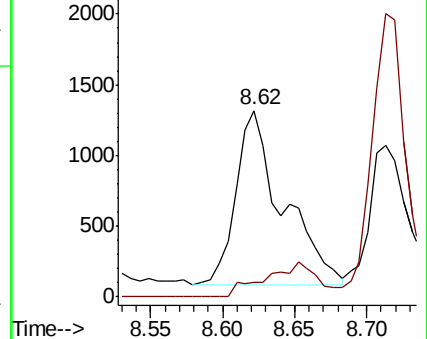
43 100

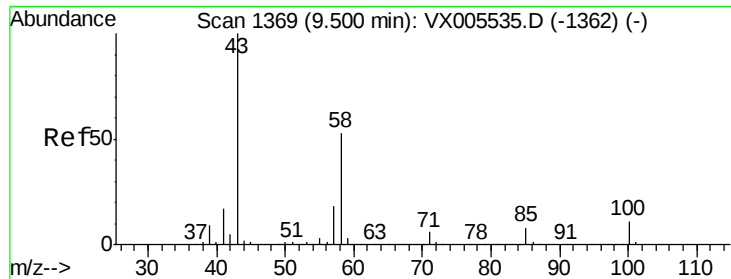
58 0.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#59

2-Hexanone

Concen: 2.700 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.04 min

Lab File: VX005547.D

Acq: 24 Oct 2018 17:53

Instrument :

MSVOA_X

ClientSampleId :

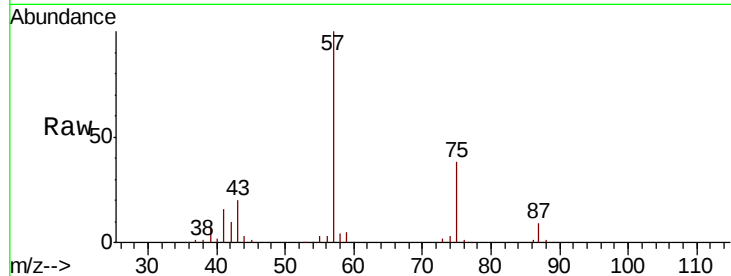
PB114120ZHE#14

Tot Ion: 43 Resp: 8575

Ion Ratio Lower Upper

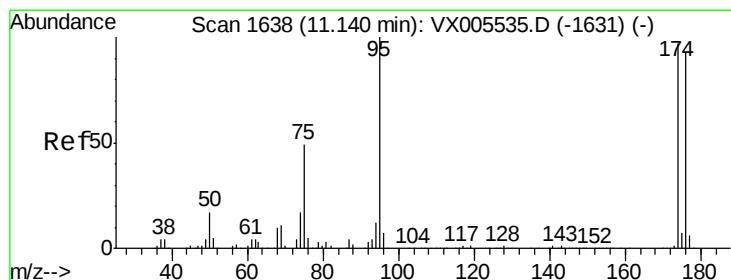
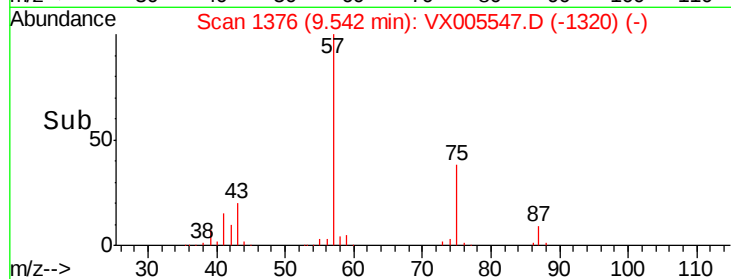
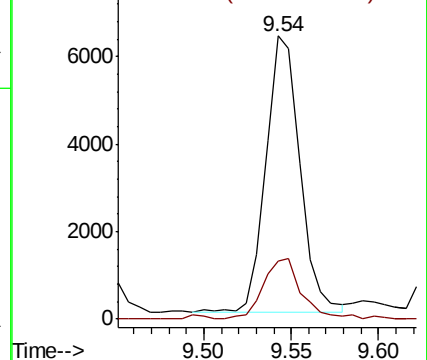
43 100

