

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052919\
 Data File : VX009934.D
 Acq On : 29 May 2019 12:56
 Operator : JC/SP
 Sample : K3038-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012OW009-190523

Quant Time: May 30 01:13:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	170944	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	274292	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	246225	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	107359	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	117941	48.84	ug/l	0.00
Spiked Amount			Recovery	=	97.68%	
35) Dibromofluoromethane	5.50	113	85701	49.70	ug/l	0.00
Spiked Amount			Recovery	=	99.40%	
50) Toluene-d8	8.71	98	351231	50.16	ug/l	0.00
Spiked Amount			Recovery	=	100.32%	
62) 4-Bromofluorobenzene	11.13	95	116548	46.34	ug/l	0.00
Spiked Amount			Recovery	=	92.68%	

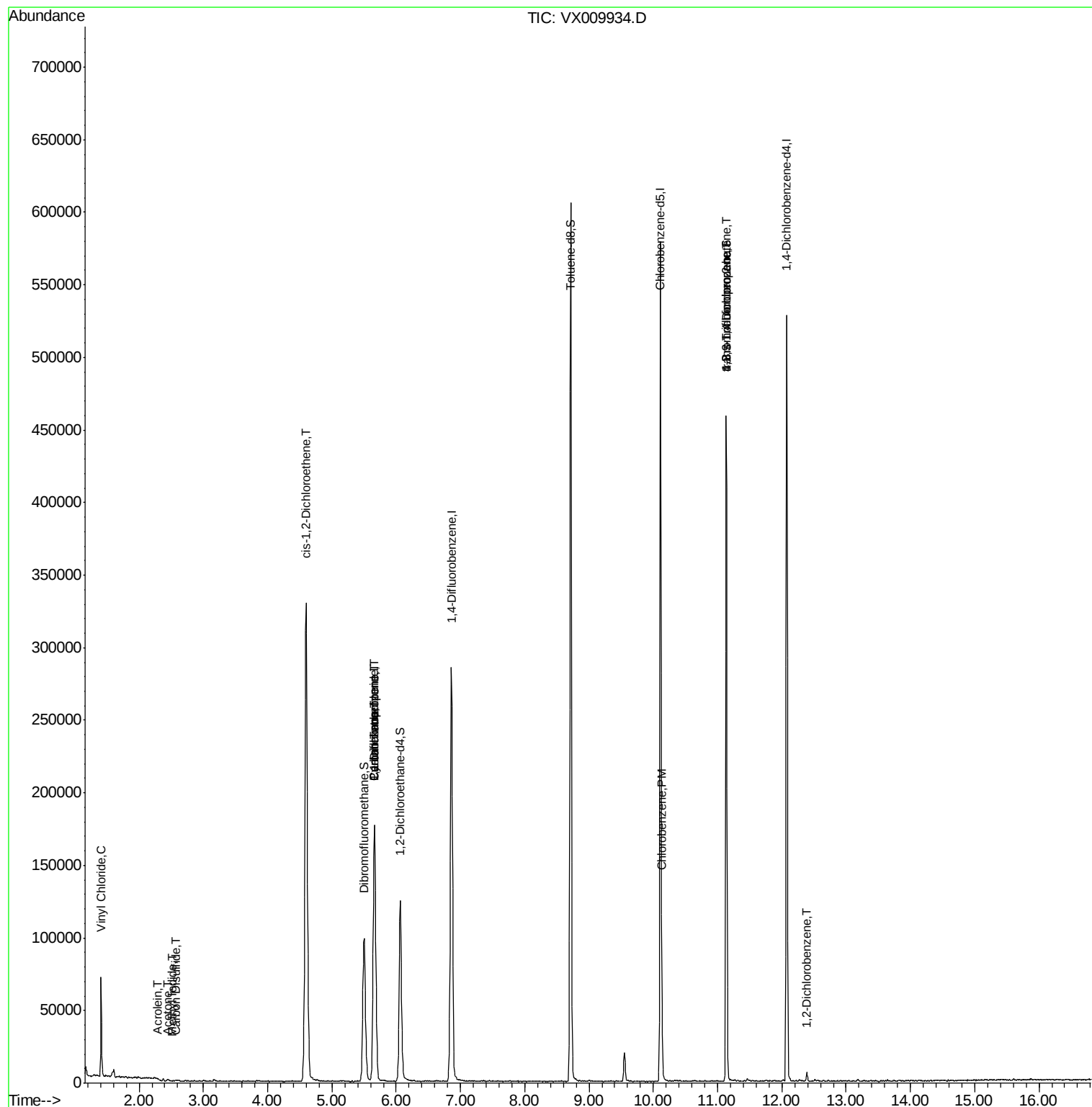
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	45109	17.819	ug/l	100
10) Methyl Iodide	2.51	142	20	4.665	ug/l #	42
13) Acrolein	2.29	56	197	21.525	ug/l #	46
16) Acetone	2.44	43	1229	0.881	ug/l	95
17) Carbon Disulfide	2.57	76	530	0.485	ug/l #	82
27) cis-1,2-Dichloroethene	4.60	96	198245	89.158	ug/l	90
31) Cyclohexane	5.66	56	4221	1.149	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13641	4.902	ug/l #	52
38) Carbon Tetrachloride	5.67	117	16000	6.653	ug/l #	16
65) Chlorobenzene	10.13	112	10839	2.103	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	61255	23.860	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61255	59.033	ug/l #	10
91) 1,2-Dichlorobenzene	12.39	146	1652	0.466	ug/l	94

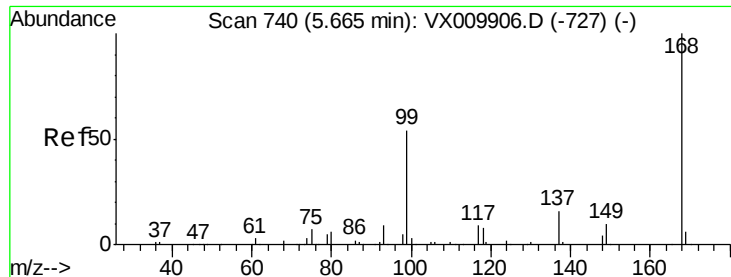
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
Quant Title : SW846 8260
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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: VX009934.D

Acq: 29 May 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

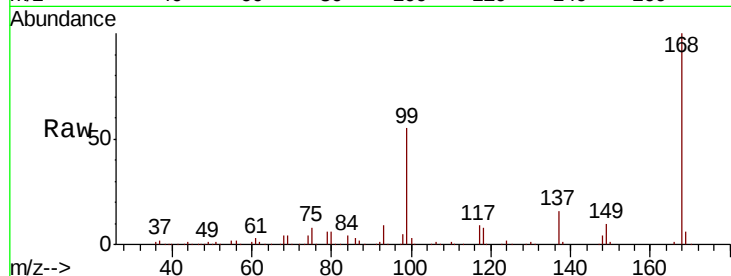
LF012OW009-190523

Tot Ion:168 Resp: 170944

Ion Ratio Lower Upper

168 100

99 54.9 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

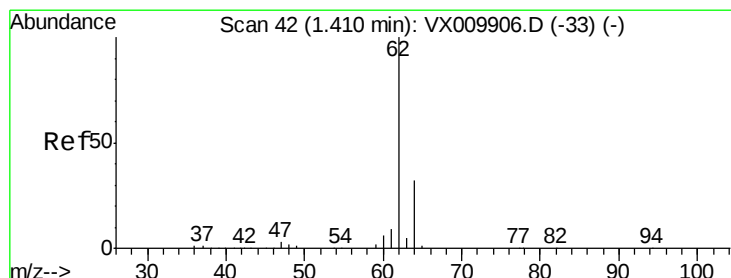
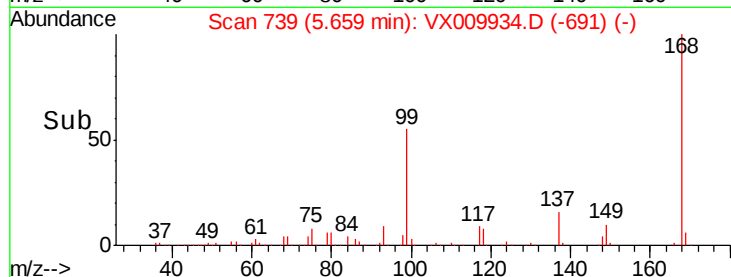
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 17.819 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX009934.D

