

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040419\
 Data File : VX008667.D
 Acq On : 05 Apr 2019 04:09
 Operator : JC/SP
 Sample : K2274-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ST006RW149-190402

Quant Time: Apr 05 09:27:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	212069	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	354234	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	303155	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	128134	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	144651	46.76	ug/l	0.00
Spiked Amount			Recovery	=	93.52%	
35) Dibromofluoromethane	5.50	113	108515	47.91	ug/l	0.00
Spiked Amount			Recovery	=	95.82%	
50) Toluene-d8	8.71	98	440589	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
62) 4-Bromofluorobenzene	11.13	95	148715	46.50	ug/l	0.00
Spiked Amount			Recovery	=	93.00%	

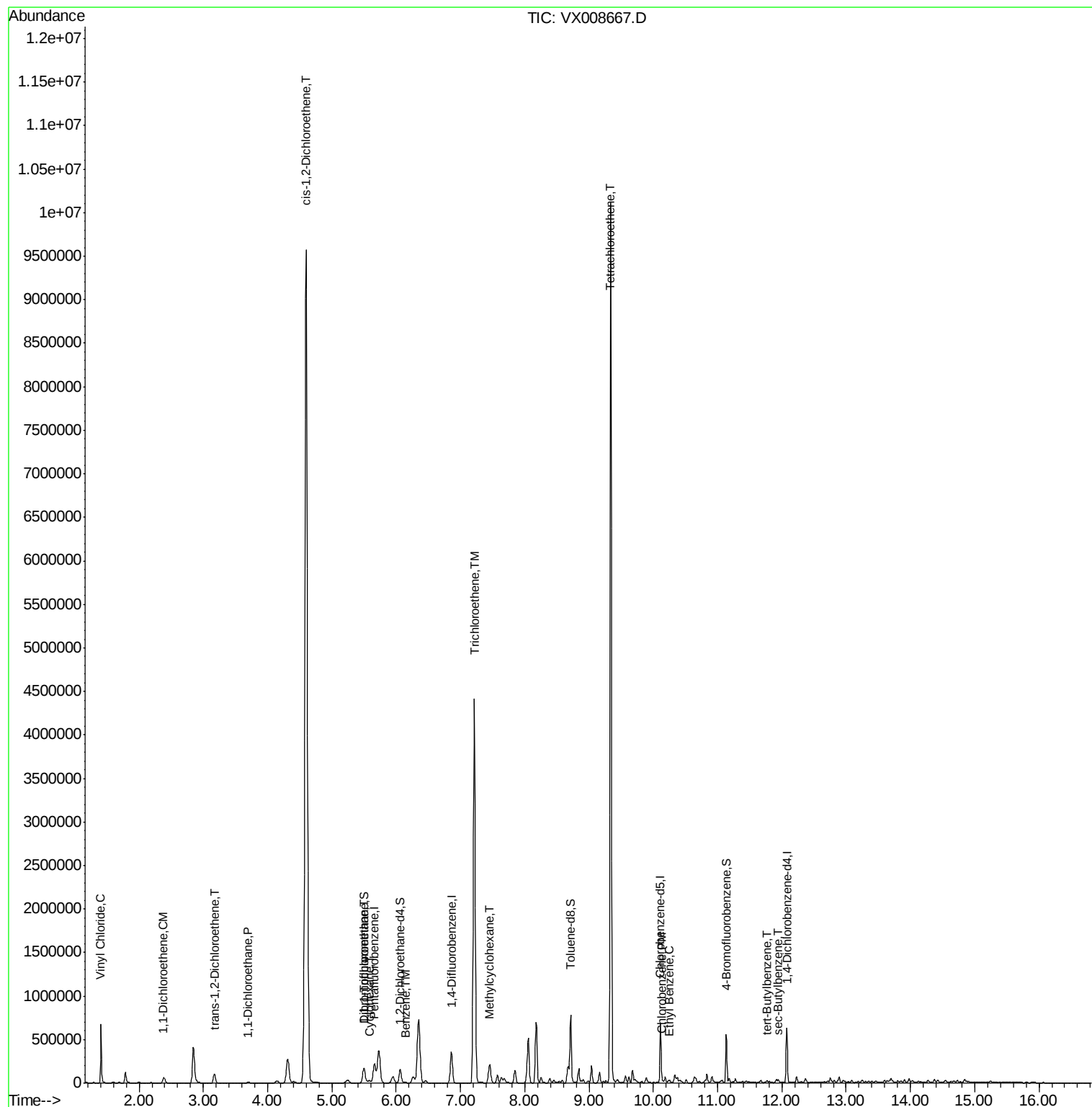
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	457181	138.543	ug/l	100
12) 1,1-Dichloroethene	2.37	96	10269	4.189	ug/l	99
21) trans-1,2-Dichloroethene	3.17	96	12570	4.740	ug/l	99
24) 1,1-Dichloroethane	3.70	63	9217	1.721	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	5948123	1950.865	ug/l	88
31) Cyclohexane	5.59	56	19531	3.655	ug/l	94
32) 1,1,1-Trichloroethane	5.50	97	45421	11.750	ug/l	99
39) Methylcyclohexane	7.46	83	74220	15.516	ug/l #	77
40) Benzene	6.15	78	4729	0.410	ug/l	95
44) Trichloroethene	7.21	130	1651393	614.654	ug/l	100
64) Tetrachloroethene	9.34	164	1982785	882.783	ug/l	98
65) Chlorobenzene	10.14	112	6674	0.993	ug/l	99
67) Ethyl Benzene	10.26	91	5346	0.427	ug/l	97
83) tert-Butylbenzene	11.77	119	9426	1.099	ug/l	86
85) sec-Butylbenzene	11.94	105	13457	1.321	ug/l	98

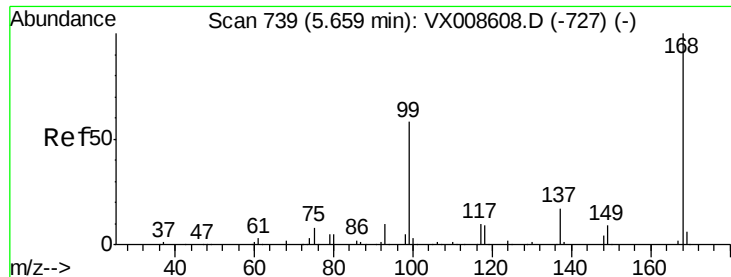
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008667.D

Acq: 05 Apr 2019 04:09

Instrument :

MSVOA_X

ClientSampleId :

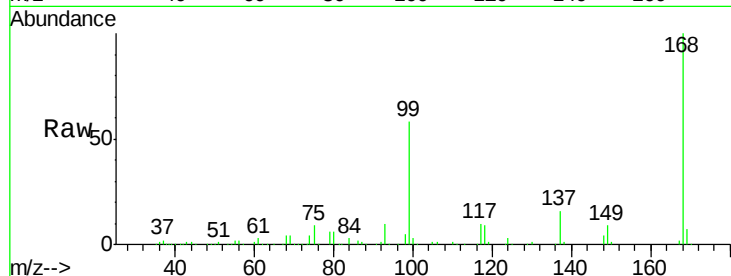
ST006RW149-190402

Tot Ion:168 Resp: 212069

Ion Ratio Lower Upper

168 100

99 58.1 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

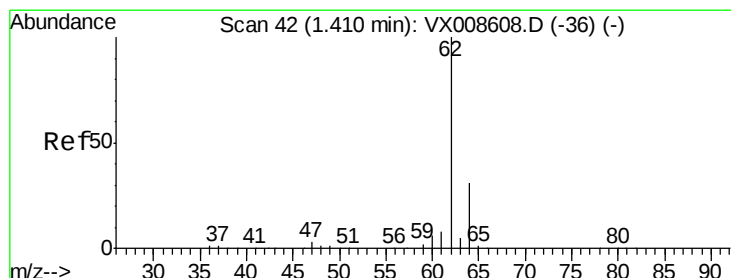
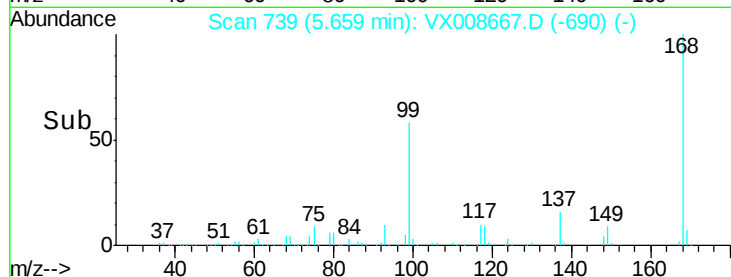
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 138.543 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX008667.D

