

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX061020\
 Data File : VX016680.D
 Acq On : 10 Jun 2020 17:17
 Operator : JC/SP
 Sample : L2963-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF014MW012-200609

Quant Time: Jun 11 03:03:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 16:31:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	219609	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	351556	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	351846	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	181940	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	132152	48.46	ug/l	0.00
Spiked Amount			Recovery	=	96.92%	
35) Dibromofluoromethane	5.47	113	108589	50.16	ug/l	0.00
Spiked Amount			Recovery	=	100.32%	
50) Toluene-d8	8.70	98	433518	51.45	ug/l	0.00
Spiked Amount			Recovery	=	102.90%	
62) 4-Bromofluorobenzene	11.12	95	173098	53.17	ug/l	0.00
Spiked Amount			Recovery	=	106.34%	

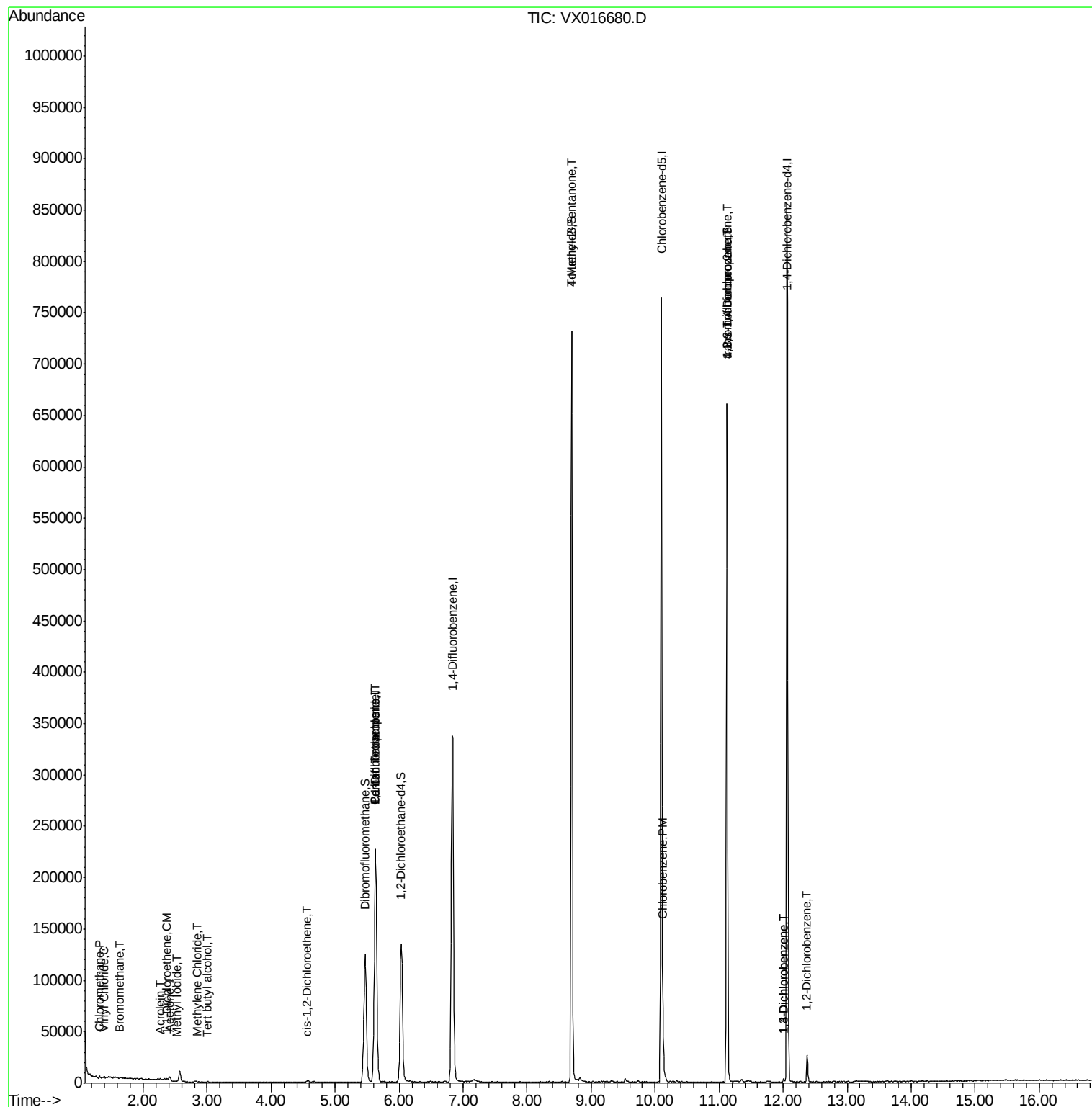
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	815	0.31	ug/l #	73
4) Vinyl Chloride	1.39	62	624	0.23	ug/l	99
5) Bromomethane	1.64	94	290	0.22	ug/l #	42
10) Methyl Iodide	2.51	142	32	3.07	ug/l #	40
11) Tert butyl alcohol	3.01	59	150	0.21	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	484	0.23	ug/l #	18
13) Acrolein	2.28	56	182	0.61	ug/l	87
16) Acetone	2.42	43	2545	2.13	ug/l #	86
20) Methylene Chloride	2.83	84	650	0.26	ug/l #	87
27) cis-1,2-Dichloroethene	4.56	96	1153	0.43	ug/l	76
36) 1,1-Dichloropropene	5.62	75	15119	4.54	ug/l #	52
38) Carbon Tetrachloride	5.63	117	20701	5.92	ug/l #	16
51) 4-Methyl-2-Pentanone	8.69	43	2052	0.53	ug/l #	1
65) Chlorobenzene	10.12	112	22480	3.13	ug/l	98
76) 1,2,3-Trichloropropane	11.12	75	84072	21.02	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	84072	51.71	ug/l #	14
87) 1,3-Dichlorobenzene	12.01	146	1261	0.22	ug/l	89
88) 1,4-Dichlorobenzene	12.01	146	1261	0.22	ug/l	89
91) 1,2-Dichlorobenzene	12.38	146	9057	1.63	ug/l	97

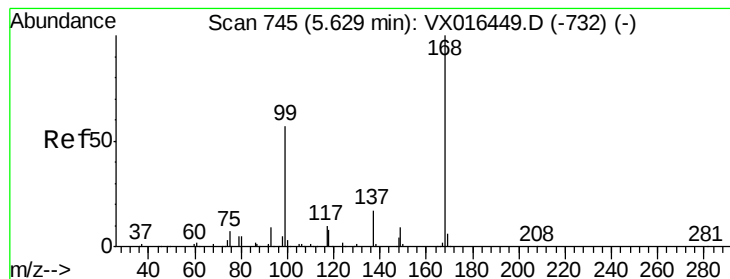
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX061020\
Data File : VX016680.D
Acq On : 10 Jun 2020 17:17
Operator : JC/SP
Sample : L2963-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
LF014MW012-200609

Quant Time: Jun 11 03:03:01 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
Quant Title : SW846 8260
QLast Update : Wed May 27 16:31:05 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX016680.D

Acq: 10 Jun 2020 17:17

Instrument :

MSVOA_X

ClientSampleId :

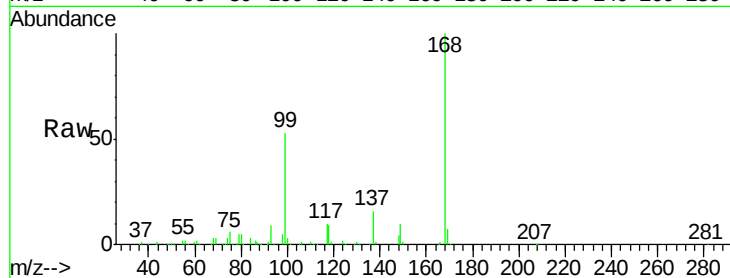
LF014MW012-200609

Tgt Ion:168 Resp: 219609

Ion Ratio Lower Upper

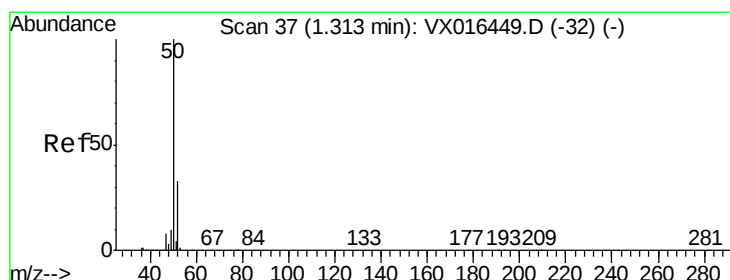
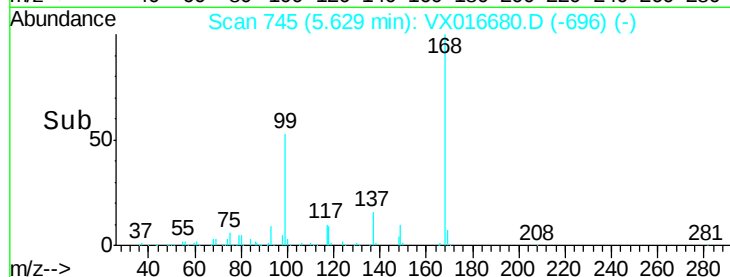
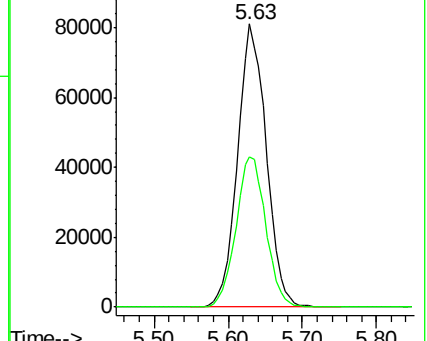
168 100

99 53.1 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.31 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX016680.D