58 24.5 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: 42.792 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005547.D

Acq: 24 Oct 2018 17:53

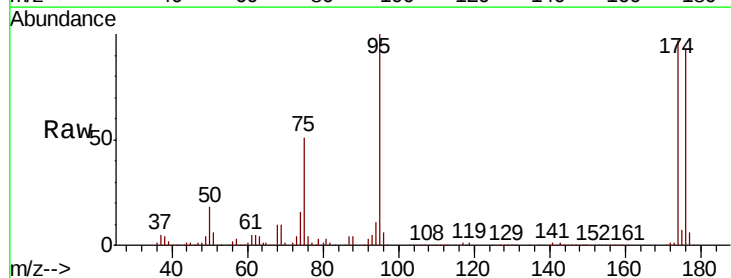
Tgt Ion: 95 Resp: 126987

Ion Ratio Lower Upper

95 100

174 93.4 0.0 185.2

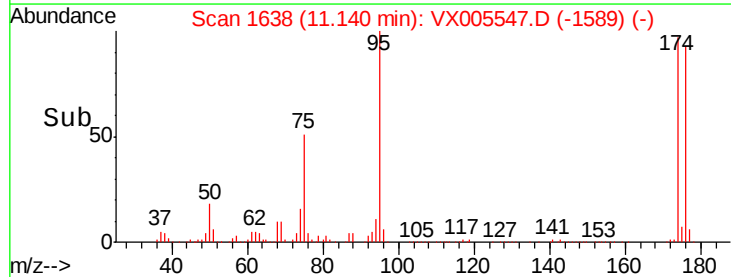
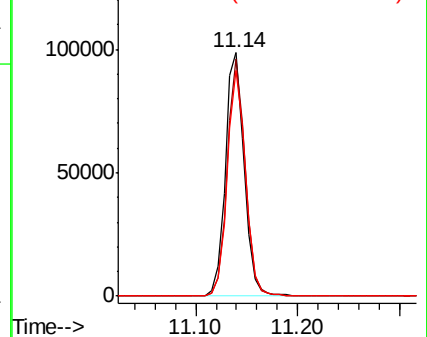
176 89.9 0.0 178.6