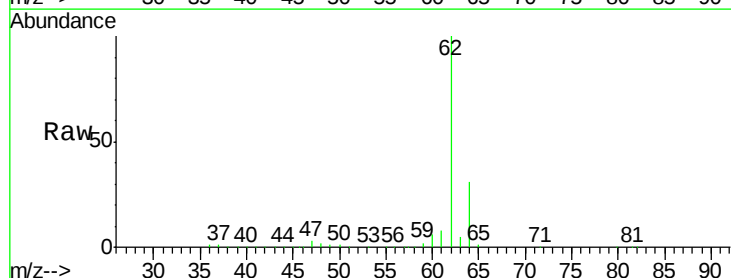
Acq: 05 Apr 2019 04:09

Tgt Ion: 62 Resp: 457181

Ion Ratio Lower Upper

62 100

64 31.1 24.7 37.1



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

400000

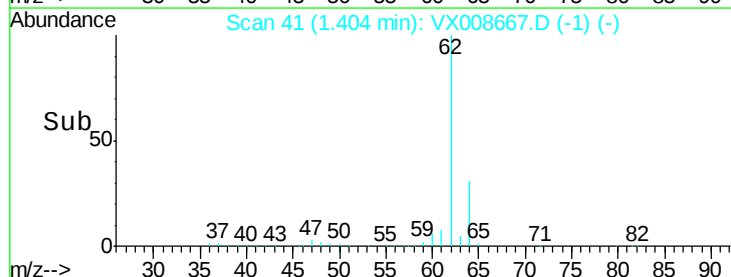
300000

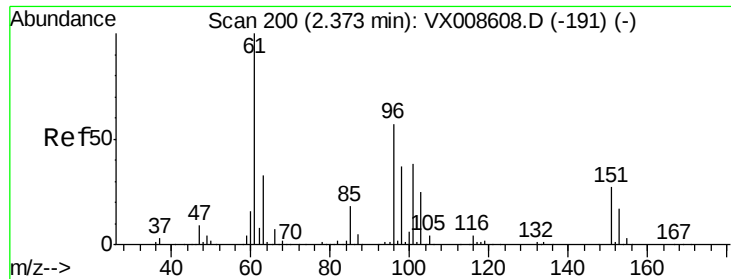
200000

100000

0

Time--> 1.30 1.40 1.50





#12

1,1-Dichloroethene

Concen: 4.189 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.00 min

Lab File: VX008667.D

Acq: 05 Apr 2019 04:09

Instrument :

MSVOA_X

ClientSampleId :

ST006RW149-190402

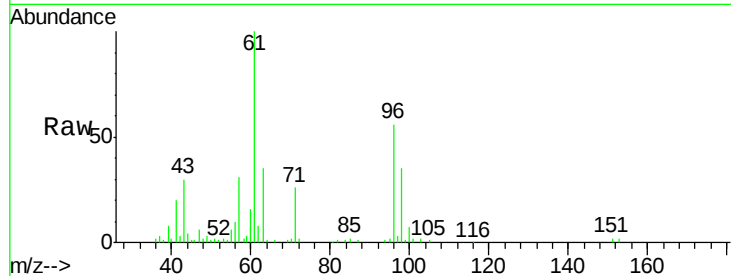
Tot Ion: 96 Resp: 10269

Ion Ratio Lower Upper

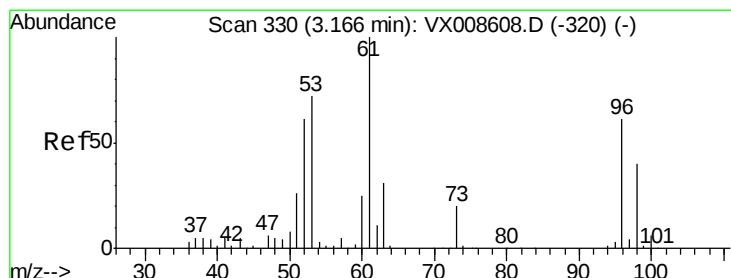
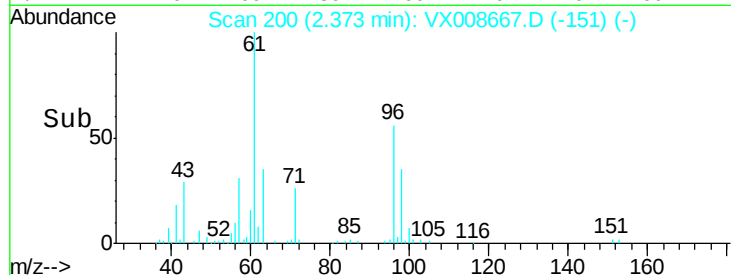
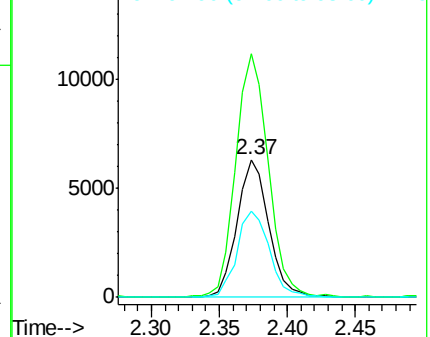
96 100

61 177.0 140.9 211.3

98 62.3 52.1 78.1



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#21

trans-1,2-Dichloroethene

Concen: 4.740 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX008667.D

Acq: 05 Apr 2019 04:09

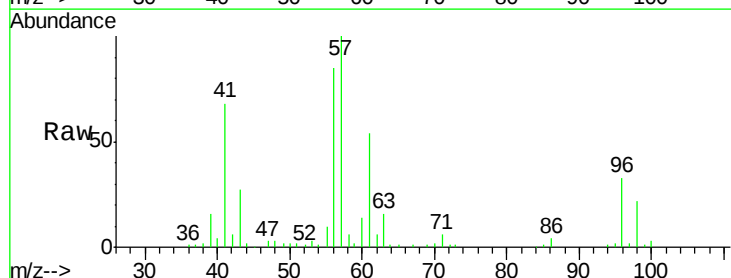
Tgt Ion: 96 Resp: 12570

Ion Ratio Lower Upper

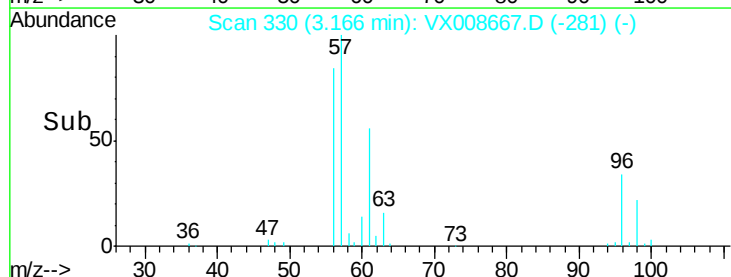
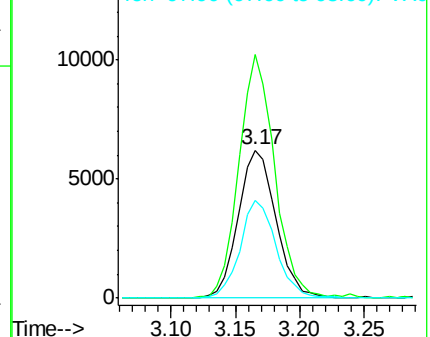
96 100

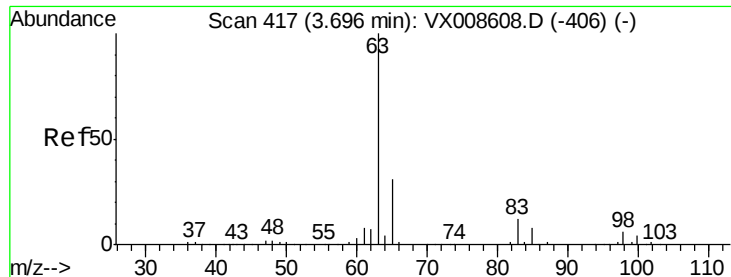
61 164.3 132.1 198.1

98 65.7 52.2 78.2



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#24

1,1-Dichloroethane

Concen: 1.721 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX008667.D

Acq: 05 Apr 2019 04:09

Instrument :

MSVOA_X

ClientSampleId :