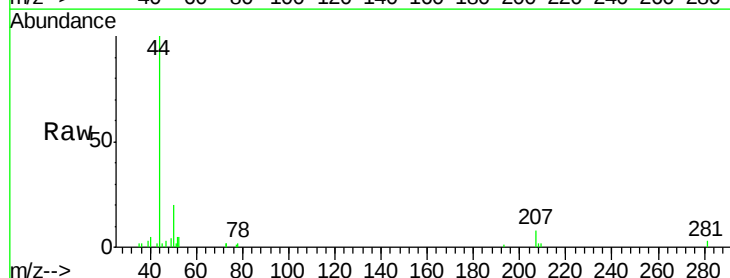
Acq: 10 Jun 2020 17:17

Tgt Ion: 50 Resp: 815

Ion Ratio Lower Upper

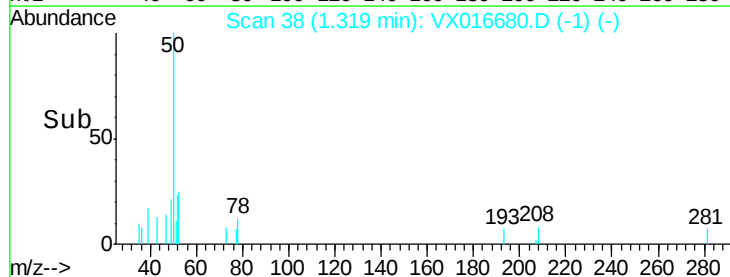
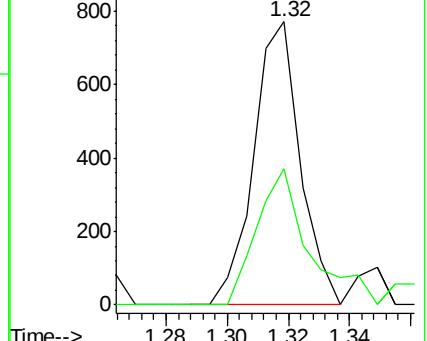
50 100

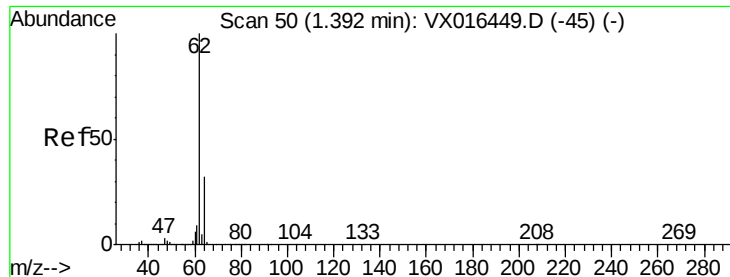
52 48.0 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 0.23 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX016680.D

Acq: 10 Jun 2020 17:17

Instrument :

MSVOA_X

ClientSampleId :

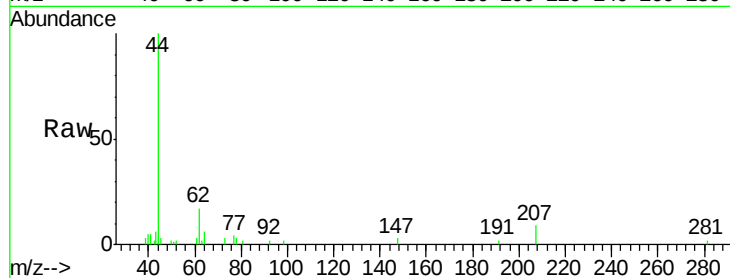
LF014MW012-200609

Tgt Ion: 62 Resp: 624

Ion Ratio Lower Upper

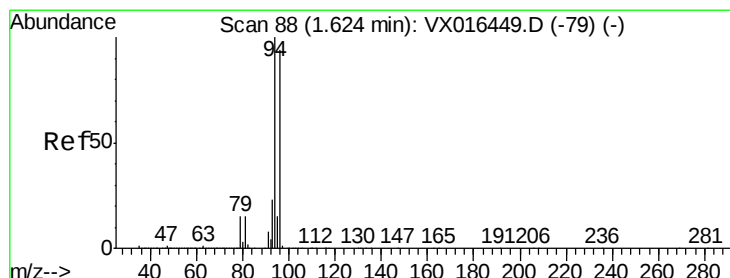
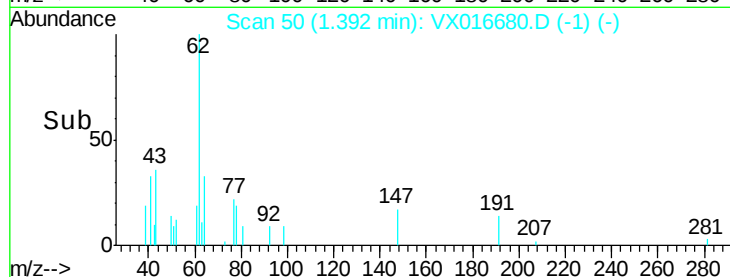
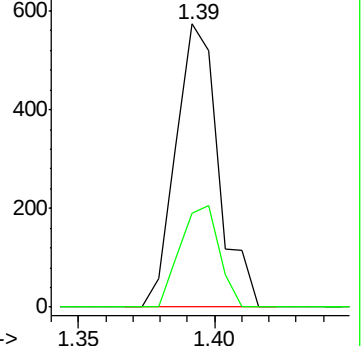
62 100

64 33.2 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.22 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016680.D

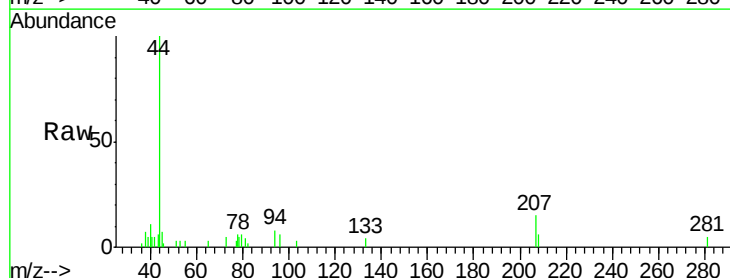
Acq: 10 Jun 2020 17:17

Tgt Ion: 94 Resp: 290

Ion Ratio Lower Upper

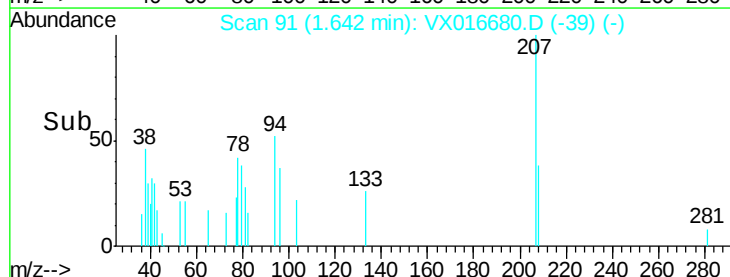
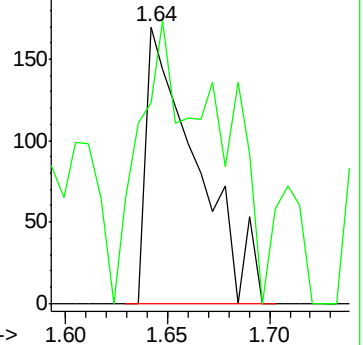
94 100

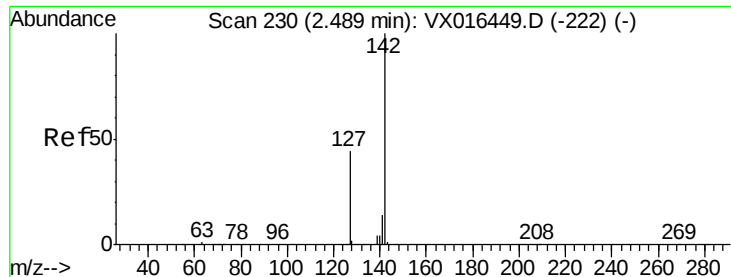
96 38.2 75.1 112.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#10

Methyl Iodide

Concen: 3.07 ug/l

RT: 2.51 min Scan# 234

Delta R.T. 0.02 min

Lab File: VX016680.D

Acq: 10 Jun 2020 17:17

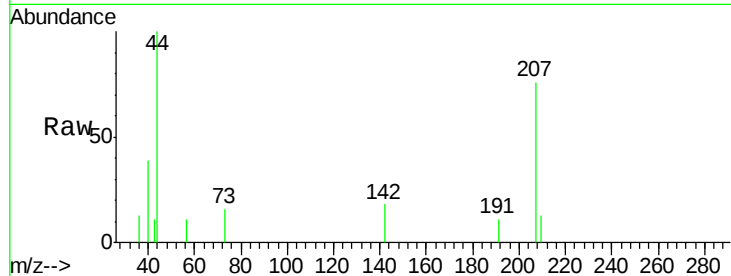
Instrument :

MSVOA_X

ClientSampleId :

LF014MW012-200609

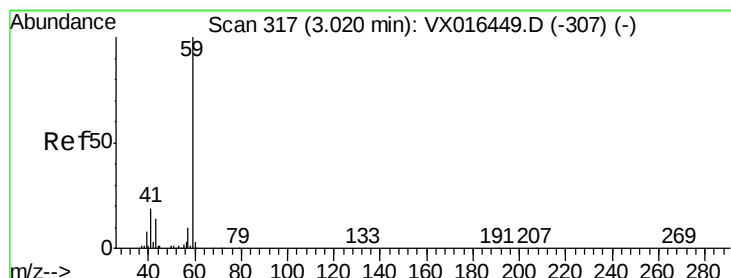
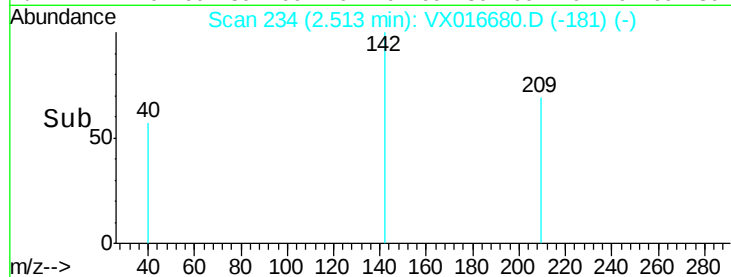
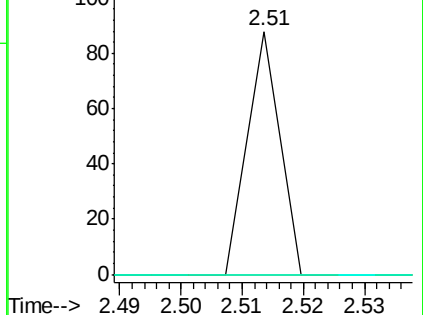
Tgt Ion:	142	Resp:	32
Ion	Ratio	Lower	Upper
142	100		
127	0.0	35.3	52.9#
141	0.0	11.4	17.2#



