

Data Path : W:\HPCHEM1\MSVOA X\DATA\WX060218\
 Data File : VX002248.D
 Acq On : 02 Jun 2018 19:11
 Operator : JC/MD
 Sample : J3234-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF6-0054

Quant Time: Jun 04 05:14:06 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 24 13:09:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	232907	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	340651	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	309054	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	165980	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	220713	53.02	ug/l	0.00
Spiked Amount			Recovery	=	106.04%	
35) Dibromofluoromethane	5.51	113	161185	47.32	ug/l	0.00
Spiked Amount			Recovery	=	94.64%	
50) Toluene-d8	8.72	98	646901	52.45	ug/l	0.00
Spiked Amount			Recovery	=	104.90%	
62) 4-Bromofluorobenzene	11.14	95	220058	45.61	ug/l	0.00
Spiked Amount			Recovery	=	91.22%	

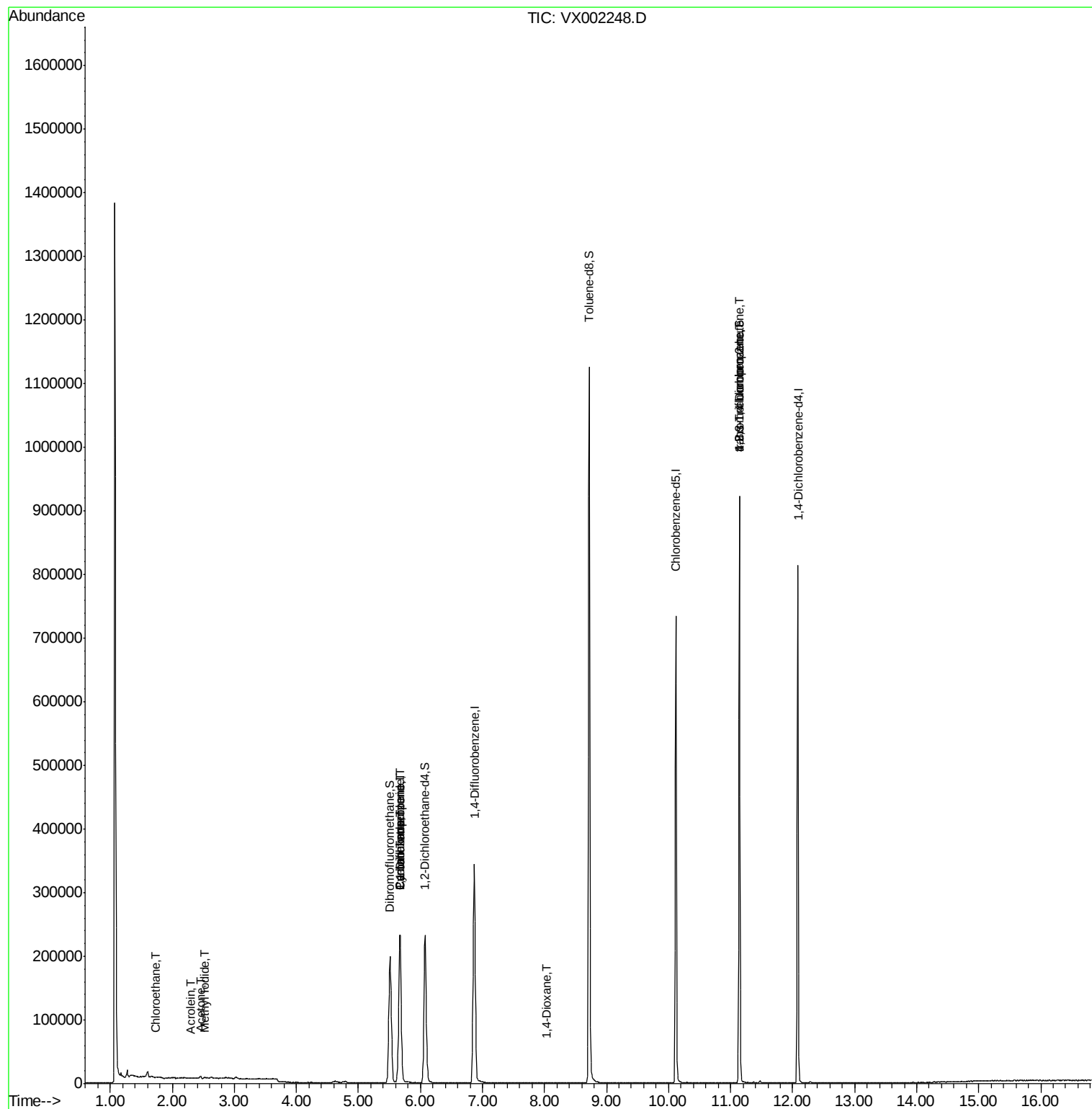
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.97	85	19	Below Cal	#	41
5) Bromomethane	1.65	94	1276	Below Cal	#	49
6) Chloroethane	1.73	64	465	0.23	ug/l	72
10) Methyl Iodide	2.52	142	1112	0.28	ug/l	94
13) Acrolein	2.29	56	88	0.25	ug/l	14
16) Acetone	2.45	43	2790	1.74	ug/l	93
18) Methyl Acetate	2.78	43	247	Below Cal	#	89
20) Methylene Chloride	2.86	84	584	Below Cal	#	94
21) trans-1,2-Dichloroethene	3.18	96	50	Below Cal	#	1
28) Bromochloromethane	4.95	49	22	Below Cal	#	14
31) Cyclohexane	5.67	56	5160	0.90	ug/l	10
36) 1,1-Dichloropropene	5.67	75	16727	3.53	ug/l	51
38) Carbon Tetrachloride	5.67	117	22242	4.03	ug/l	15
41) Methacrylonitrile	5.08	41	56	Below Cal	#	1
49) 1,4-Dioxane	8.03	88	19	0.21	ug/l	21
74) N-amyl acetate	6.47	43	216	Below Cal	#	60
75) 1,1,2,2-Tetrachloroethane	11.39	83	27	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.14	75	119787	30.05	ug/l	32
79) 2-Chlorotoluene	11.37	91	66	Below Cal	#	90
81) trans-1,4-Dichloro-2-buten	11.14	75	119787	72.21	ug/l	10

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002248.D

Acq: 02 Jun 2018 19:11

Instrument :

MSVOA_X

ClientSampleId :

