

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102918\
 Data File : VX005657.D
 Acq On : 29 Oct 2018 13:51
 Operator : JC/MD
 Sample : J5692-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ143I-20181024

Quant Time: Oct 30 01:58:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 25 02:52:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	229395	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	326915	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	290766	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	181007	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	139473	49.81	ug/l	0.00
Spiked Amount			Recovery	=	99.62%	
35) Dibromofluoromethane	5.51	113	111626	50.43	ug/l	0.00
Spiked Amount			Recovery	=	100.86%	
50) Toluene-d8	8.71	98	386698	48.62	ug/l	0.00
Spiked Amount			Recovery	=	97.24%	
62) 4-Bromofluorobenzene	11.14	95	132808	44.21	ug/l	0.00
Spiked Amount			Recovery	=	88.42%	

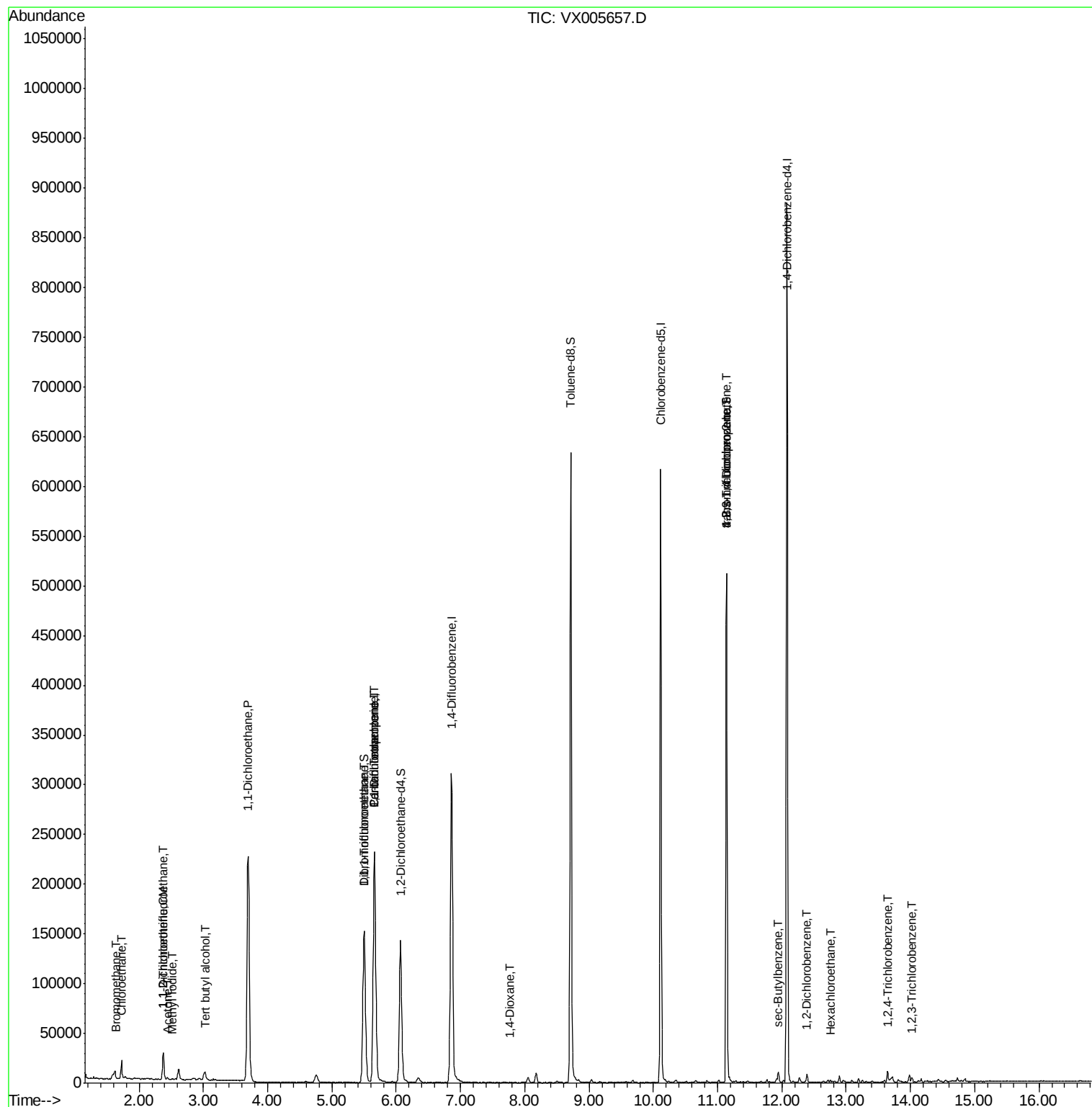
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	648	0.367	ug/l	92
6) Chloroethane	1.73	64	14847	8.197	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.39	101	466	0.206	ug/l #	90
10) Methyl Iodide	2.52	142	376	2.876	ug/l #	89
11) Tert butyl alcohol	3.03	59	5544	7.357	ug/l #	75
12) 1,1-Dichloroethene	2.37	96	8864	4.116	ug/l	94
16) Acetone	2.44	43	1966	1.329	ug/l	100
18) Methyl Acetate	2.77	43	417	Below Cal	#	55
24) 1,1-Dichloroethane	3.70	63	270224	59.224	ug/l	99
32) 1,1,1-Trichloroethane	5.49	97	17295	4.591	ug/l	97
36) 1,1-Dichloropropene	5.66	75	15857	4.998	ug/l #	49
38) Carbon Tetrachloride	5.66	117	21029	6.293	ug/l #	16
49) 1,4-Dioxane	7.77	88	54	0.836	ug/l #	10
76) 1,2,3-Trichloropropane	11.14	75	65605	17.106	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	65605	55.896	ug/l #	9
85) sec-Butylbenzene	11.94	105	5104	0.453	ug/l	81
90) Hexachloroethane	12.76	117	806	0.464	ug/l #	2
91) 1,2-Dichlorobenzene	12.40	146	2254	0.384	ug/l	98
93) 1,2,4-Trichlorobenzene	13.65	180	2544	0.598	ug/l #	89
96) 1,2,3-Trichlorobenzene	14.02	180	904	0.210	ug/l #	57

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX005657.D

Acq: 29 Oct 2018 13:51

Instrument :

MSVOA_X

ClientSampleId :

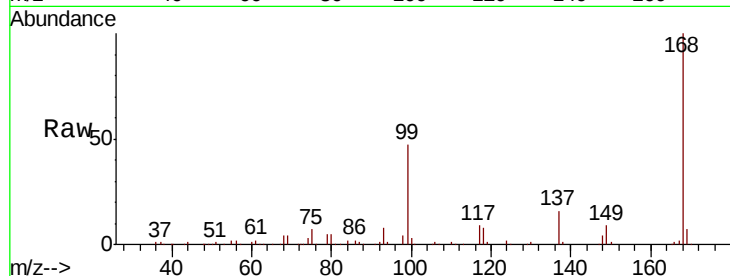
SA-PZ143I-20181024

Tot Ion:168 Resp: 229395

Ion Ratio Lower Upper

168 100

99 47.3 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

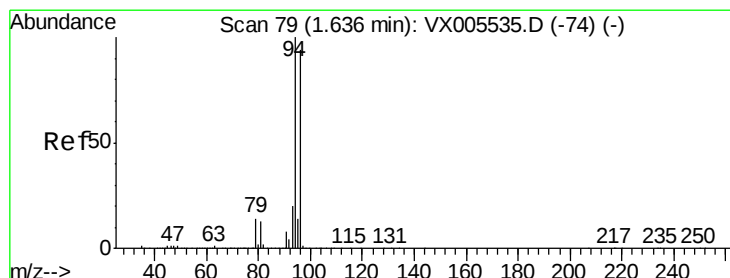
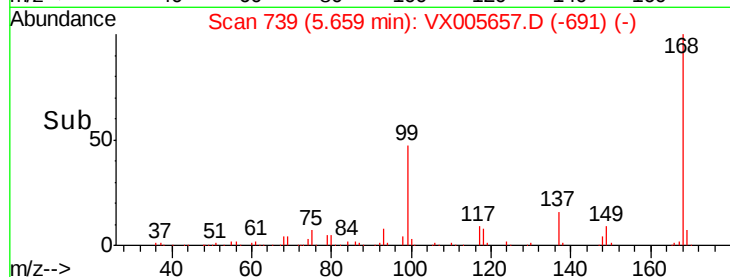
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.367 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005657.D

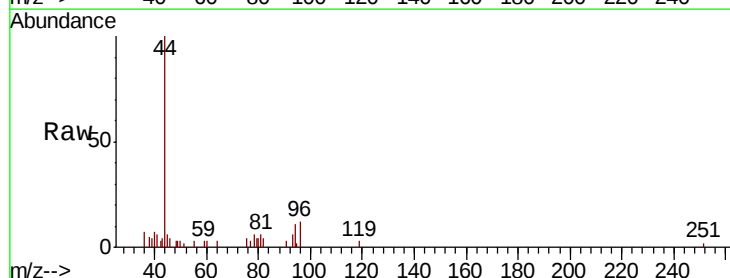
Acq: 29 Oct 2018 13:51

Tgt Ion: 94 Resp: 648

Ion Ratio Lower Upper

94 100

96 86.2 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

300

250

200

150

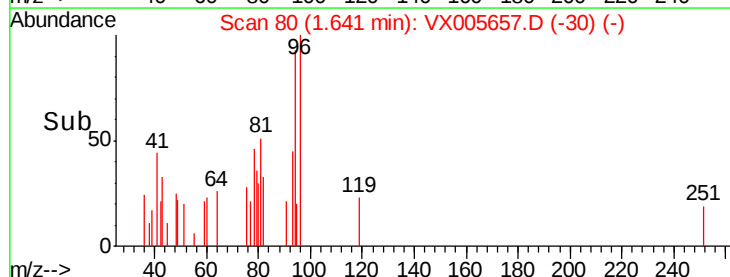
100

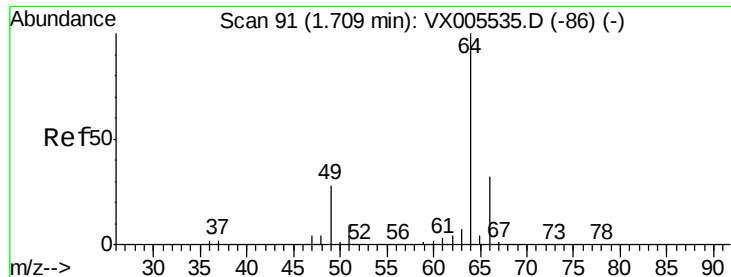
50

0

Time-->

1.60 1.65





#6

Chloroethane

Concen: 8.197 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.02 min

Lab File: VX005657.D

Acq: 29 Oct 2018 13:51

Instrument :