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: 0.21 ug/l

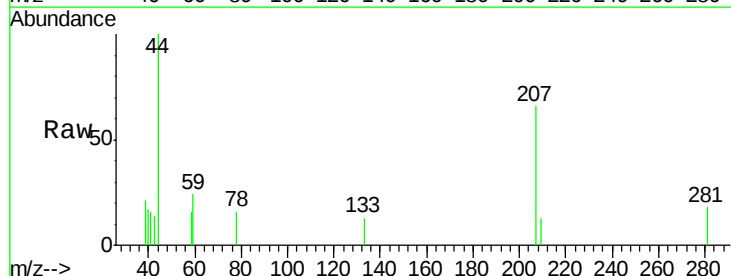
RT: 3.01 min Scan# 316

Delta R.T. -0.01 min

Lab File: VX016680.D

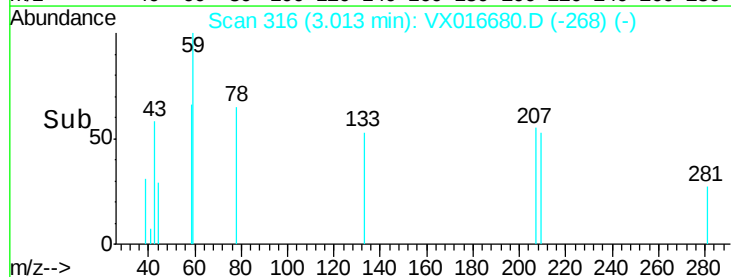
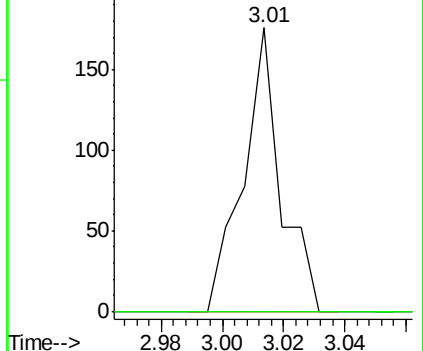
Acq: 10 Jun 2020 17:17

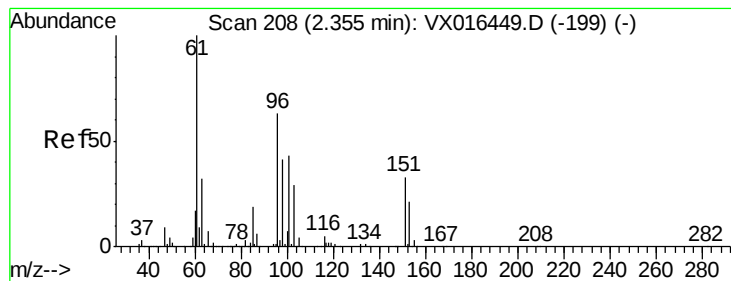
Tgt Ion:	59	Resp:	150
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.23 ug/l

RT: 2.37 min Scan# 210

Delta R.T. 0.01 min

Lab File: VX016680.D

Acq: 10 Jun 2020 17:17

Instrument :

MSVOA_X

ClientSampleId :

LF014MW012-200609

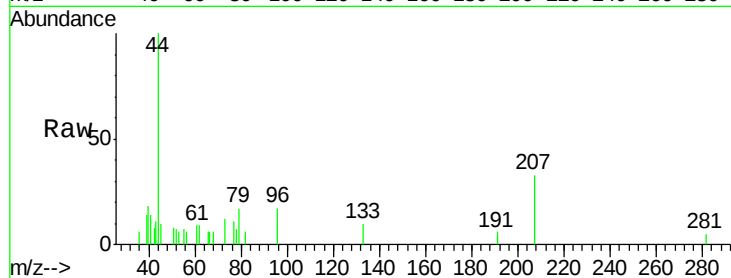
Tgt Ion: 96 Resp: 484

Ion Ratio Lower Upper

96 100

61 49.7 126.6 189.8#

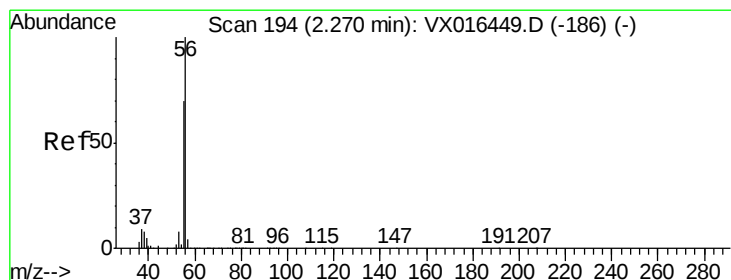
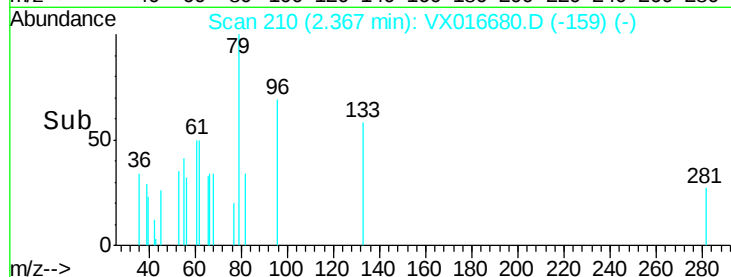
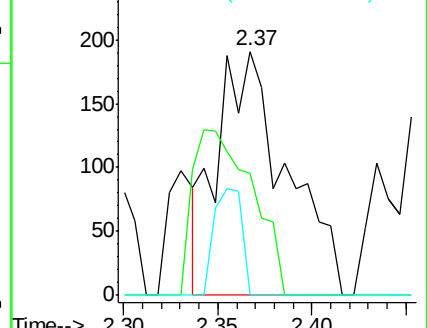
98 0.0 51.3 76.9#



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



#13

Acrolein

Concen: 0.61 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX016680.D

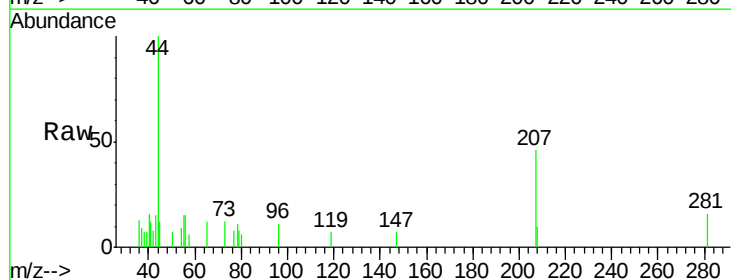
Acq: 10 Jun 2020 17:17

Tgt Ion: 56 Resp: 182

Ion Ratio Lower Upper

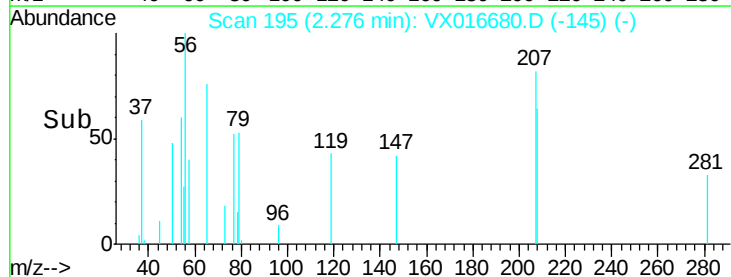
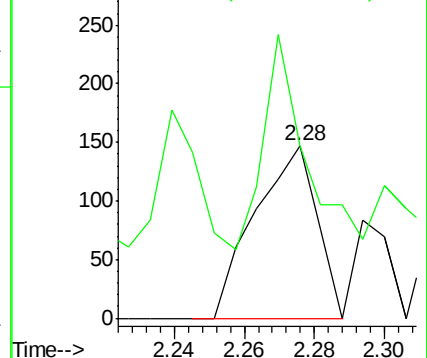
56 100

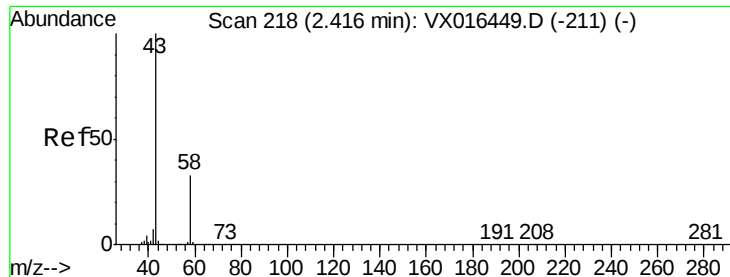
55 83.5 58.3 87.5



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 2.13 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX016680.D

Acq: 10 Jun 2020 17:17

Instrument :

MSVOA_X

ClientSampleId :