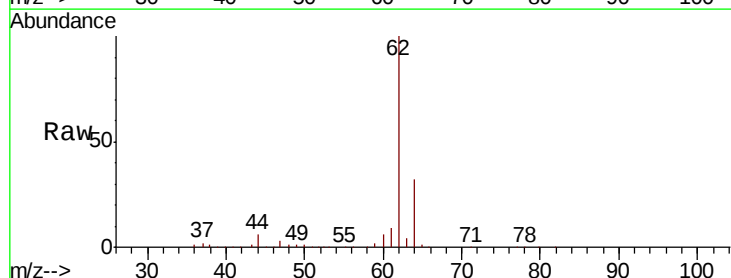
Acq: 29 May 2019 12:56

Tgt Ion: 62 Resp: 45109

Ion Ratio Lower Upper

62 100

64 32.1 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

50000

40000

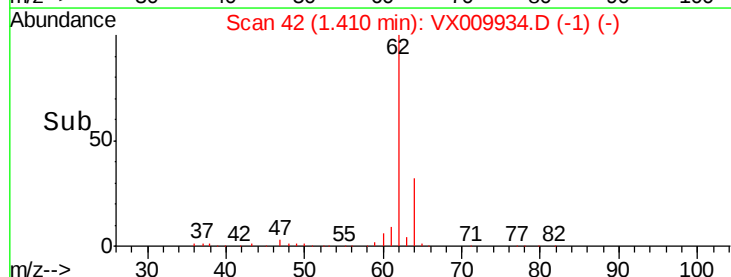
30000

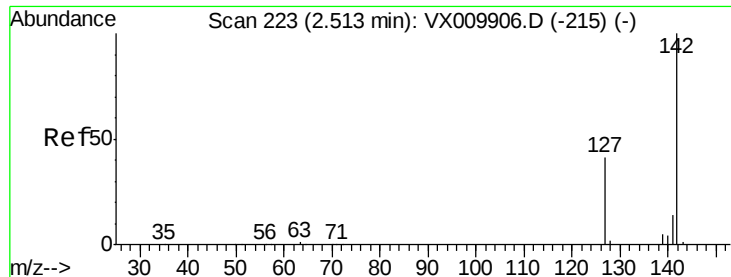
20000

10000

0

Time--> 1.35 1.40 1.45 1.50

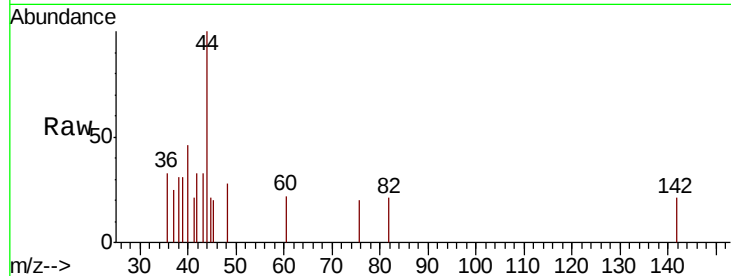




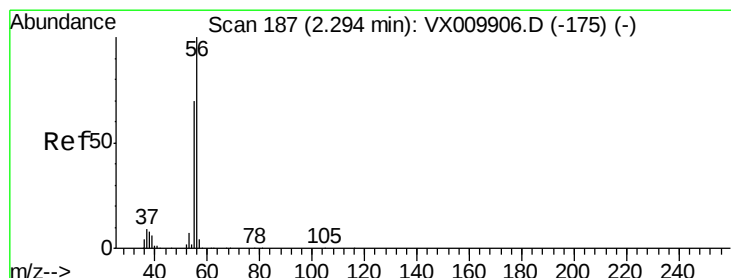
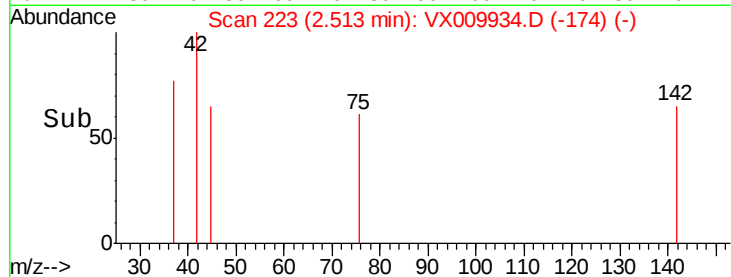
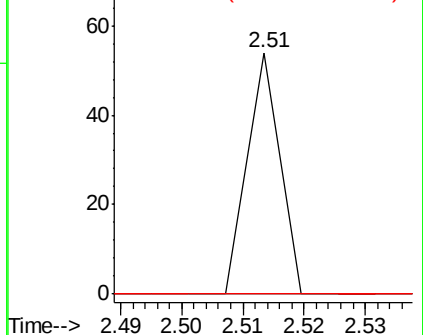
#10
Methvl Iodide
Concen: 4.665 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.00 min
Lab File: VX009934.D
Acq: 29 May 2019 12:56

Instrument :
MSVOA_X
ClientSampleId :
LF012OW009-190523

Tot Ion:142 Resp: 20
Ion Ratio Lower Upper
142 100
127 0.0 33.0 49.4#
141 0.0 11.4 17.0#

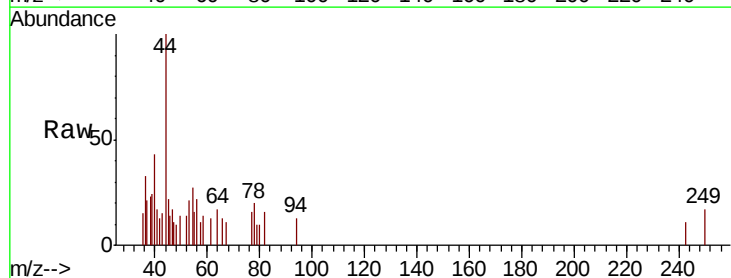


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

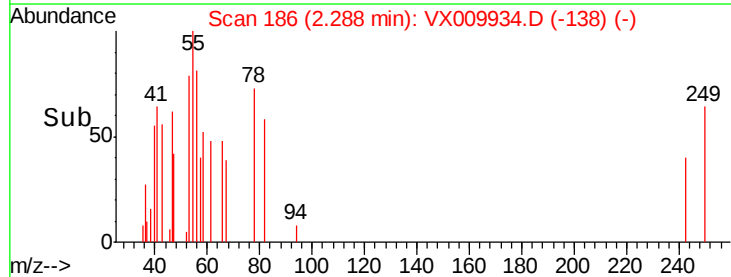
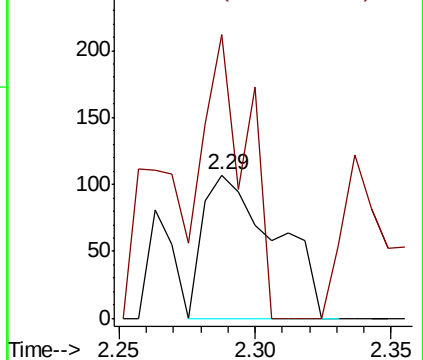