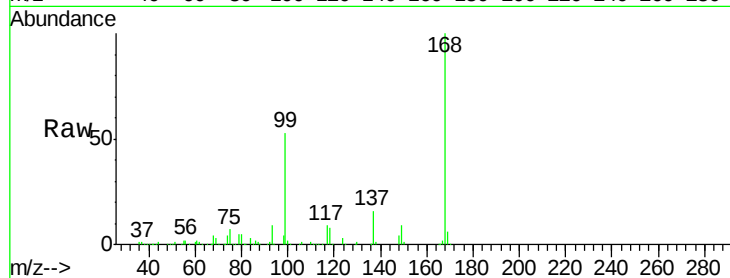
LF6-0054

Tot Ion:168 Resp: 232907

Ion Ratio Lower Upper

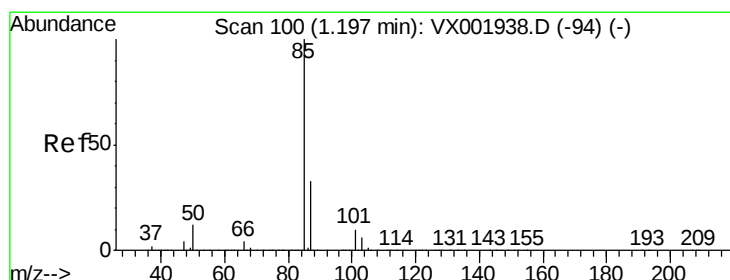
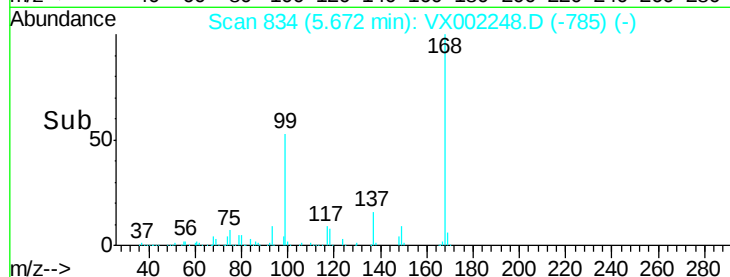
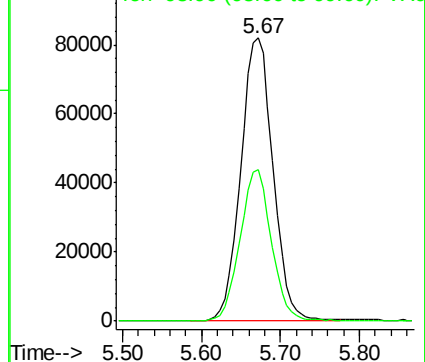
168 100

99 53.4 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.97 min Scan# 62

Delta R.T. -0.23 min

Lab File: VX002248.D

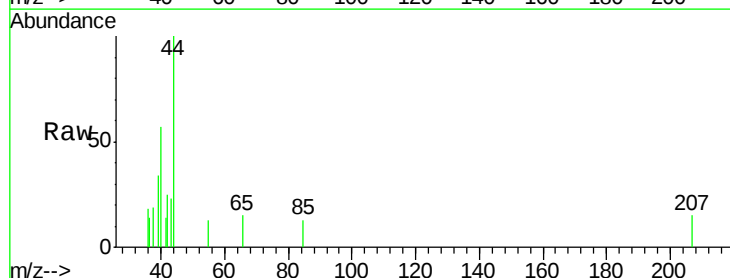
Acq: 02 Jun 2018 19:11

Tgt Ion: 85 Resp: 19

Ion Ratio Lower Upper

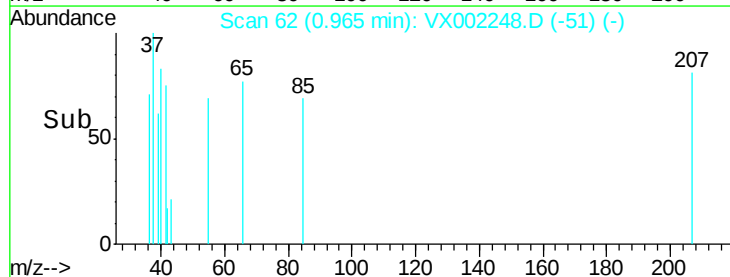
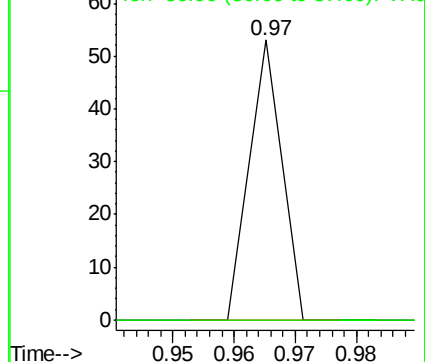
85 100

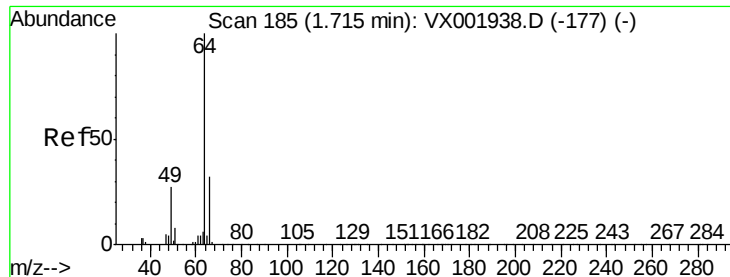
87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#6

Chloroethane

Concen: 0.23 ug/l

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX002248.D

Acq: 02 Jun 2018 19:11

Instrument :

MSVOA_X

ClientSampleId :

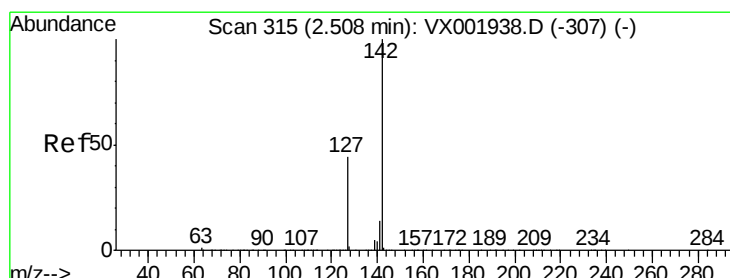
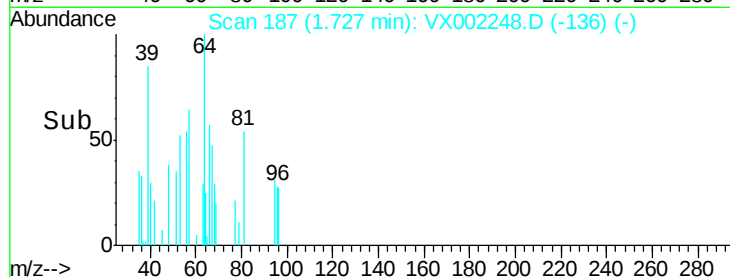
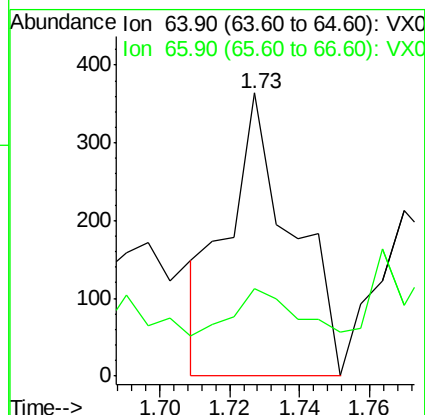
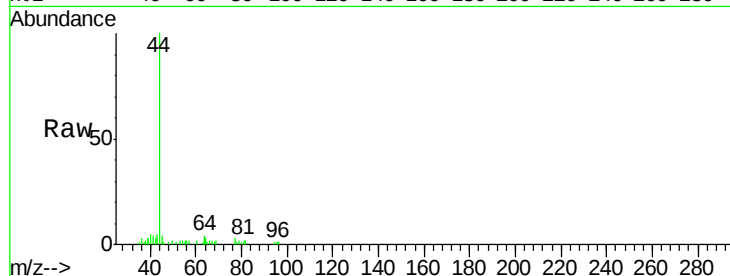
LF6-0054