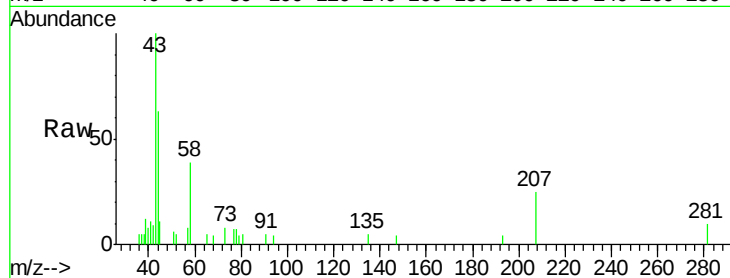
LF014MW012-200609

Tgt Ion: 43 Resp: 2545

Ion Ratio Lower Upper

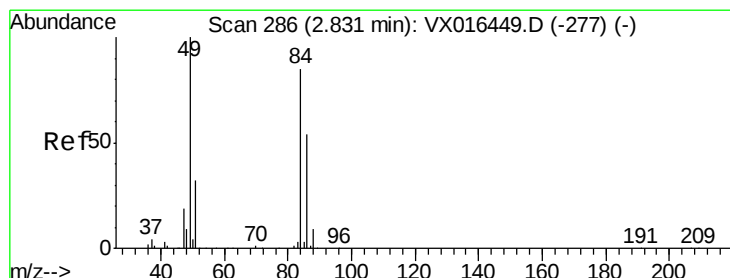
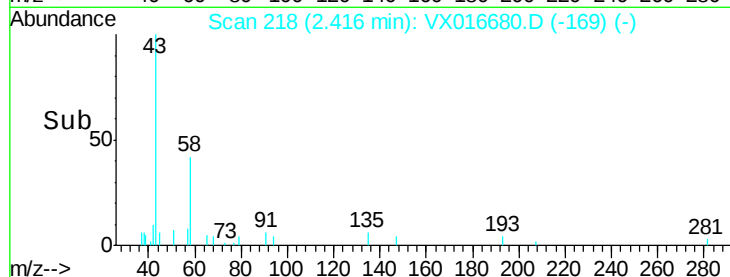
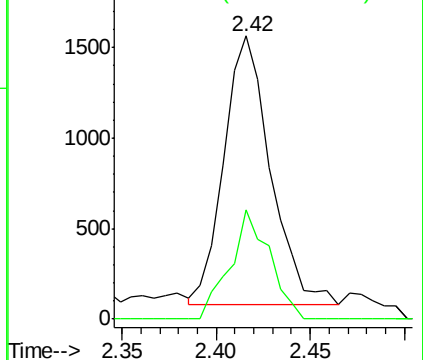
43 100

58 40.7 26.1 39.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: 0.26 ug/l

RT: 2.83 min Scan# 286

Delta R.T. -0.00 min

Lab File: VX016680.D

Acq: 10 Jun 2020 17:17

Tgt Ion: 84 Resp: 650

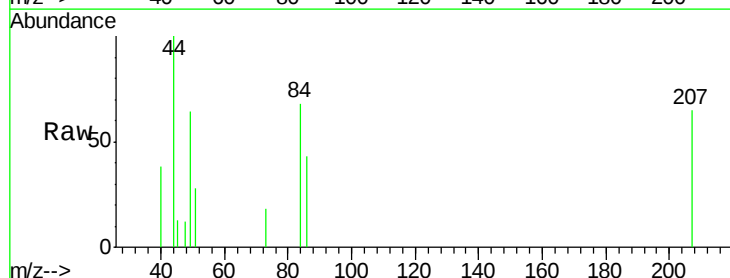
Ion Ratio Lower Upper

84 100

49 94.1 94.5 141.7#

51 40.9 30.2 45.4

86 63.7 51.1 76.7

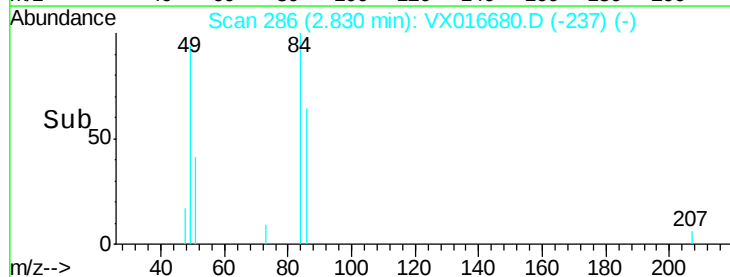
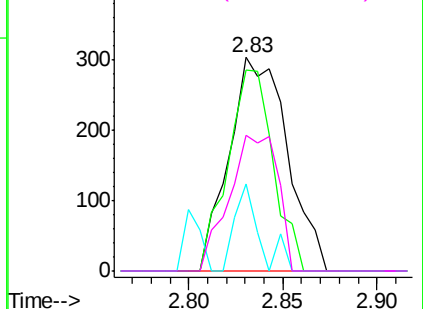


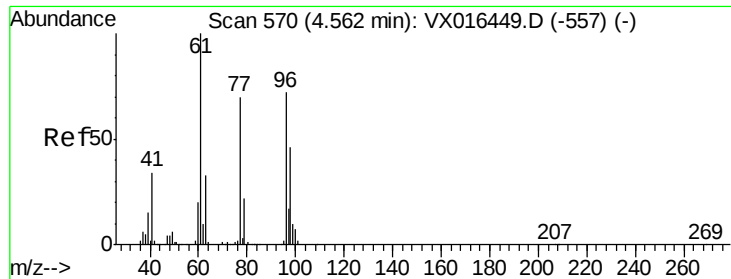
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#27

cis-1,2-Dichloroethene

Concen: 0.43 ug/l

RT: 4.56 min Scan# 569

Delta R.T. -0.01 min

Lab File: VX016680.D

Acq: 10 Jun 2020 17:17

Instrument :

MSVOA_X

ClientSampleId :

LF014MW012-200609

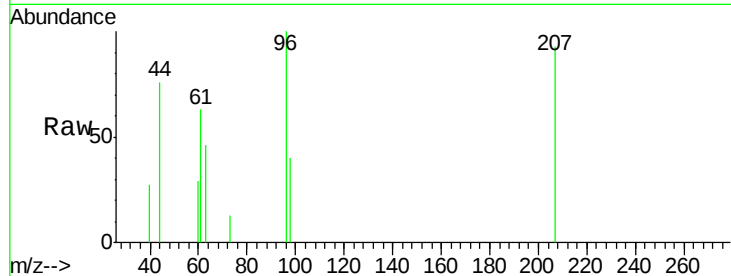
Tgt Ion: 96 Resp: 1153

Ion Ratio Lower Upper

96 100

61 105.2 0.0 284.6

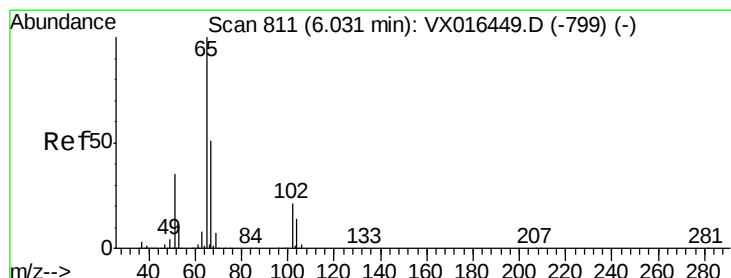
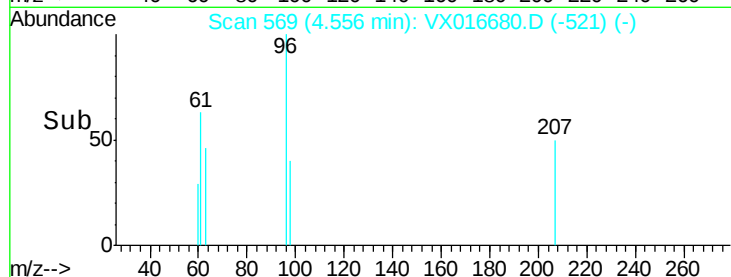
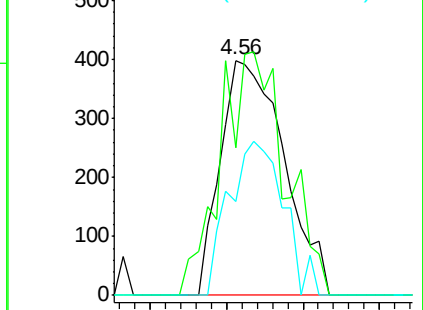
98 56.5 0.0 127.2



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



#33

1,2-Dichloroethane-d4

Concen: 48.46 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016680.D

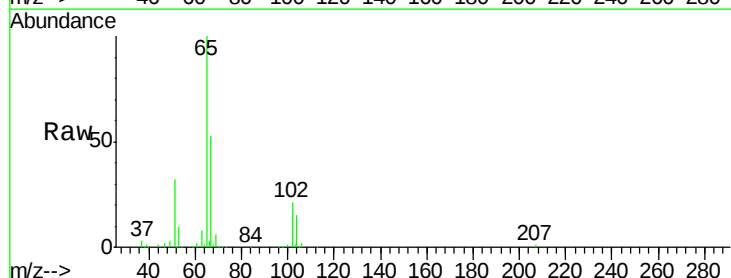
Acq: 10 Jun 2020 17:17

Tgt Ion: 65 Resp: 132152

Ion Ratio Lower Upper

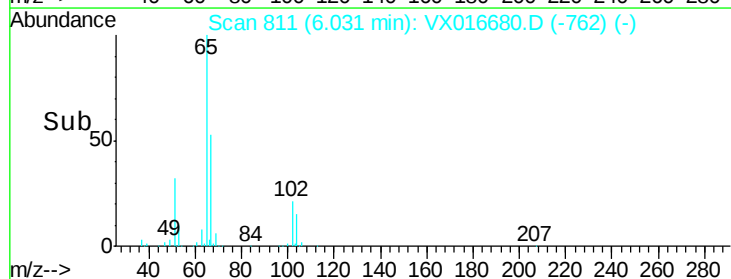
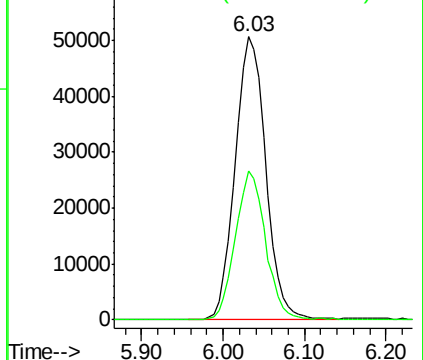
65 100

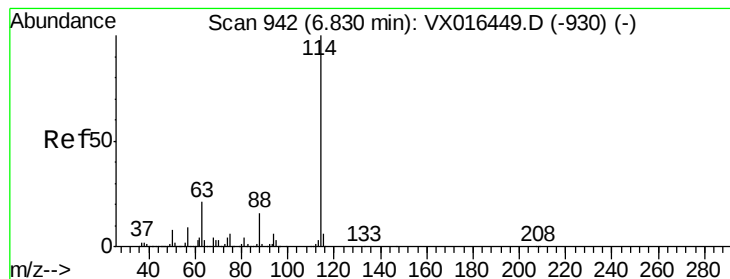
67 51.8 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX016680.D