ST006RW149-190402

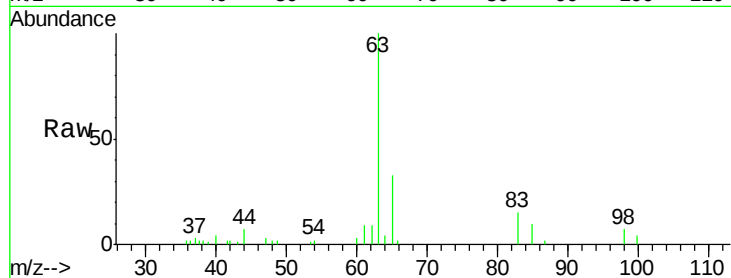
Tot Ion: 63 Resp: 9217

Ion Ratio Lower Upper

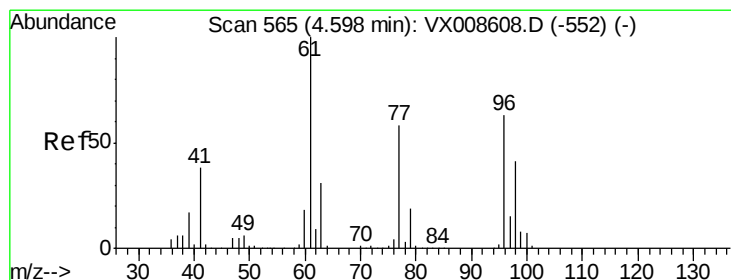
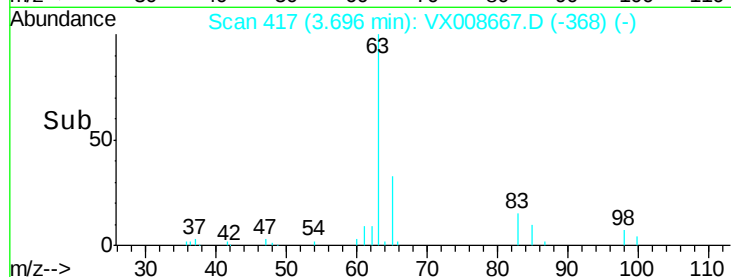
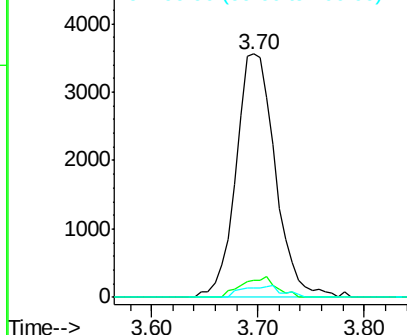
63 100

98 6.9 2.8 8.4

100 4.0 1.8 5.5



Abundance Ion 62.90 (62.60 to 63.60): VX0
Ion 97.90 (97.60 to 98.60): VX0
Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 1950.865 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX008667.D

Acq: 05 Apr 2019 04:09

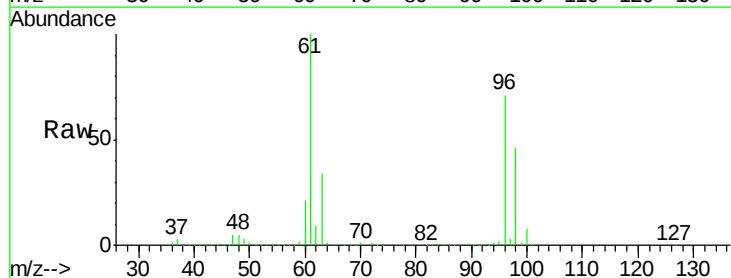
Tgt Ion: 96 Resp: 5948123

Ion Ratio Lower Upper

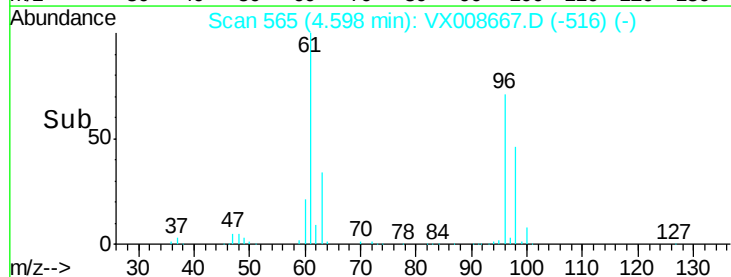
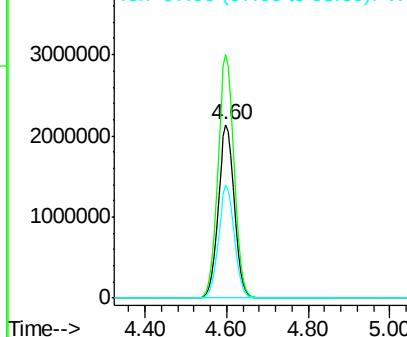
96 100

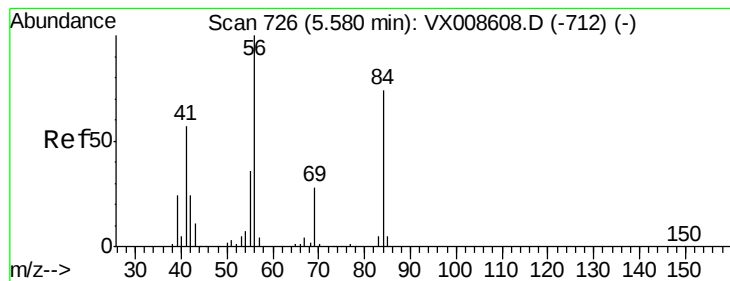
61 141.8 0.0 327.6

98 64.5 0.0 128.6



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 3.655 ug/l

RT: 5.59 min Scan# 727

Delta R.T. 0.01 min

Lab File: VX008667.D

Acq: 05 Apr 2019 04:09

Instrument :

MSVOA_X

ClientSampleId :

ST006RW149-190402

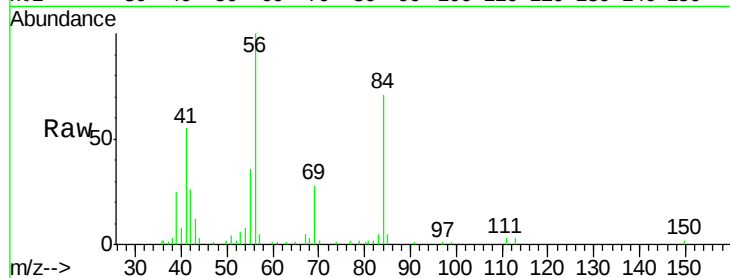
Tot Ion: 56 Resp: 19531

Ion Ratio Lower Upper

56 100

69 26.4 22.6 33.8

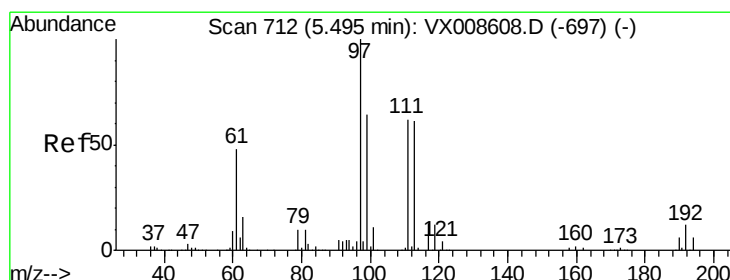
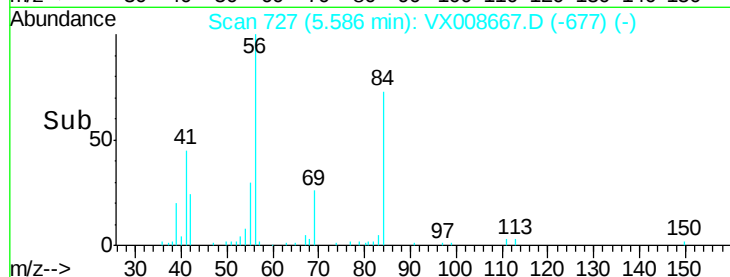
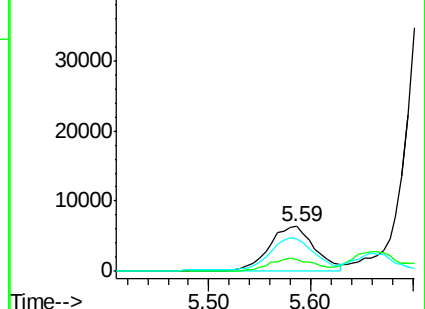
84 68.7 59.3 88.9