MSVOA_X

ClientSampleId :

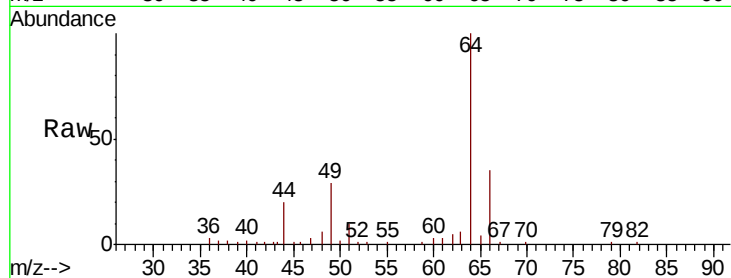
SA-PZ143I-20181024

Tot Ion: 64 Resp: 14847

Ion Ratio Lower Upper

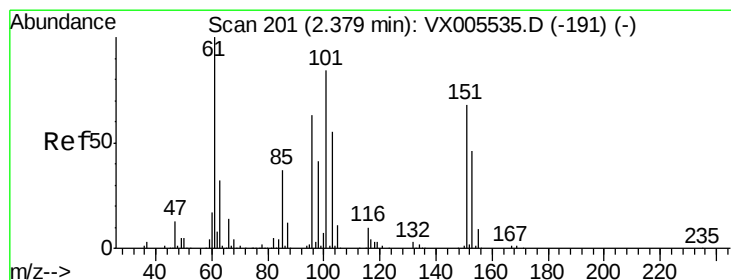
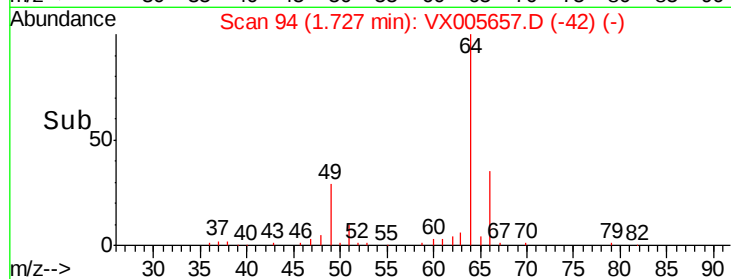
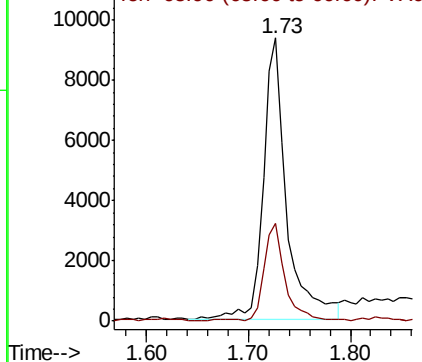
64 100

66 35.0 25.8 38.6



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.206 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX005657.D

Acq: 29 Oct 2018 13:51

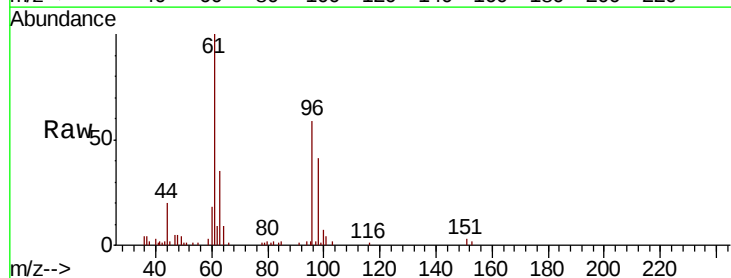
Tgt Ion:101 Resp: 466

Ion Ratio Lower Upper

101 100

85 34.5 35.0 52.4#

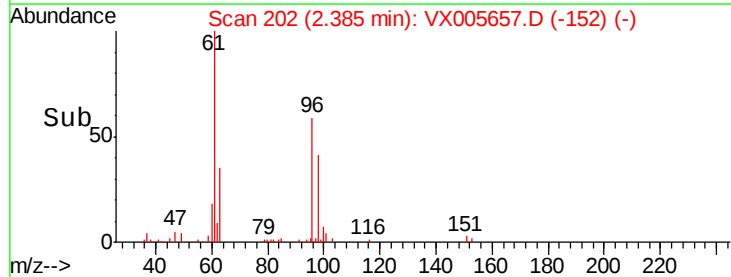
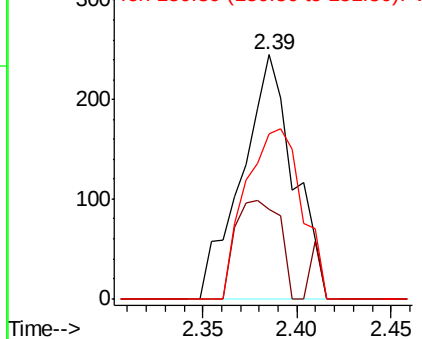
151 75.5 66.2 99.2

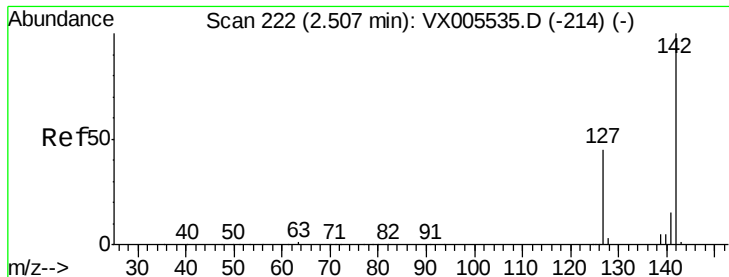


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

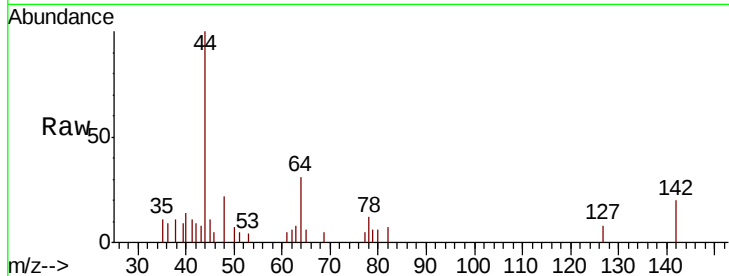




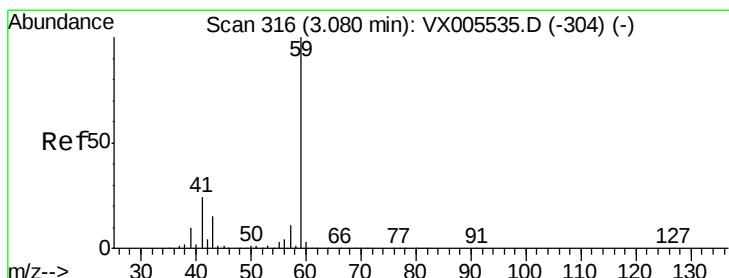
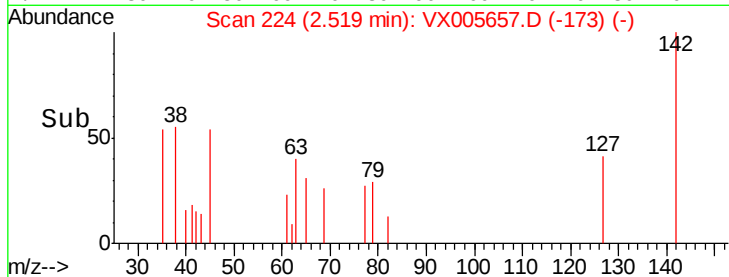
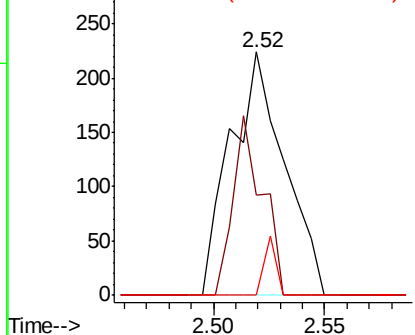
#10
Methvl Iodide
Concen: 2.876 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX005657.D
Acq: 29 Oct 2018 13:51

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ143I-20181024

Tot Ion:142 Resp: 376
Ion Ratio Lower Upper
142 100
127 40.2 36.0 54.0
141 5.3 11.7 17.5#

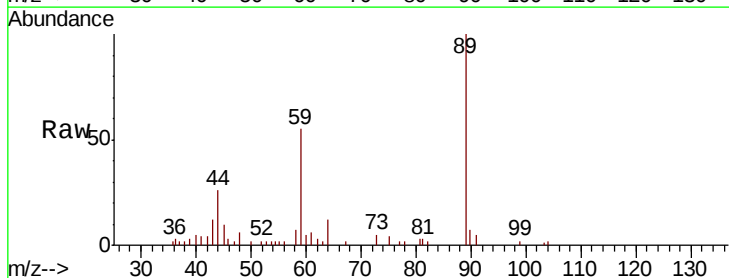


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

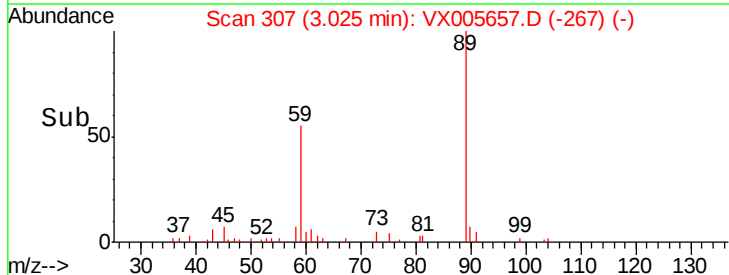
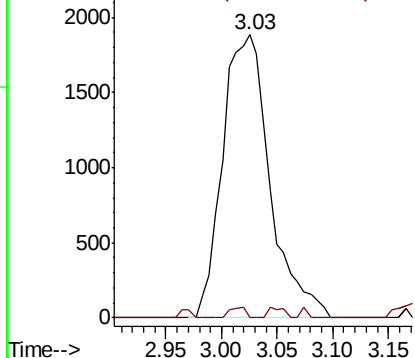