Tot Ion: 64 Resp: 465

Ion Ratio Lower Upper

64 100

66 16.5 25.6 38.4#



#10

Methyl Iodide

Concen: 0.28 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002248.D

Acq: 02 Jun 2018 19:11

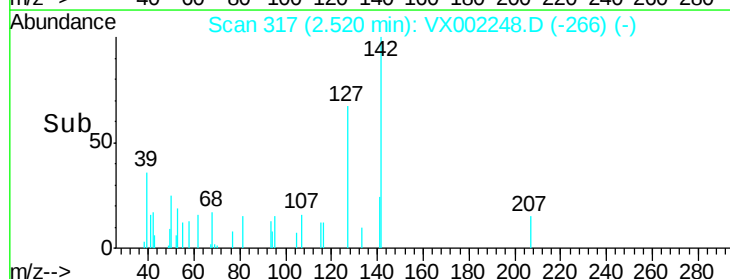
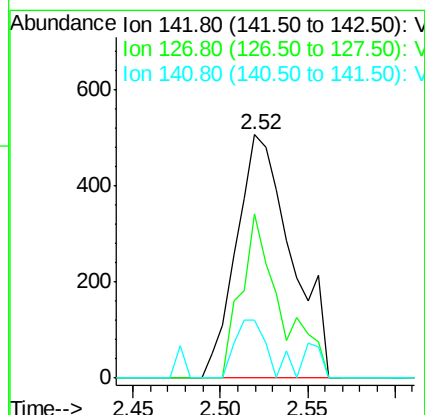
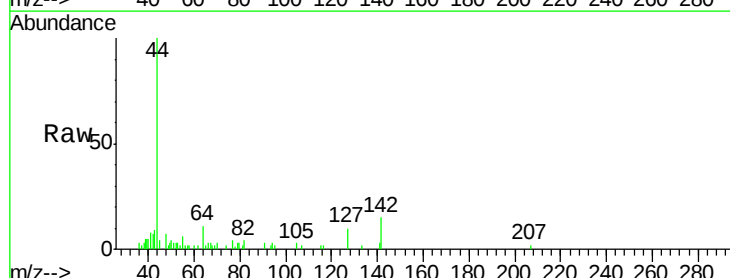
Tgt Ion: 142 Resp: 1112

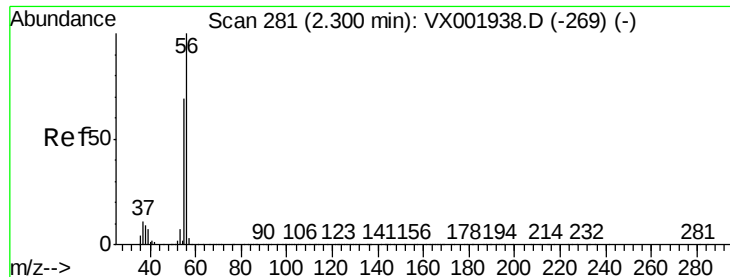
Ion Ratio Lower Upper

142 100

127 48.6 35.5 53.3

141 12.9 11.3 16.9





#13

Acrolein

Concen: 0.25 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX002248.D

Acq: 02 Jun 2018 19:11

Instrument :

MSVOA_X

ClientSampled :

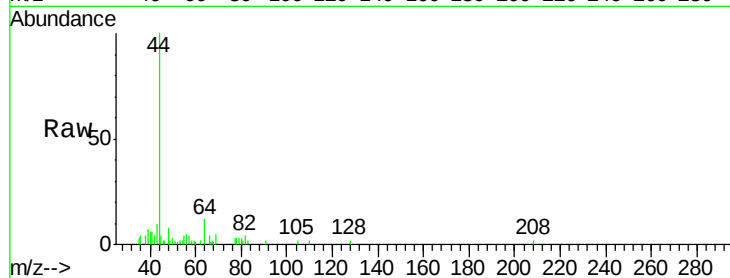
LF6-0054

Tot Ion: 56 Resp: 88

Ion Ratio Lower Upper

56 100

55 0.0 56.8 85.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.29

150

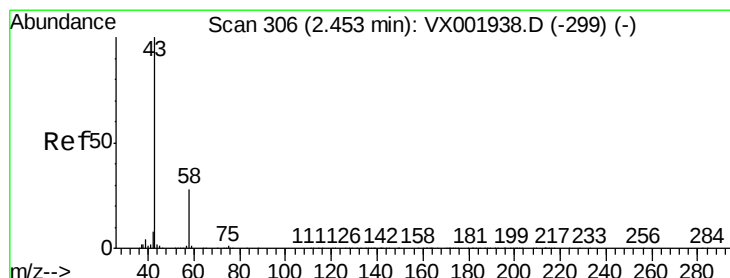
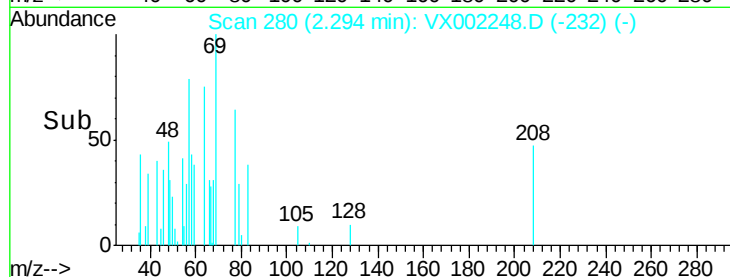
100