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



#32

1,1,1-Trichloroethane

Concen: 11.750 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX008667.D

Acq: 05 Apr 2019 04:09

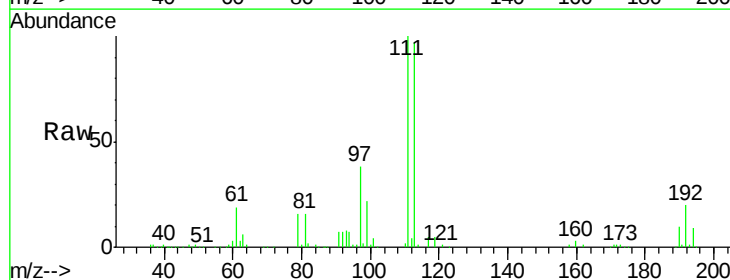
Tgt Ion: 97 Resp: 45421

Ion Ratio Lower Upper

97 100

99 63.3 51.3 76.9

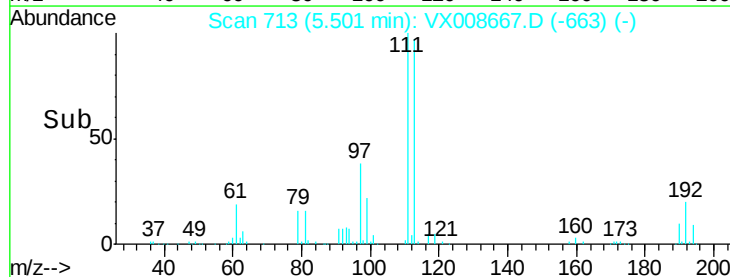
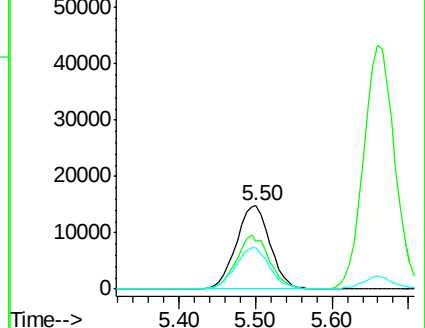
61 49.4 38.9 58.3

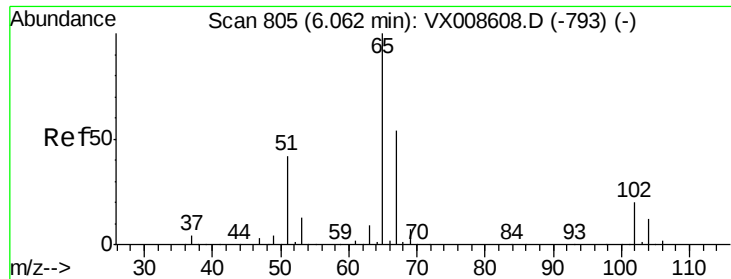


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 46.765 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008667.D

Acq: 05 Apr 2019 04:09

Instrument :

MSVOA_X

ClientSampleId :

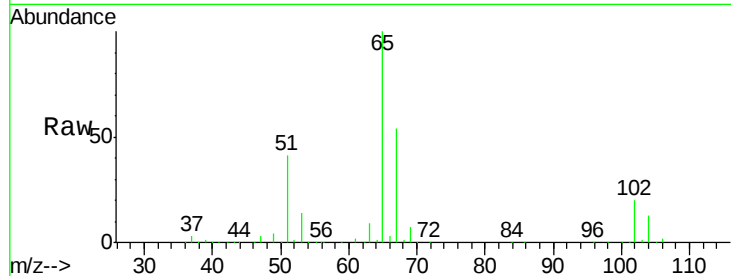
ST006RW149-190402

Tot Ion: 65 Resp: 144651

Ion Ratio Lower Upper

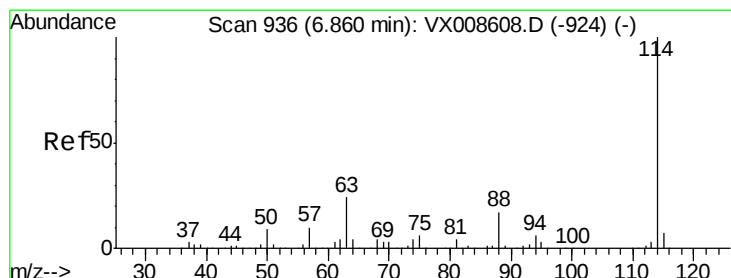
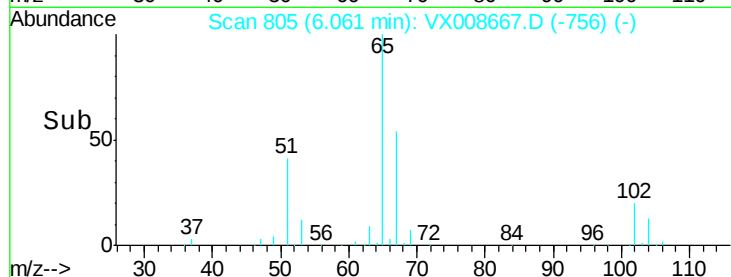
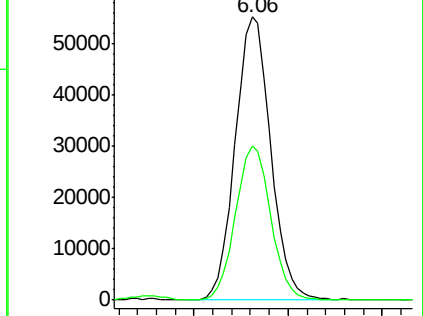
65 100

67 54.0 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008667.D

Acq: 05 Apr 2019 04:09

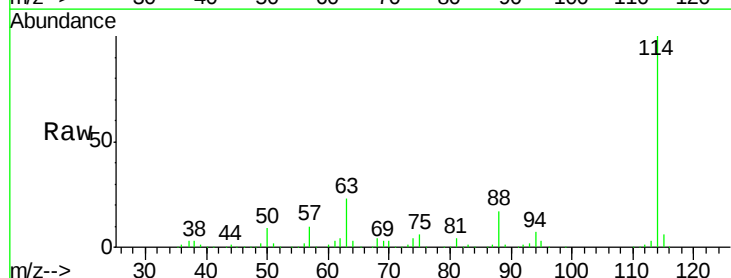
Tgt Ion: 114 Resp: 354234

Ion Ratio Lower Upper

114 100

63 23.0 0.0 47.2

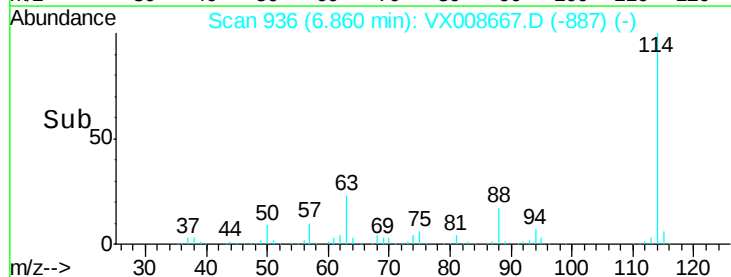
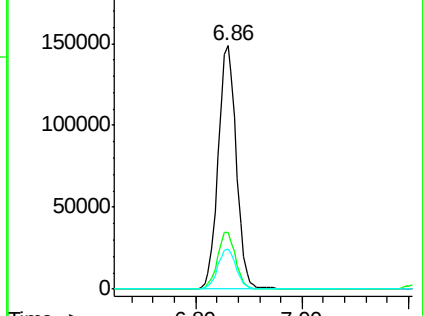
88 16.7 0.0 34.0

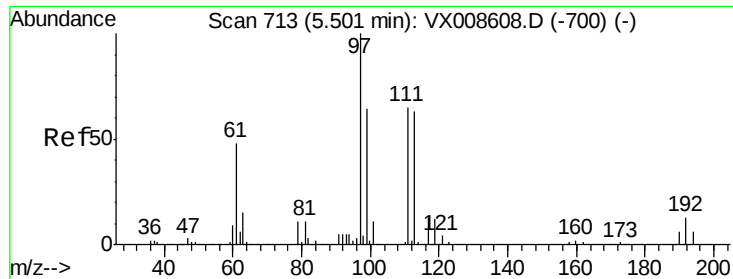


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 47.913 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008667.D

Acq: 05 Apr 2019 04:09

Instrument :

MSVOA_X

ClientSampleId :