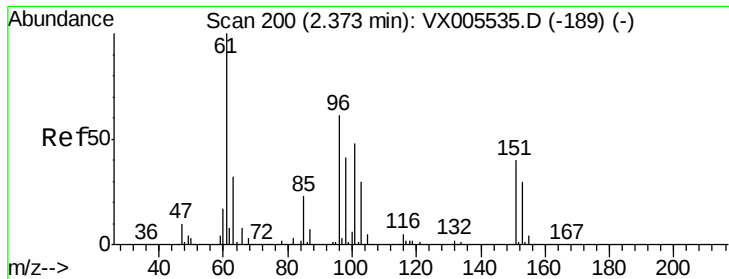
#11
Tert butyl alcohol
Concen: 7.357 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.06 min
Lab File: VX005657.D
Acq: 29 Oct 2018 13:51

Tgt Ion: 59 Resp: 5544
Ion Ratio Lower Upper
59 100
57 1.2 8.5 12.7#



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

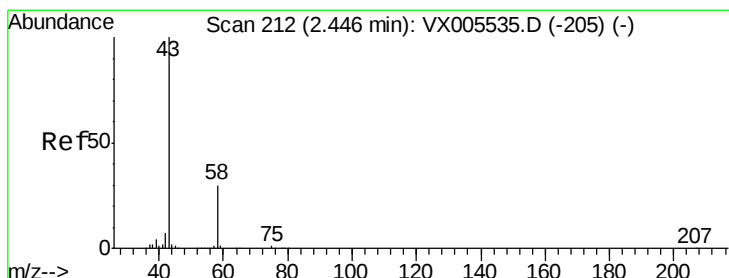
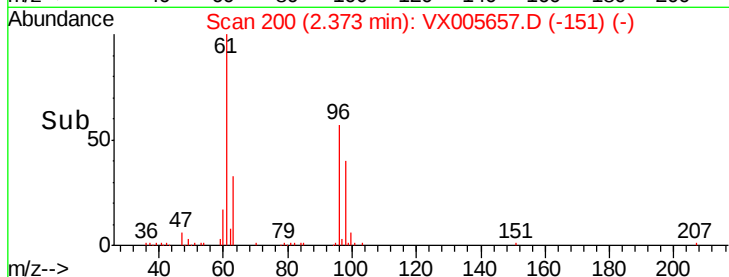
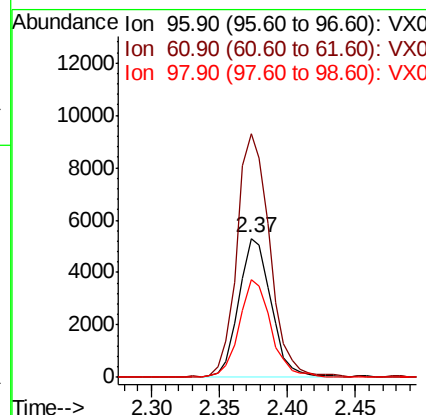
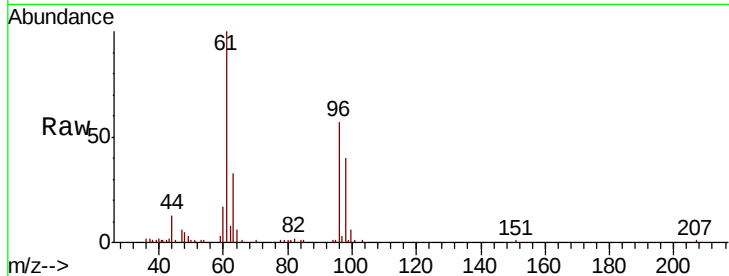




#12
 1,1-Dichloroethene
 Concen: 4.116 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. -0.00 min
 Lab File: VX005657.D
 Acq: 29 Oct 2018 13:51

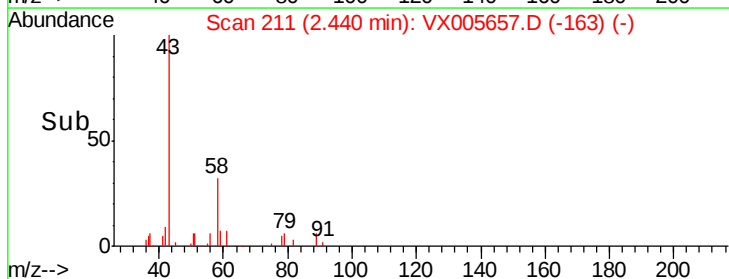
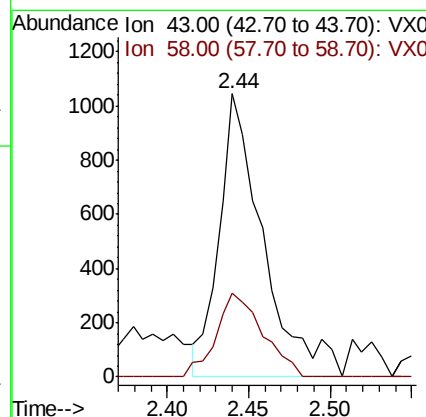
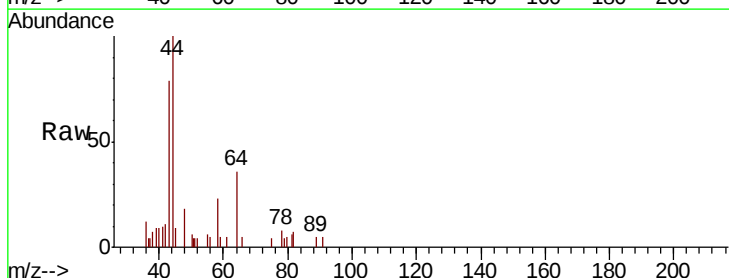
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ143I-20181024

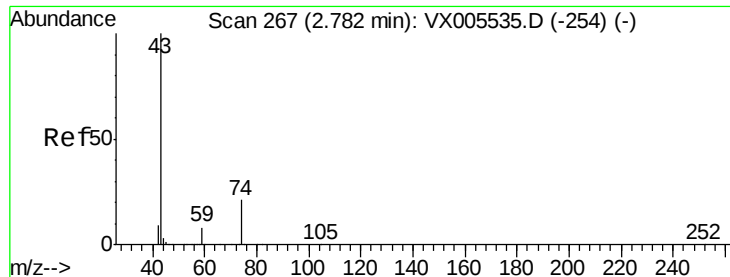
Tot Ion: 96 Resp: 8864
 Ion Ratio Lower Upper
 96 100
 61 173.8 131.8 197.8
 98 69.7 53.4 80.2



#16
 Acetone
 Concen: 1.329 ug/l
 RT: 2.44 min Scan# 211
 Delta R.T. -0.01 min
 Lab File: VX005657.D
 Acq: 29 Oct 2018 13:51

Tgt Ion: 43 Resp: 1966
 Ion Ratio Lower Upper
 43 100
 58 29.5 23.8 35.6

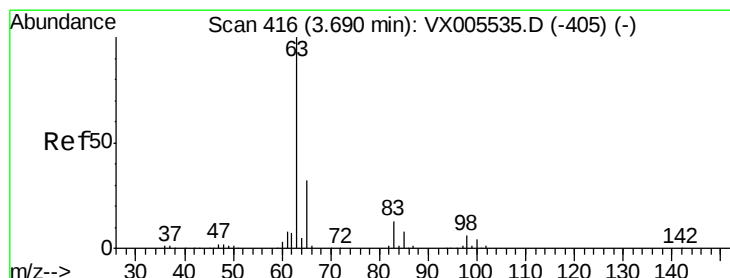
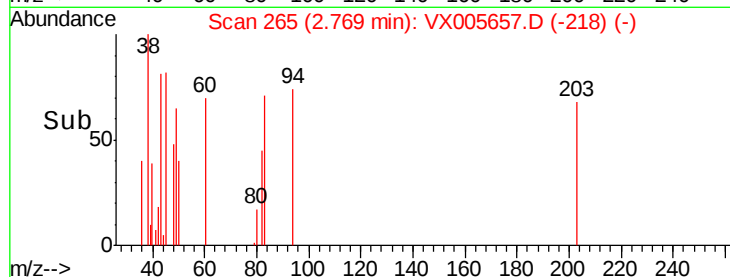
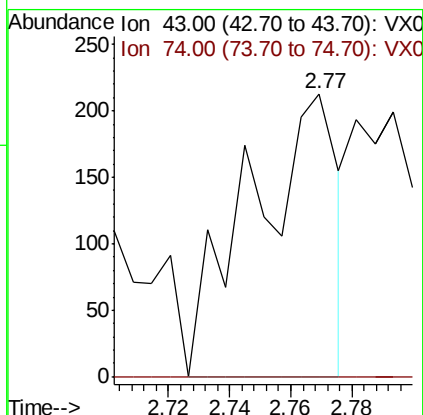
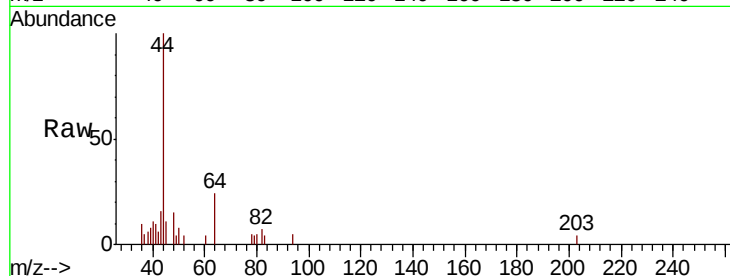




#18
Methyl Acetate
Concen: Below Cal
RT: 2.77 min Scan# 265
Delta R.T. -0.01 min
Lab File: VX005657.D
Acq: 29 Oct 2018 13:51