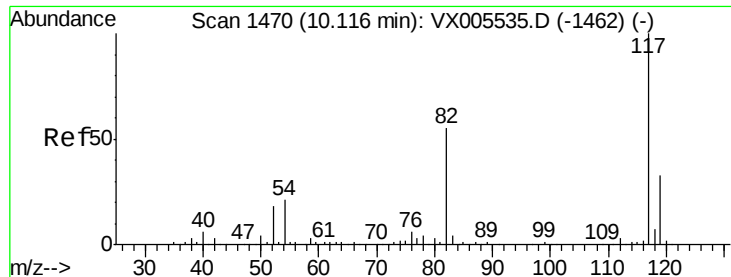


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

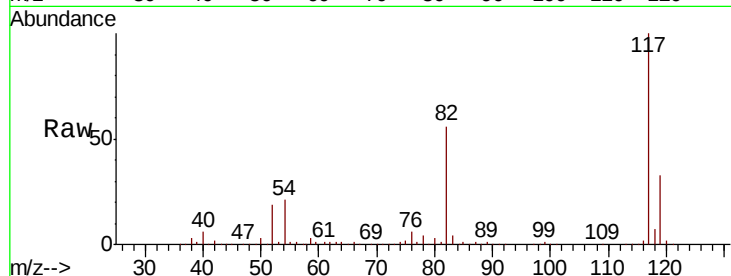




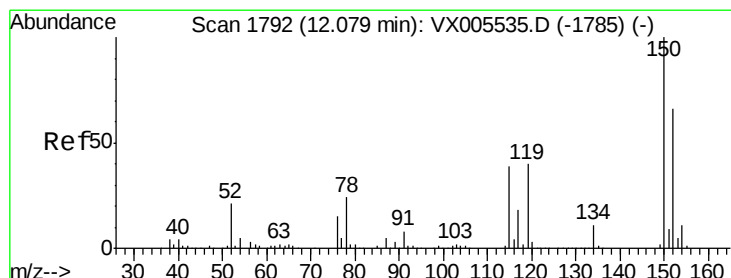
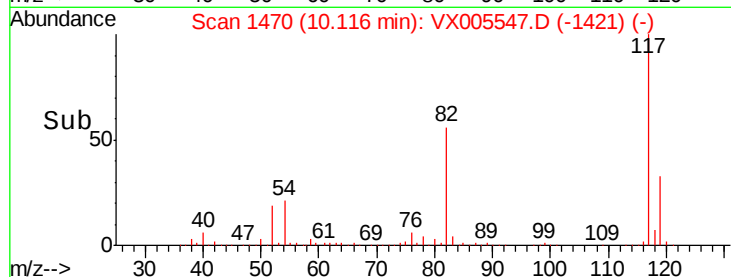
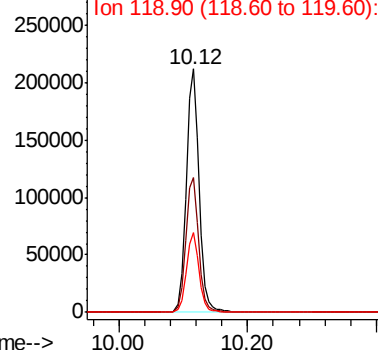
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005547.D
Acq: 24 Oct 2018 17:53

Instrument :
MSVOA_X
ClientSampleId :
PB114120ZHE#14

Tot Ion:117 Resp: 295658
Ion Ratio Lower Upper
117 100
82 55.6 47.8 71.6
119 32.6 29.3 43.9

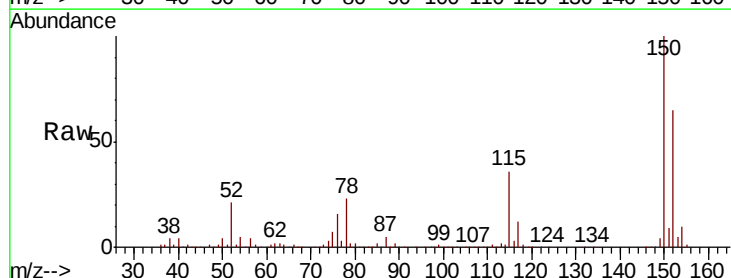


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

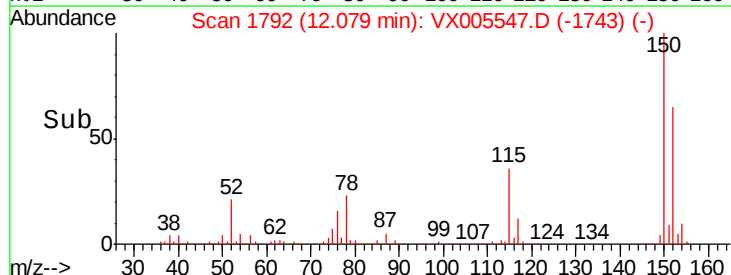
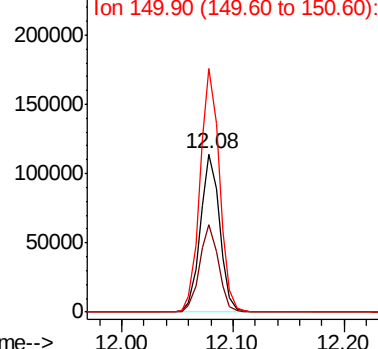