Acq: 10 Jun 2020 17:17

Instrument :

MSVOA_X

ClientSampleId :

LF014MW012-200609

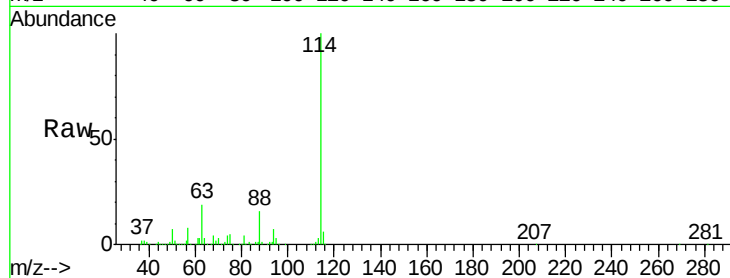
Tgt Ion:114 Resp: 351556

Ion Ratio Lower Upper

114 100

63 19.5 0.0 42.6

88 16.3 0.0 32.8



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

200000

150000

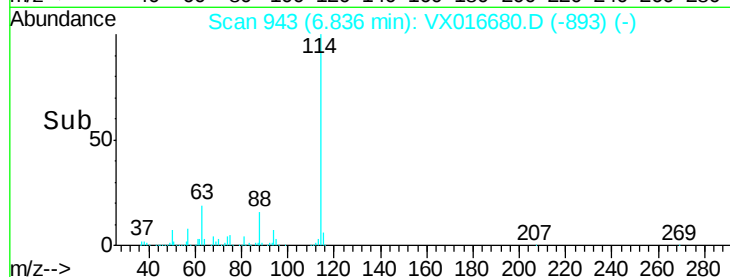
100000

50000

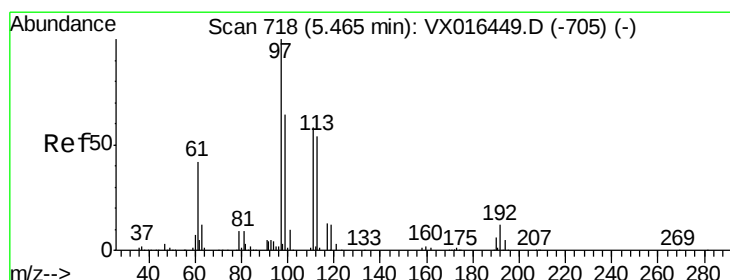
0

6.84

6.80 6.84 6.90



Time-->



#35

Dibromofluoromethane

Concen: 50.16 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX016680.D

Acq: 10 Jun 2020 17:17

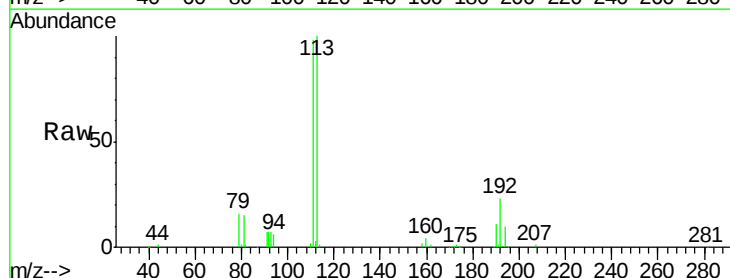
Tgt Ion:113 Resp: 108589

Ion Ratio Lower Upper

113 100

111 101.3 83.0 124.6

192 23.0 17.7 26.5



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

50000

40000

30000

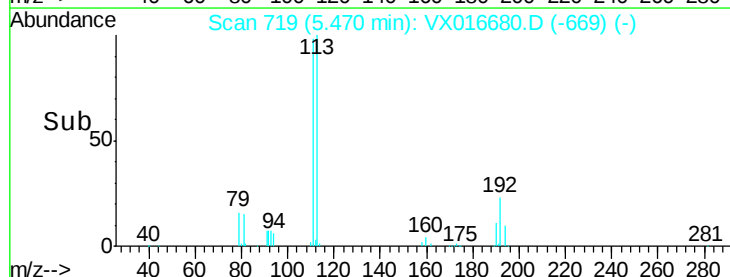
20000

10000

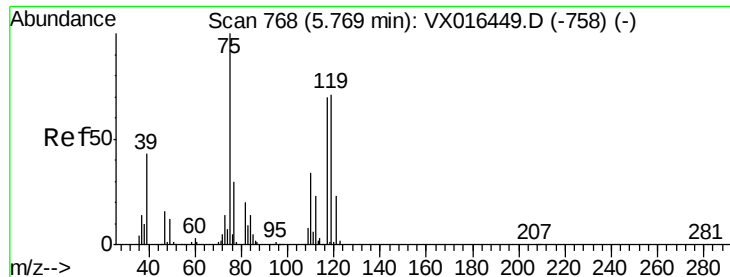
0

5.47

5.30 5.40 5.50 5.60



Time-->



#36

1,1-Dichloropropene

Concen: 4.54 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.15 min

Lab File: VX016680.D

Acq: 10 Jun 2020 17:17

Instrument :

MSVOA_X

ClientSampleId :

LF014MW012-200609

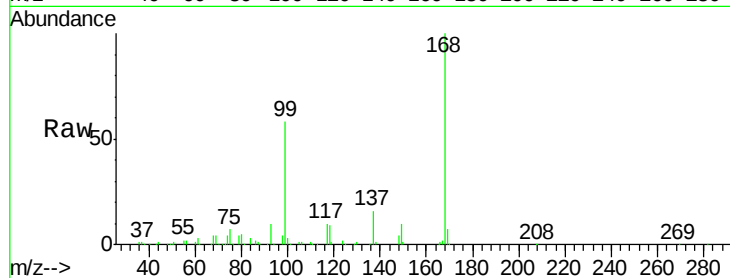
Tgt Ion: 75 Resp: 15119

Ion Ratio Lower Upper

75 100

110 10.4 17.4 52.3#

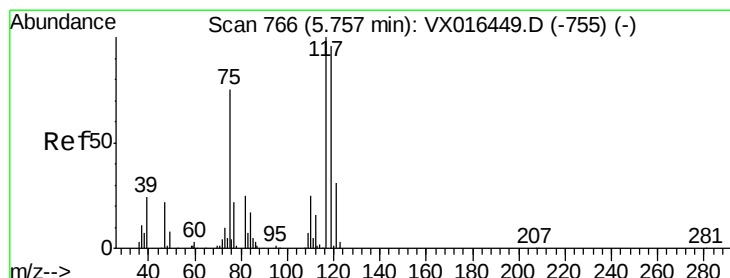
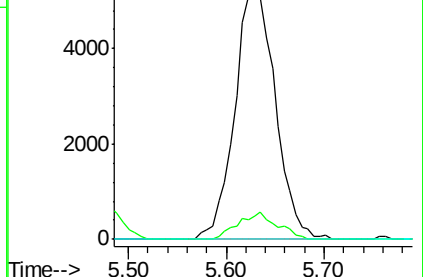
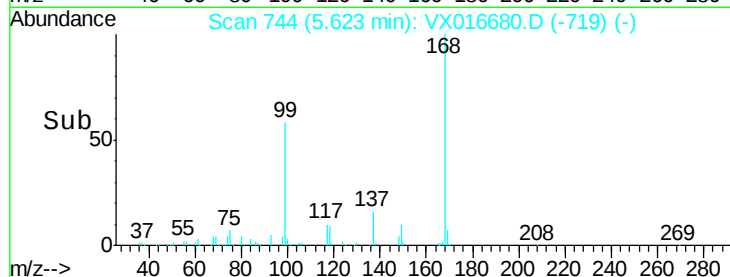
77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VX016680.D (-719) (-)

Ion 109.90 (109.60 to 110.60): VX016680.D (-719) (-)

Ion 76.90 (76.60 to 77.60): VX016680.D (-719) (-)



#38

Carbon Tetrachloride

Concen: 5.92 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016680.D

Acq: 10 Jun 2020 17:17

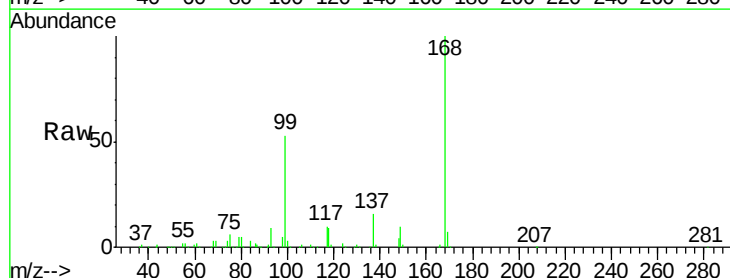
Tgt Ion: 117 Resp: 20701

Ion Ratio Lower Upper

117 100

119 5.0 76.3 114.5#

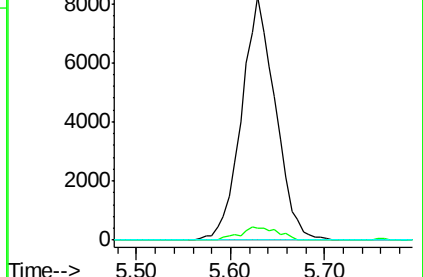
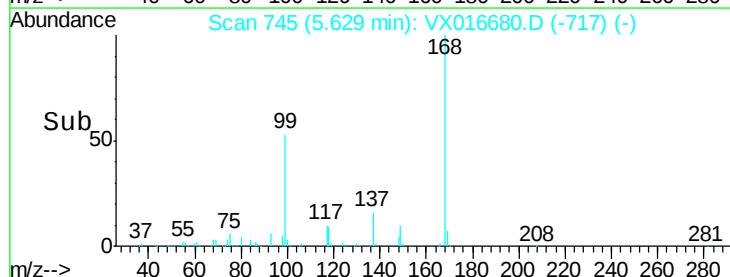
121 0.0 24.6 37.0#