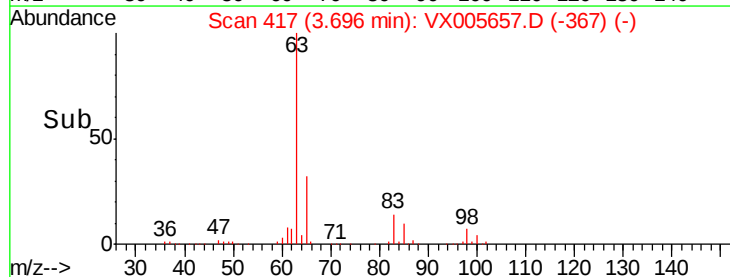
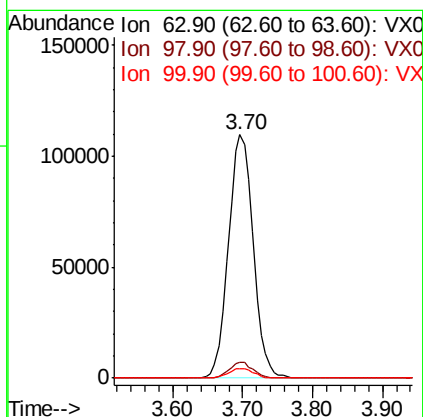
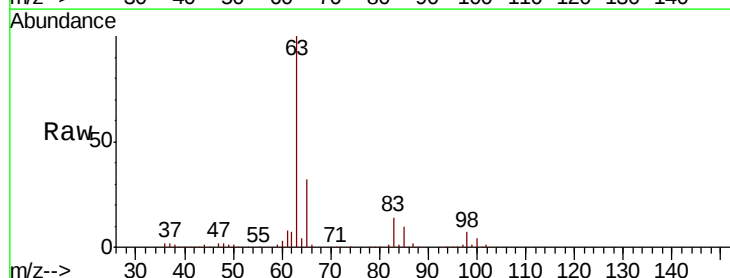
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SA-PZ143I-20181024

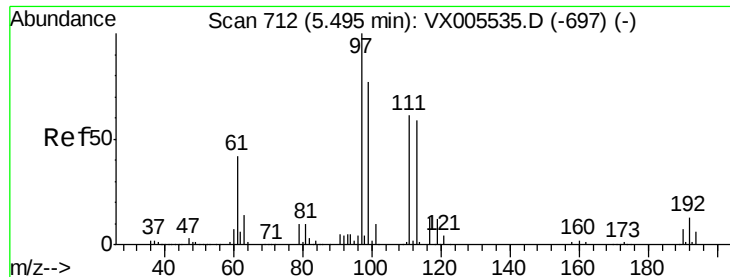
Tot Ion: 43 Resp: 417
Ion Ratio Lower Upper
43 100
74 0.0 16.8 25.2#



#24
1,1-Dichloroethane
Concen: 59.224 ug/l
RT: 3.70 min Scan# 417
Delta R.T. 0.01 min
Lab File: VX005657.D
Acq: 29 Oct 2018 13:51

Tgt Ion: 63 Resp: 270224
Ion Ratio Lower Upper
63 100
98 6.7 3.2 9.6
100 4.0 2.1 6.2





#32

1,1,1-Trichloroethane

Concen: 4.591 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.00 min

Lab File: VX005657.D

Acq: 29 Oct 2018 13:51

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ143I-20181024

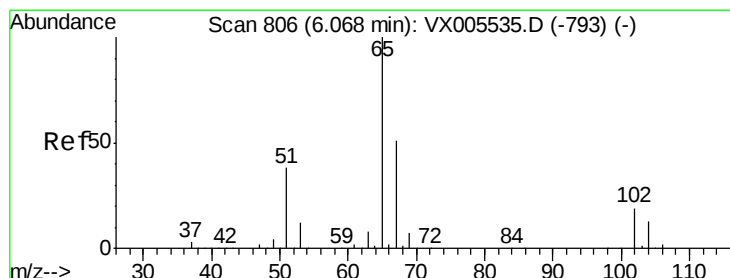
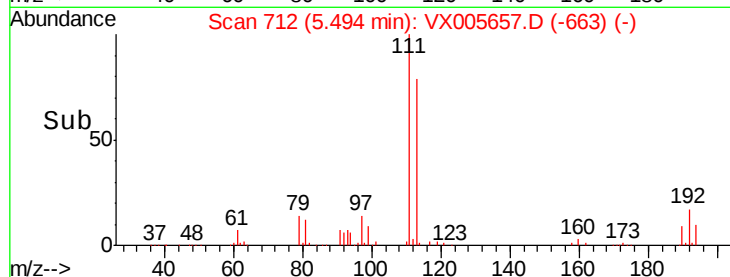
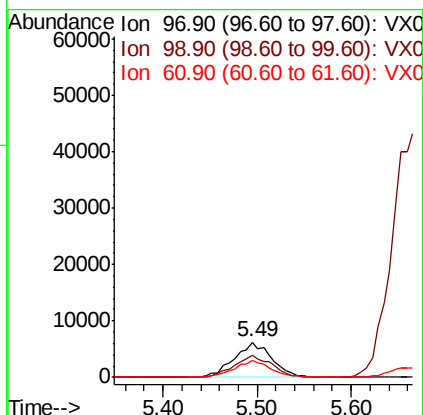
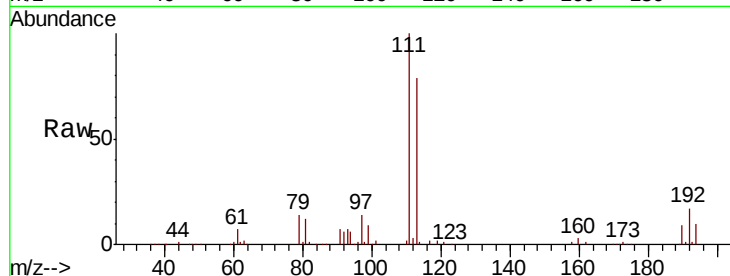
Tot Ion: 97 Resp: 17295

Ion Ratio Lower Upper

97 100

99 62.4 52.3 78.5

61 45.9 35.2 52.8



#33

1,2-Dichloroethane-d4

Concen: 49.808 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005657.D

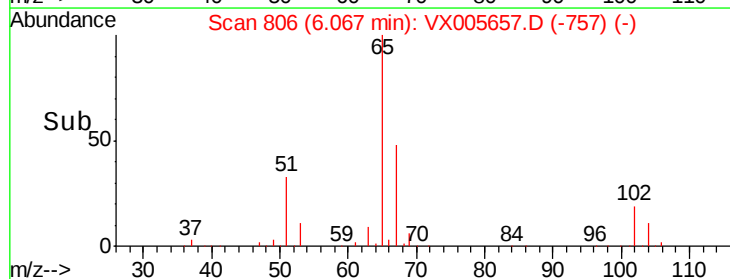
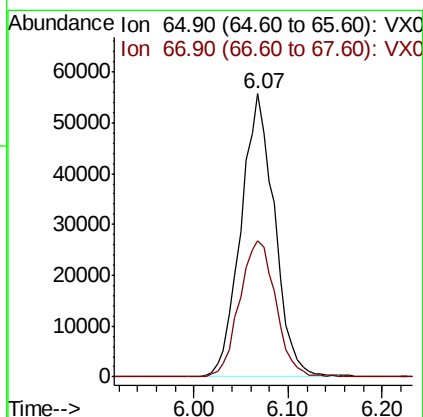
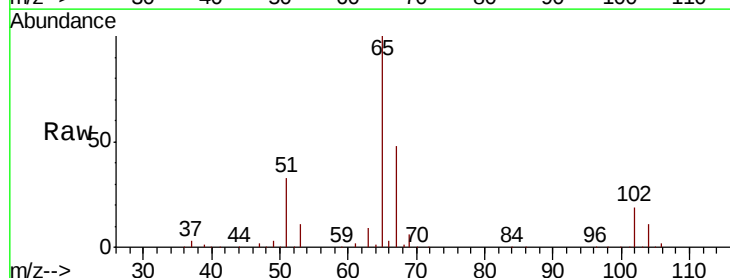
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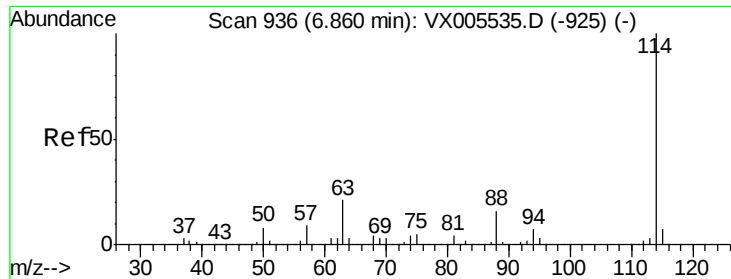
Tgt Ion: 65 Resp: 139473

Ion Ratio Lower Upper

65 100

67 51.6 0.0 105.0

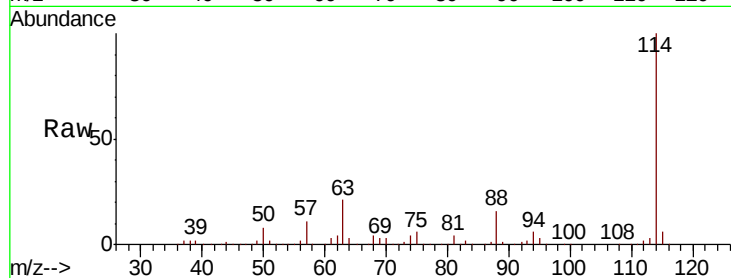




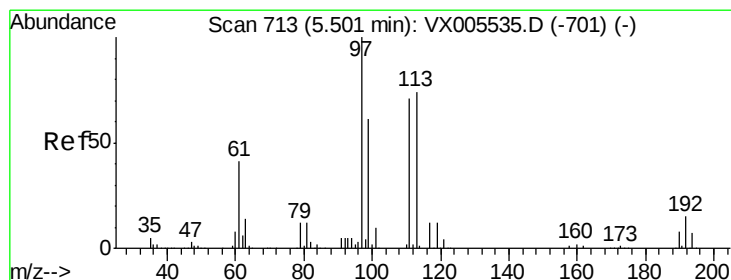
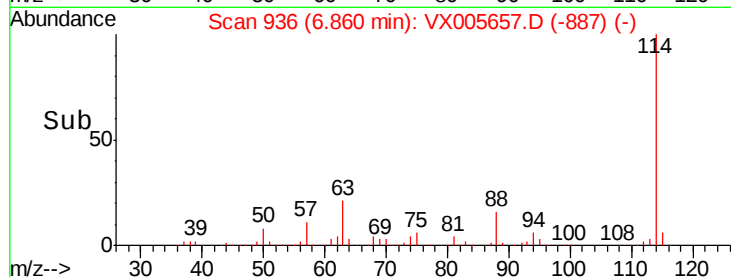
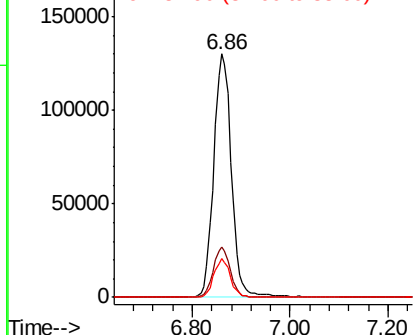
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX005657.D
Acq: 29 Oct 2018 13:51

