

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101819\
 Data File : VX013126.D
 Acq On : 18 Oct 2019 14:48
 Operator : JC/SP
 Sample : K5414-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TB04-SRI4

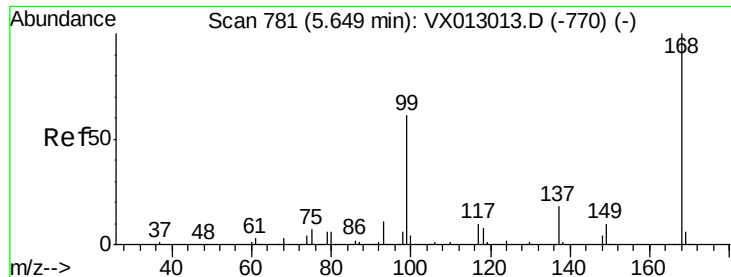
Quant Time: Oct 18 23:57:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 16 07:26:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	161031	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	255402	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	216084	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	80917	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	95305	47.35	ug/l	0.00
Spiked Amount			Recovery	=	94.70%	
35) Dibromofluoromethane	5.49	113	75352	51.40	ug/l	0.00
Spiked Amount			Recovery	=	102.80%	
50) Toluene-d8	8.71	98	294586	51.53	ug/l	0.00
Spiked Amount			Recovery	=	103.06%	
62) 4-Bromofluorobenzene	11.14	95	98969	44.55	ug/l	0.00
Spiked Amount			Recovery	=	89.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	464	0.605	ug/l #	42
6) Chloroethane	1.71	64	203	0.546	ug/l #	80
10) Methyl Iodide	2.51	142	556	5.355	ug/l #	90
11) Tert butyl alcohol	3.00	59	729	1.366	ug/l #	72
16) Acetone	2.44	43	1199	1.130	ug/l	95
17) Carbon Disulfide	2.56	76	1253	0.270	ug/l #	93
20) Methylene Chloride	2.85	84	2710	1.390	ug/l	97
29) Tetrahydrofuran	5.15	42	375	0.414	ug/l #	43
31) Cyclohexane	5.65	56	3380	1.157	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	12227	5.445	ug/l #	50
38) Carbon Tetrachloride	5.65	117	16032	7.335	ug/l #	18
60) Dibromochloromethane	9.33	129	113	1.915	ug/l #	10
68) m/p-Xylenes	10.35	106	1418	0.498	ug/l	87
76) 1,2,3-Trichloropropane	11.14	75	48147	26.827	ug/l #	32
79) 2-Chlorotoluene	11.51	91	848	0.206	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.14	75	48147	67.434	ug/l #	10
87) 1,3-Dichlorobenzene	12.03	146	570	0.219	ug/l	89
88) 1,4-Dichlorobenzene	12.03	146	570	0.216	ug/l	90
91) 1,2-Dichlorobenzene	12.39	146	533	0.209	ug/l	86
93) 1,2,4-Trichlorobenzene	13.64	180	580	0.363	ug/l	91
95) Naphthalene	13.83	128	2403	0.434	ug/l #	95
96) 1,2,3-Trichlorobenzene	14.02	180	585	0.354	ug/l	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX013126.D

Acq: 18 Oct 2019 14:48

Instrument :

MSVOA_X

ClientSampleId :

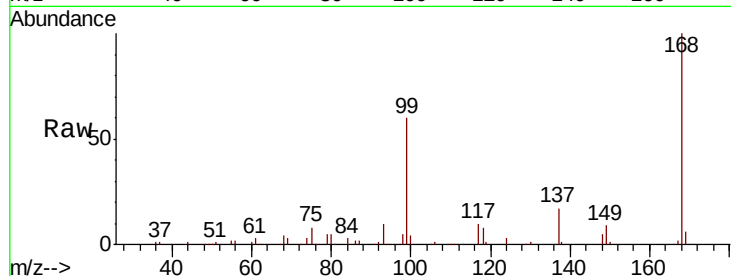
TB04-SRI4

Tot Ion:168 Resp: 161031

Ion Ratio Lower Upper

168 100

99 60.3 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

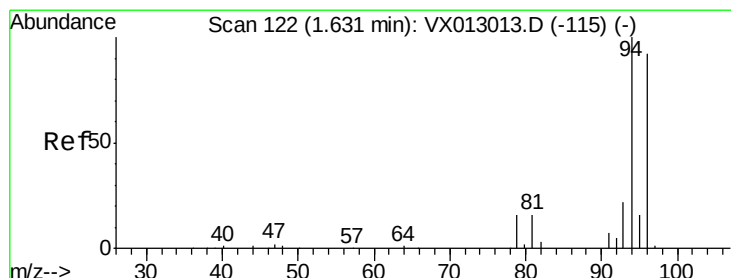
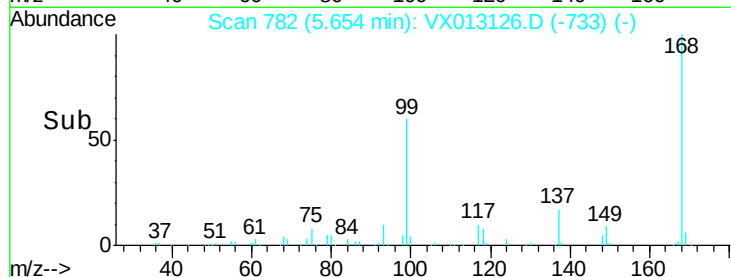
60000

40000

20000

0

Time--> 5.50 5.60 5.70



#5

Bromomethane

Concen: 0.605 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX013126.D

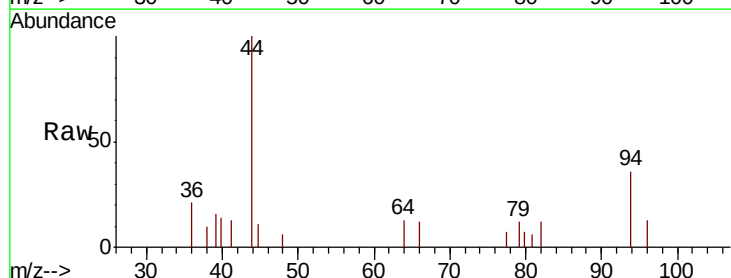
Acq: 18 Oct 2019 14:48

Tgt Ion: 94 Resp: 464

Ion Ratio Lower Upper

94 100

96 37.3 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

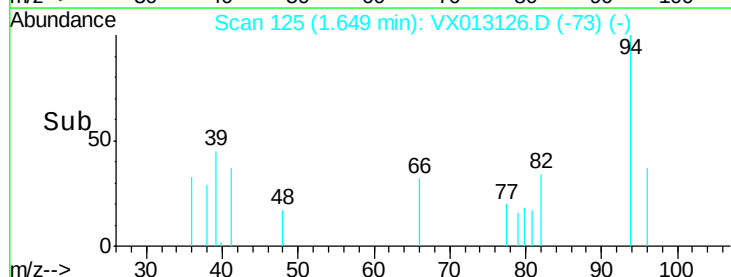
300

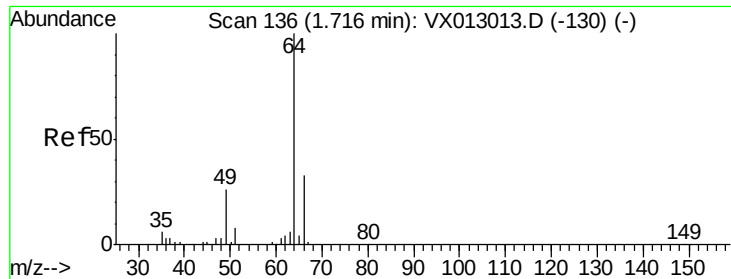
200

100

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.546 ug/l

RT: 1.71 min Scan# 135

Delta R.T. 0.00 min

Lab File: VX013126.D

Acq: 18 Oct 2019 14:48

Instrument :

MSVOA_X

ClientSampled :

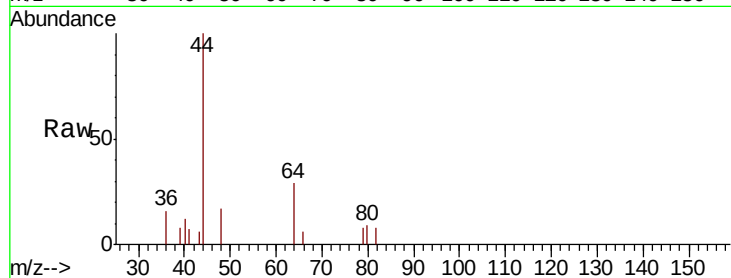
TB04-SRI4

Tot Ion: 64 Resp: 203

Ion Ratio Lower Upper

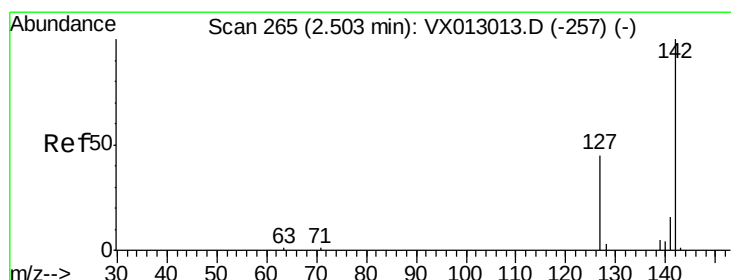
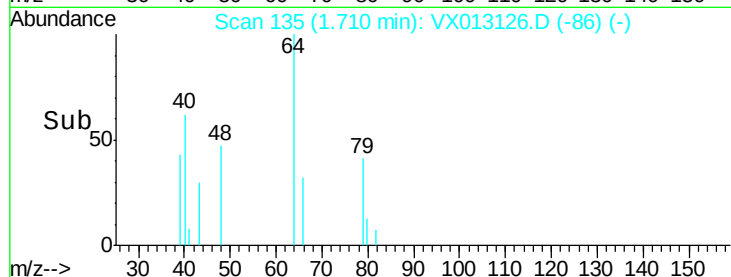
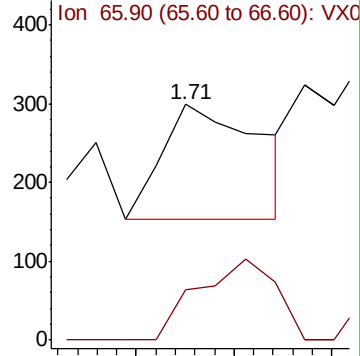
64 100

66 43.2 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 5.355 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX013126.D