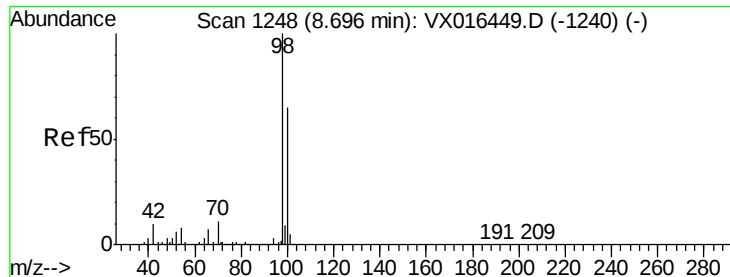


Abundance Ion 116.80 (116.50 to 117.50): VX016680.D (-717) (-)

Ion 118.80 (118.50 to 119.50): VX016680.D (-717) (-)

Ion 120.80 (120.50 to 121.50): VX016680.D (-717) (-)





#50

Toluene-d8

Concen: 51.45 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016680.D

Acq: 10 Jun 2020 17:17

Instrument :

MSVOA_X

ClientSampleId :

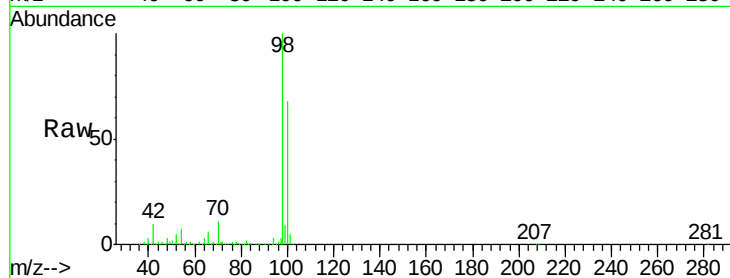
LF014MW012-200609

Tgt Ion: 98 Resp: 433518

Ion Ratio Lower Upper

98 100

100 66.7 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.70

300000

250000

200000

150000

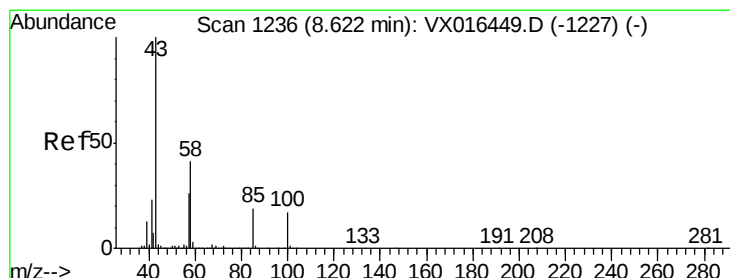
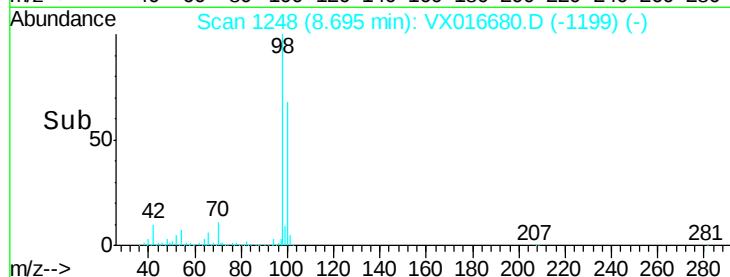
100000

50000

0

Time-->

8.60 8.70 8.80



#51

4-Methyl-2-Pentanone

Concen: 0.53 ug/l

RT: 8.69 min Scan# 1247

Delta R.T. 0.07 min

Lab File: VX016680.D

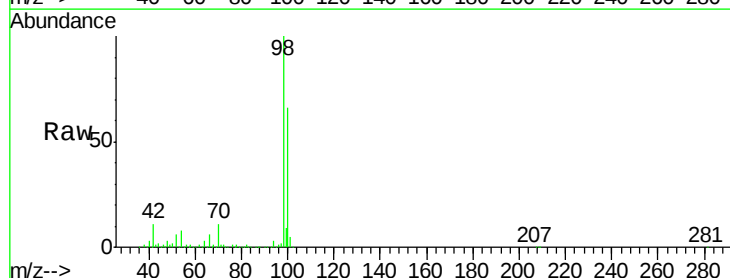
Acq: 10 Jun 2020 17:17

Tgt Ion: 43 Resp: 2052

Ion Ratio Lower Upper

43 100

58 164.1 33.0 49.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

3000

2500

2000

1500

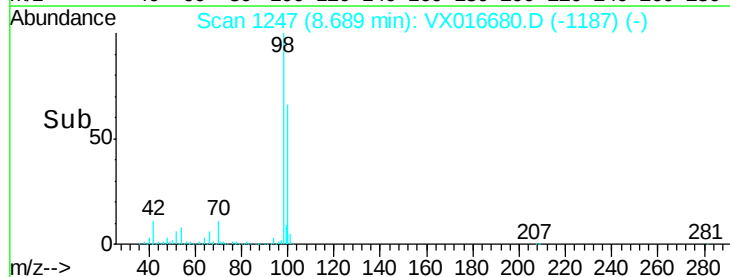
1000

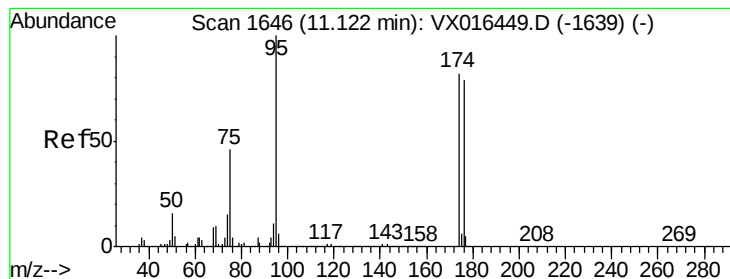
500

0

Time-->

8.60 8.65 8.70 8.75





#62

4-Bromofluorobenzene

Concen: 53.17 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016680.D

Acq: 10 Jun 2020 17:17

Instrument :

MSVOA_X

ClientSampleId :

LF014MW012-200609

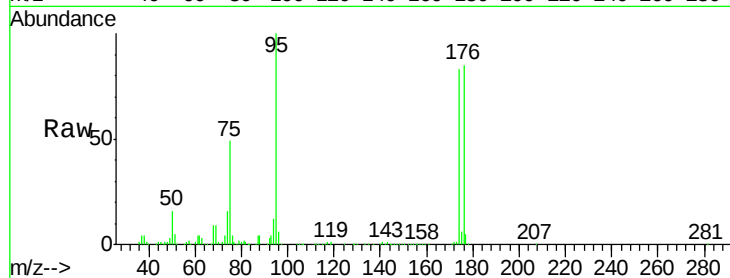
Tgt Ion: 95 Resp: 173098

Ion Ratio Lower Upper

95 100

174 86.5 0.0 163.0

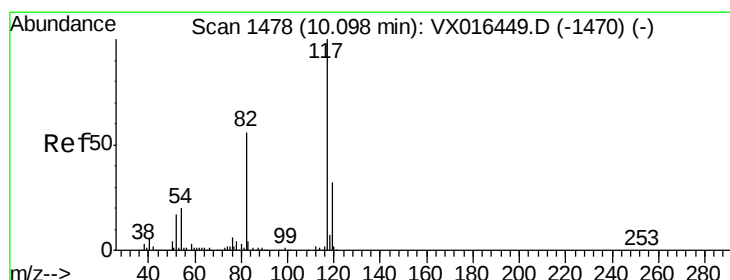
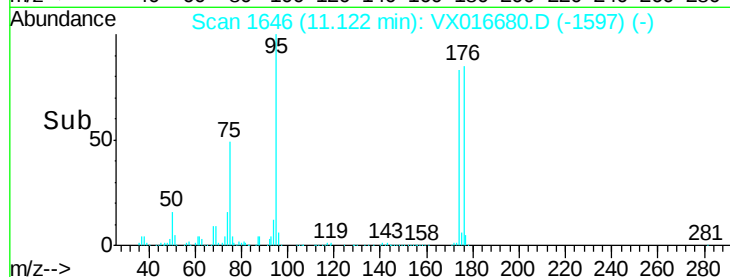
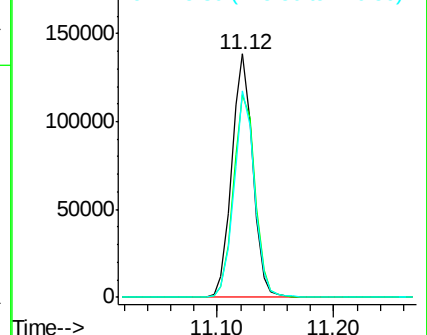
176 83.2 0.0 156.8



Abundance Ion 94.90 (94.60 to 95.60): VX016449.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX016449.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX016449.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016680.D

Acq: 10 Jun 2020 17:17

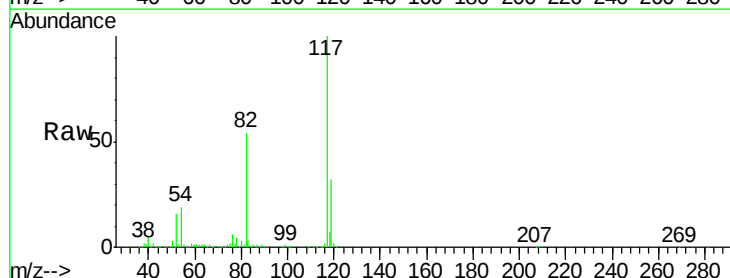
Tgt Ion: 117 Resp: 351846

Ion Ratio Lower Upper

117 100

82 54.4 45.0 67.6

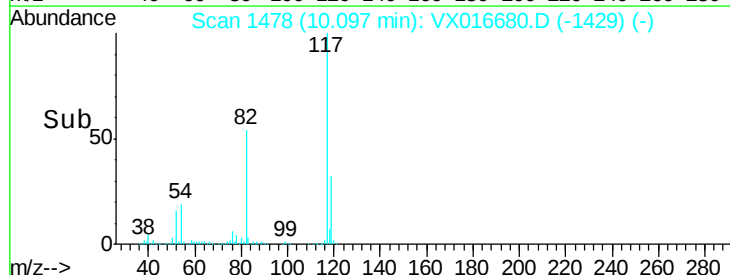
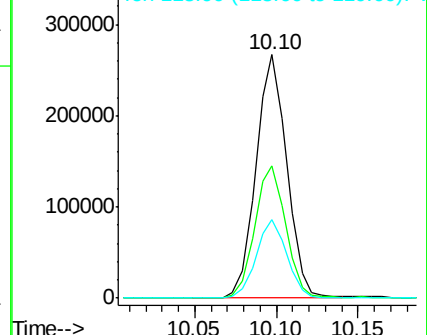
119 32.4 25.8 38.8