50

0

2.28 2.30 2.32

Time-->



#16

Acetone

Concen: 1.74 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX002248.D

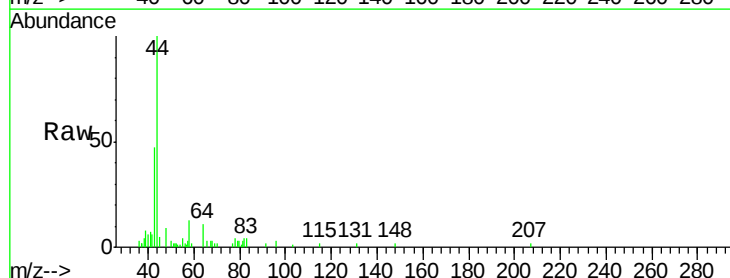
Acq: 02 Jun 2018 19:11

Tgt Ion: 43 Resp: 2790

Ion Ratio Lower Upper

43 100

58 31.6 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2000

1500

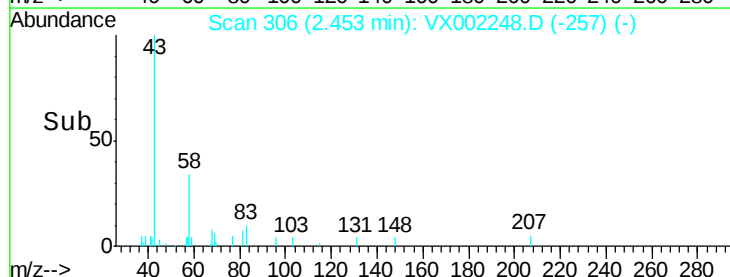
1000

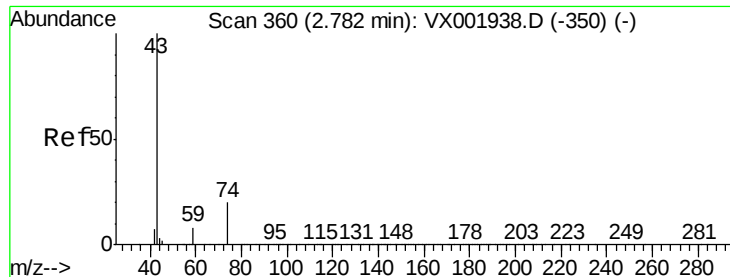
500

0

2.40 2.45 2.50

Time-->

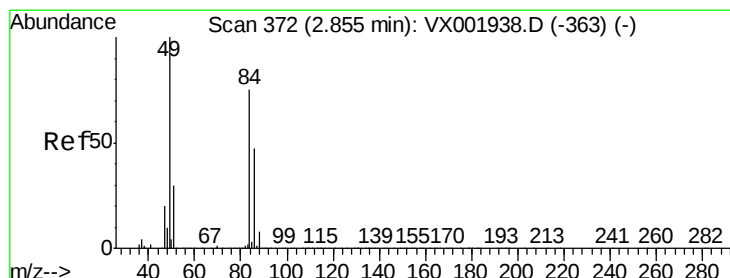
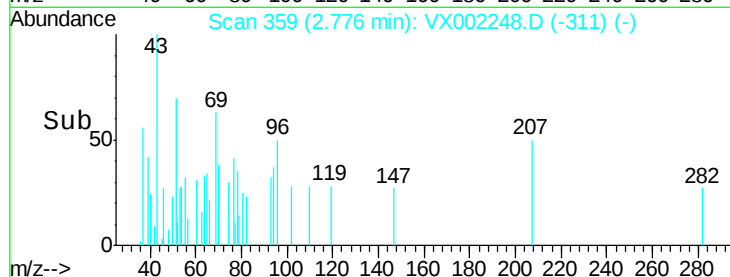
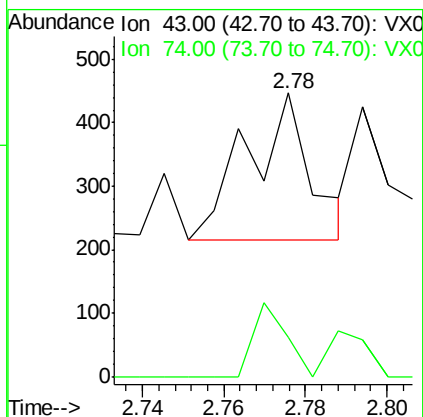
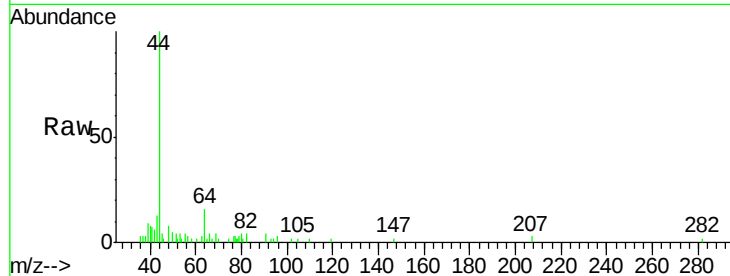




#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX002248.D
Acq: 02 Jun 2018 19:11

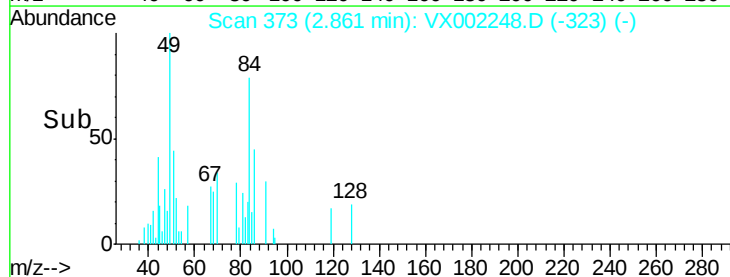
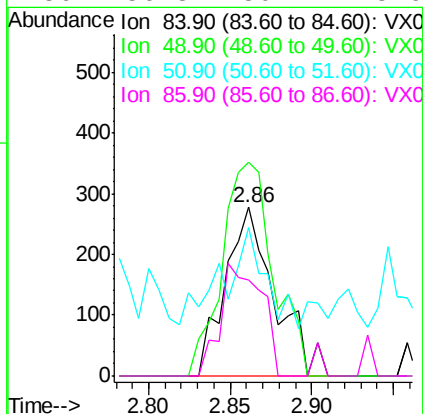
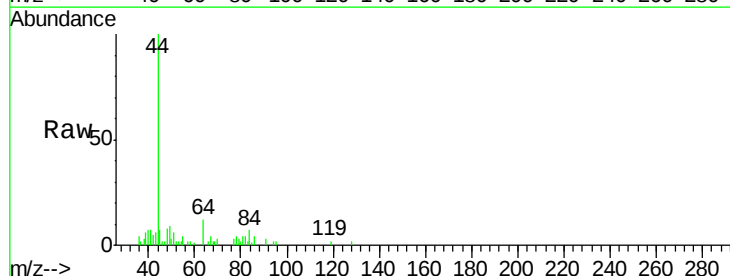
Instrument :
MSVOA_X
ClientSampled :
LF6-0054

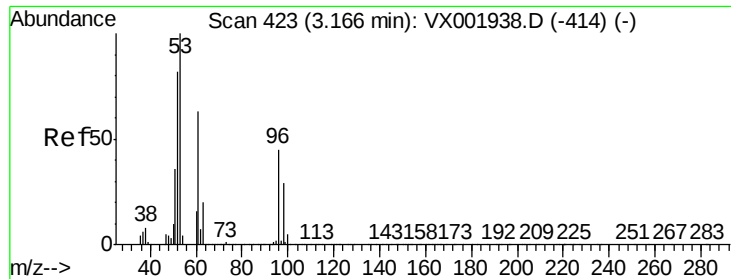
Tot Ion: 43 Resp: 247
Ion Ratio Lower Upper
43 100
74 26.3 16.8 25.2#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX002248.D
Acq: 02 Jun 2018 19:11

Tgt Ion: 84 Resp: 584
Ion Ratio Lower Upper
84 100
49 126.6 107.2 160.8
51 42.4 32.4 48.6
86 56.8 50.4 75.6





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.18 min Scan# 426

Delta R.T. 0.02 min

Lab File: VX002248.D

Acq: 02 Jun 2018 19:11

Instrument :

MSVOA_X

ClientSampled :

LF6-0054

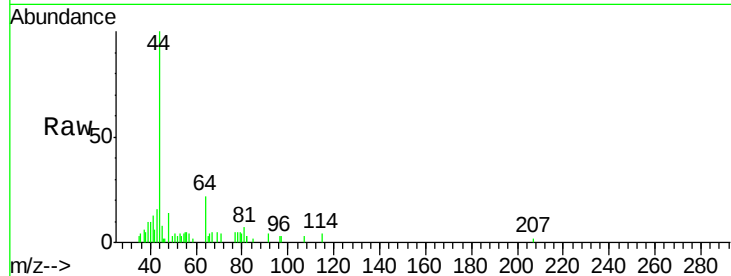
Tot Ion: 96 Resp: 50

Ion Ratio Lower Upper

96 100

61 0.0 113.3 169.9#

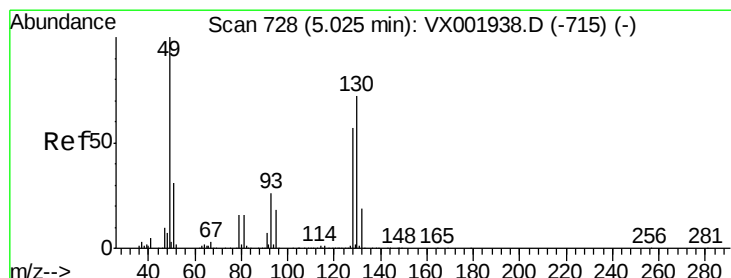
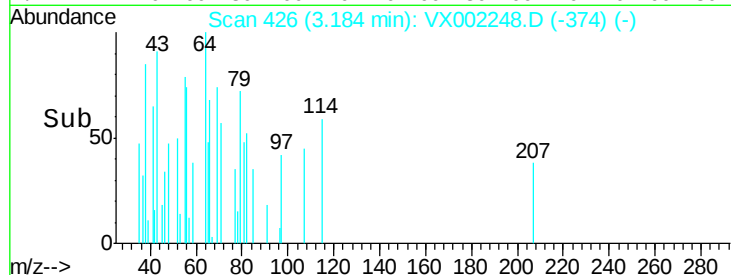
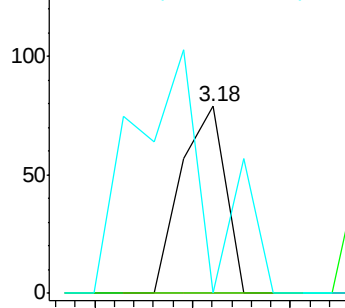
98 0.0 51.7 77.5#