Acq: 18 Oct 2019 14:48

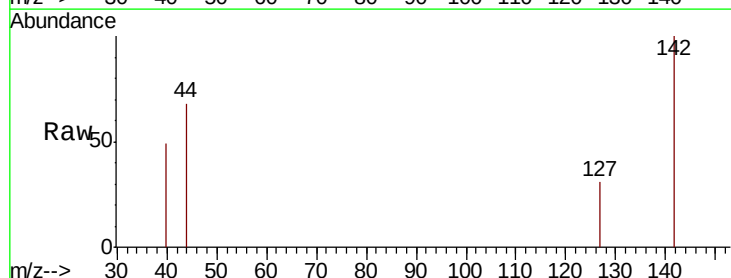
Tgt Ion: 142 Resp: 556

Ion Ratio Lower Upper

142 100

127 47.1 34.9 52.3

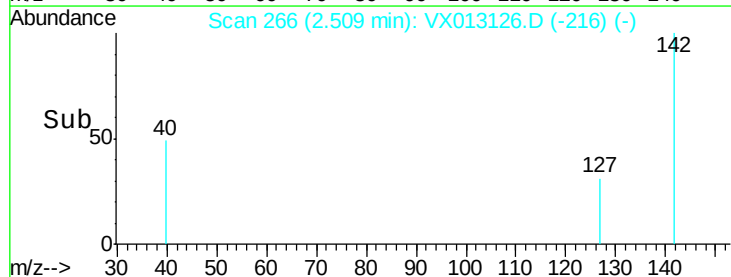
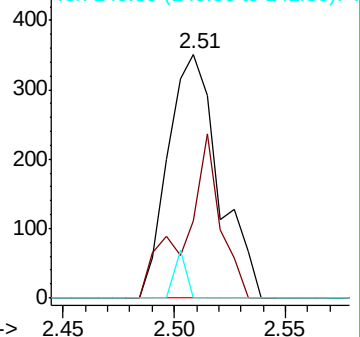
141 4.5 11.6 17.4#

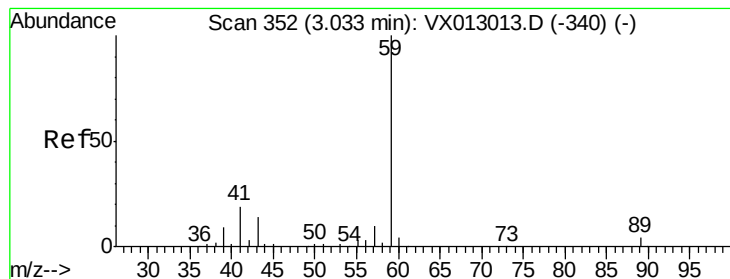


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



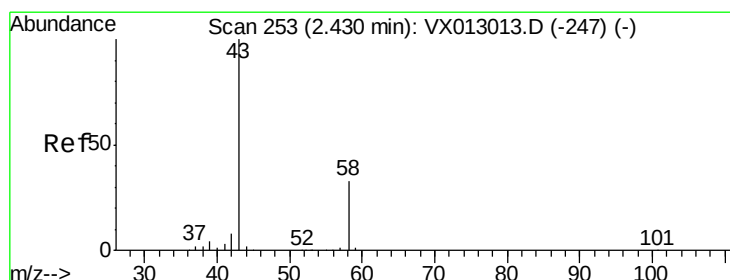
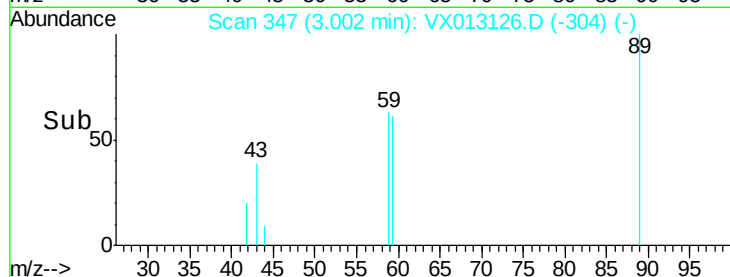
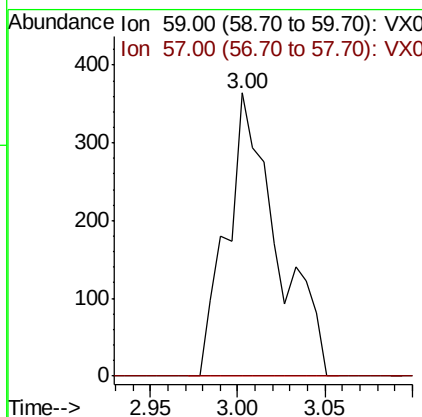
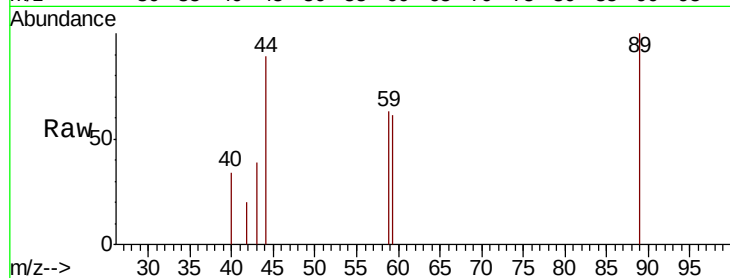


#11

Tert butyl alcohol
 Concen: 1.366 ug/l
 RT: 3.00 min Scan# 347
 Delta R.T. -0.04 min
 Lab File: VX013126.D
 Acq: 18 Oct 2019 14:48

Instrument :
 MSVOA_X
 ClientSampleId :
 TB04-SRI4

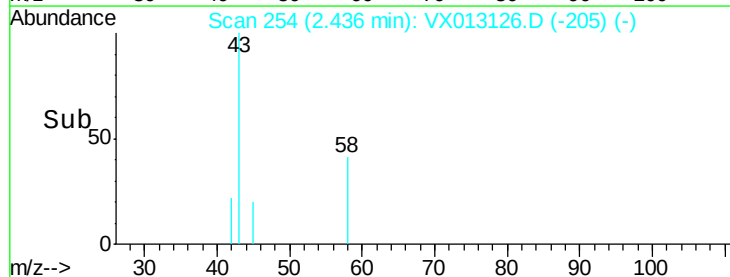
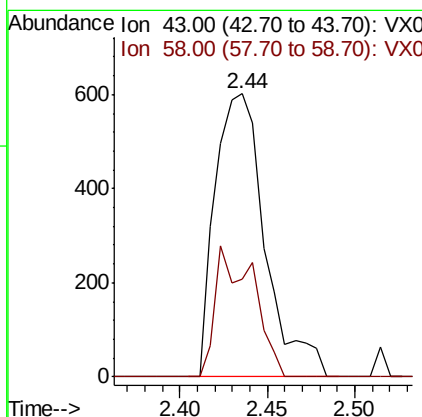
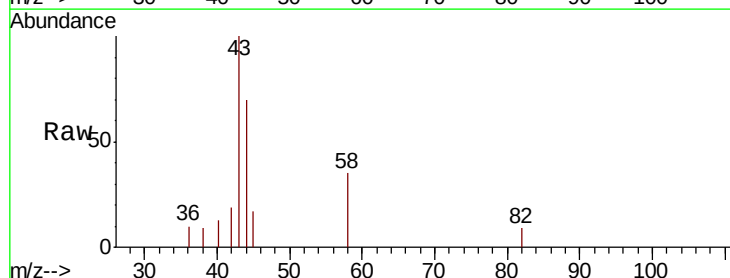
Tot Ion: 59 Resp: 729
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

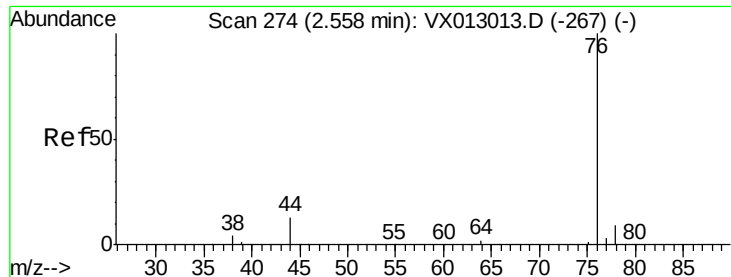


#16

Acetone
 Concen: 1.130 ug/l
 RT: 2.44 min Scan# 254
 Delta R.T. -0.00 min
 Lab File: VX013126.D
 Acq: 18 Oct 2019 14:48

Tgt Ion: 43 Resp: 1199
 Ion Ratio Lower Upper
 43 100
 58 34.7 25.4 38.2

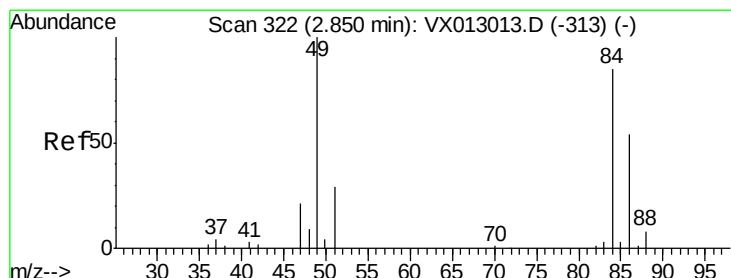
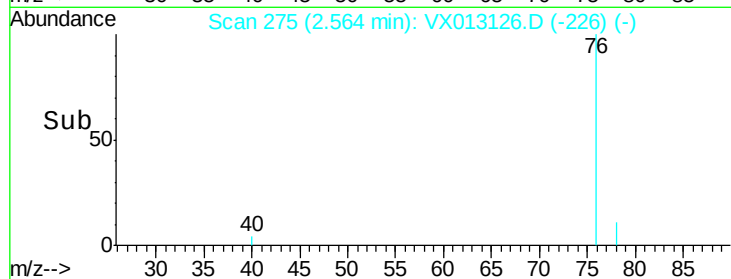
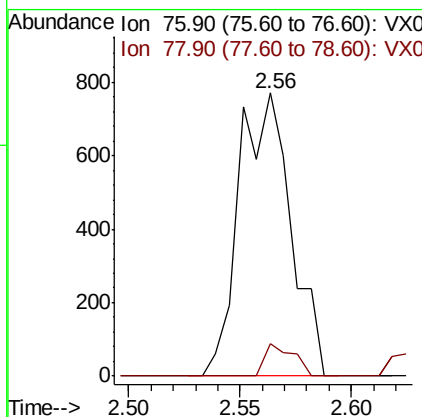
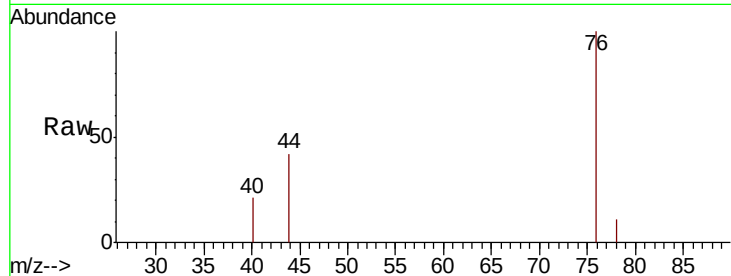