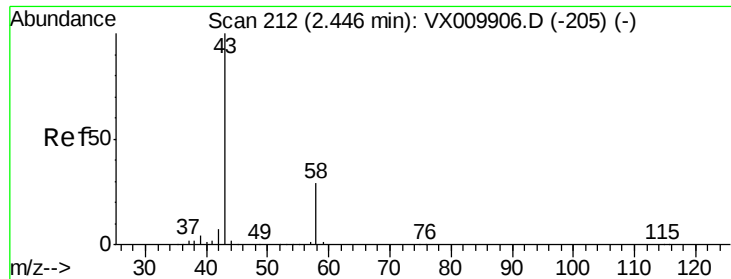
#13
Acrolein
Concen: 21.525 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX009934.D
Acq: 29 May 2019 12:56

Tgt Ion: 56 Resp: 197
Ion Ratio Lower Upper
56 100
55 116.2 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 0.881 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009934.D

Acq: 29 May 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

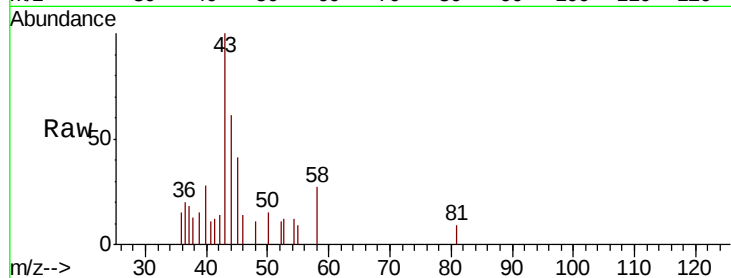
LF012OW009-190523

Tot Ion: 43 Resp: 1229

Ion Ratio Lower Upper

43 100

58 26.6 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

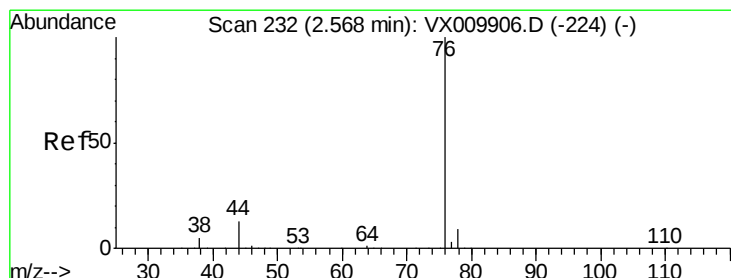
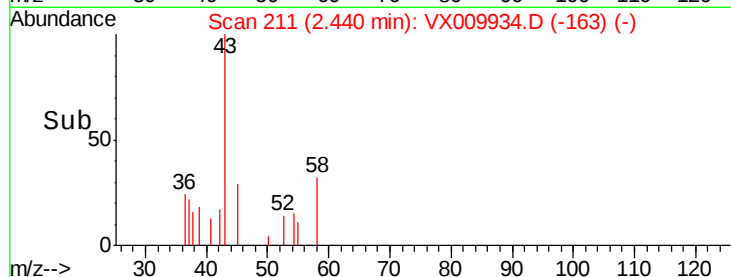
600

400

200

0

Time-->



#17

Carbon Disulfide

Concen: 0.485 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009934.D

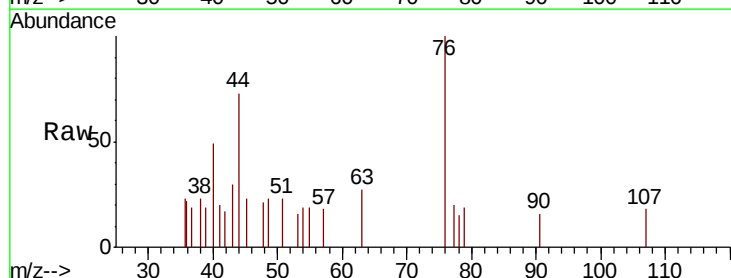
Acq: 29 May 2019 12:56

Tgt Ion: 76 Resp: 530

Ion Ratio Lower Upper

76 100

78 15.2 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

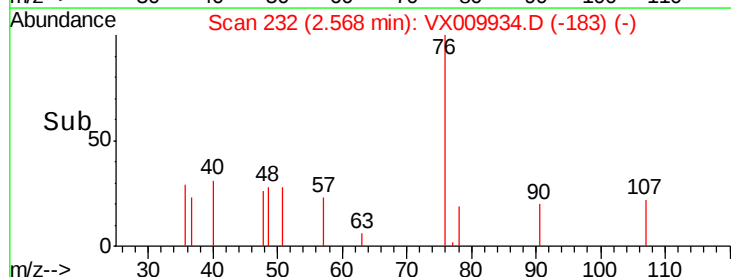
300

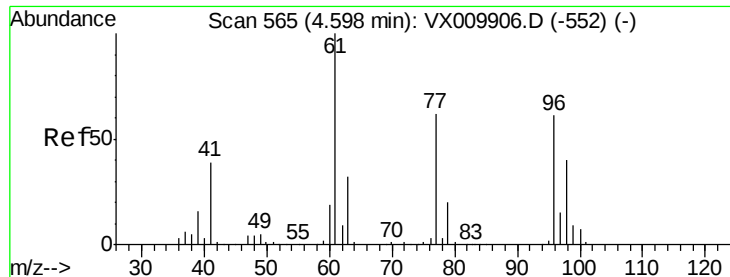
200

100

0

Time-->



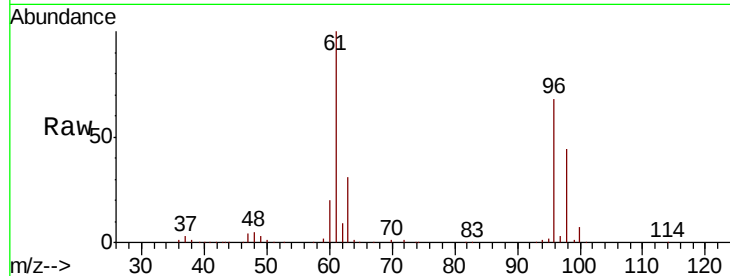


#27

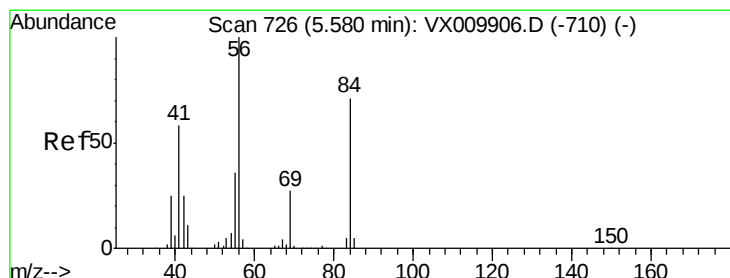
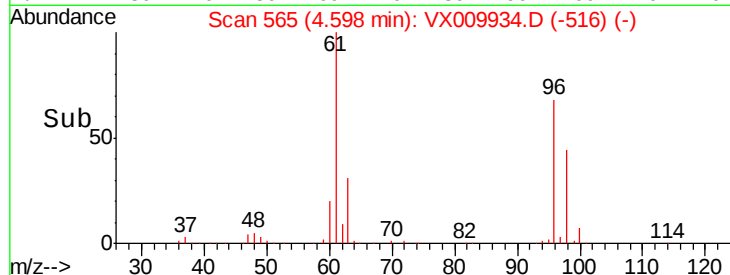
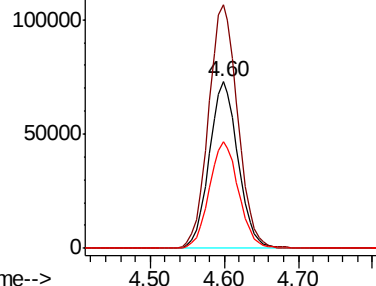
cis-1,2-Dichloroethene
 Concen: 89.158 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.00 min
 Lab File: VX009934.D
 Acq: 29 May 2019 12:56