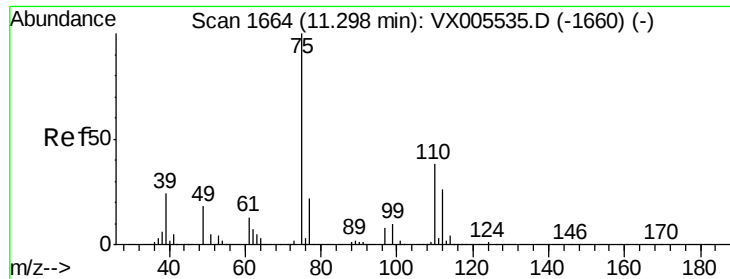
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005547.D
Acq: 24 Oct 2018 17:53

Tgt Ion:152 Resp: 135933
Ion Ratio Lower Upper
152 100
115 54.5 39.0 117.0
150 155.7 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

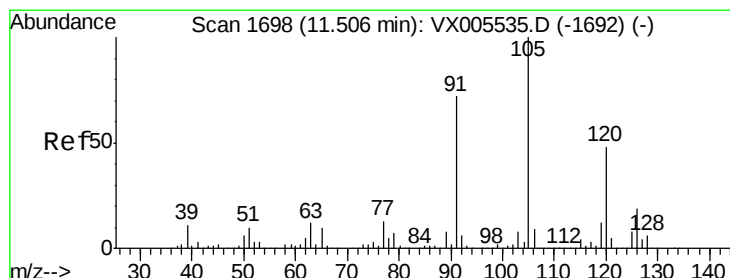
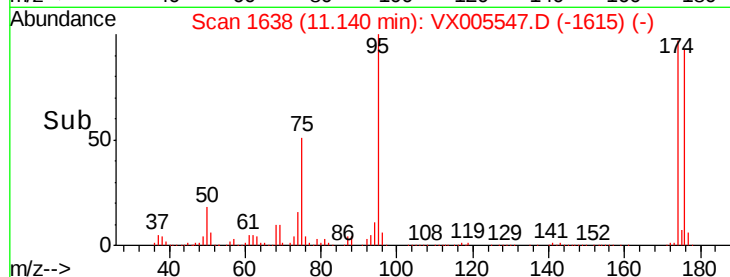
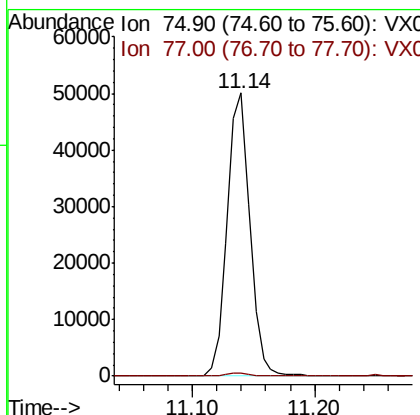
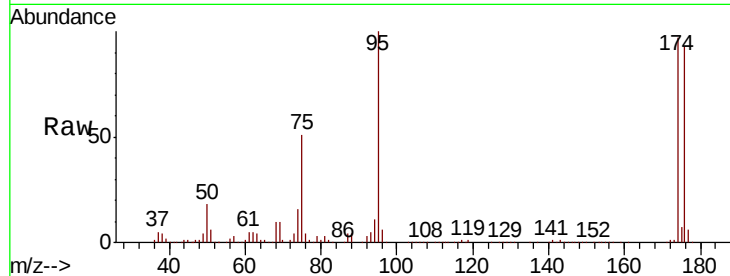




#76
 1,2,3-Trichloropropane
 Concen: 23.204 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX005547.D
 Acq: 24 Oct 2018 17:53