#17
Carbon Disulfide
Concen: 0.270 ug/l
RT: 2.56 min Scan# 275
Delta R.T. -0.00 min
Lab File: VX013126.D
Acq: 18 Oct 2019 14:48

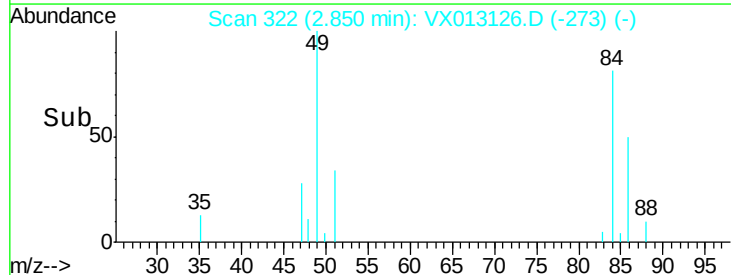
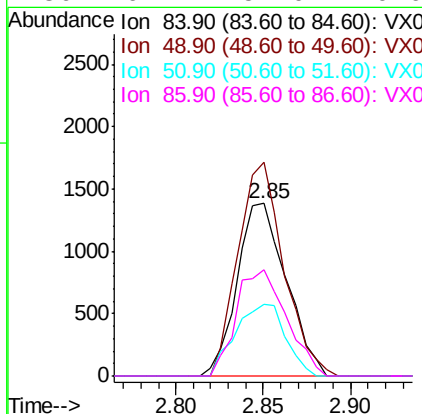
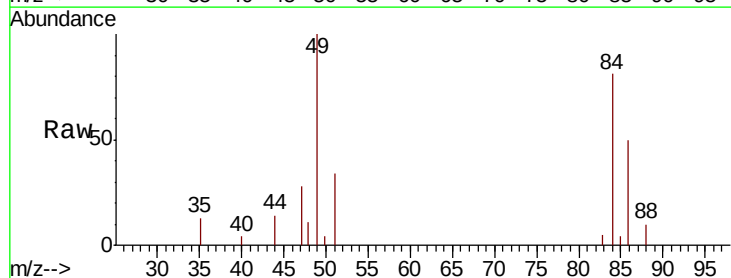
Instrument :
MSVOA_X
ClientSampleId :
TB04-SRI4

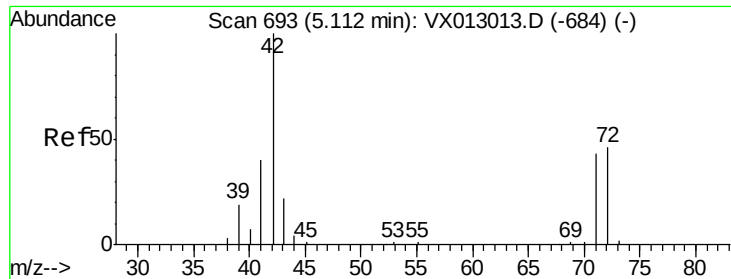
Tot Ion: 76 Resp: 1253
Ion Ratio Lower Upper
76 100
78 11.4 7.1 10.7#



#20
Methylene Chloride
Concen: 1.390 ug/l
RT: 2.85 min Scan# 322
Delta R.T. -0.00 min
Lab File: VX013126.D
Acq: 18 Oct 2019 14:48

Tgt Ion: 84 Resp: 2710
Ion Ratio Lower Upper
84 100
49 123.8 96.6 144.8
51 41.5 30.7 46.1
86 61.7 51.0 76.6

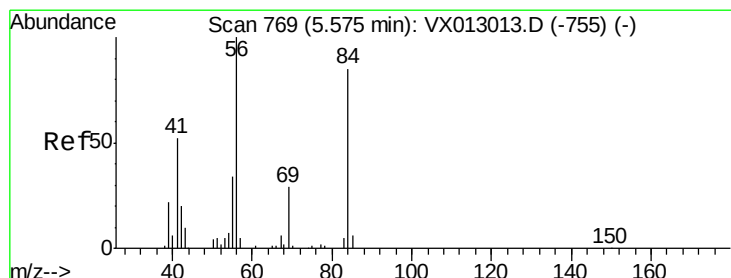
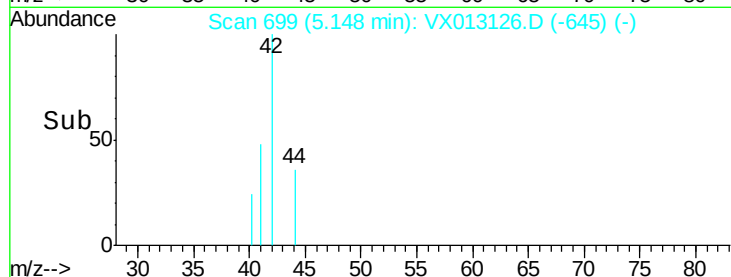
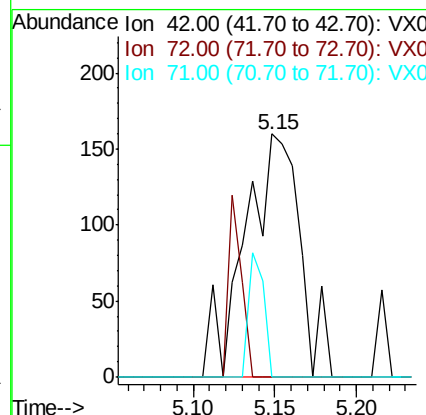
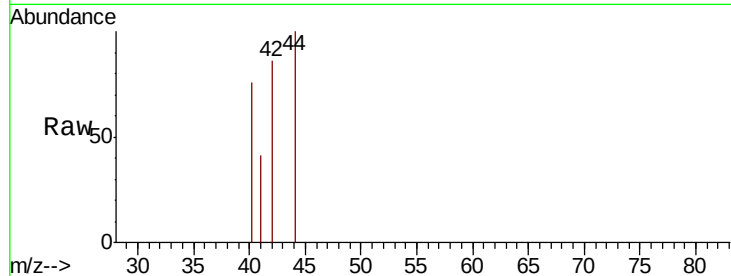




#29
Tetrahydrofuran
Concen: 0.414 ug/l
RT: 5.15 min Scan# 699
Delta R.T. 0.03 min
Lab File: VX013126.D
Acq: 18 Oct 2019 14:48

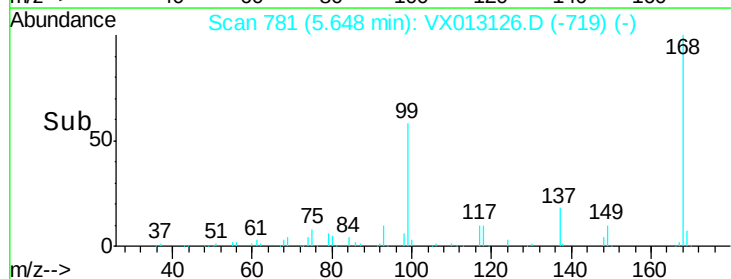
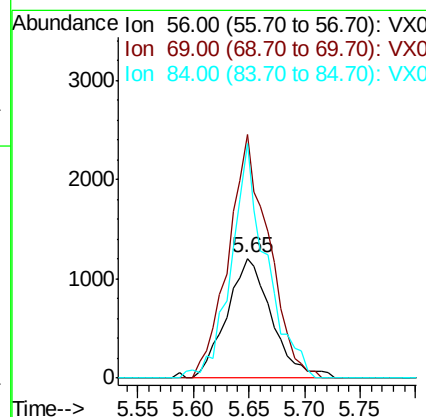
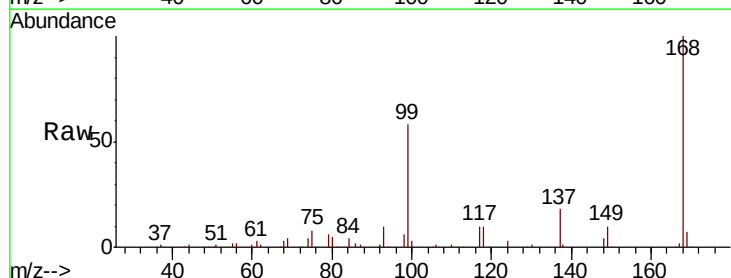
Instrument :
MSVOA_X
ClientSampleId :
TB04-SRI4

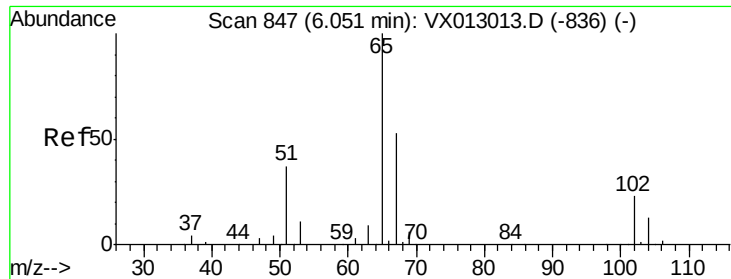
Tot Ion: 42 Resp: 375
Ion Ratio Lower Upper
42 100
72 0.0 36.9 55.3#
71 14.1 33.5 50.3#



#31
Cyclohexane
Concen: 1.157 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX013126.D
Acq: 18 Oct 2019 14:48

Tgt Ion: 56 Resp: 3380
Ion Ratio Lower Upper
56 100
69 203.2 25.2 37.8#
84 196.1 71.3 106.9#

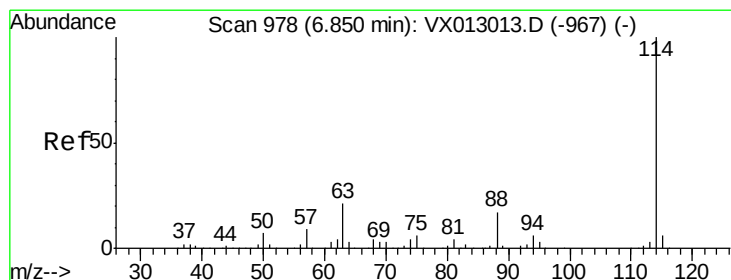
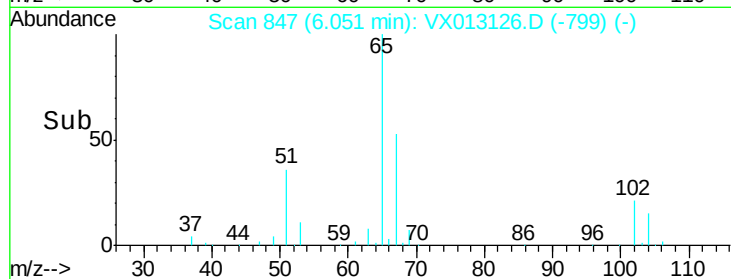
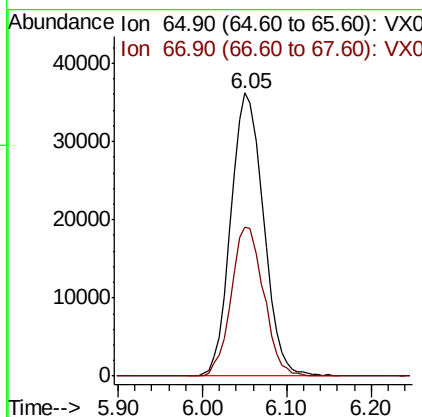
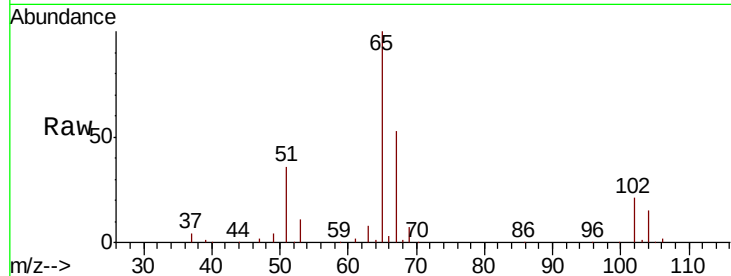