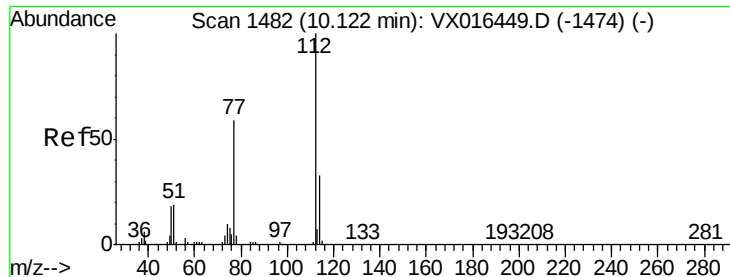


Abundance Ion 116.90 (116.60 to 117.60): VX016449.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX016449.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX016449.D (-1470) (-)





#65

Chlorobenzene

Concen: 3.13 ug/l

RT: 10.12 min Scan# 1482

Delta R.T. -0.00 min

Lab File: VX016680.D

Acq: 10 Jun 2020 17:17

Instrument :

MSVOA_X

ClientSampleId :

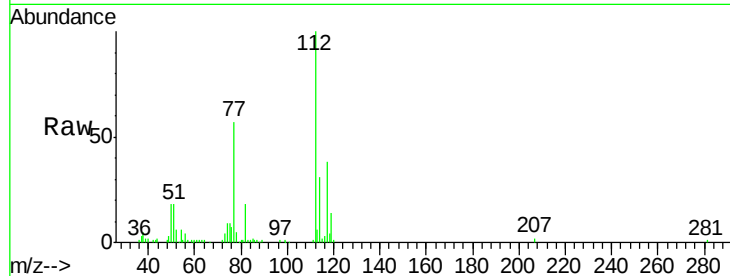
LF014MW012-200609

Tgt Ion:112 Resp: 22480

Ion Ratio Lower Upper

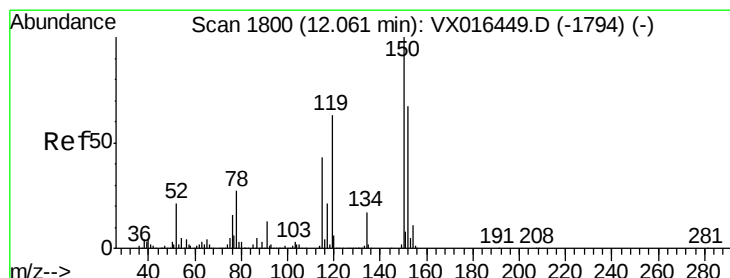
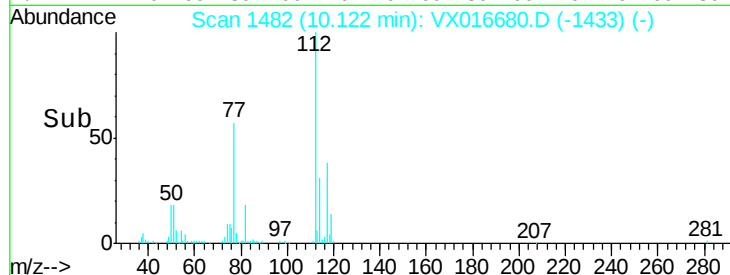
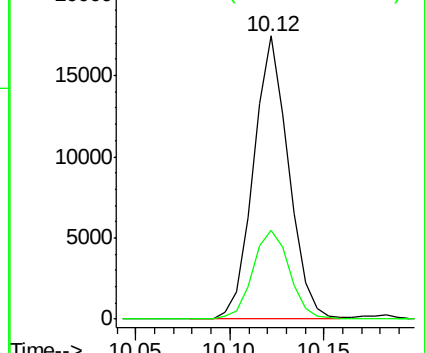
112 100

114 31.3 26.0 39.0



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX016680.D

Acq: 10 Jun 2020 17:17

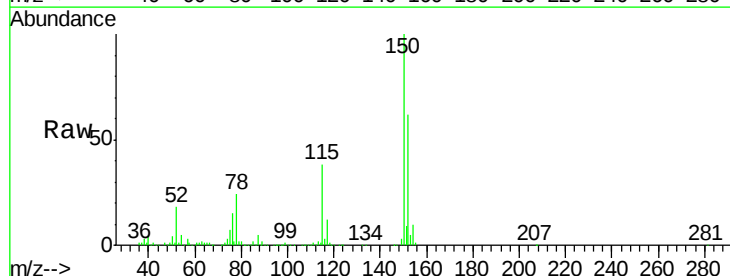
Tgt Ion:152 Resp: 181940

Ion Ratio Lower Upper

152 100

115 57.8 39.9 119.6

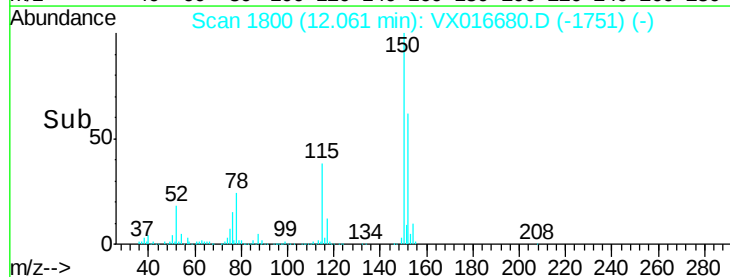
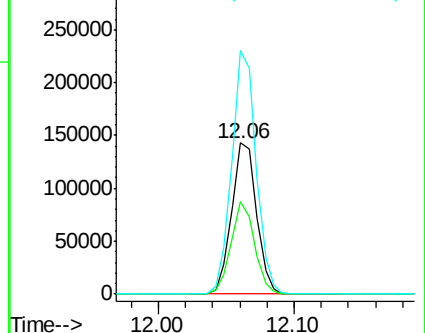
150 157.3 0.0 341.0

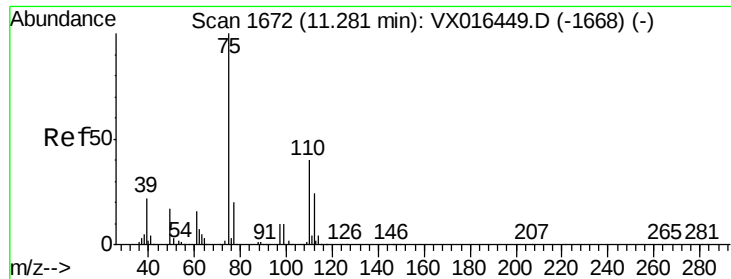


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.02 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016680.D

Acq: 10 Jun 2020 17:17

Instrument :

MSVOA_X

ClientSampleId :

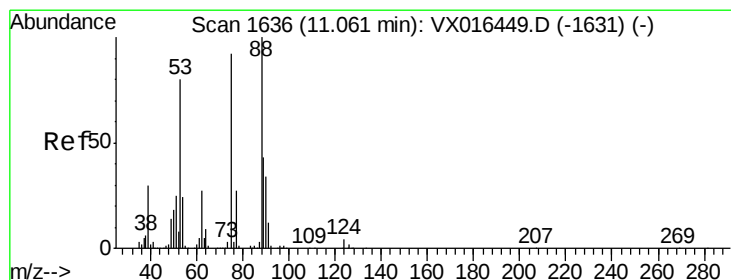
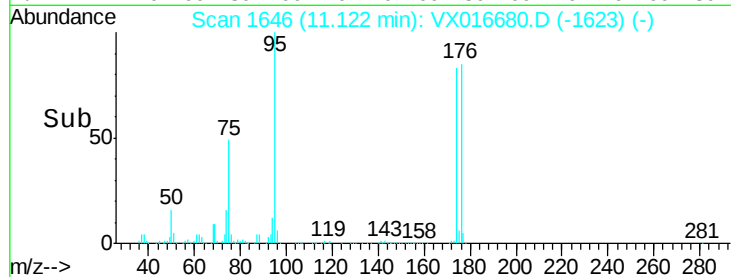
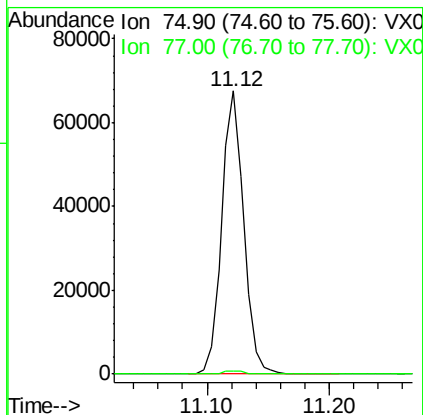
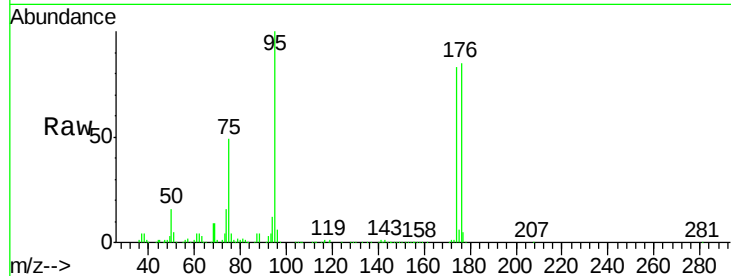
LF014MW012-200609

Tgt Ion: 75 Resp: 84072

Ion Ratio Lower Upper

75 100

77 1.3 21.3 63.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 51.71 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016680.D