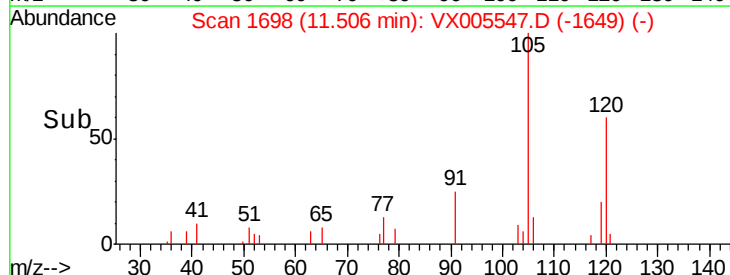
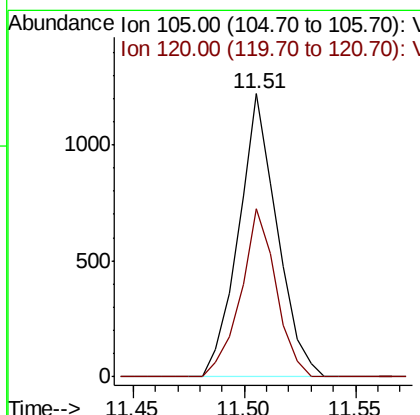
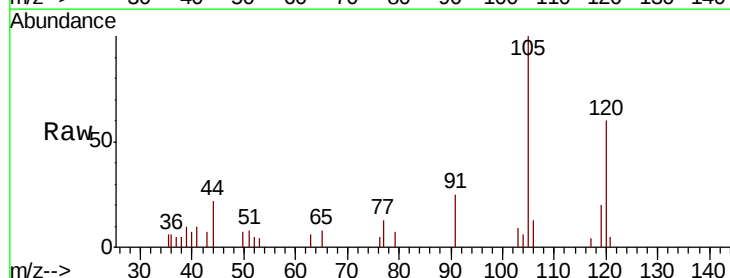
Instrument :
 MSVOA_X
 ClientSampleId :
 PB114120ZHE#14

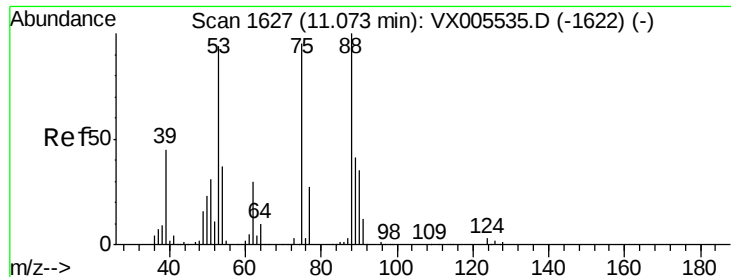
Tot Ion: 75 Resp: 64246
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.2 60.6#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.206 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX005547.D
 Acq: 24 Oct 2018 17:53

Tgt Ion: 105 Resp: 1466
 Ion Ratio Lower Upper
 105 100
 120 54.5 25.6 76.8





#81

trans-1,4-Dichloro-2-butene

Concen: 72.888 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005547.D

Acq: 24 Oct 2018 17:53

Instrument :

MSVOA_X

ClientSampleId :

PB114120ZHE#14

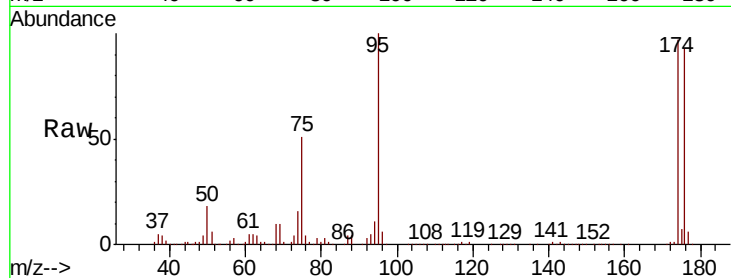
Tot Ion: 75 Resp: 64246

Ion Ratio Lower Upper

75 100

53 0.4 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