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012OW009-190523

Tot Ion	Ratio	Lower	Upper
96	100		
61	148.3	0.0	334.0
98	64.7	0.0	131.6



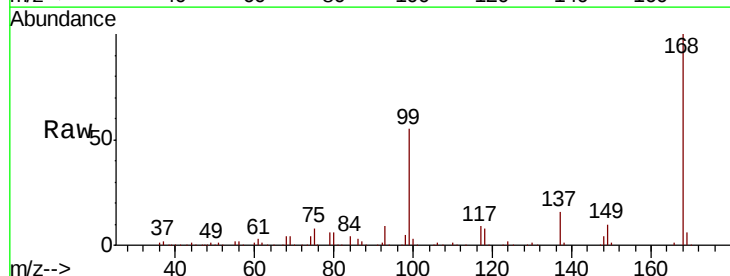
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



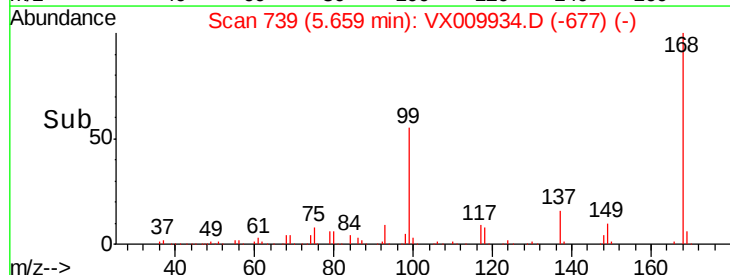
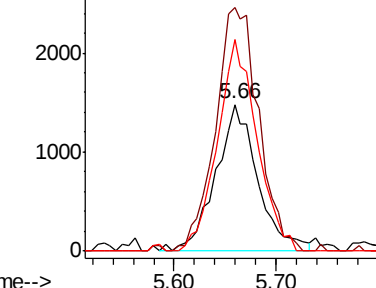
#31

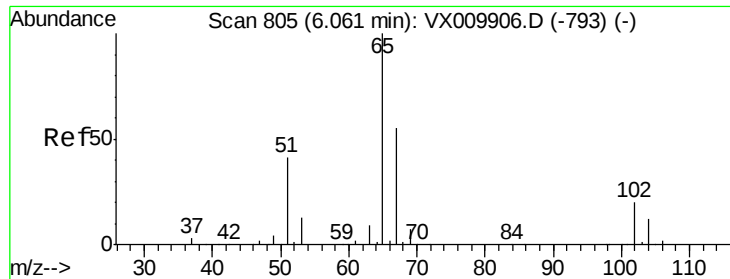
Cyclohexane
 Concen: 1.149 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. 0.08 min
 Lab File: VX009934.D
 Acq: 29 May 2019 12:56

Tgt Ion	Ratio	Lower	Upper
56	100		
69	165.9	21.6	32.4#
84	144.4	56.8	85.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0
 Ion 69.00 (68.70 to 69.70): VX0
 Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.842 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009934.D

Acq: 29 May 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

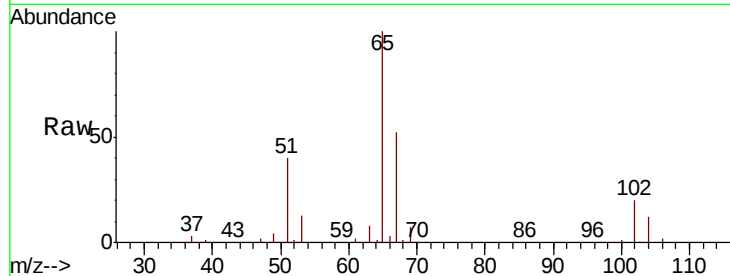
LF012OW009-190523

Tot Ion: 65 Resp: 117941

Ion Ratio Lower Upper

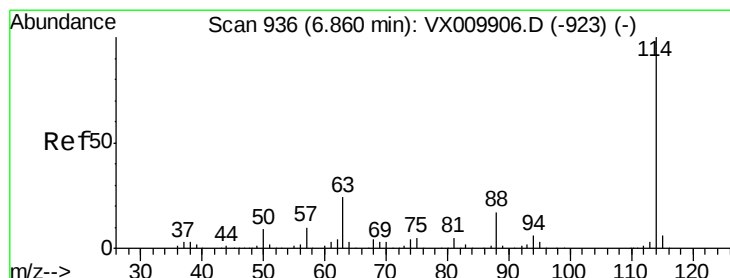
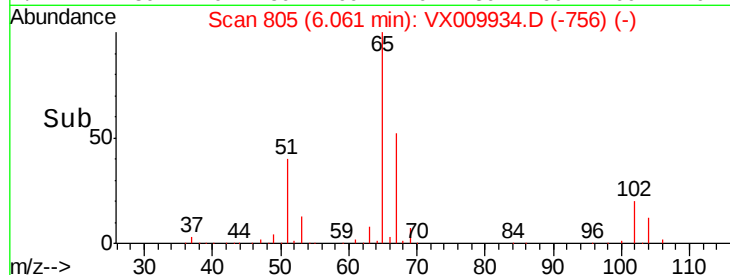
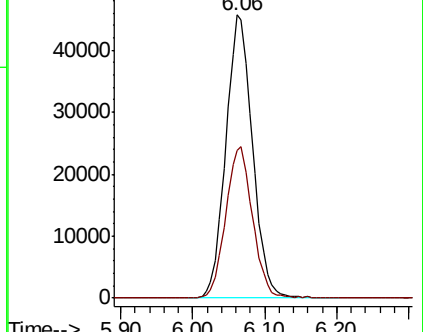
65 100

67 53.5 0.0 108.4



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: VX009934.D

Acq: 29 May 2019 12:56

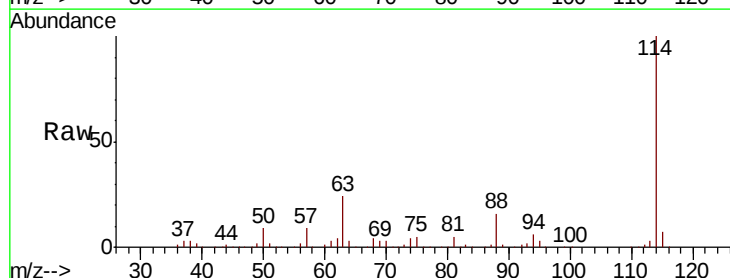
Tgt Ion: 114 Resp: 274292

Ion Ratio Lower Upper

114 100

63 23.6 0.0 47.4

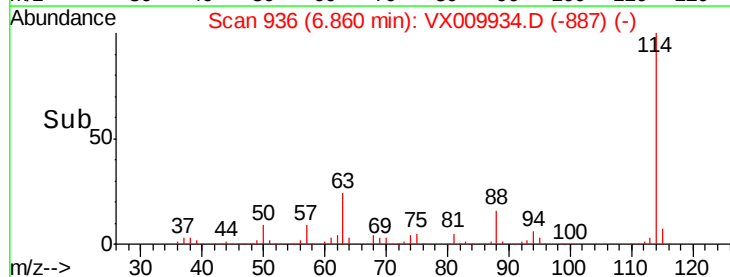
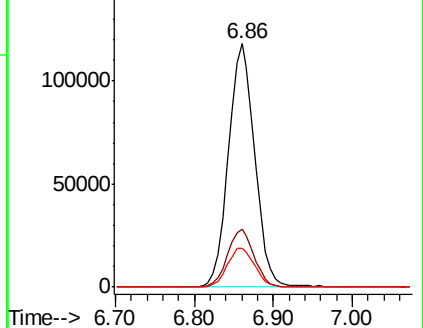
88 16.2 0.0 33.0