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



#28

Bromochloromethane

Concen: Below Cal

RT: 4.95 min Scan# 716

Delta R.T. -0.07 min

Lab File: VX002248.D

Acq: 02 Jun 2018 19:11

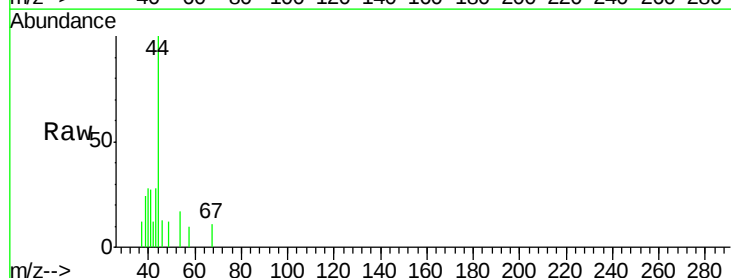
Tgt Ion: 49 Resp: 22

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

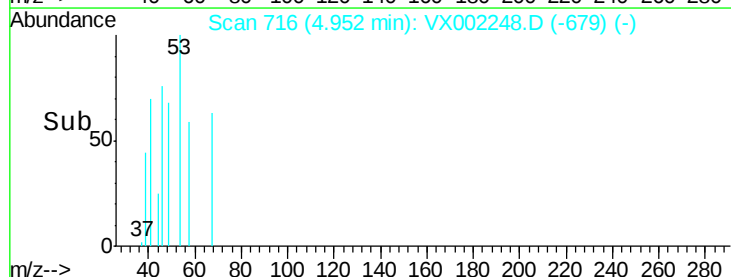
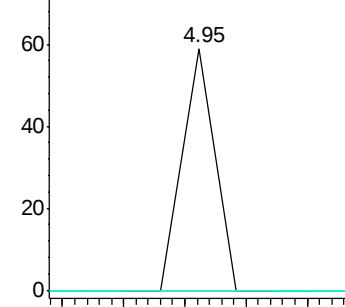
130 0.0 59.4 89.2#

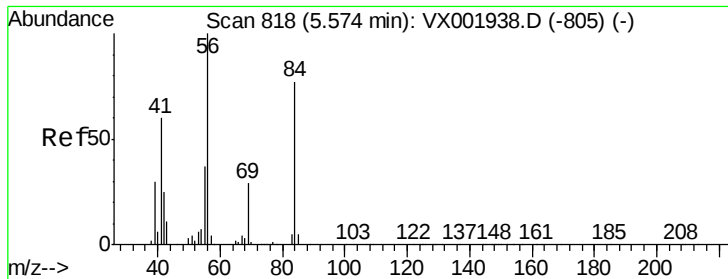


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

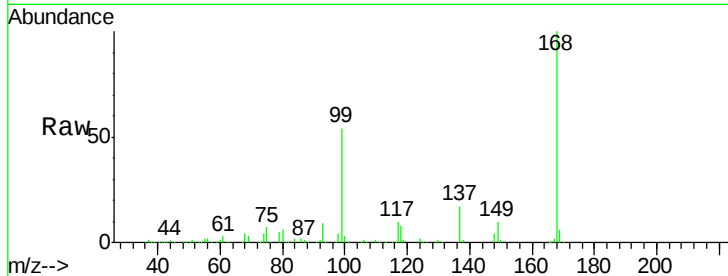




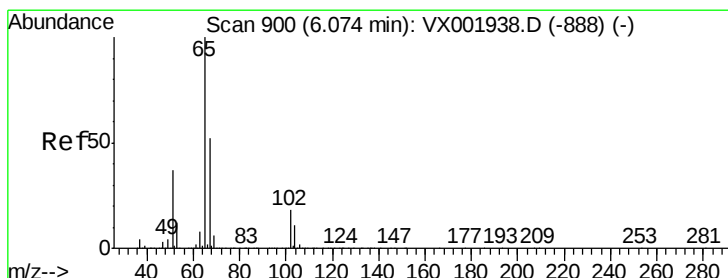
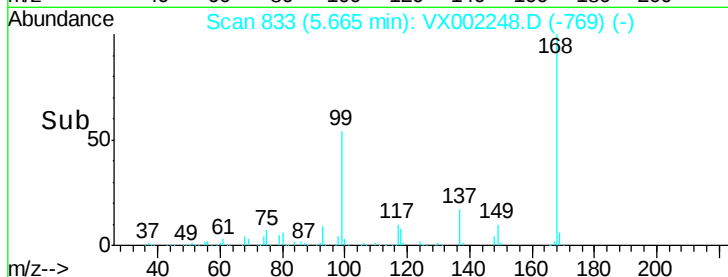
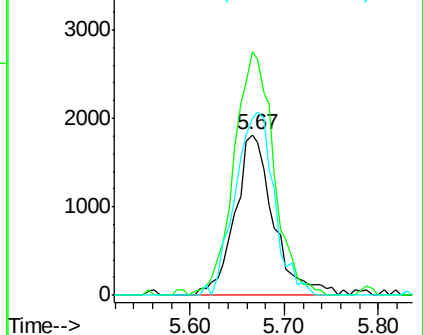
#31
Cyclohexane
Concen: 0.90 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX002248.D
Acq: 02 Jun 2018 19:11

Instrument :
MSVOA_X
ClientSampled :
LF6-0054

Tot Ion: 56 Resp: 5160
Ion Ratio Lower Upper
56 100
69 151.5 23.1 34.7#
84 110.0 62.0 93.0#

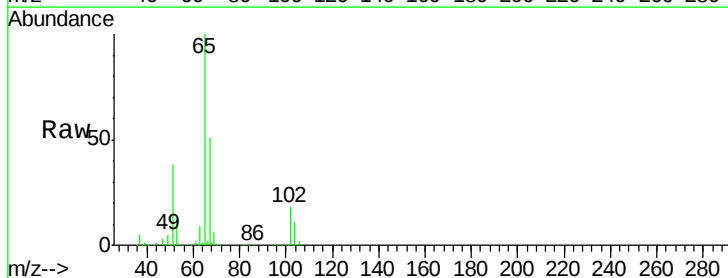


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

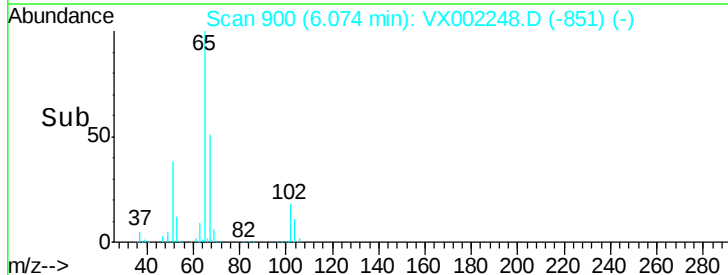
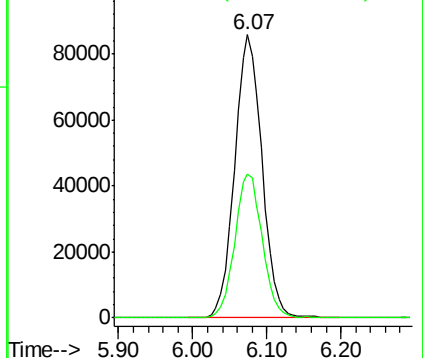