#33
 1,2-Dichloroethane-d4
 Concen: 47.352 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VX013126.D
 Acq: 18 Oct 2019 14:48

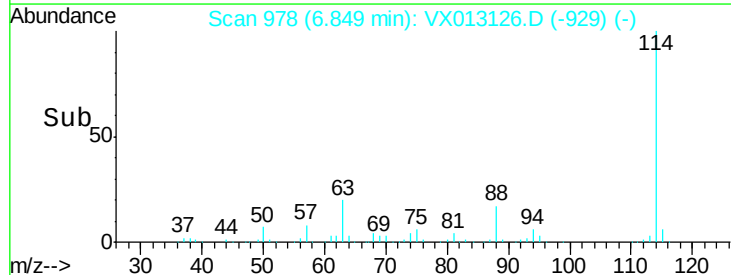
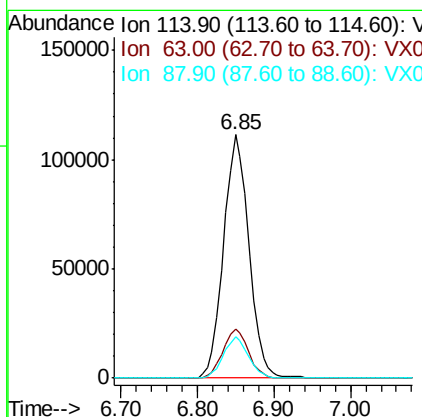
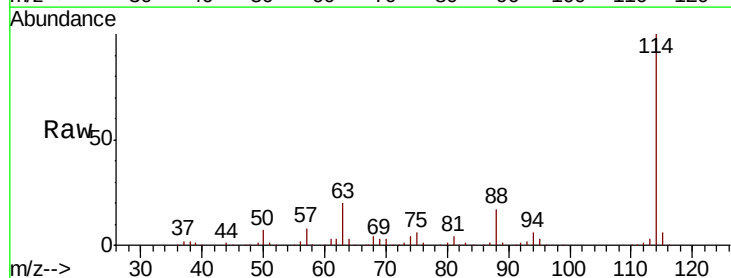
Instrument :
 MSVOA_X
 ClientSampleId :
 TB04-SRI4

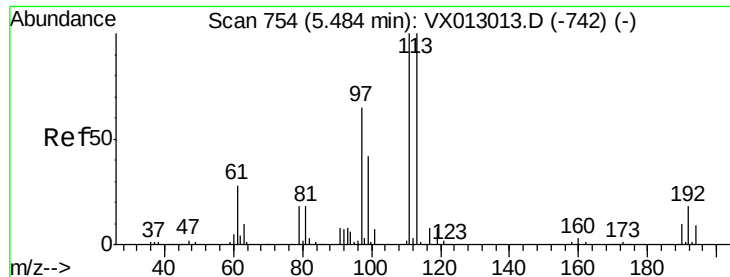
Tot Ion: 65 Resp: 95305
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013126.D
 Acq: 18 Oct 2019 14:48

Tgt Ion: 114 Resp: 255402
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 40.8
 88 16.9 0.0 33.8





#35

Dibromofluoromethane

Concen: 51.404 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013126.D

Acq: 18 Oct 2019 14:48

Instrument :

MSVOA_X

ClientSampled :

TB04-SRI4

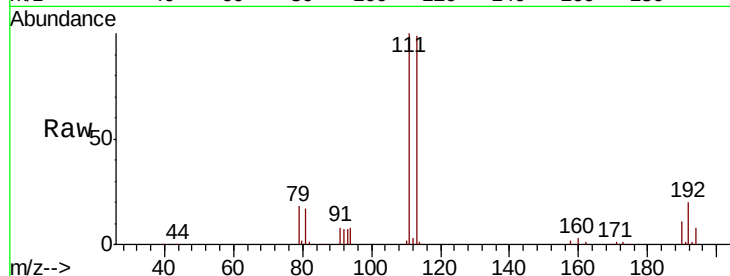
Tot Ion:113 Resp: 75352

Ion Ratio Lower Upper

113 100

111 102.6 83.2 124.8

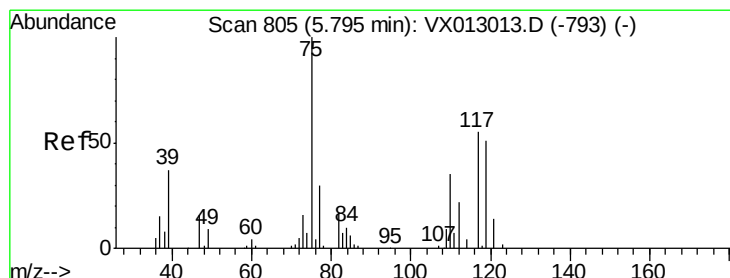
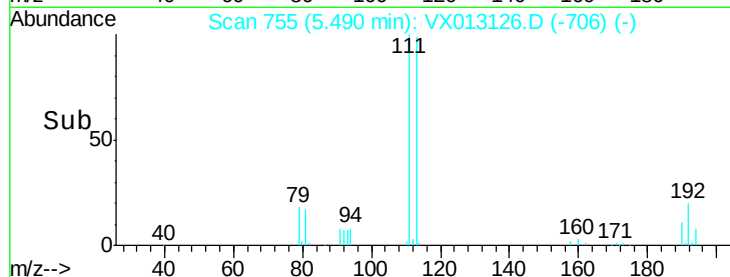
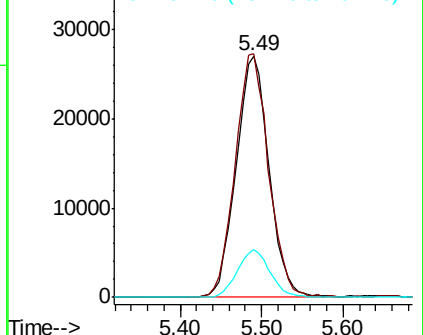
192 19.7 15.4 23.2



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: 5.445 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013126.D

Acq: 18 Oct 2019 14:48

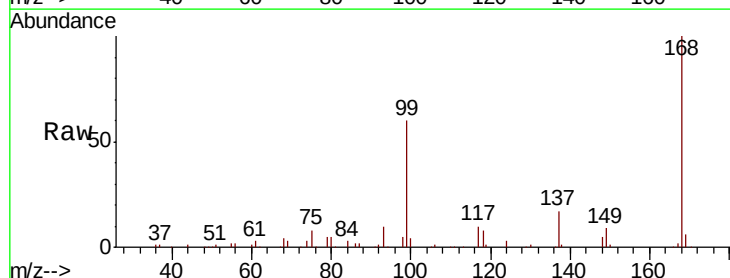
Tgt Ion: 75 Resp: 12227

Ion Ratio Lower Upper

75 100

110 9.6 17.6 52.9#

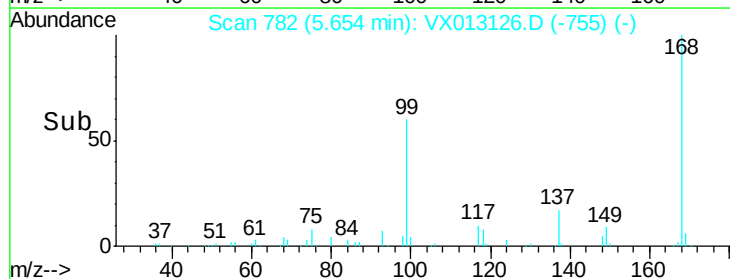
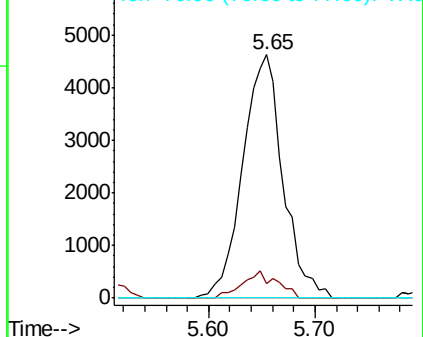
77 0.0 24.4 36.6#

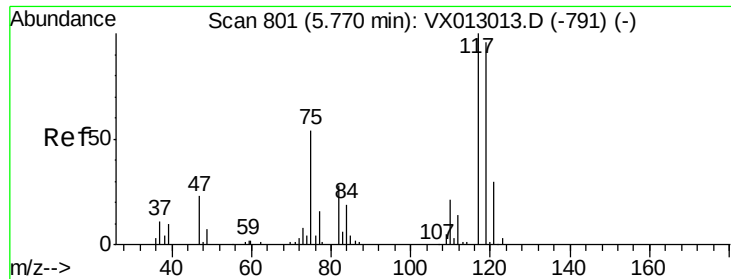


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 7.335 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013126.D

Acq: 18 Oct 2019 14:48

Instrument :

MSVOA_X

ClientSampleId :