ST006RW149-190402

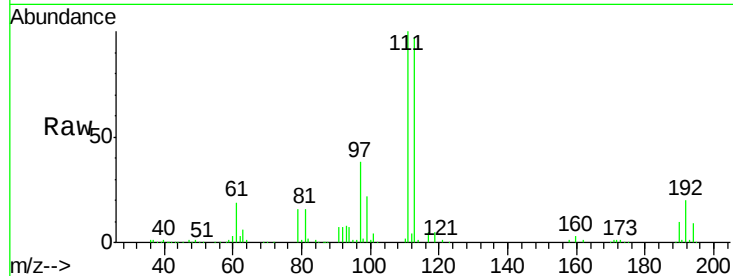
Tot Ion:113 Resp: 108515

Ion Ratio Lower Upper

113 100

111 103.1 83.4 125.2

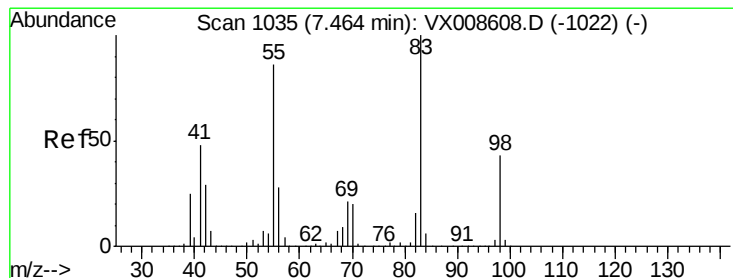
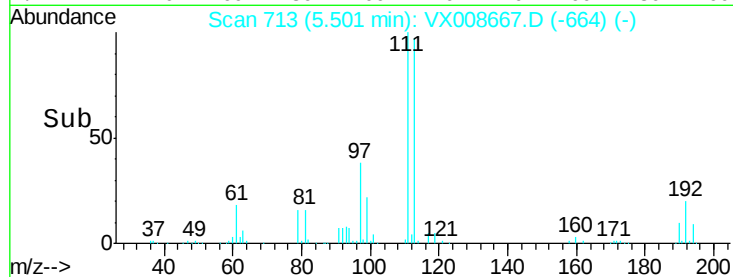
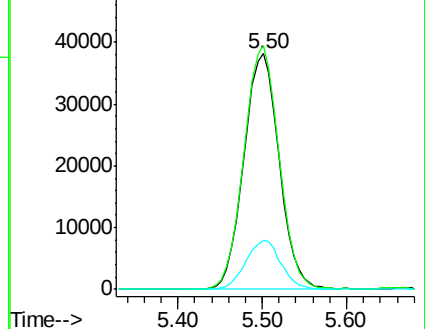
192 20.8 16.1 24.1



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



#39

Methylcyclohexane

Concen: 15.516 ug/l

RT: 7.46 min Scan# 1034

Delta R.T. -0.01 min

Lab File: VX008667.D

Acq: 05 Apr 2019 04:09

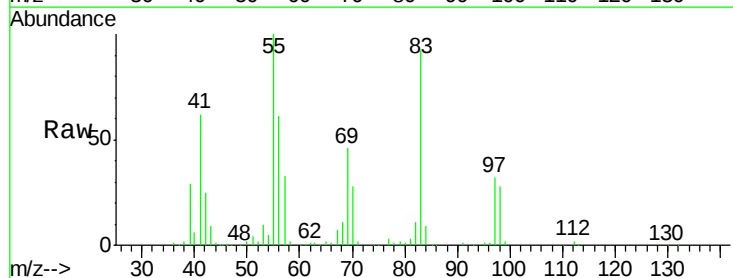
Tgt Ion: 83 Resp: 74220

Ion Ratio Lower Upper

83 100

55 108.7 69.0 103.6#

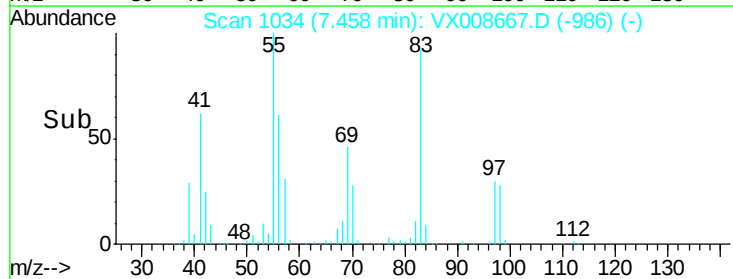
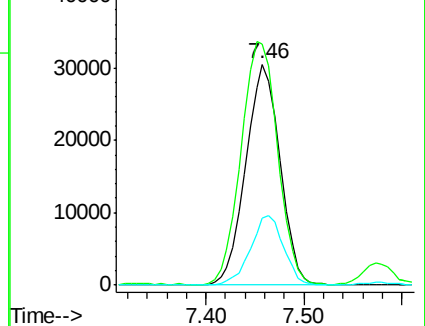
98 30.4 34.4 51.6#

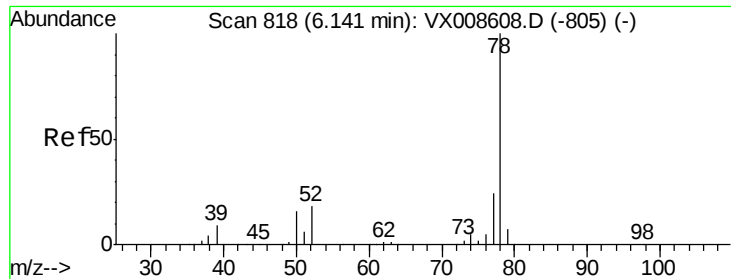


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

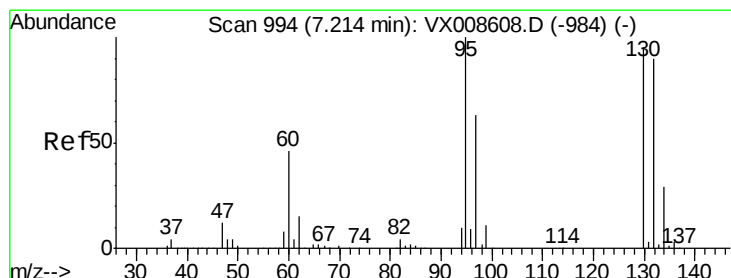
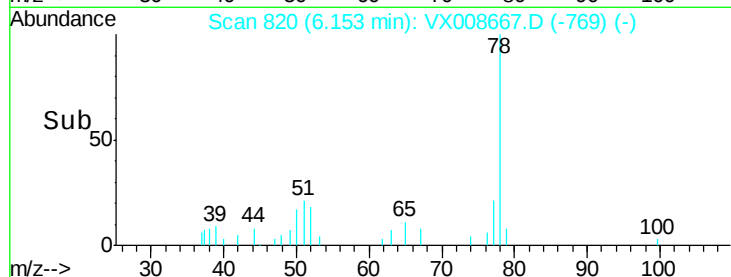
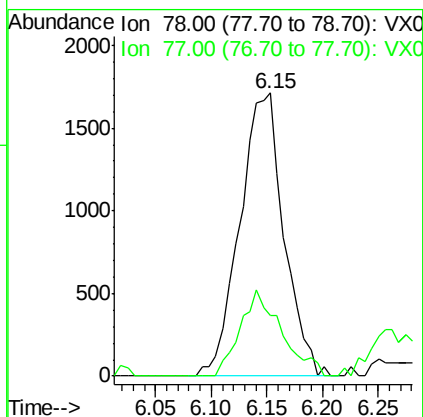
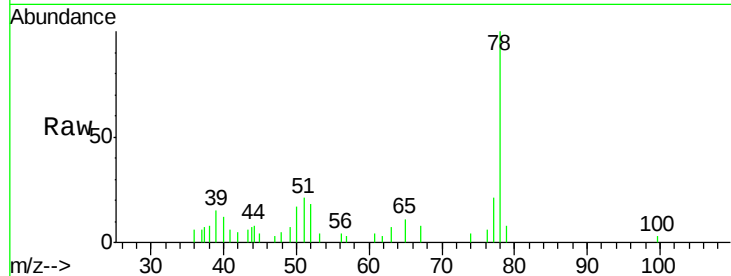




#40
Benzene
Concen: 0.410 ug/l
RT: 6.15 min Scan# 820
Delta R.T. 0.01 min
Lab File: VX008667.D
Acq: 05 Apr 2019 04:09