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ143I-20181024

Tot Ion:114 Resp: 326915
Ion Ratio Lower Upper
114 100
63 20.5 0.0 42.8
88 15.9 0.0 31.2

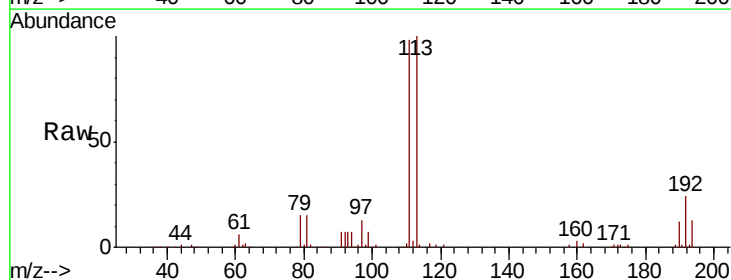


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

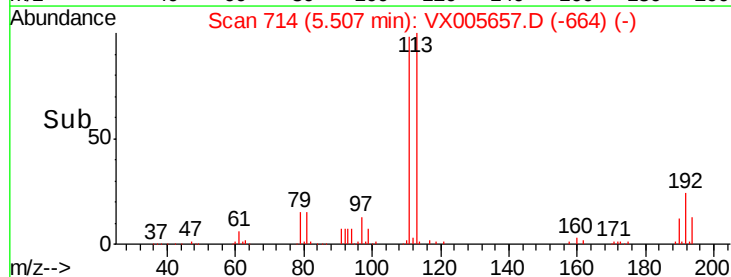
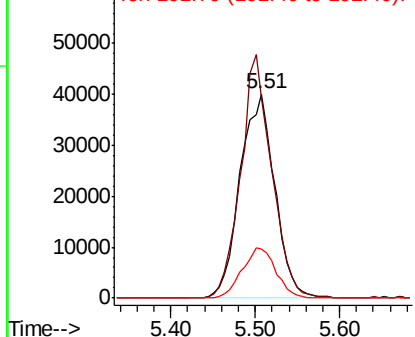


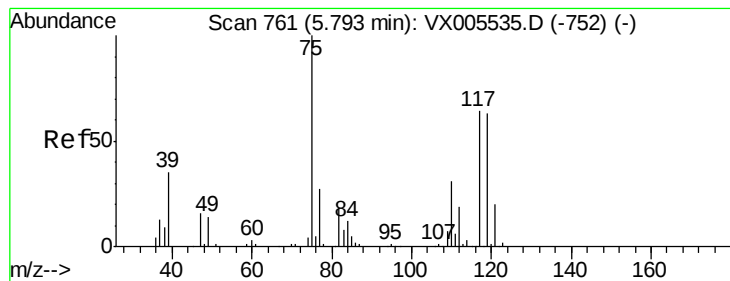
#35
Dibromofluoromethane
Concen: 50.428 ug/l
RT: 5.51 min Scan# 714
Delta R.T. 0.01 min
Lab File: VX005657.D
Acq: 29 Oct 2018 13:51

Tgt Ion:113 Resp: 111626
Ion Ratio Lower Upper
113 100
111 106.1 82.3 123.5
192 24.0 17.9 26.9



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: 4.998 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX005657.D

Acq: 29 Oct 2018 13:51

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ143I-20181024

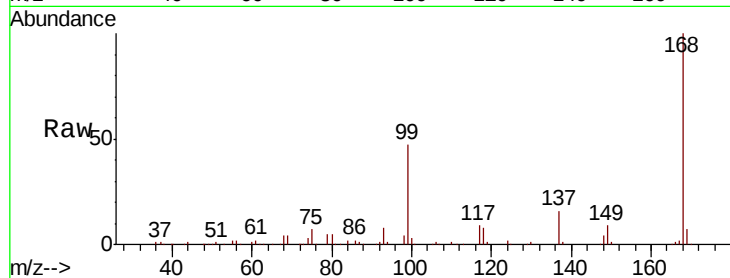
Tot Ion: 75 Resp: 15857

Ion Ratio Lower Upper

75 100

110 8.8 17.4 52.2#

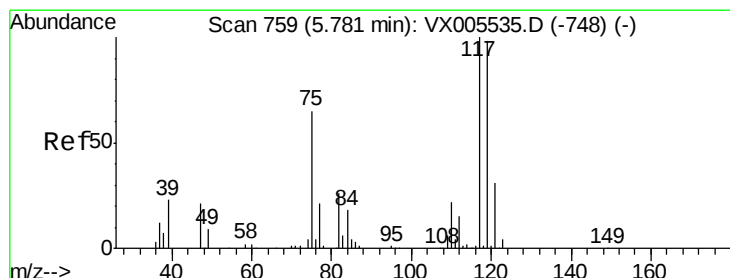
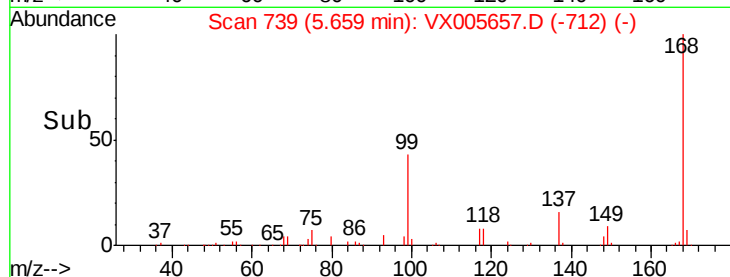
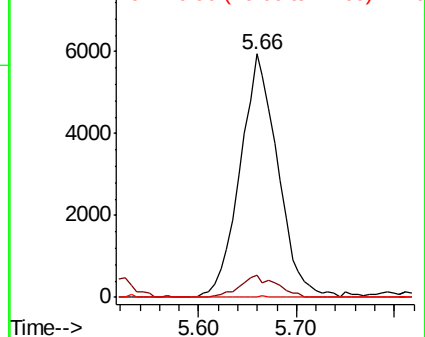
77 0.1 25.8 38.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.293 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005657.D

Acq: 29 Oct 2018 13:51

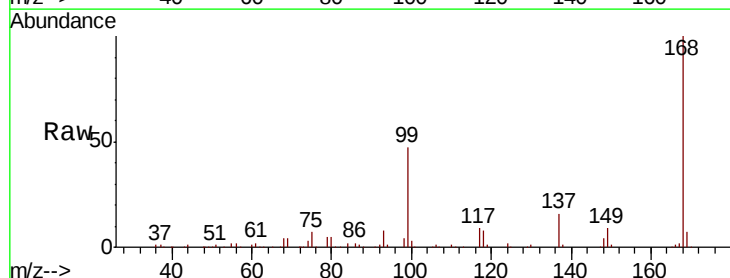
Tgt Ion: 117 Resp: 21029

Ion Ratio Lower Upper

117 100

119 6.3 78.1 117.1#

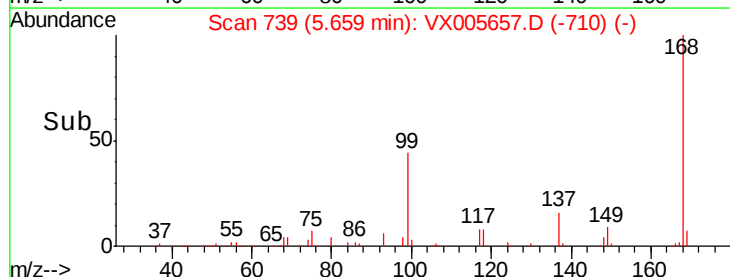
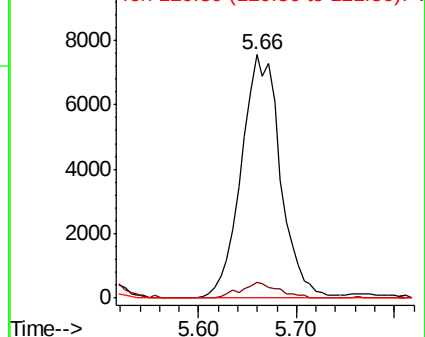
121 0.0 24.6 36.8#