TB04-SRI4

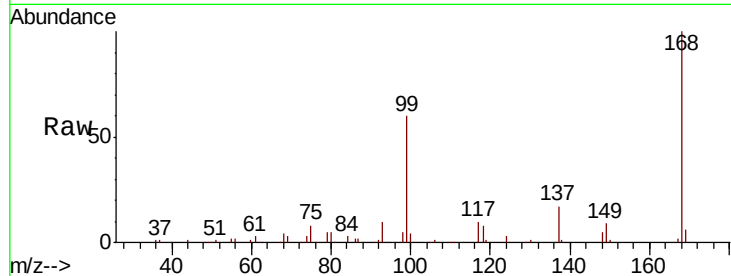
Tot Ion:117 Resp: 16032

Ion Ratio Lower Upper

117 100

119 6.5 74.5 111.7#

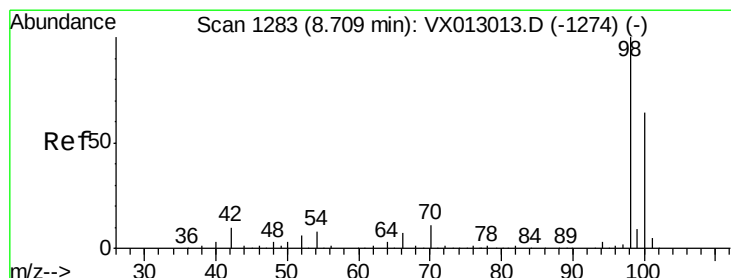
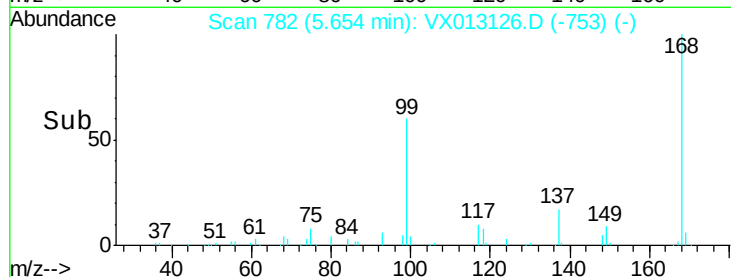
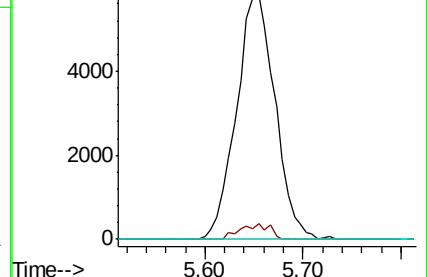
121 0.0 24.2 36.4#



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



#50

Toluene-d8

Concen: 51.526 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013126.D

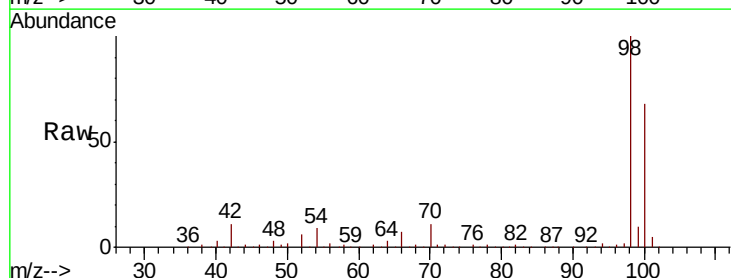
Acq: 18 Oct 2019 14:48

Tgt Ion: 98 Resp: 294586

Ion Ratio Lower Upper

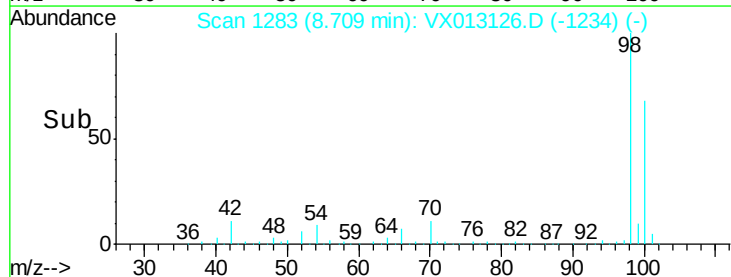
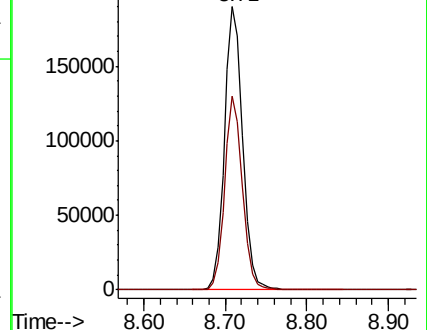
98 100

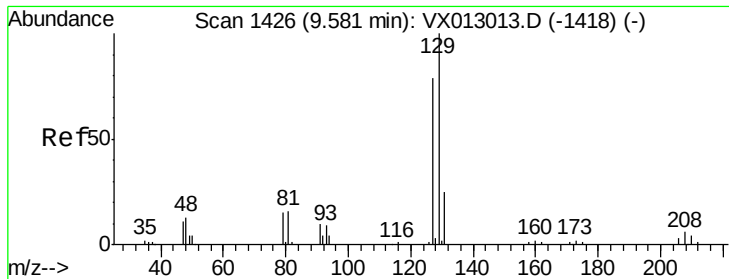
100 66.8 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#60

Dibromochloromethane

Concen: 1.915 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX013126.D

Acq: 18 Oct 2019 14:48

Instrument :

MSVOA_X

ClientSampleId :

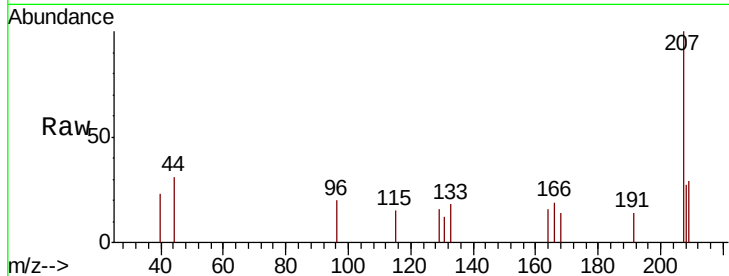
TB04-SRI4

Tot Ion:129 Resp: 113

Ion Ratio Lower Upper

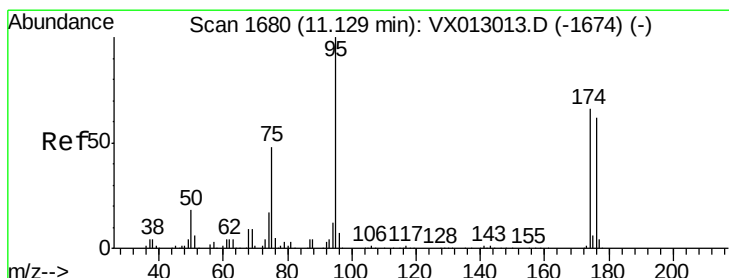
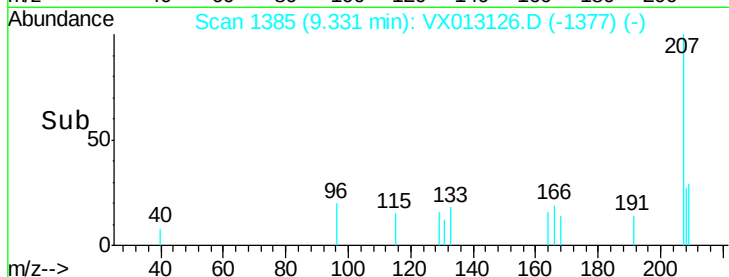
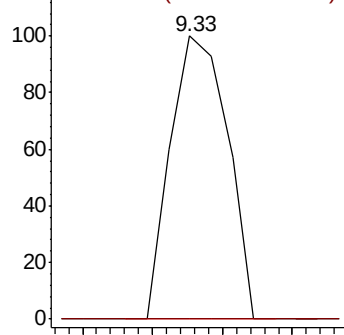
129 100

127 0.0 38.9 116.7#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 44.551 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013126.D

Acq: 18 Oct 2019 14:48

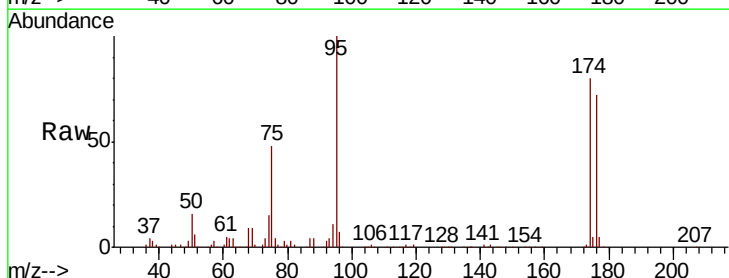
Tgt Ion: 95 Resp: 98969

Ion Ratio Lower Upper

95 100

174 75.1 0.0 143.4

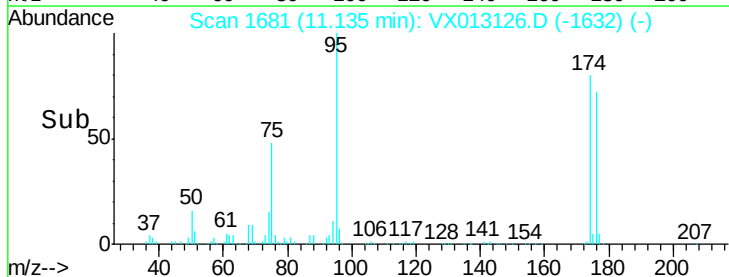
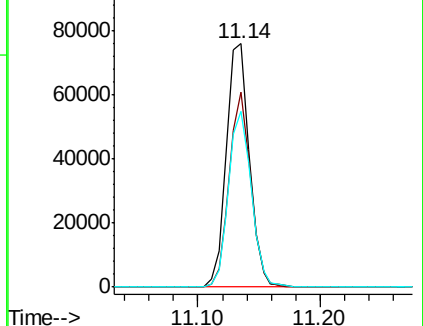
176 71.3 0.0 136.0