Acq: 10 Jun 2020 17:17

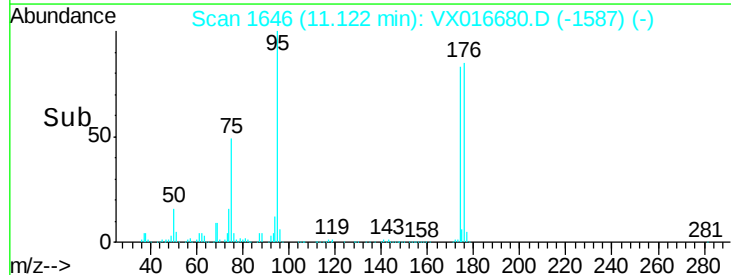
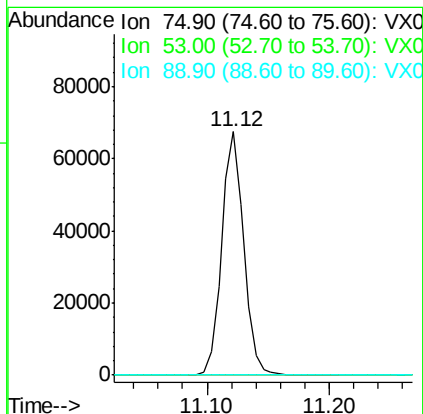
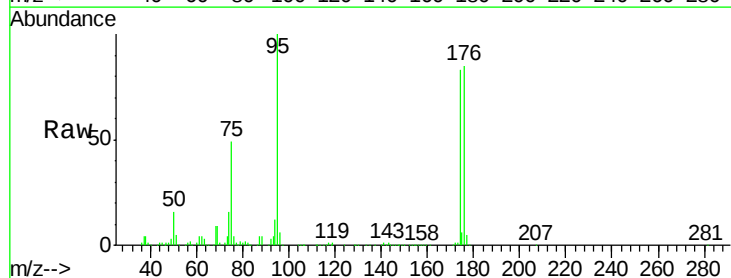
Tgt Ion: 75 Resp: 84072

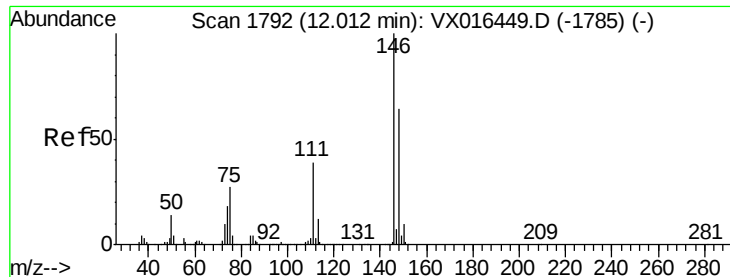
Ion Ratio Lower Upper

75 100

53 0.1 71.3 106.9#

89 0.0 36.6 55.0#

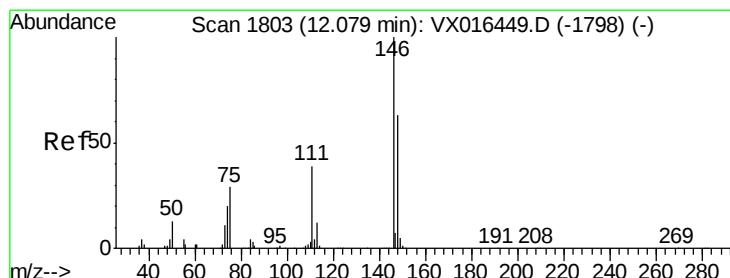
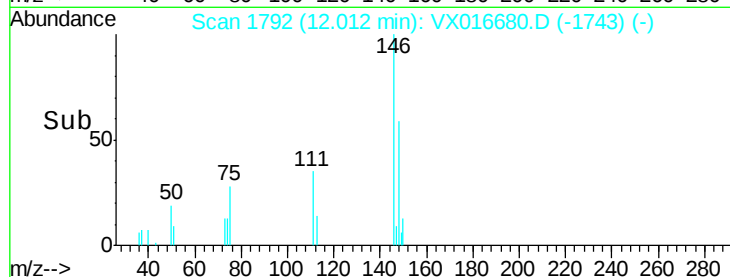
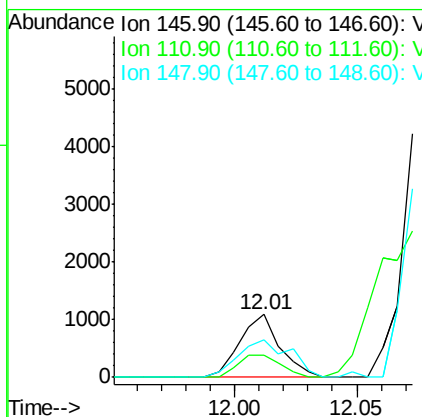
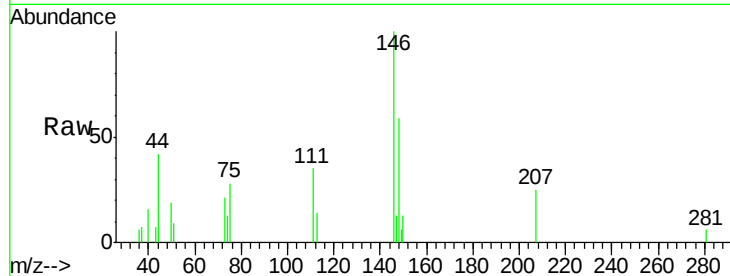




#87
 1,3-Dichlorobenzene
 Concen: 0.22 ug/l
 RT: 12.01 min Scan# 1792
 Delta R.T. -0.00 min
 Lab File: VX016680.D
 Acq: 10 Jun 2020 17:17

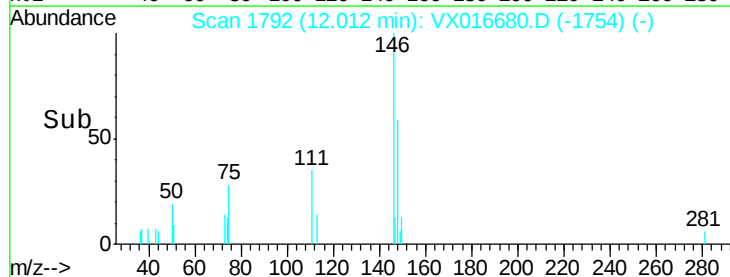
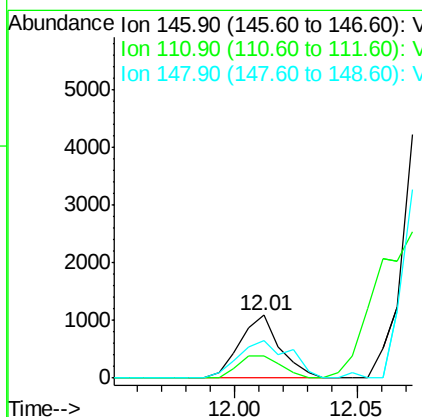
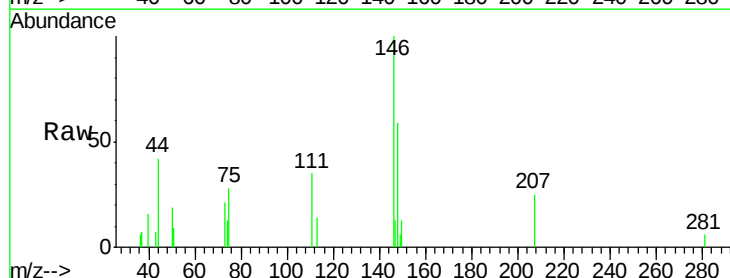
Instrument :
 MSVOA_X
 ClientSampleId :
 LF014MW012-200609

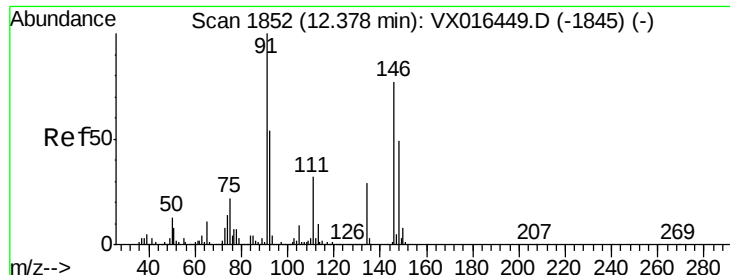
Tgt Ion:146 Resp: 1261
 Ion Ratio Lower Upper
 146 100
 111 37.6 20.0 60.0
 148 75.3 31.9 95.5



#88
 1,4-Dichlorobenzene
 Concen: 0.22 ug/l
 RT: 12.01 min Scan# 1792
 Delta R.T. -0.07 min
 Lab File: VX016680.D
 Acq: 10 Jun 2020 17:17

Tgt Ion:146 Resp: 1261
 Ion Ratio Lower Upper
 146 100
 111 37.6 19.4 58.2
 148 75.3 31.4 94.3





#91

1,2-Dichlorobenzene

Concen: 1.63 ug/l

RT: 12.38 min Scan# 1852

Delta R.T. -0.00 min

Lab File: VX016680.D

Acq: 10 Jun 2020 17:17

Instrument :

MSVOA_X

ClientSampleId :

LF014MW012-200609

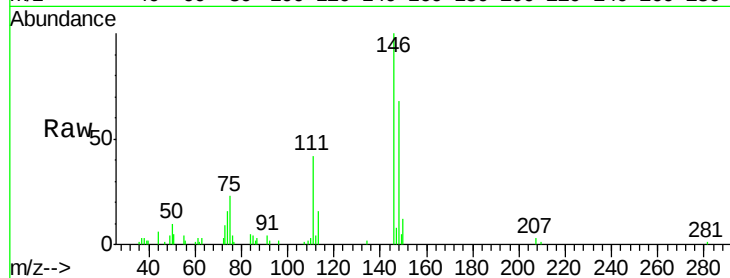
Tgt Ion:146 Resp: 9057

Ion Ratio Lower Upper

146 100

111 44.9 21.4 64.3

148 66.6 31.9 95.7



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