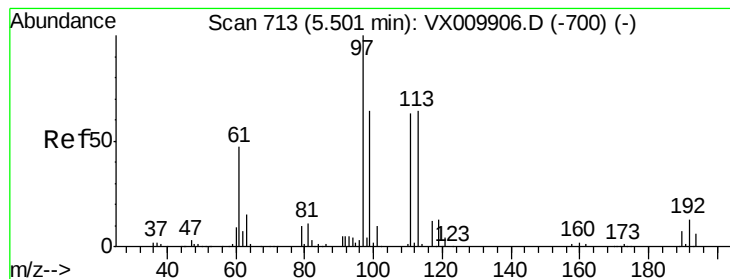


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.697 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX009934.D

Acq: 29 May 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

LF012OW009-190523

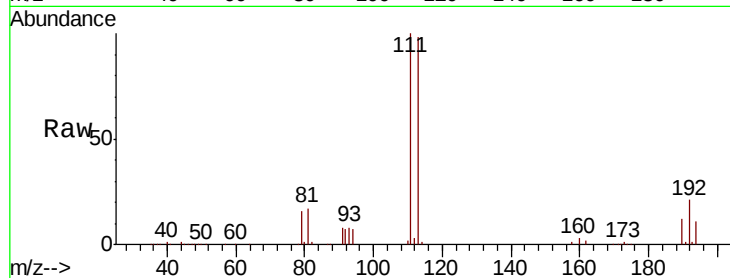
Tot Ion:113 Resp: 85701

Ion Ratio Lower Upper

113 100

111 102.5 82.2 123.2

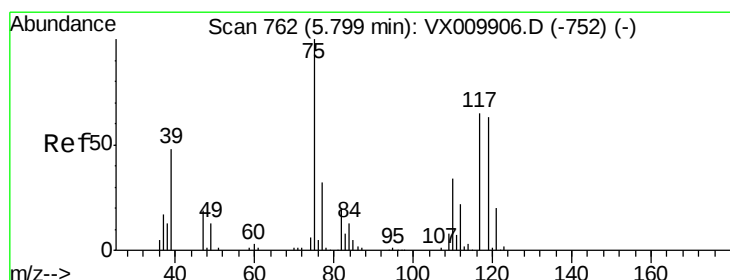
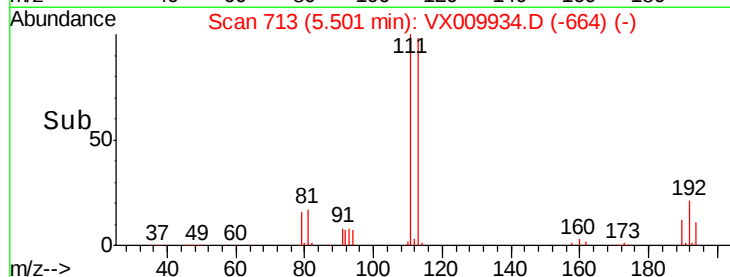
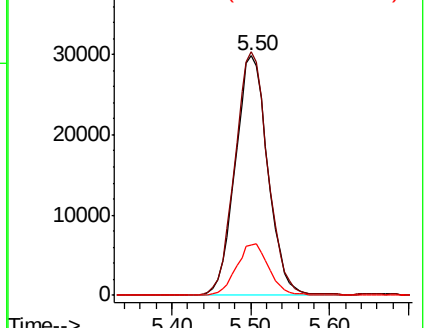
192 21.4 17.1 25.7



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: 4.902 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009934.D

Acq: 29 May 2019 12:56

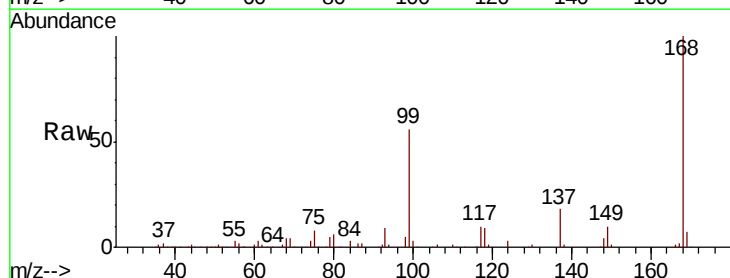
Tgt Ion: 75 Resp: 13641

Ion Ratio Lower Upper

75 100

110 10.4 16.7 50.1#

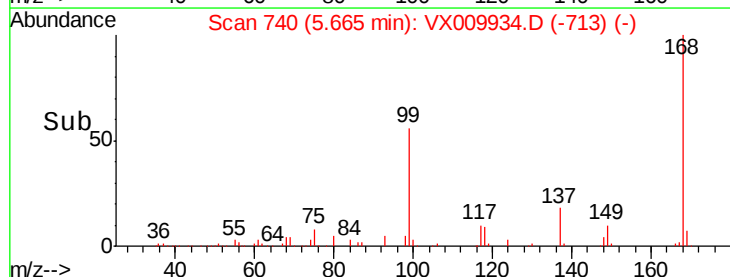
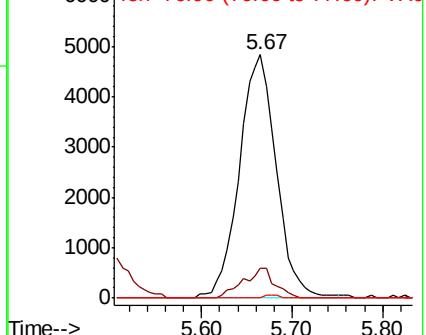
77 0.5 25.0 37.4#

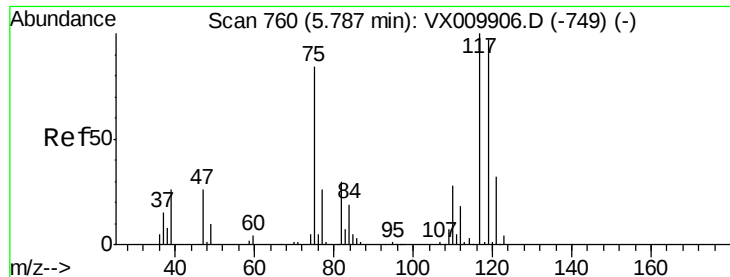


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.653 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009934.D