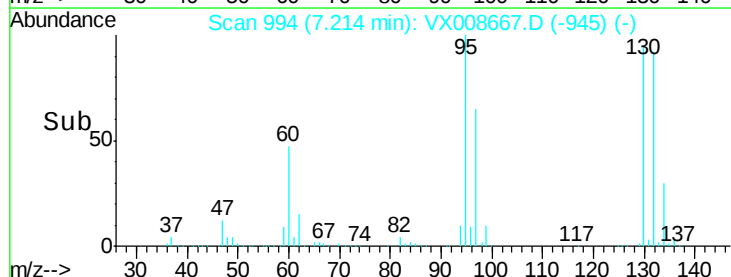
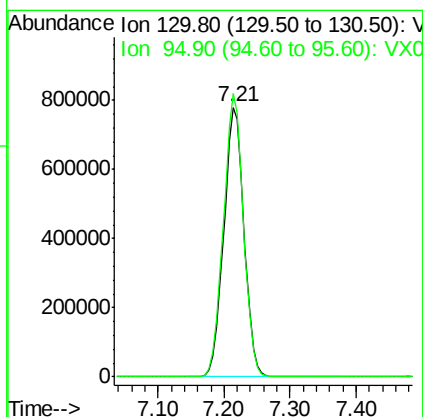
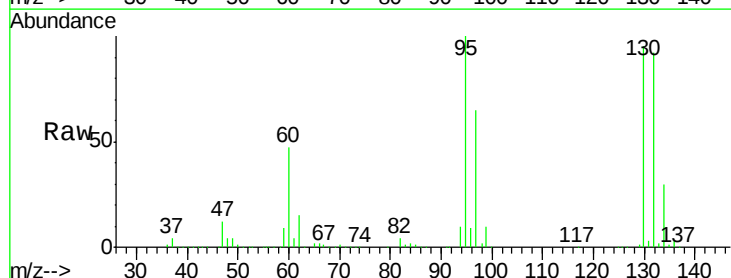
Instrument :
MSVOA_X
ClientSampleId :
ST006RW149-190402

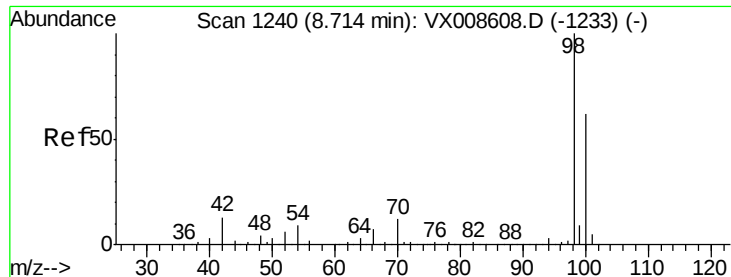
Tot Ion: 78 Resp: 4729
Ion Ratio Lower Upper
78 100
77 21.5 19.1 28.7



#44
Trichloroethene
Concen: 614.654 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.00 min
Lab File: VX008667.D
Acq: 05 Apr 2019 04:09

Tgt Ion:130 Resp: 1651393
Ion Ratio Lower Upper
130 100
95 104.9 0.0 209.8





#50

Toluene-d8

Concen: 48.857 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008667.D

Acq: 05 Apr 2019 04:09

Instrument :

MSVOA_X

ClientSampleId :

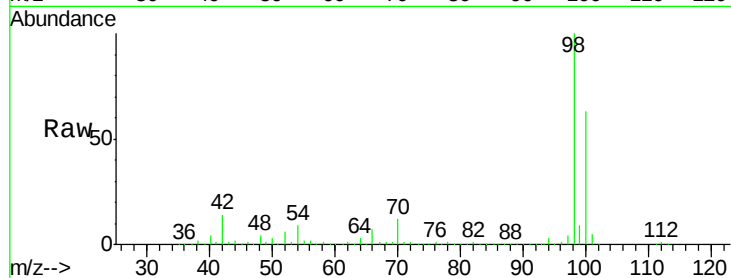
ST006RW149-190402

Tot Ion: 98 Resp: 440589

Ion Ratio Lower Upper

98 100

100 64.3 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

300000

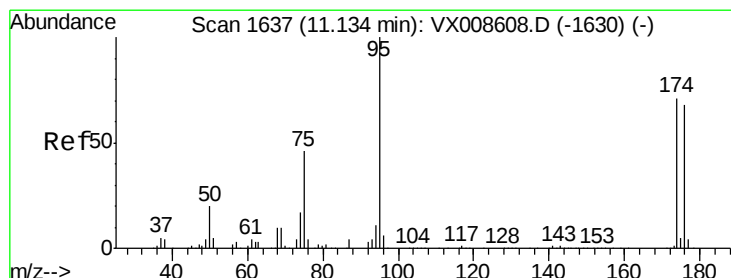
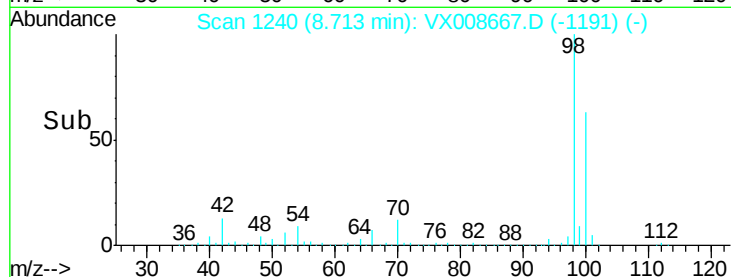
200000