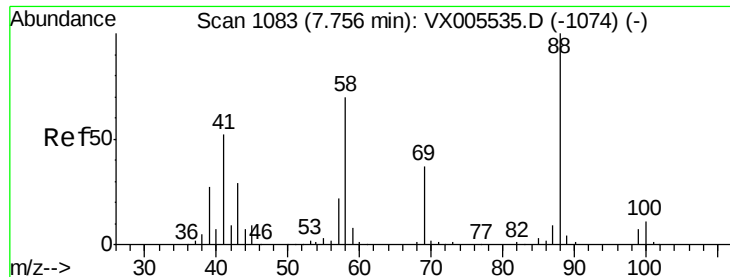


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

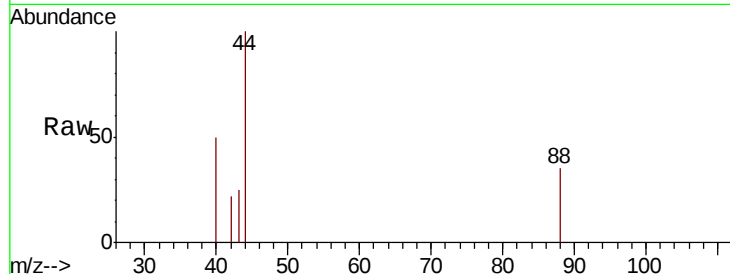




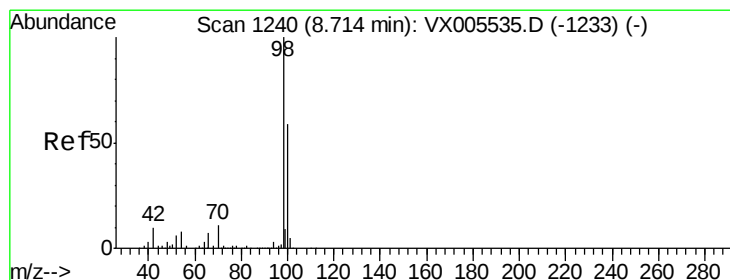
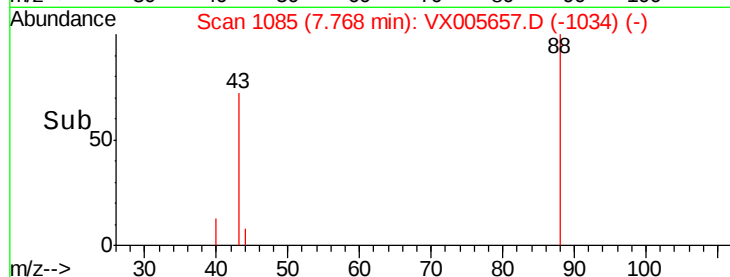
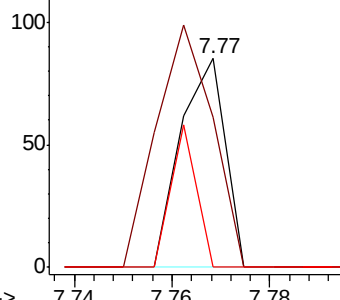
#49
1,4-Dioxane
Concen: 0.836 ug/l
RT: 7.77 min Scan# 1085
Delta R.T. 0.01 min
Lab File: VX005657.D
Acq: 29 Oct 2018 13:51

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ143I-20181024

Tot Ion: 88 Resp: 54
Ion Ratio Lower Upper
88 100
43 146.3 27.4 41.0#
58 38.9 59.4 89.2#

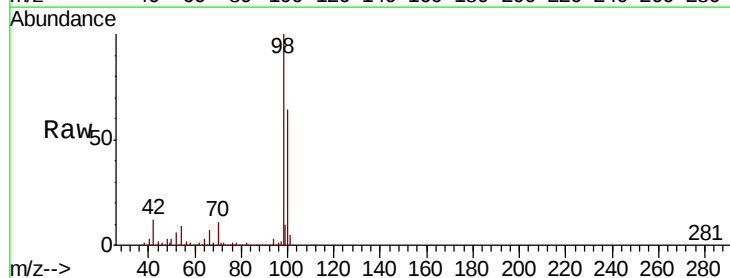


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

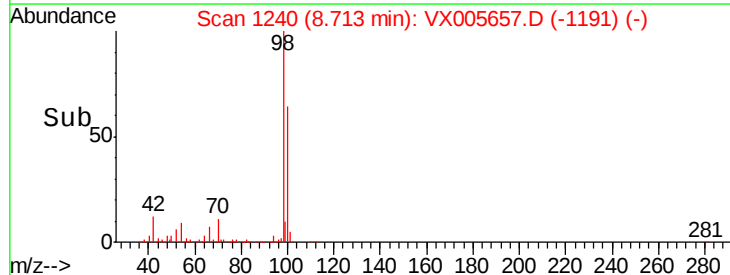
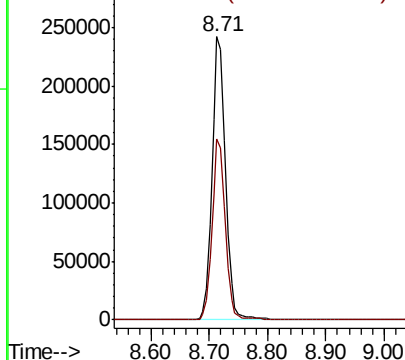


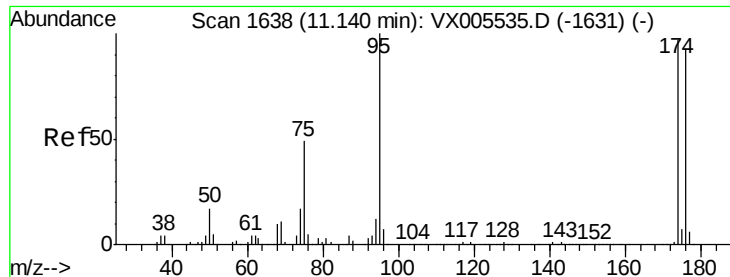
#50
Toluene-d8
Concen: 48.617 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005657.D
Acq: 29 Oct 2018 13:51

Tgt Ion: 98 Resp: 386698
Ion Ratio Lower Upper
98 100
100 62.8 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0

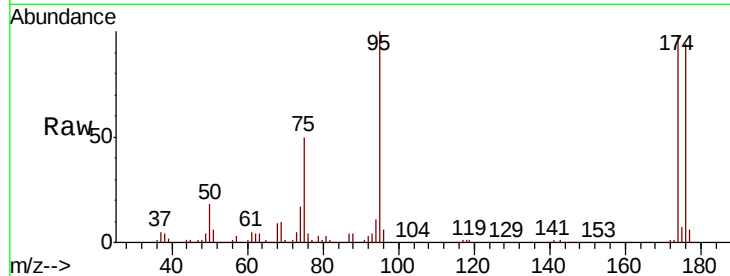




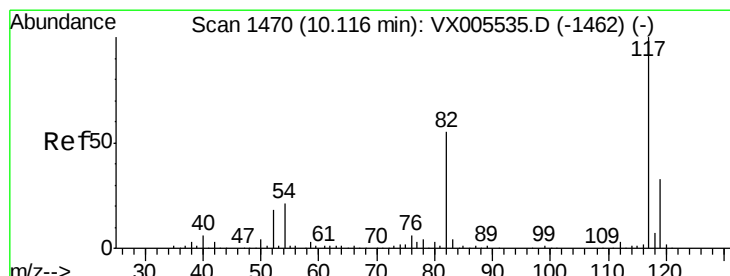
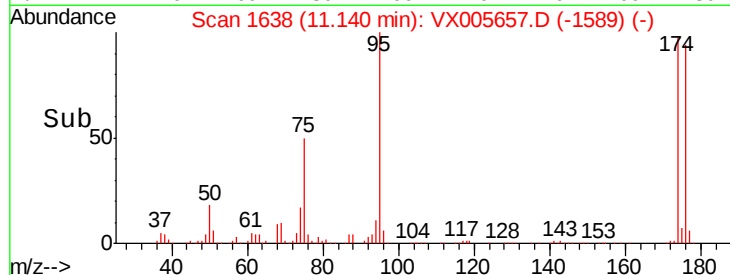
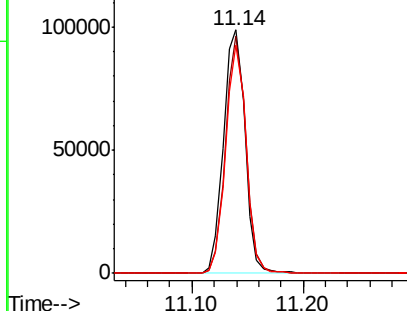
#62
4-Bromofluorobenzene
Concen: 44.214 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005657.D
Acq: 29 Oct 2018 13:51

Instrument :
MSVOA_X
ClientSampleId :
SA-PZ143I-20181024

Tot Ion: 95 Resp: 132808
Ion Ratio Lower Upper
95 100
174 92.2 0.0 184.4
176 89.5 0.0 177.4

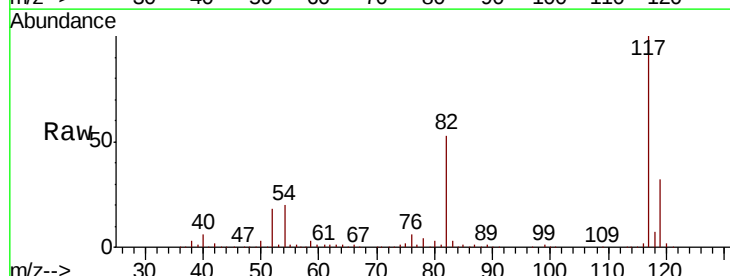


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

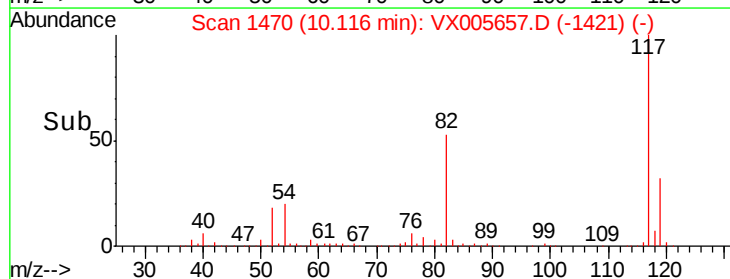
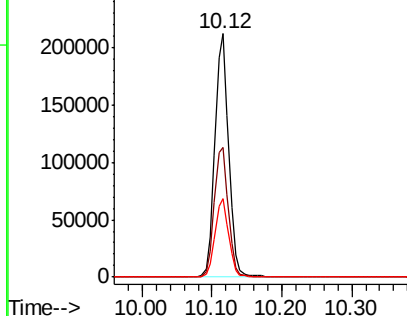


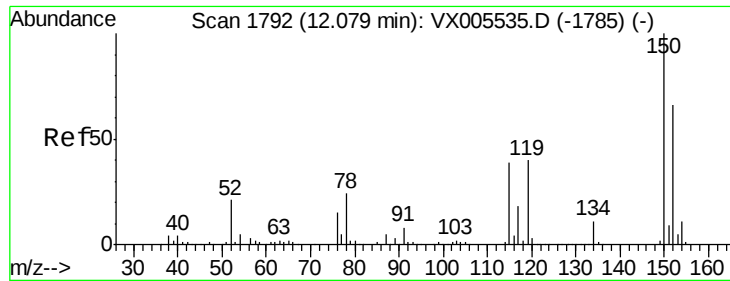
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005657.D
Acq: 29 Oct 2018 13:51