Acq: 29 May 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

LF012OW009-190523

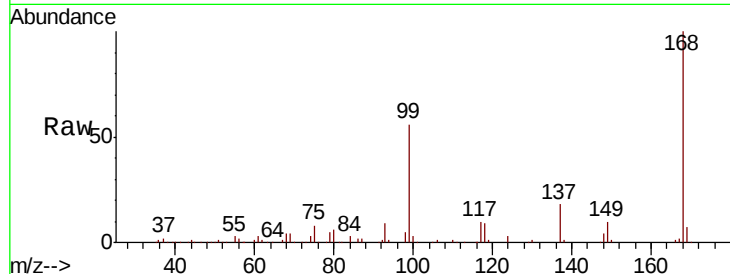
Tot Ion:117 Resp: 16000

Ion Ratio Lower Upper

117 100

119 5.4 77.3 115.9#

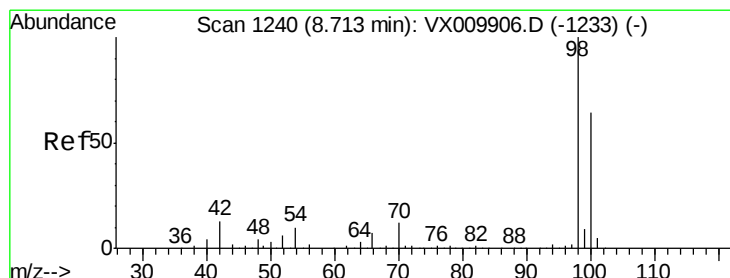
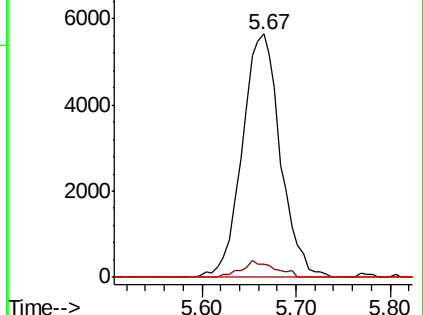
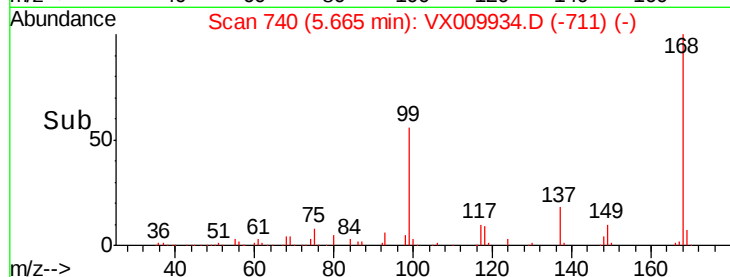
121 0.0 25.4 38.0#



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: 50.156 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009934.D

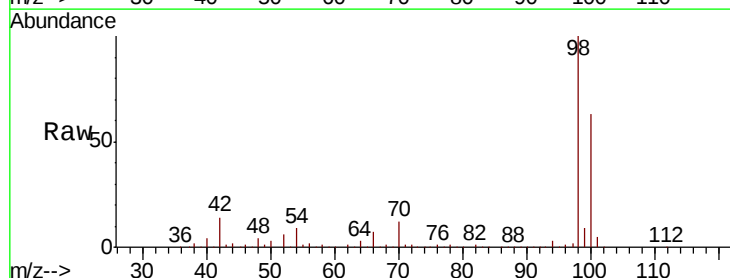
Acq: 29 May 2019 12:56

Tgt Ion: 98 Resp: 351231

Ion Ratio Lower Upper

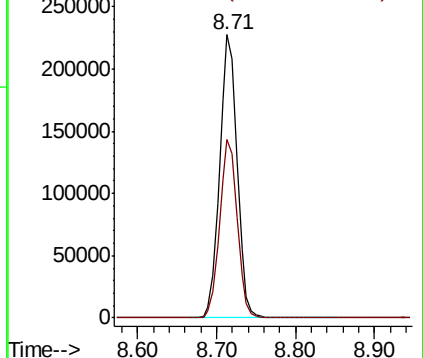
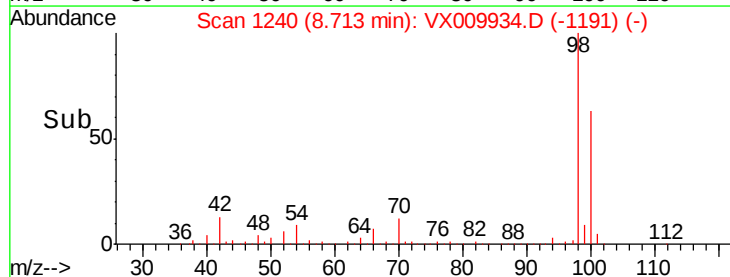
98 100

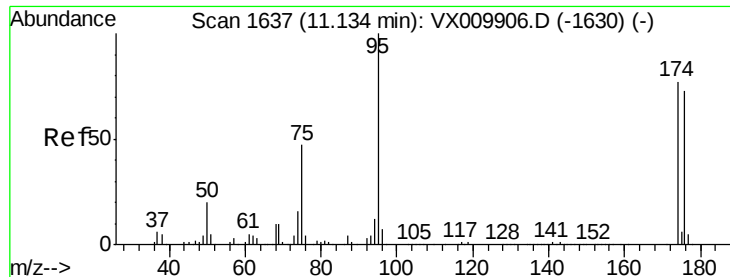
100 63.3 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 46.336 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009934.D

Acq: 29 May 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

LF012OW009-190523

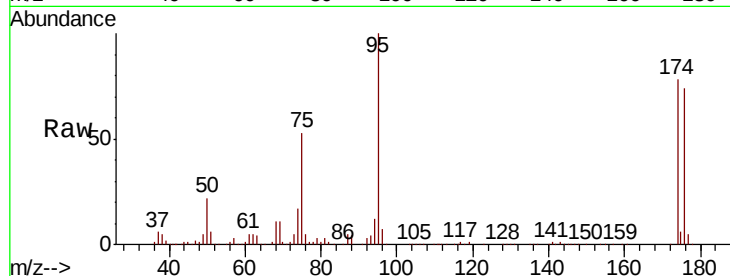
Tot Ion: 95 Resp: 116548

Ion Ratio Lower Upper

95 100

174 81.9 0.0 160.4

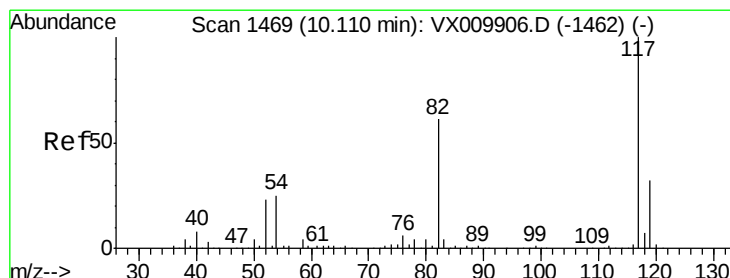
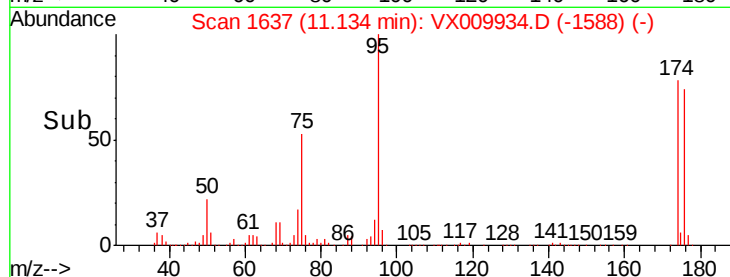
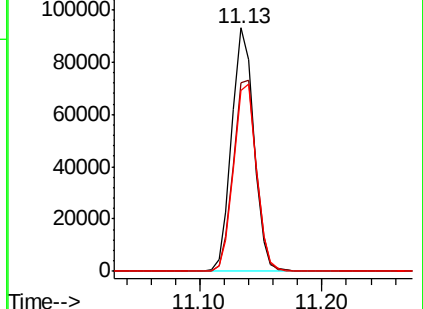
176 79.1 0.0 154.6