100000

0

8.65 8.70 8.75 8.80 8.85

Time-->



#62

4-Bromofluorobenzene

Concen: 46.504 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008667.D

Acq: 05 Apr 2019 04:09

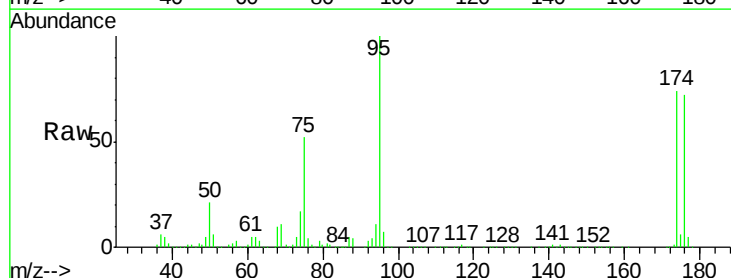
Tgt Ion: 95 Resp: 148715

Ion Ratio Lower Upper

95 100

174 76.3 0.0 151.8

176 74.7 0.0 145.8



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

11.13

150000

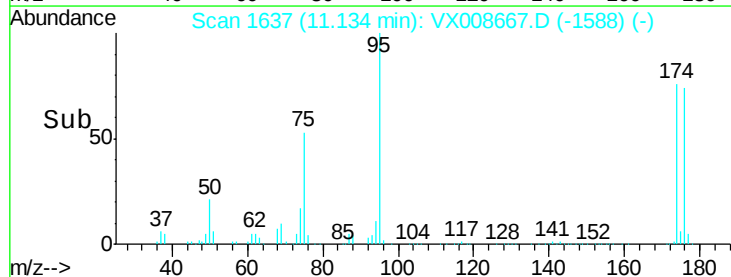
100000

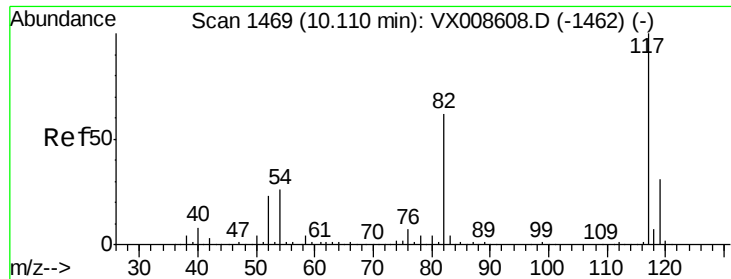
50000

0

11.10 11.15

Time-->

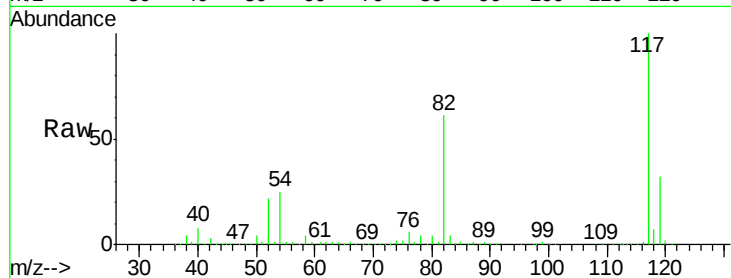




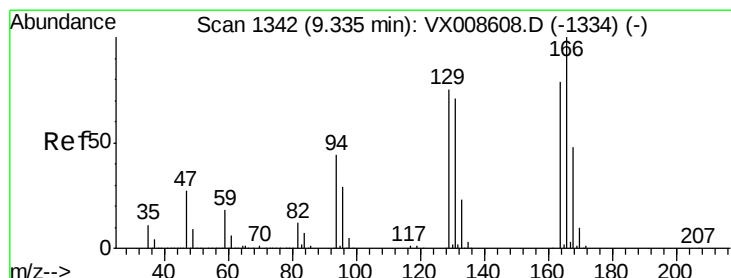
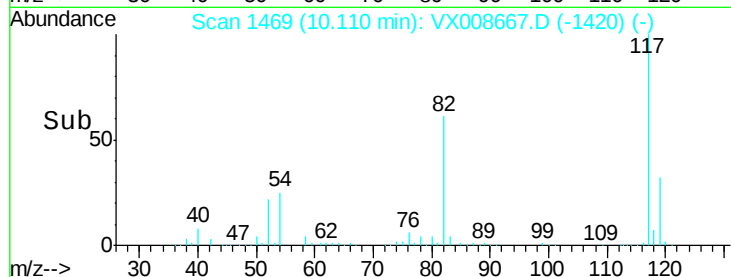
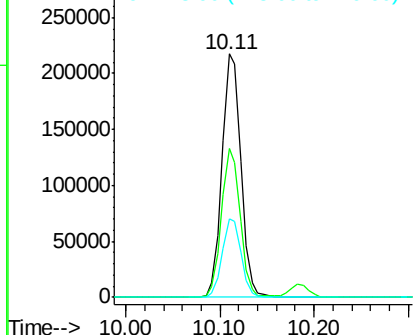
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008667.D
Acq: 05 Apr 2019 04:09

Instrument :
MSVOA_X
ClientSampleId :
ST006RW149-190402

Tot Ion:117 Resp: 303155
Ion Ratio Lower Upper
117 100
82 60.9 49.6 74.4
119 32.2 25.0 37.4



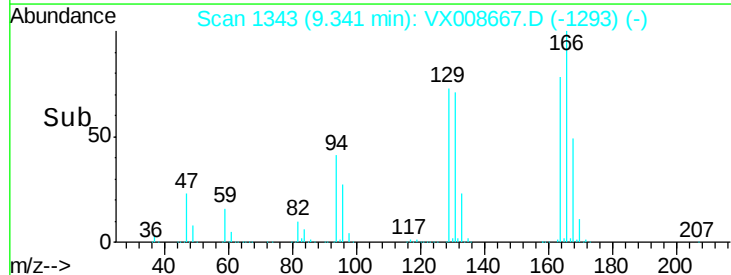
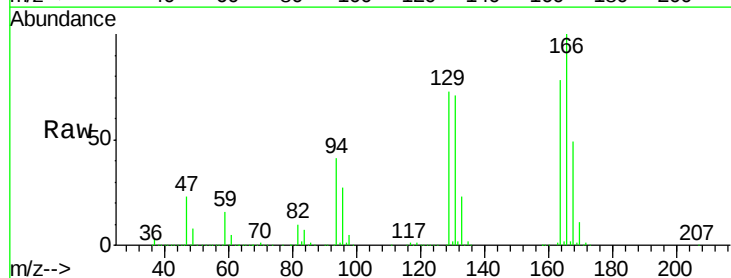
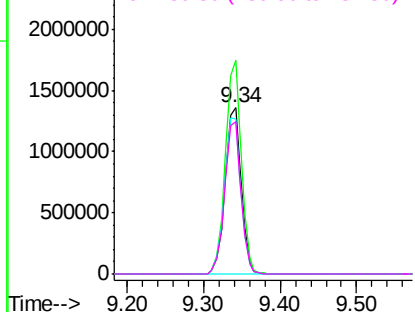
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

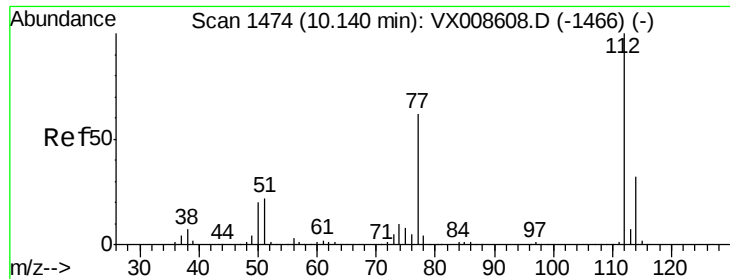


#64
Tetrachloroethene
Concen: 882.783 ug/l
RT: 9.34 min Scan# 1343
Delta R.T. 0.01 min
Lab File: VX008667.D
Acq: 05 Apr 2019 04:09

Tgt Ion:164 Resp: 1982785
Ion Ratio Lower Upper
164 100
166 128.4 101.0 151.6
129 93.1 75.8 113.8
131 91.2 71.8 107.8

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

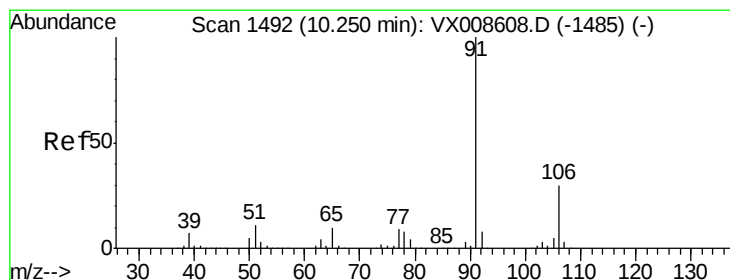
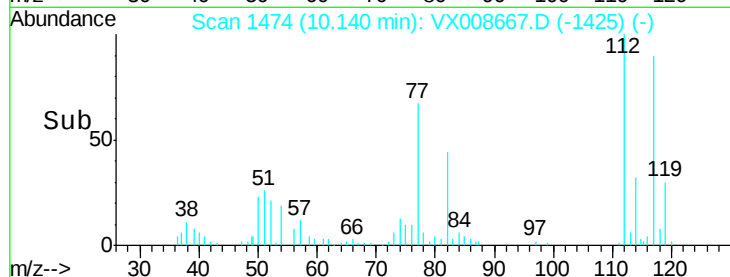
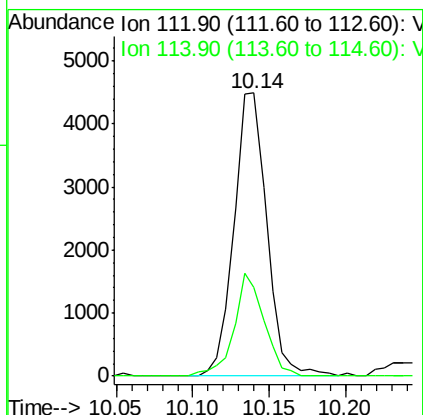
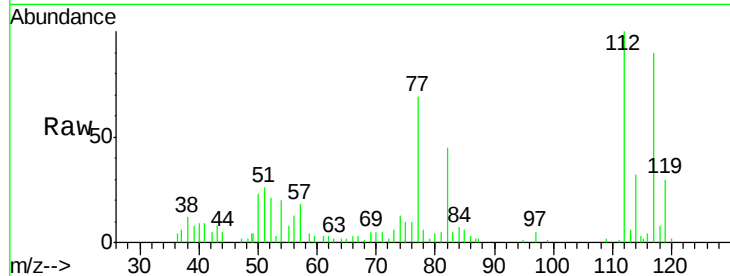




#65
Chlorobenzene
Concen: 0.993 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. -0.00 min
Lab File: VX008667.D
Acq: 05 Apr 2019 04:09