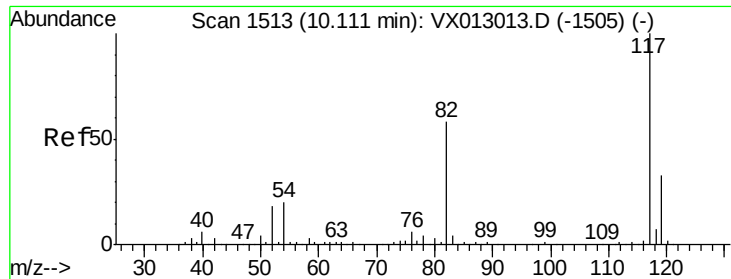


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

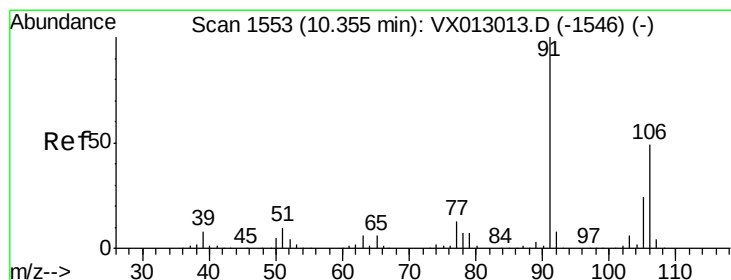
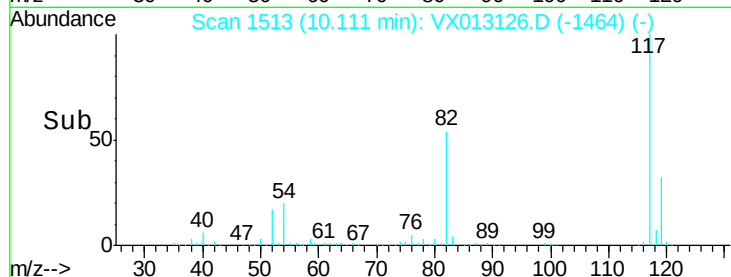
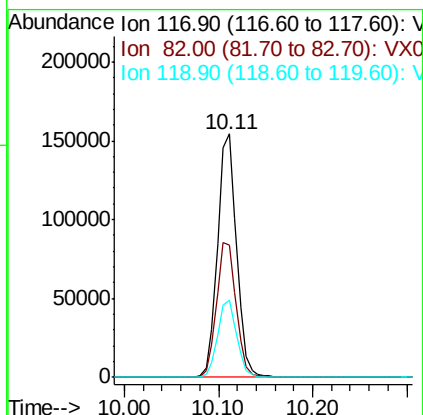
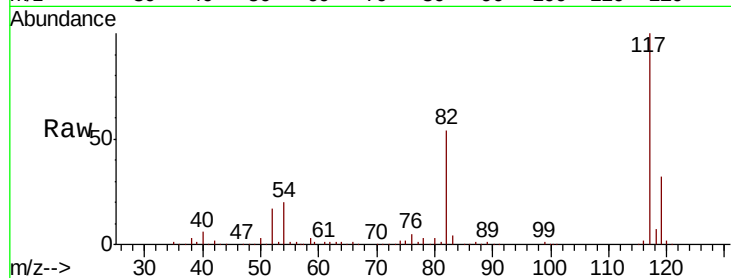




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013126.D
Acq: 18 Oct 2019 14:48

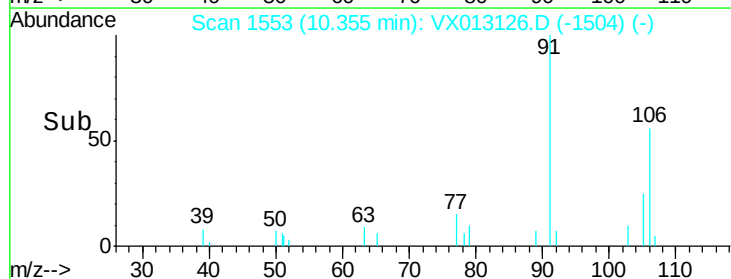
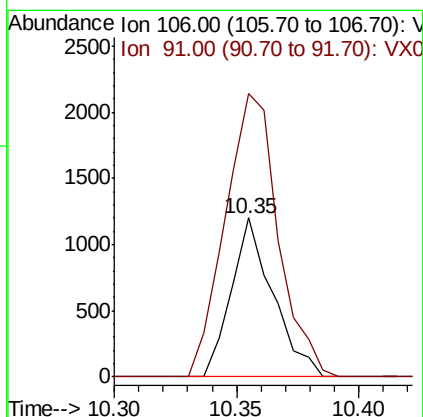
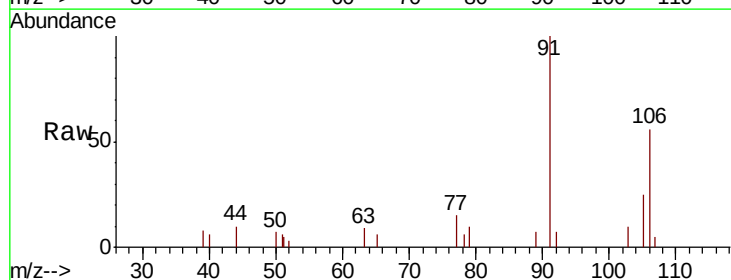
Instrument :
MSVOA_X
ClientSampled :
TB04-SRI4

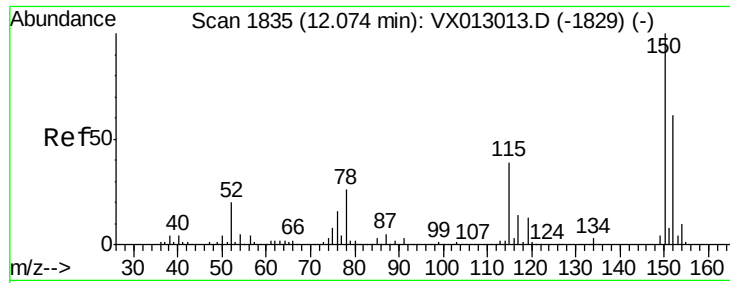
Tot Ion:117 Resp: 216084
Ion Ratio Lower Upper
117 100
82 54.3 44.1 66.1
119 31.5 25.8 38.8



#68
m/p-Xylenes
Concen: 0.498 ug/l
RT: 10.35 min Scan# 1553
Delta R.T. -0.00 min
Lab File: VX013126.D
Acq: 18 Oct 2019 14:48

Tgt Ion:106 Resp: 1418
Ion Ratio Lower Upper
106 100
91 227.2 165.3 247.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013126.D

Acq: 18 Oct 2019 14:48

Instrument :

MSVOA_X

ClientSampleId :

TB04-SRI4

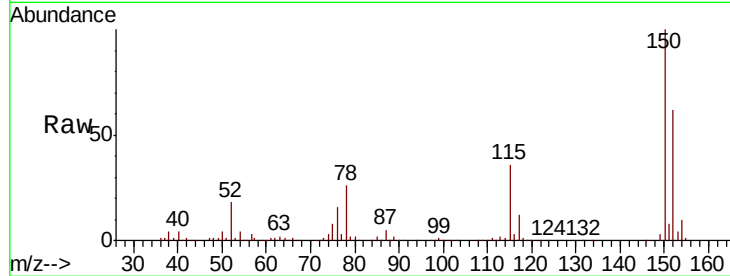
Tot Ion:152 Resp: 80917

Ion Ratio Lower Upper

152 100

115 63.9 44.5 133.5

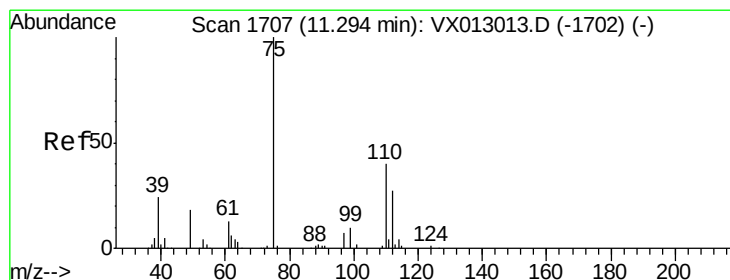
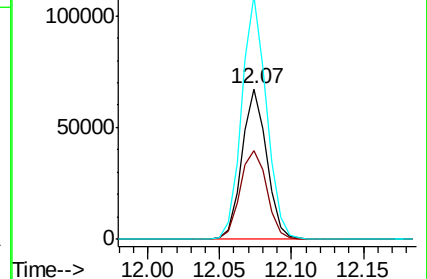
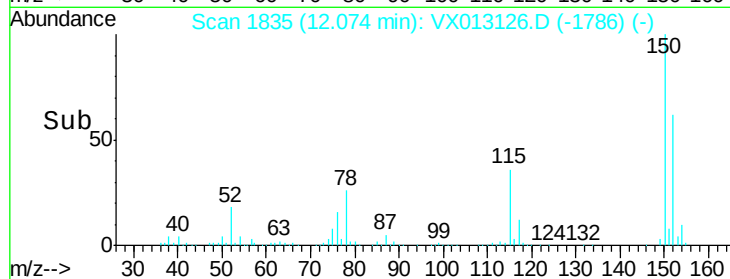
150 161.1 0.0 353.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.827 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX013126.D

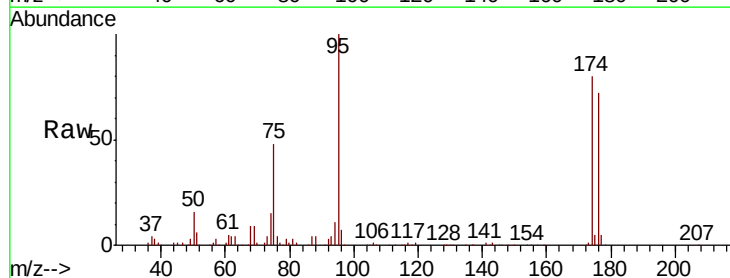
Acq: 18 Oct 2019 14:48

Tgt Ion: 75 Resp: 48147

Ion Ratio Lower Upper

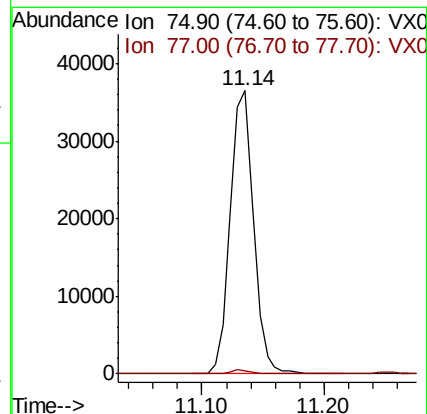
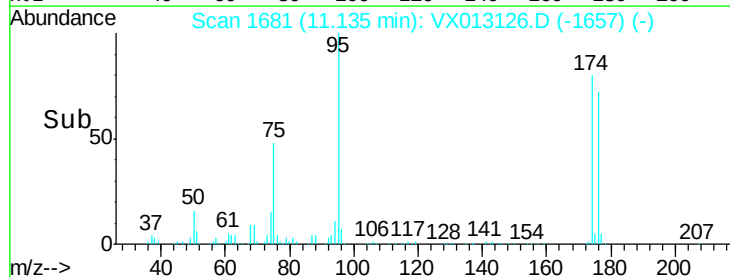
75 100

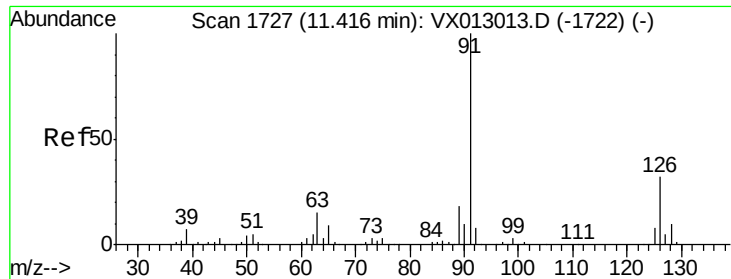
77 1.3 22.9 68.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