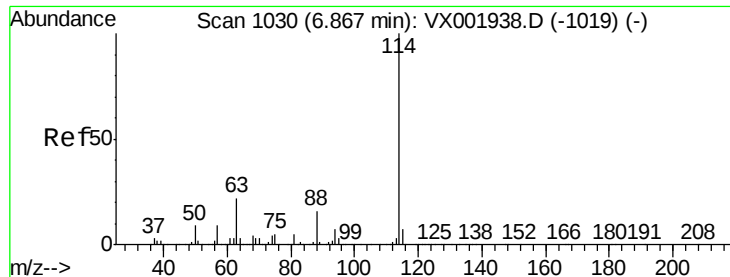
#33
1,2-Dichloroethane-d4
Concen: 53.02 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX002248.D
Acq: 02 Jun 2018 19:11

Tgt Ion: 65 Resp: 220713
Ion Ratio Lower Upper
65 100
67 51.1 0.0 104.0



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: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002248.D

Acq: 02 Jun 2018 19:11

Instrument :

MSVOA_X

ClientSampleId :

LF6-0054

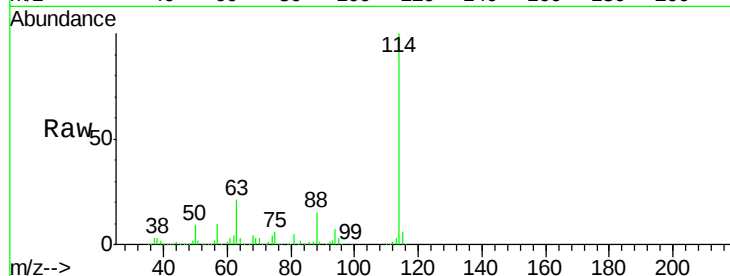
Tot Ion:114 Resp: 340651

Ion Ratio Lower Upper

114 100

63 20.7 0.0 43.2

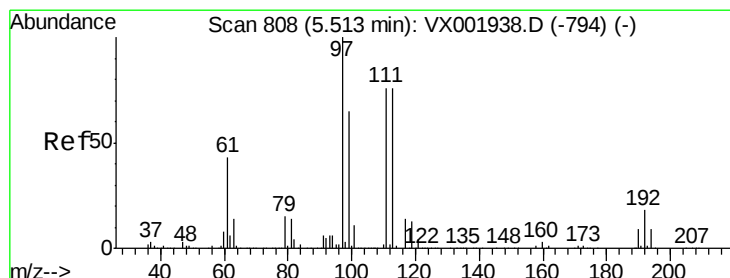
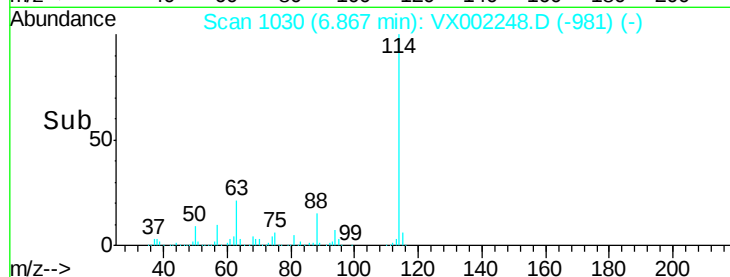
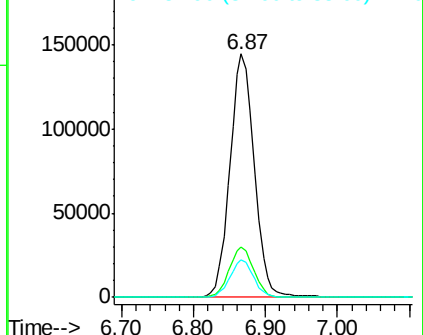
88 15.3 0.0 31.6



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: 47.32 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX002248.D

Acq: 02 Jun 2018 19:11

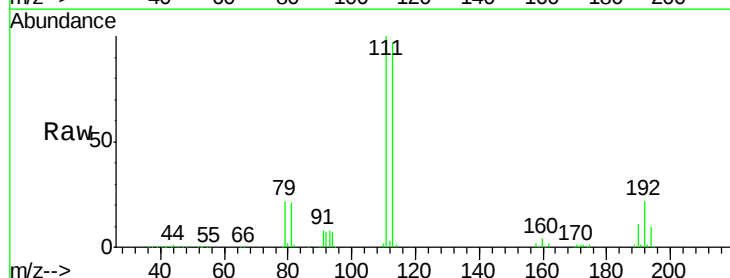
Tgt Ion:113 Resp: 161185

Ion Ratio Lower Upper

113 100

111 101.9 82.0 123.0

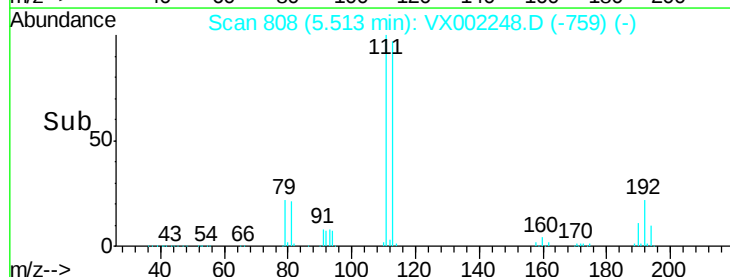
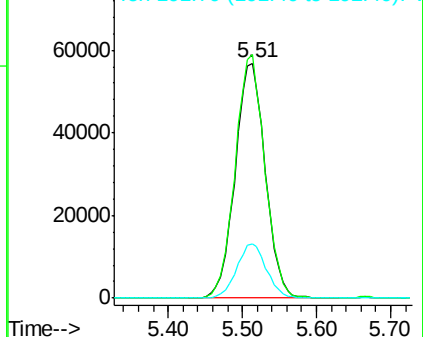
192 22.7 18.9 28.3