Tgt Ion: 117 Resp: 290766
Ion Ratio Lower Upper
117 100
82 53.3 44.1 66.1
119 32.4 26.2 39.2



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: VX005657.D

Acq: 29 Oct 2018 13:51

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ143I-20181024

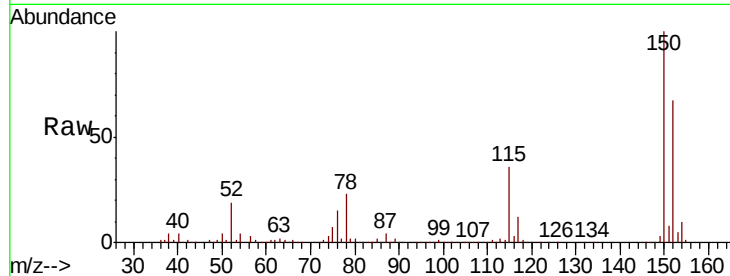
Tot Ion:152 Resp: 181007

Ion Ratio Lower Upper

152 100

115 55.9 39.4 118.1

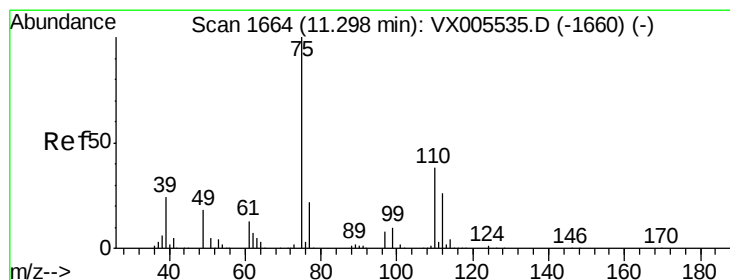
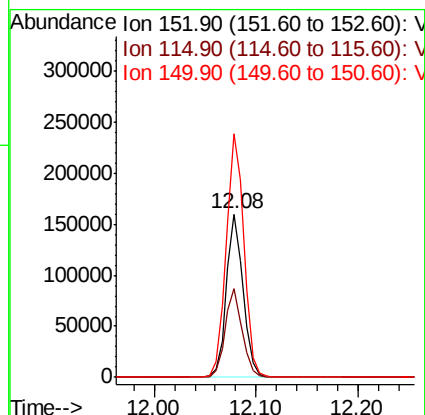
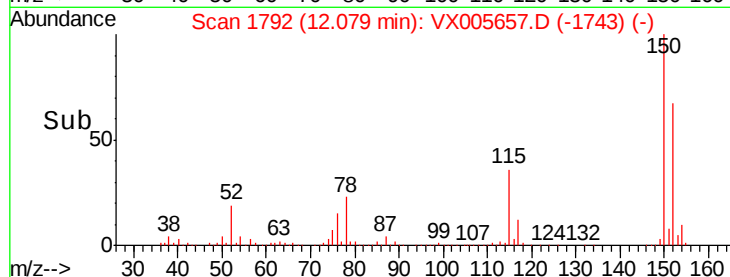
150 159.0 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 17.106 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005657.D

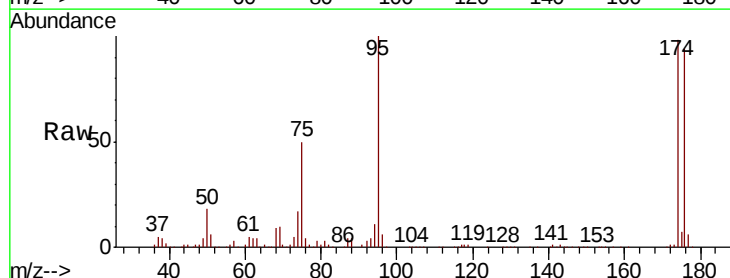
Acq: 29 Oct 2018 13:51

Tgt Ion: 75 Resp: 65605

Ion Ratio Lower Upper

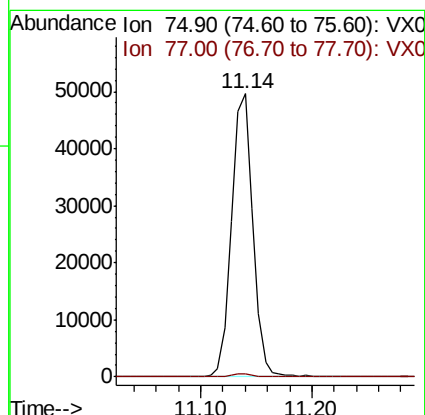
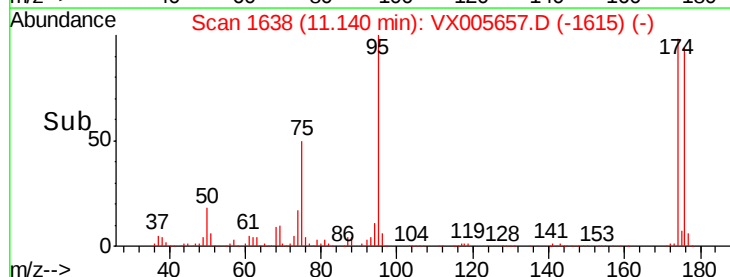
75 100

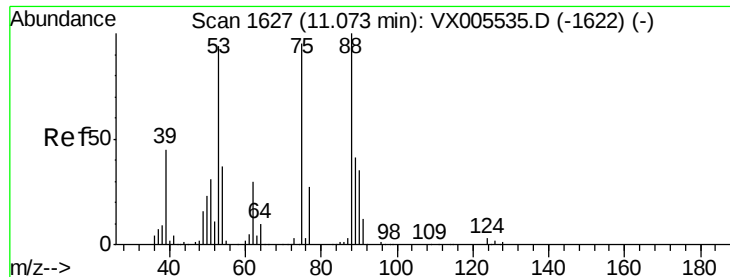
77 1.2 20.5 61.6#



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: 55.896 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005657.D

Acq: 29 Oct 2018 13:51

Instrument :

MSVOA_X

ClientSampleId :

SA-PZ143I-20181024

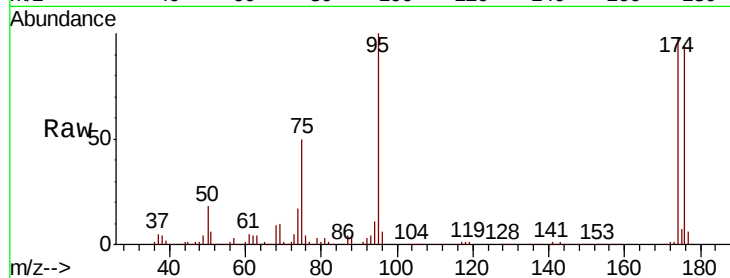
Tot Ion: 75 Resp: 65605

Ion Ratio Lower Upper

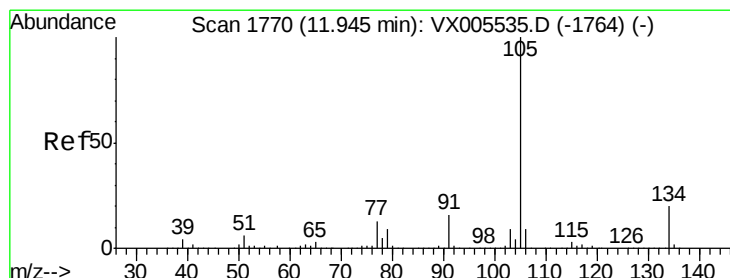
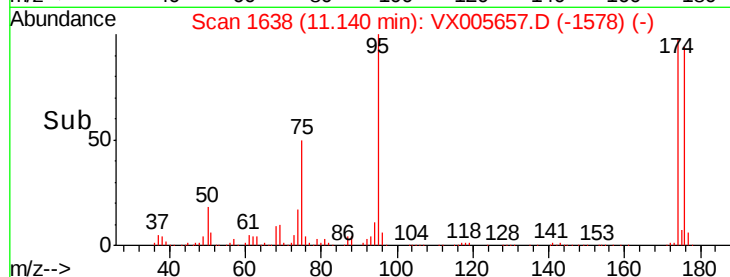
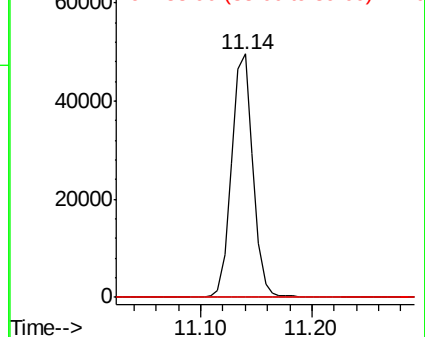
75 100

53 0.4 80.2 120.2#

89 0.2 39.8 59.8#



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



#85

sec-Butylbenzene

Concen: 0.453 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX005657.D

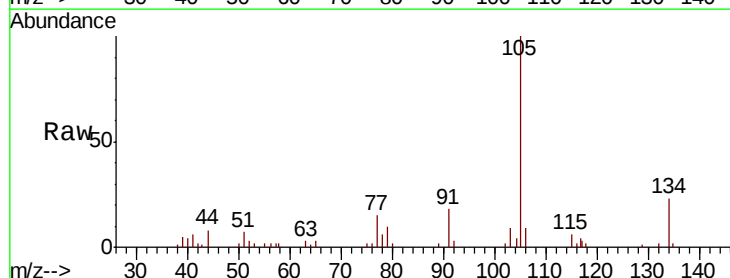
Acq: 29 Oct 2018 13:51

Tgt Ion:105 Resp: 5104

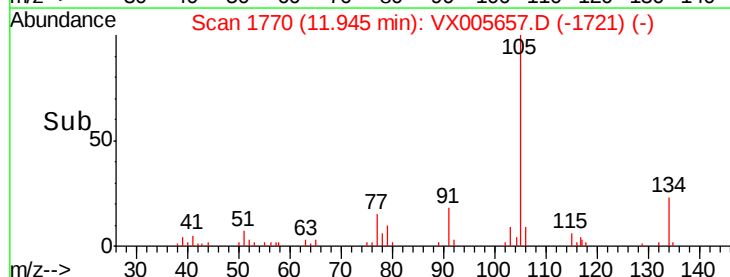
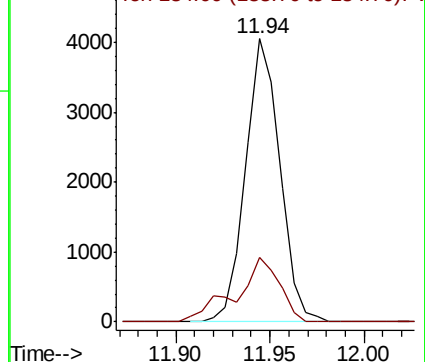
Ion Ratio Lower Upper