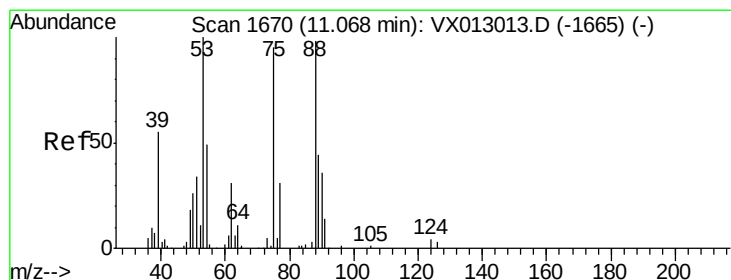
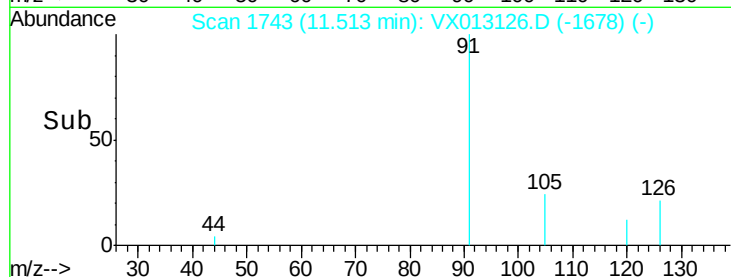
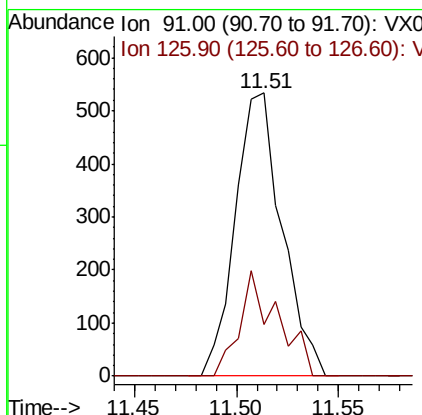
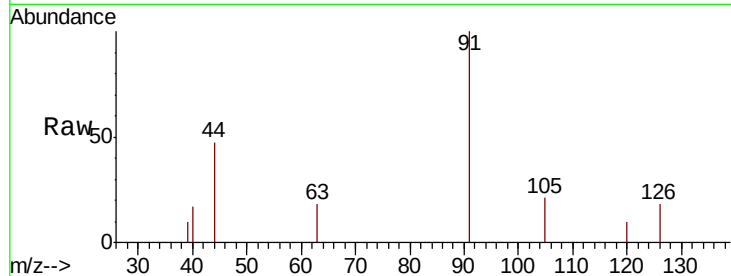




#79
 2-Chlorotoluene
 Concen: 0.206 ug/l
 RT: 11.51 min Scan# 1743
 Delta R.T. 0.10 min
 Lab File: VX013126.D
 Acq: 18 Oct 2019 14:48

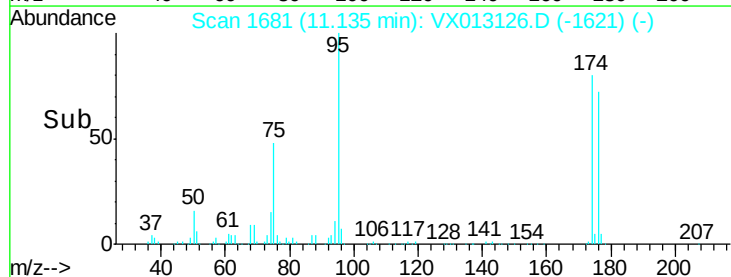
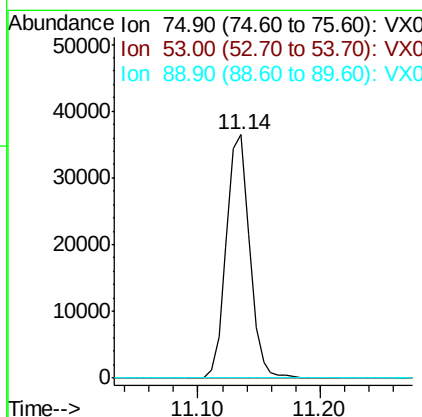
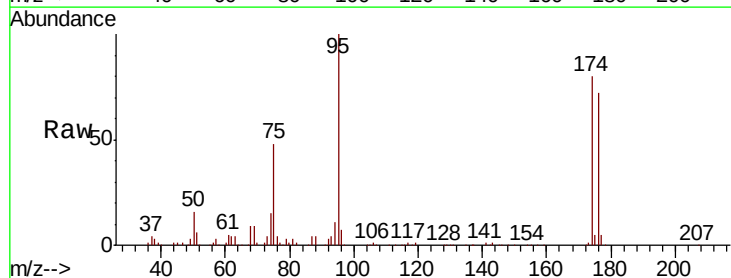
Instrument :
 MSVOA_X
 ClientSampleId :
 TB04-SRI4

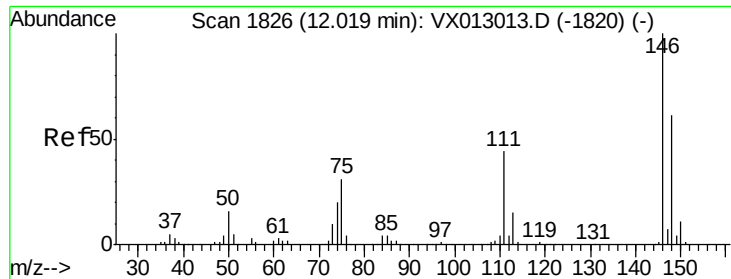
Tot Ion: 91 Resp: 848
 Ion Ratio Lower Upper
 91 100
 126 30.2 16.3 48.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.434 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. 0.07 min
 Lab File: VX013126.D
 Acq: 18 Oct 2019 14:48

Tgt Ion: 75 Resp: 48147
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.5 117.7#
 89 0.0 37.4 56.2#

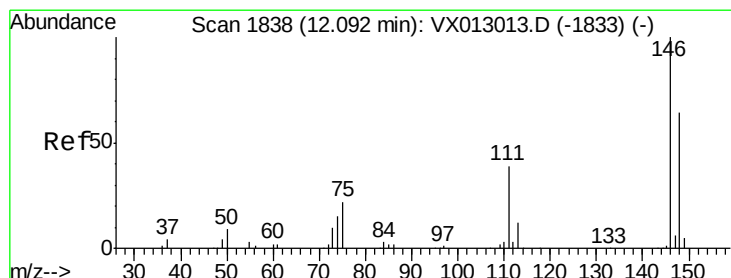
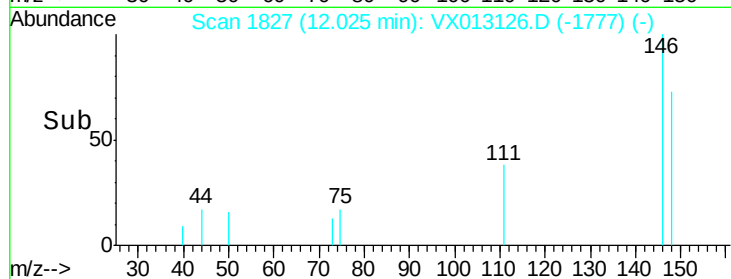
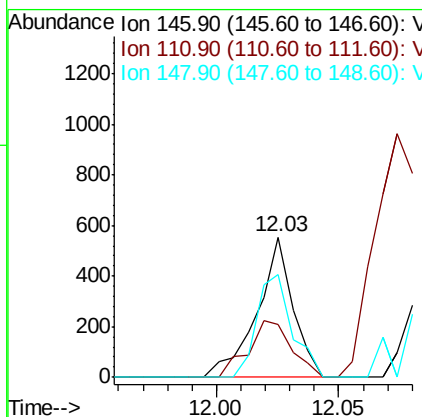
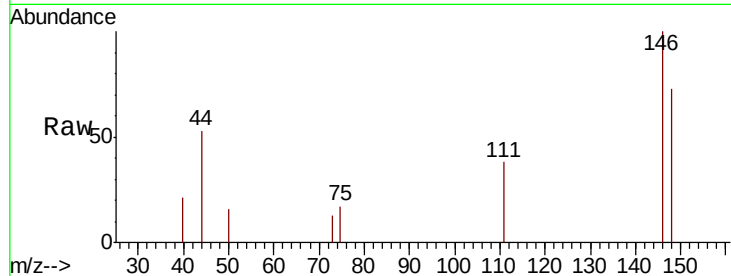




#87
 1,3-Dichlorobenzene
 Concen: 0.219 ug/l
 RT: 12.03 min Scan# 1827
 Delta R.T. 0.01 min
 Lab File: VX013126.D
 Acq: 18 Oct 2019 14:48

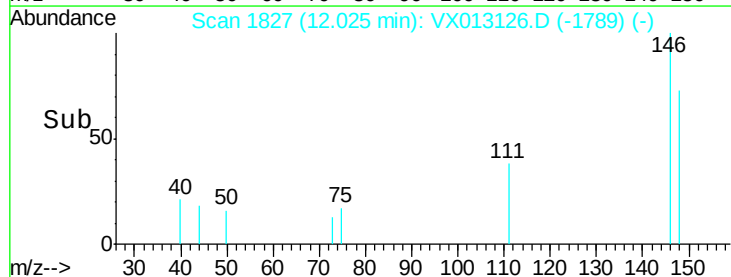
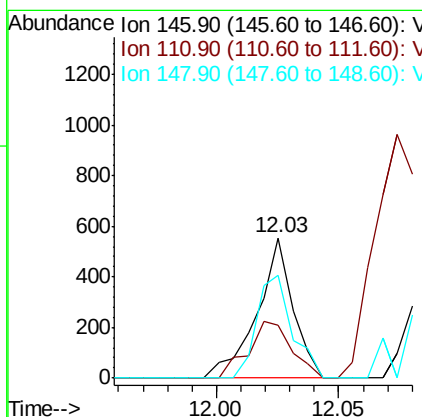
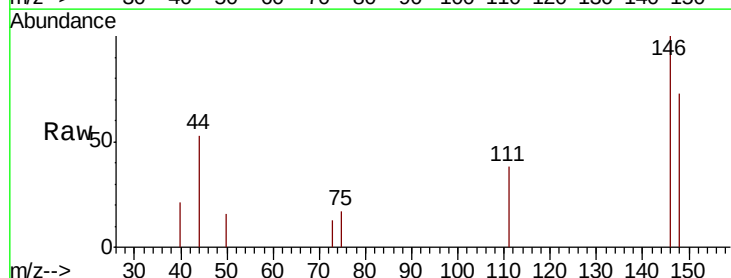
Instrument :
 MSVOA_X
 ClientSampled :
 TB04-SRI4