Abundance Ion 94.90 (94.60 to 95.60): VX009934.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX009934.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX009934.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009934.D

Acq: 29 May 2019 12:56

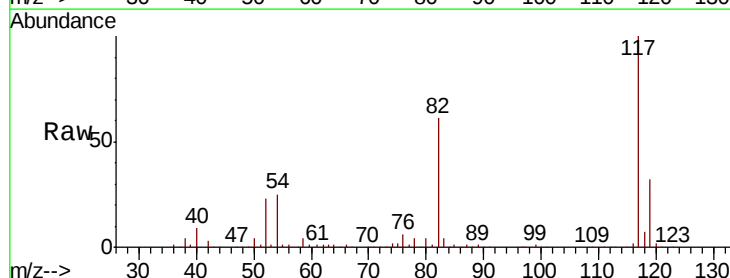
Tgt Ion: 117 Resp: 246225

Ion Ratio Lower Upper

117 100

82 60.8 49.2 73.8

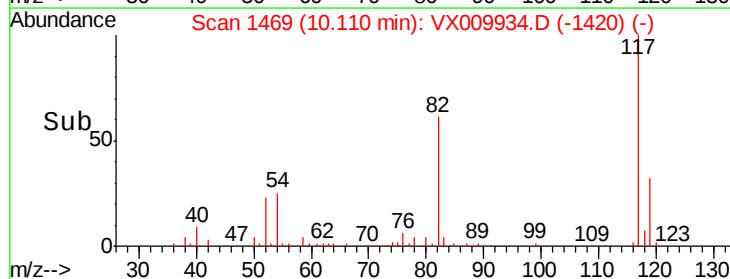
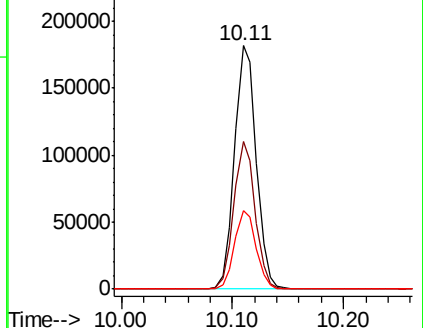
119 32.4 25.2 37.8

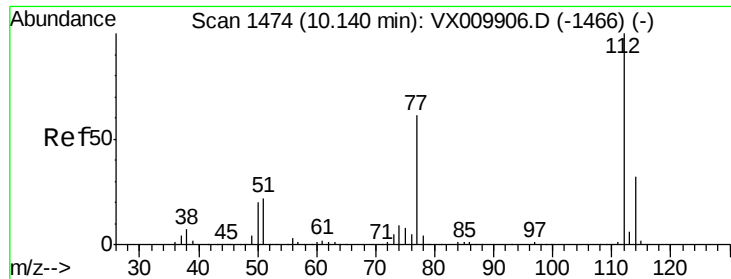


Abundance Ion 116.90 (116.60 to 117.60): VX009934.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX009934.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX009934.D (-1462) (-)

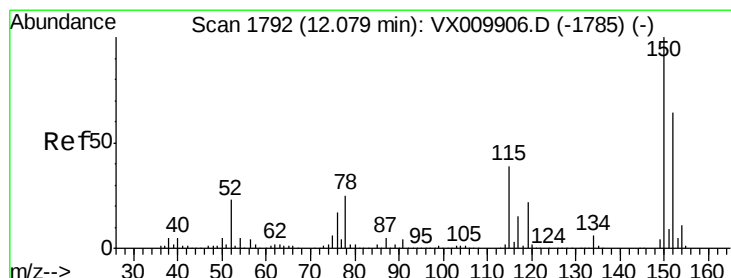
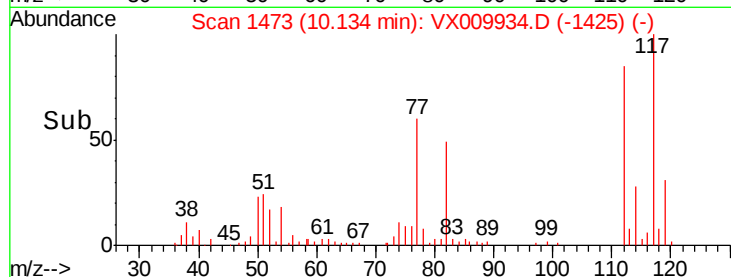
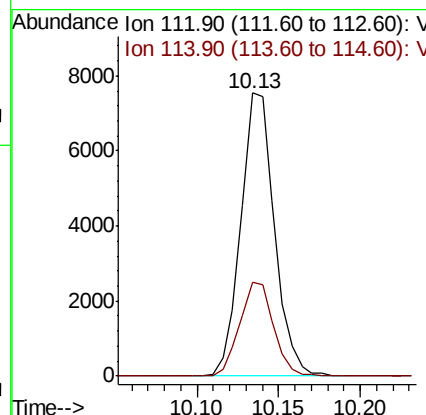
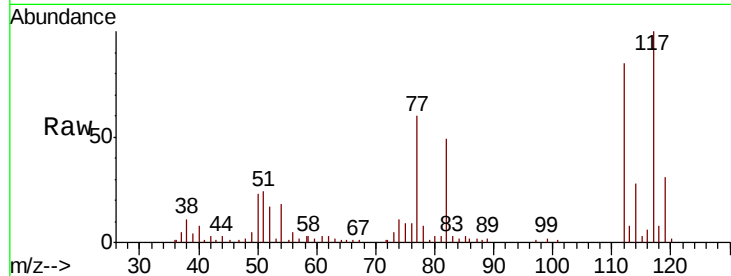




#65
Chlorobenzene
Concen: 2.103 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. -0.01 min
Lab File: VX009934.D
Acq: 29 May 2019 12:56

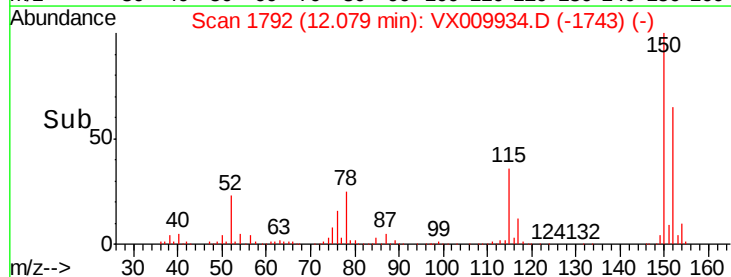
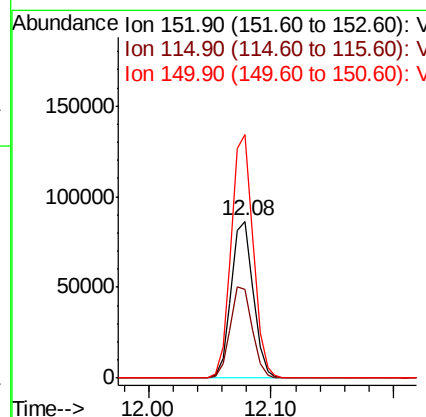
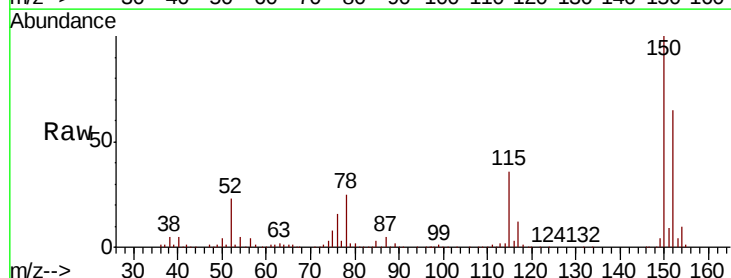
Instrument :
MSVOA_X
ClientSampleId :
LF012OW009-190523