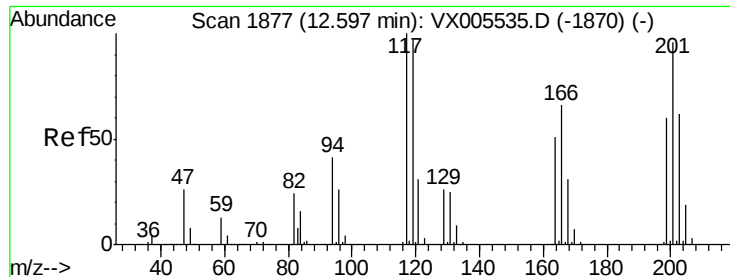
105 100

134 29.3 10.2 30.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 0.464 ug/l

RT: 12.76 min Scan# 1903

Delta R.T. 0.16 min

Lab File: VX005657.D

Acq: 29 Oct 2018 13:51

Instrument :

MSVOA_X

ClientSampleId :

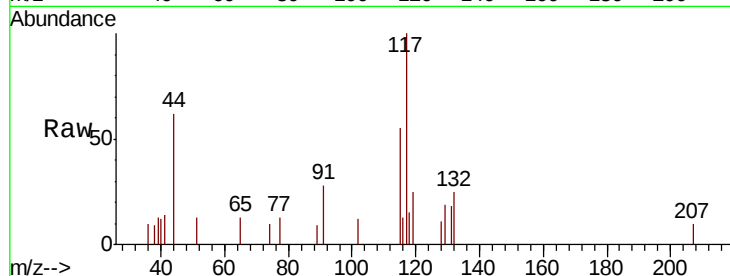
SA-PZ143I-20181024

Tot Ion:117 Resp: 806

Ion Ratio Lower Upper

117 100

201 0.0 47.9 143.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

12.76

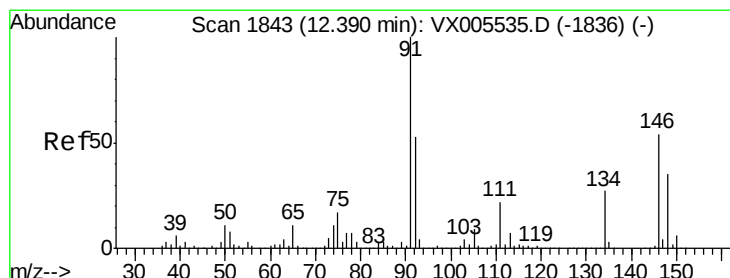
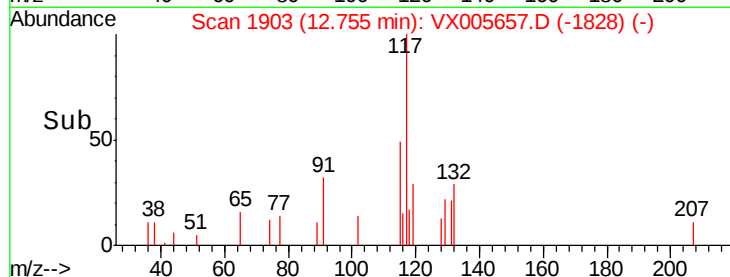
600

400

200

0

Time--> 12.70 12.75 12.80



#91

1,2-Dichlorobenzene

Concen: 0.384 ug/l

RT: 12.40 min Scan# 1844

Delta R.T. 0.01 min

Lab File: VX005657.D

Acq: 29 Oct 2018 13:51

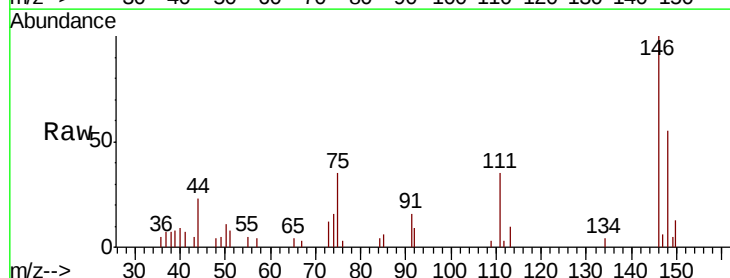
Tgt Ion:146 Resp: 2254

Ion Ratio Lower Upper

146 100

111 41.0 20.0 59.9

148 63.1 32.2 96.6



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

2000

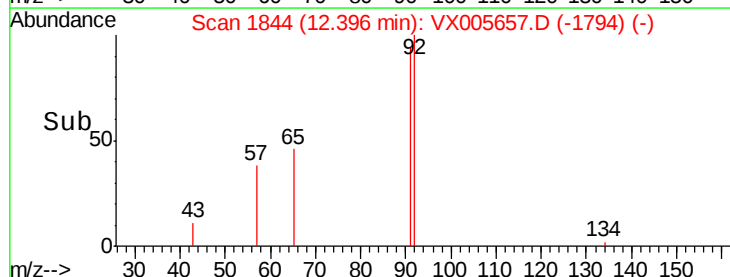
1500

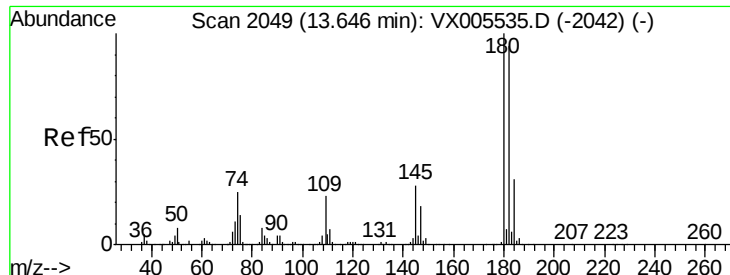
1000

500

0

Time--> 12.35 12.40 12.45

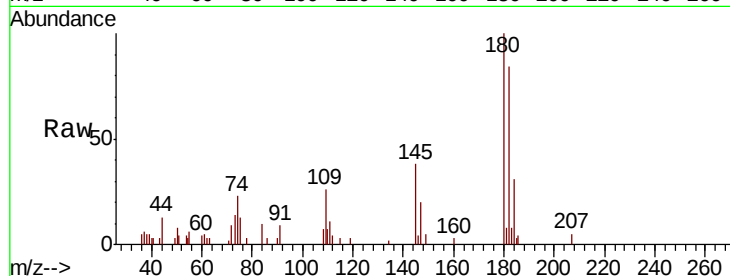




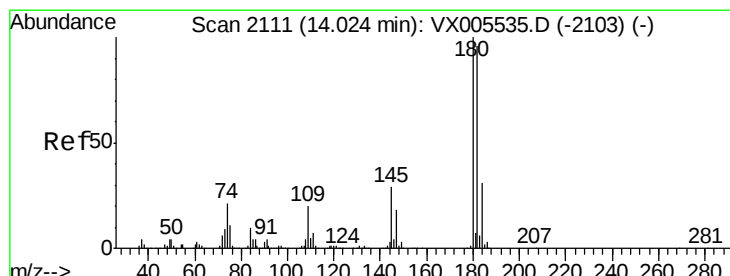
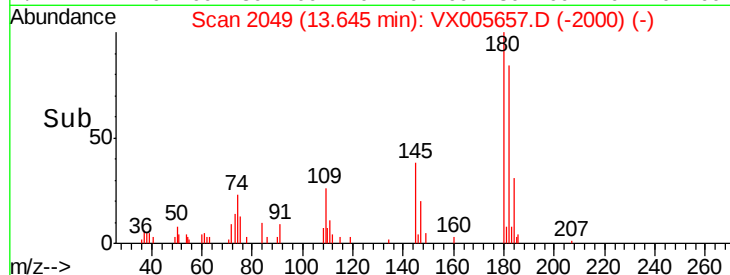
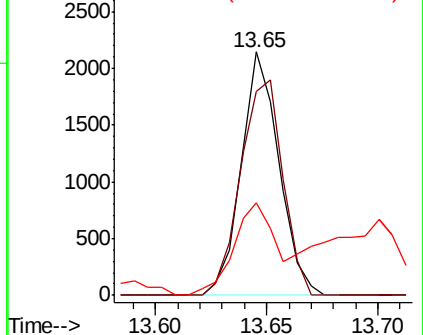
#93
 1,2,4-Trichlorobenzene
 Concen: 0.598 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX005657.D
 Acq: 29 Oct 2018 13:51

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-PZ143I-20181024

Tot Ion:180 Resp: 2544
 Ion Ratio Lower Upper
 180 100
 182 98.7 47.6 142.8
 145 46.4 14.1 42.2#

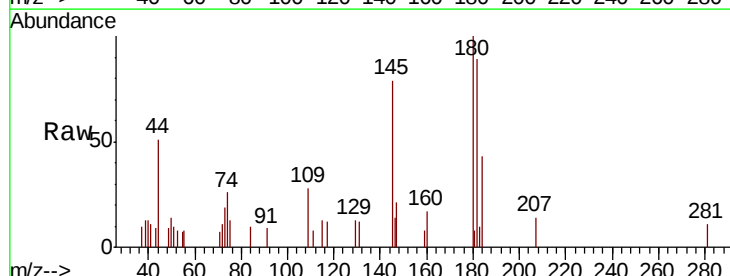


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#96
 1,2,3-Trichlorobenzene
 Concen: 0.210 ug/l
 RT: 14.02 min Scan# 2111
 Delta R.T. -0.00 min
 Lab File: VX005657.D
 Acq: 29 Oct 2018 13:51

Tgt Ion:180 Resp: 904
 Ion Ratio Lower Upper
 180 100
 182 95.0 48.0 144.2
 145 125.7 15.1 45.3#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