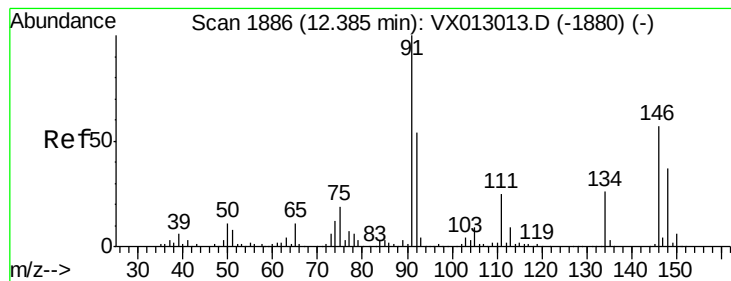
Tot Ion:146 Resp: 570
 Ion Ratio Lower Upper
 146 100
 111 48.9 21.1 63.4
 148 72.1 31.6 95.0



#88
 1,4-Dichlorobenzene
 Concen: 0.216 ug/l
 RT: 12.03 min Scan# 1827
 Delta R.T. -0.07 min
 Lab File: VX013126.D
 Acq: 18 Oct 2019 14:48

Tgt Ion:146 Resp: 570
 Ion Ratio Lower Upper
 146 100
 111 48.9 21.4 64.3
 148 72.1 32.1 96.5





#91

1,2-Dichlorobenzene

Concen: 0.209 ug/l

RT: 12.39 min Scan# 1887

Delta R.T. 0.01 min

Lab File: VX013126.D

Acq: 18 Oct 2019 14:48

Instrument :

MSVOA_X

ClientSampled :

TB04-SRI4

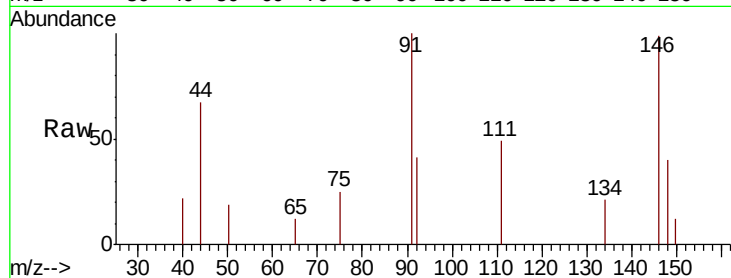
Tot Ion:146 Resp: 533

Ion Ratio Lower Upper

146 100

111 31.9 22.7 68.0

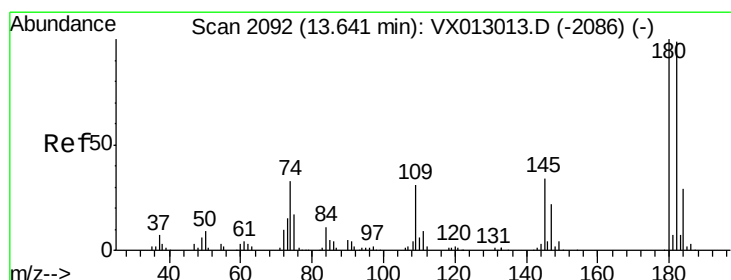
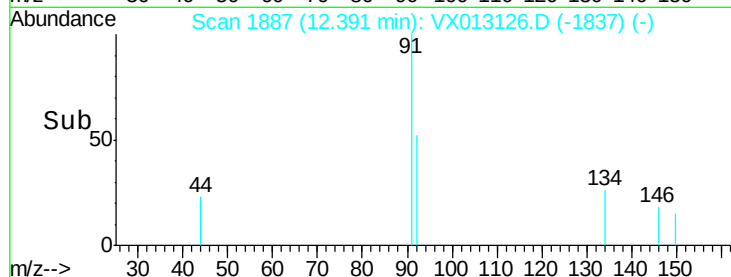
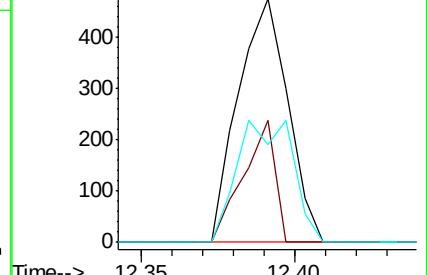
148 56.3 31.6 94.7



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



#93

1,2,4-Trichlorobenzene

Concen: 0.363 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. -0.00 min

Lab File: VX013126.D

Acq: 18 Oct 2019 14:48

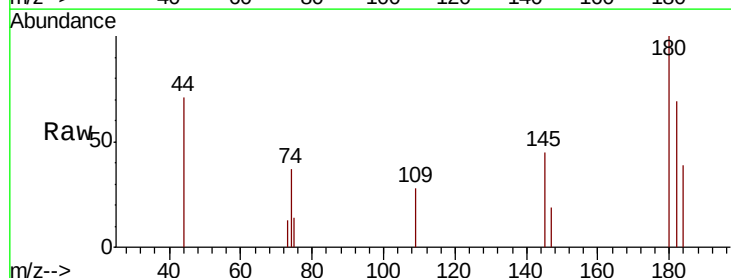
Tgt Ion:180 Resp: 580

Ion Ratio Lower Upper

180 100

182 96.9 46.8 140.4

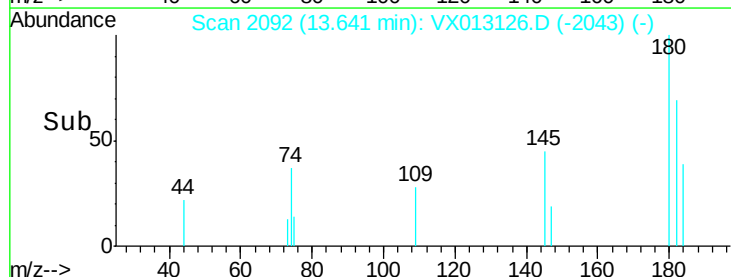
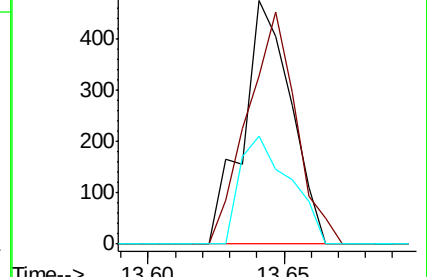
145 46.6 16.2 48.6

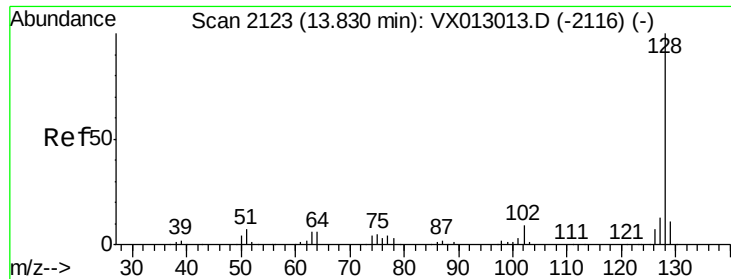


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 0.434 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. -0.00 min

Lab File: VX013126.D

Acq: 18 Oct 2019 14:48

Instrument :

MSVOA_X

ClientSampled :

TB04-SRI4

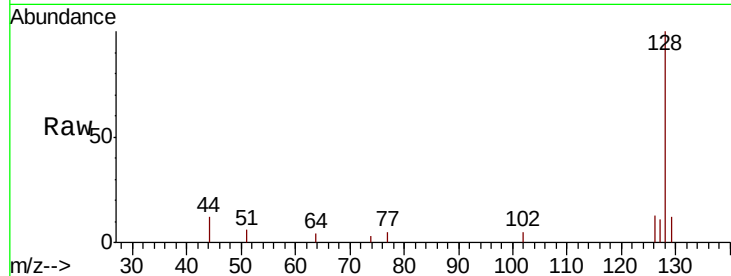
Tot Ion:128 Resp: 2403

Ion Ratio Lower Upper

128 100

127 11.3 10.2 15.4

129 8.4 8.8 13.2#

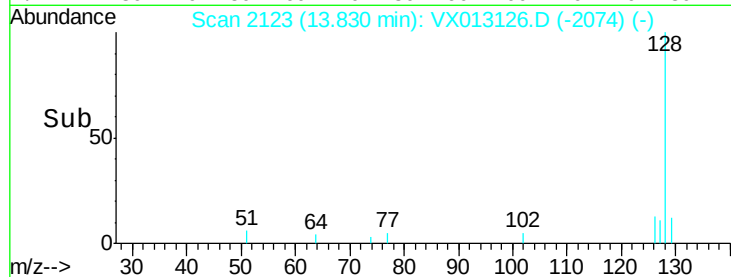


Abundance Ion 128.00 (127.70 to 128.70): V

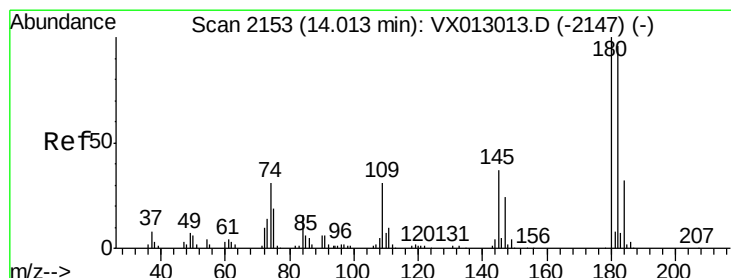
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

Time-->



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 0.354 ug/l

RT: 14.02 min Scan# 2154

Delta R.T. 0.01 min

Lab File: VX013126.D

Acq: 18 Oct 2019 14:48

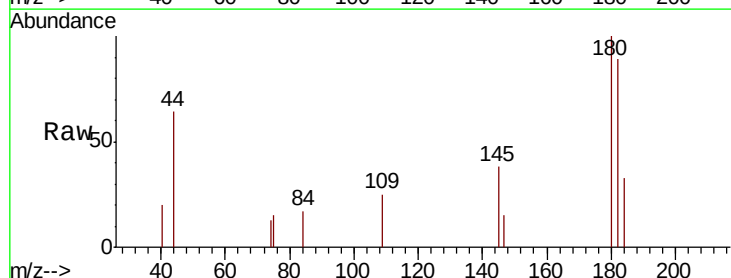
Tgt Ion:180 Resp: 585

Ion Ratio Lower Upper

180 100

182 103.1 47.5 142.5

145 36.9 17.4 52.3

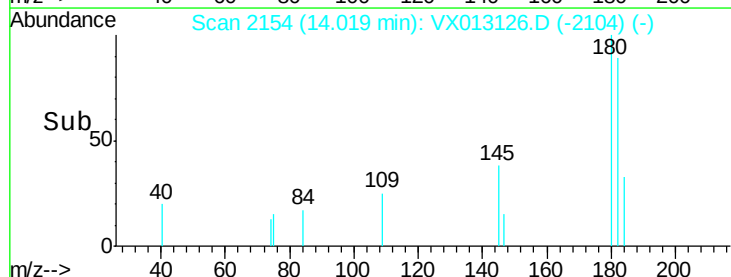


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

Time-->



Time-->