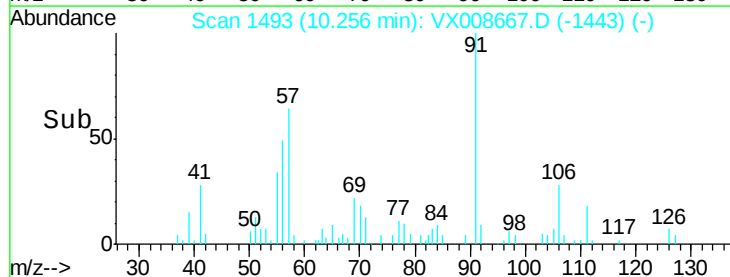
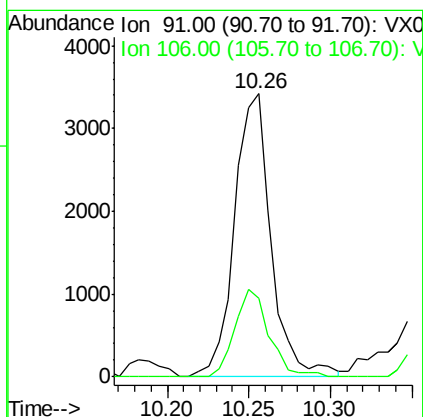
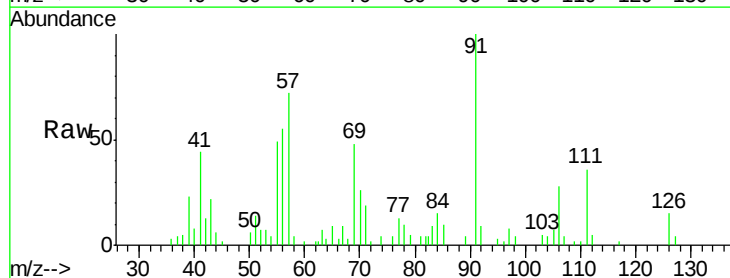
Instrument :
MSVOA_X
ClientSampleId :
ST006RW149-190402

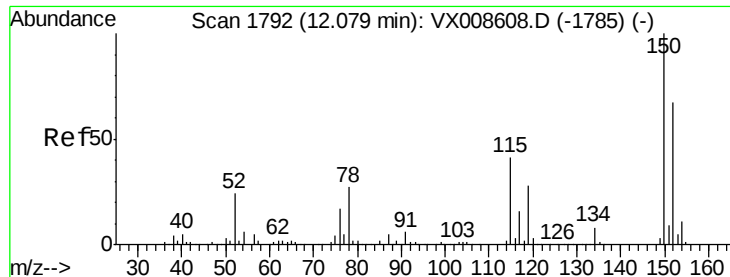
Tot Ion:112 Resp: 6674
Ion Ratio Lower Upper
112 100
114 31.6 25.8 38.8



#67
Ethyl Benzene
Concen: 0.427 ug/l
RT: 10.26 min Scan# 1493
Delta R.T. 0.01 min
Lab File: VX008667.D
Acq: 05 Apr 2019 04:09

Tgt Ion: 91 Resp: 5346
Ion Ratio Lower Upper
91 100
106 27.9 23.7 35.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008667.D

Acq: 05 Apr 2019 04:09

Instrument :

MSVOA_X

ClientSampleId :

ST006RW149-190402

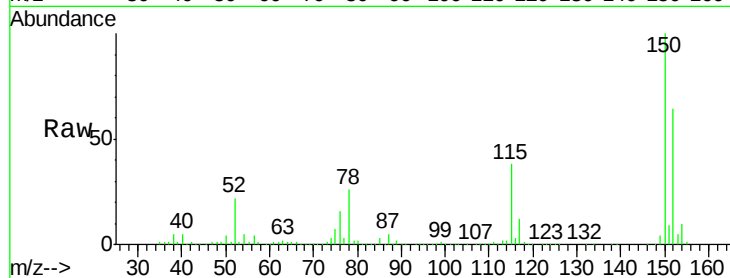
Tot Ion:152 Resp: 128134

Ion Ratio Lower Upper

152 100

115 61.1 43.5 130.5

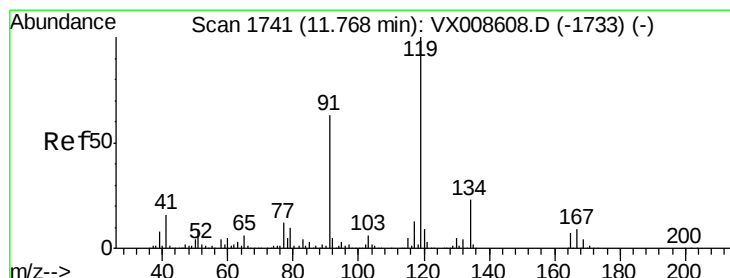
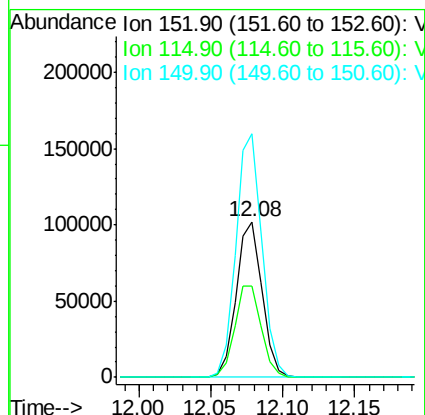
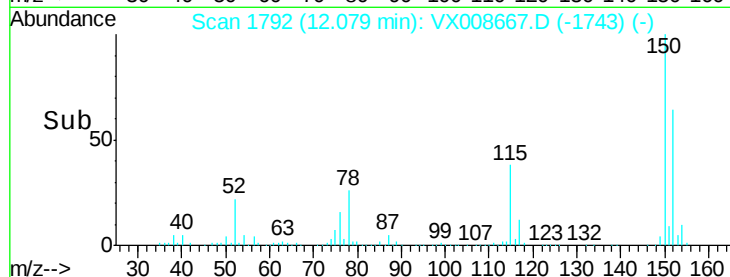
150 157.9 0.0 348.8



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



#83

tert-Butylbenzene

Concen: 1.099 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX008667.D

Acq: 05 Apr 2019 04:09

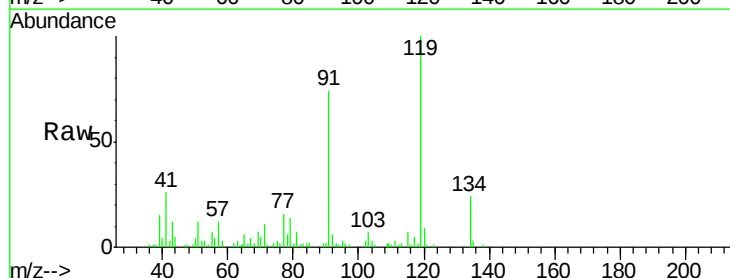
Tgt Ion:119 Resp: 9426

Ion Ratio Lower Upper

119 100

91 72.9 30.0 90.1

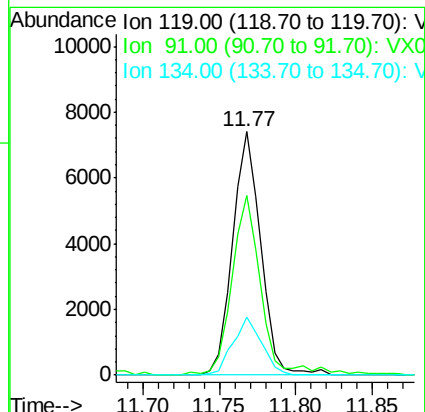
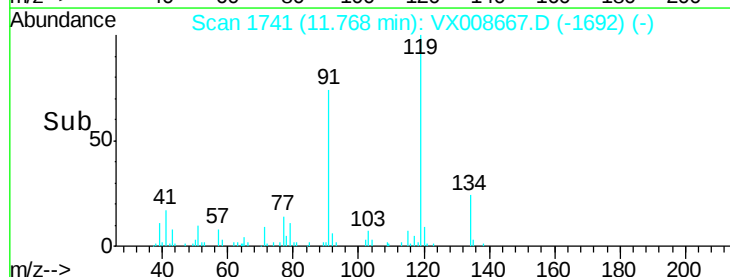
134 24.4 11.1 33.3

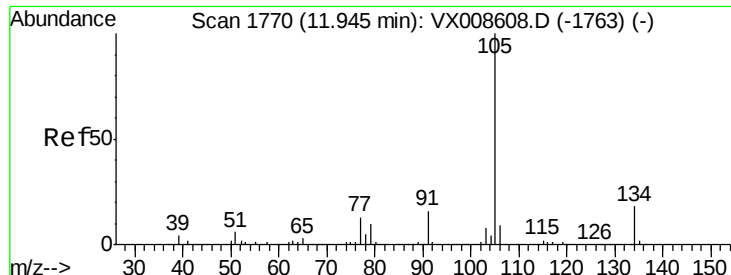


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V





#85

sec-Butylbenzene

Concen: 1.321 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX008667.D

Acq: 05 Apr 2019 04:09

Instrument :

MSVOA_X

ClientSampleId :

ST006RW149-190402

Tot Ion:105 Resp: 13457

Ion Ratio Lower Upper

105 100

134 18.0 9.4 28.2