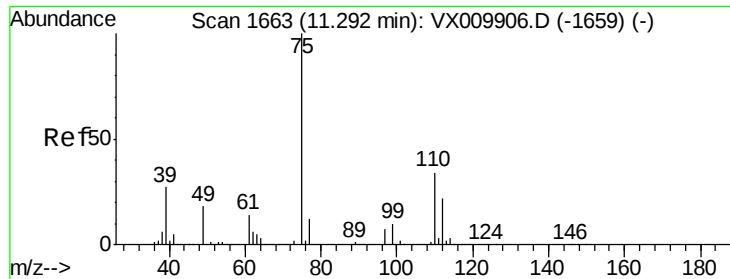
Tot Ion:112 Resp: 10839
Ion Ratio Lower Upper
112 100
114 33.1 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009934.D
Acq: 29 May 2019 12:56

Tgt Ion:152 Resp: 107359
Ion Ratio Lower Upper
152 100
115 58.5 41.4 124.2
150 155.2 0.0 345.2

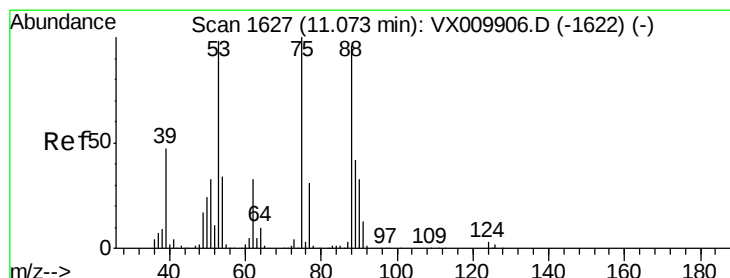
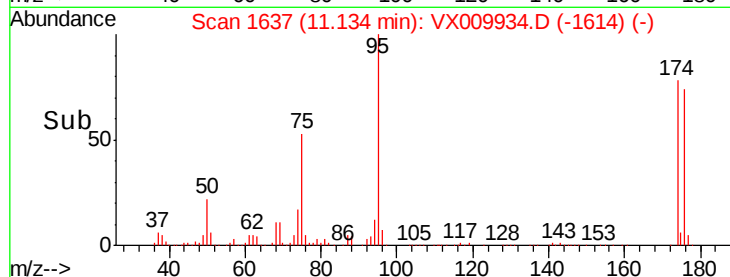
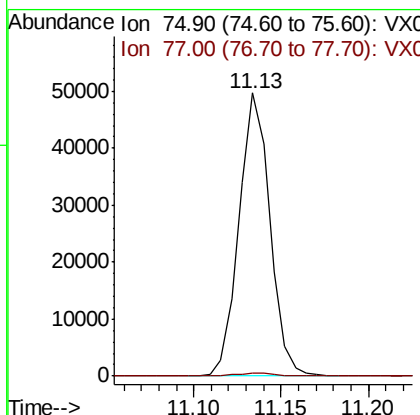
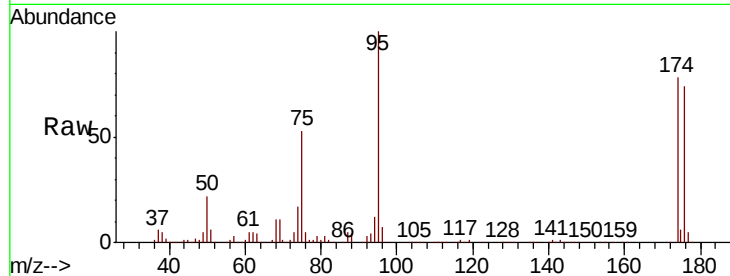




#76
 1,2,3-Trichloropropane
 Concen: 23.860 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009934.D
 Acq: 29 May 2019 12:56

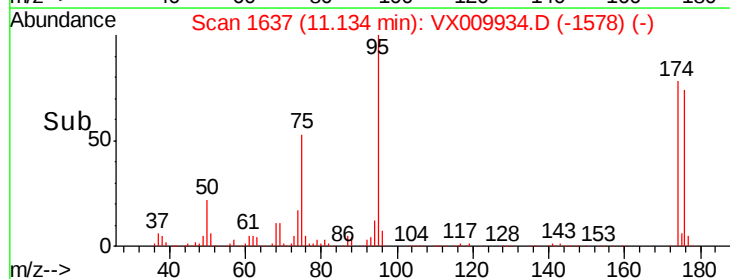
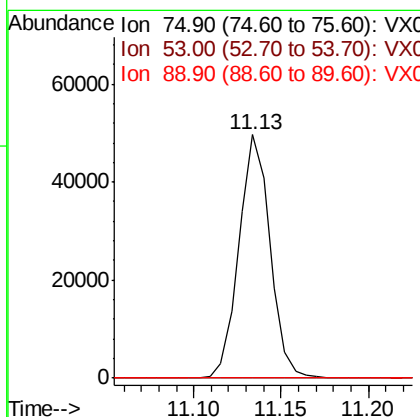
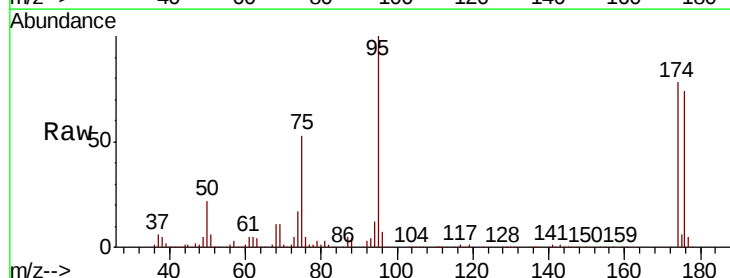
Instrument :
 MSVOA_X
 ClientSampleId :
 LF012OW009-190523

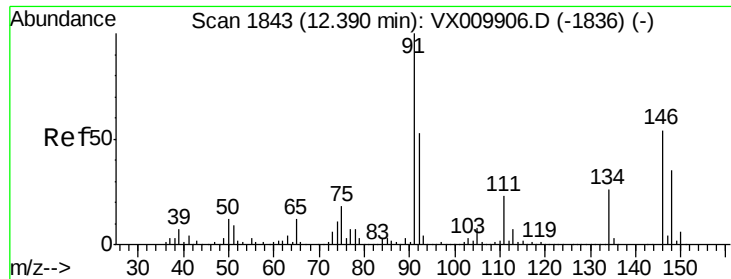
Tot Ion: 75 Resp: 61255
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.033 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009934.D
 Acq: 29 May 2019 12:56

Tgt Ion: 75 Resp: 61255
 Ion Ratio Lower Upper
 75 100
 53 0.2 79.8 119.6#
 89 0.0 34.2 51.4#





#91
 1,2-Dichlorobenzene
 Concen: 0.466 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. 0.00 min
 Lab File: VX009934.D
 Acq: 29 May 2019 12:56

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012OW009-190523

Tot Ion:146 Resp: 1652
 Ion Ratio Lower Upper
 146 100
 111 41.2 21.1 63.1
 148 56.8 32.3 96.8