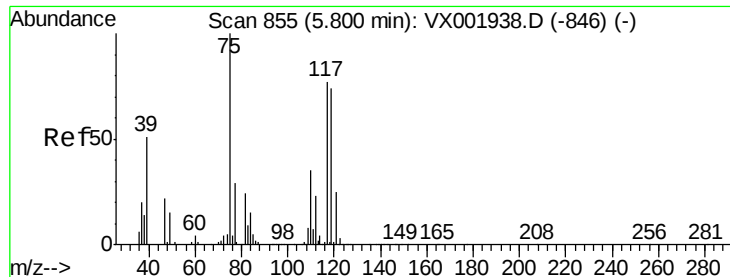


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

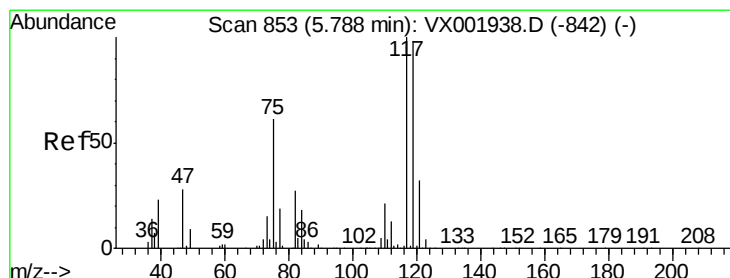
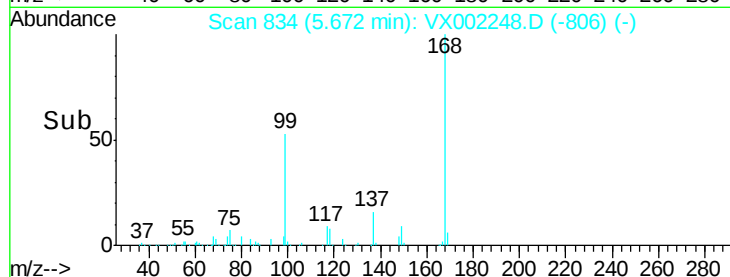
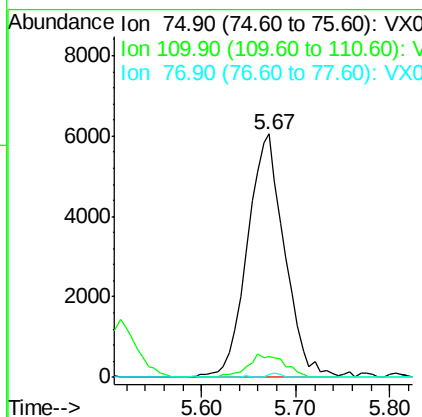
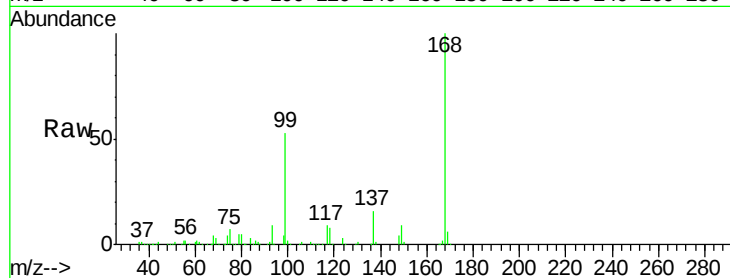




#36
 1,1-Dichloropropene
 Concen: 3.53 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002248.D
 Acq: 02 Jun 2018 19:11

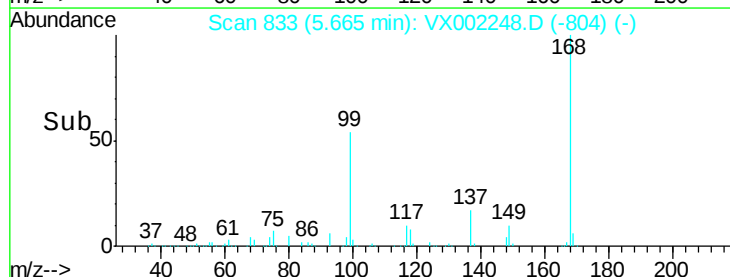
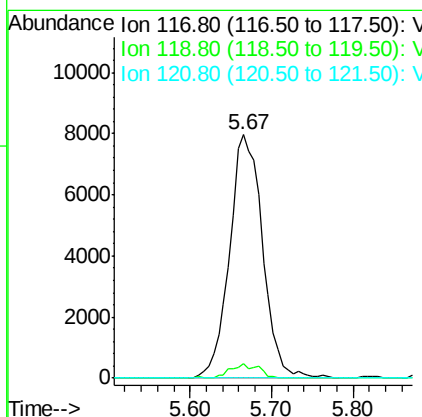
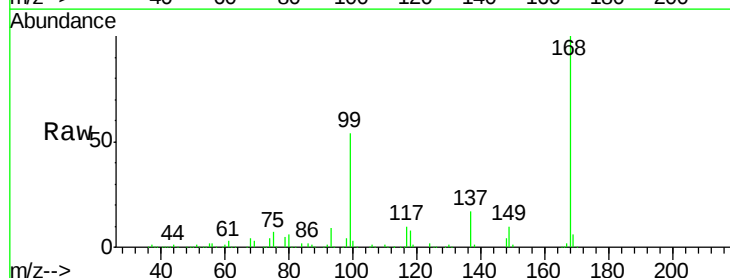
Instrument :
 MSVOA_X
 ClientSampled :
 LF6-0054

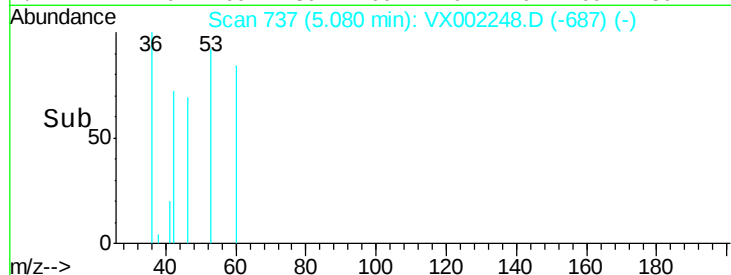
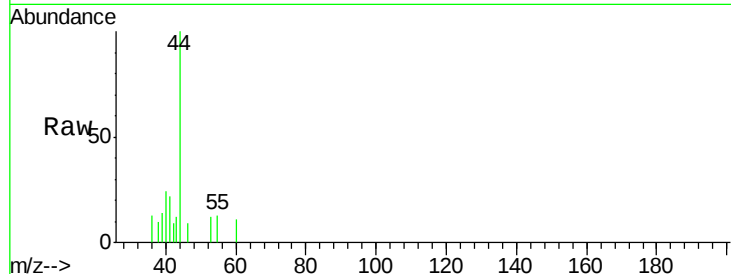
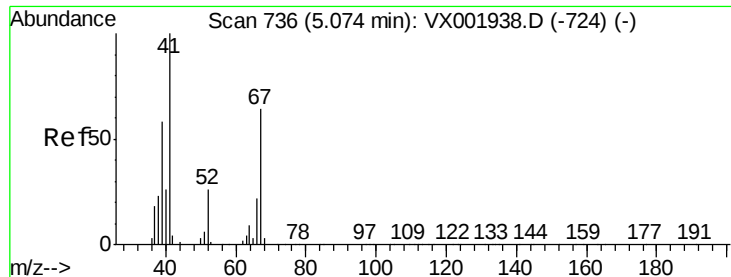
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.3	17.4	52.2#
77	0.5	24.4	36.6#



#38
 Carbon Tetrachloride
 Concen: 4.03 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002248.D
 Acq: 02 Jun 2018 19:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	78.5	117.7#
121	0.0	25.5	38.3#

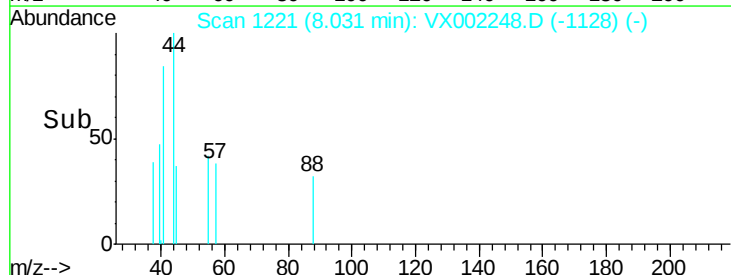
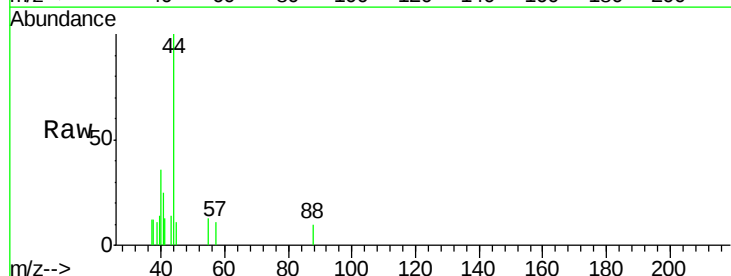
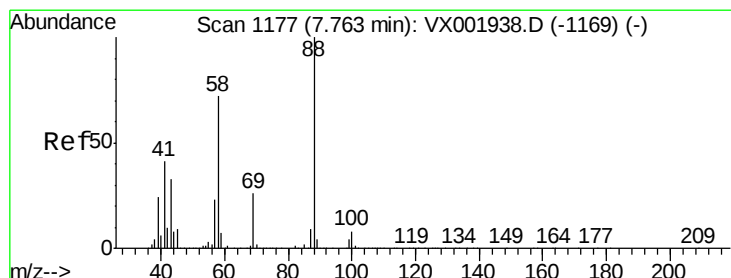
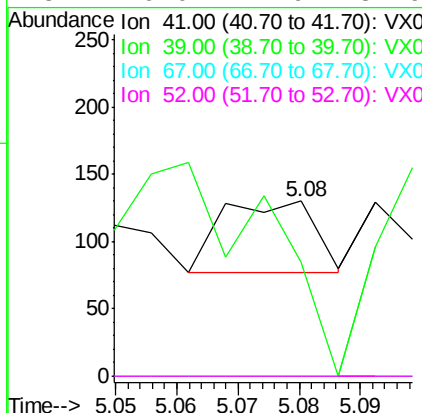




#41
Methacrylonitrile
Concen: Below Cal
RT: 5.08 min Scan# 737
Delta R.T. 0.01 min
Lab File: VX002248.D
Acq: 02 Jun 2018 19:11

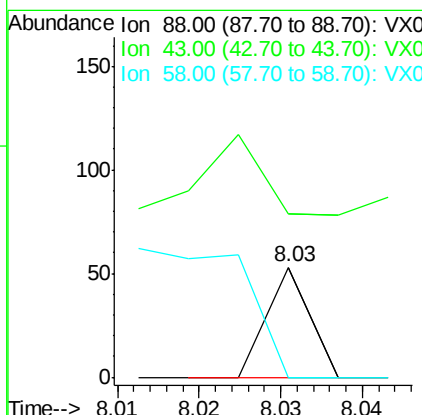
Instrument :
MSVOA_X
ClientSampled :
LF6-0054

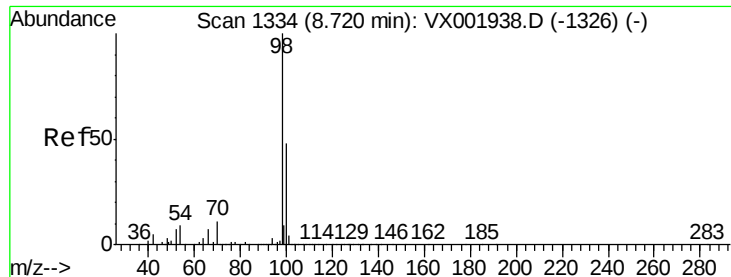
Tot Ion:	41	Resp:	56
Ion	Ratio	Lower	Upper
41	100		
39	401.8	46.0	69.0#
67	0.0	50.6	75.8#
52	0.0	21.9	32.9#



#49
1,4-Dioxane
Concen: 0.21 ug/l
RT: 8.03 min Scan# 1221
Delta R.T. 0.27 min
Lab File: VX002248.D
Acq: 02 Jun 2018 19:11

Tgt Ion:	88	Resp:	19
Ion	Ratio	Lower	Upper
88	100		
43	0.0	29.8	44.8#
58	0.0	58.7	88.1#

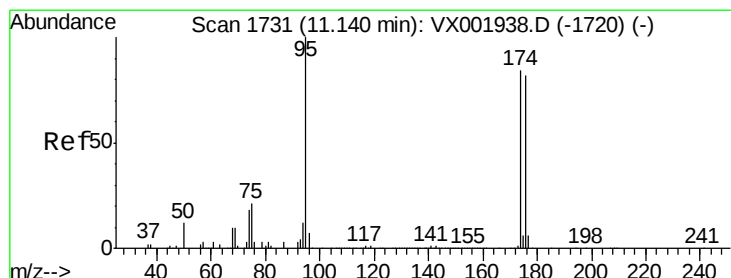
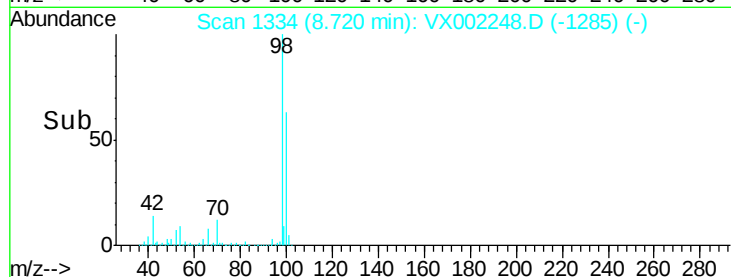
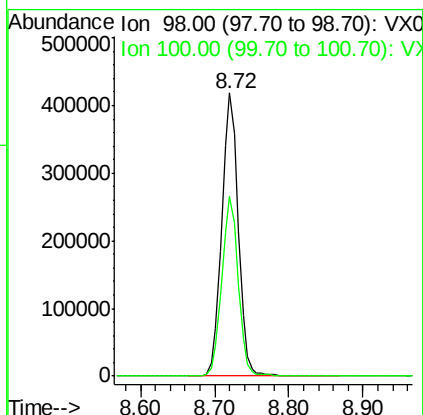
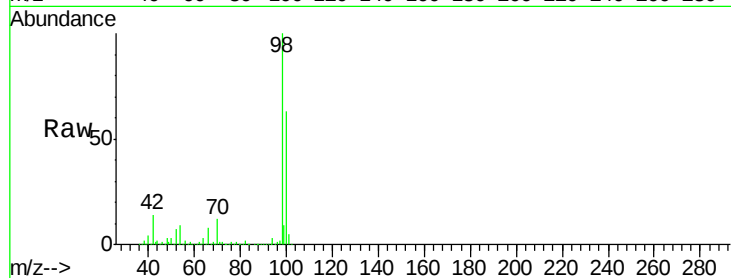




#50
Toluene-d8
Concen: 52.45 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002248.D
Acq: 02 Jun 2018 19:11

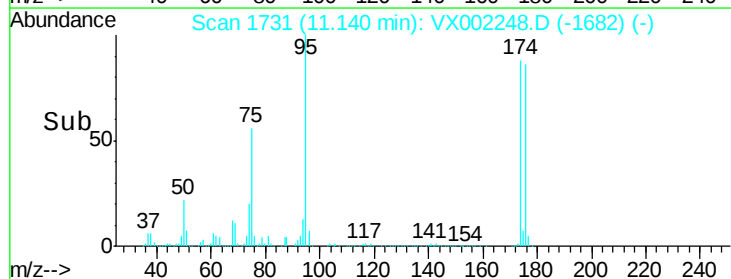
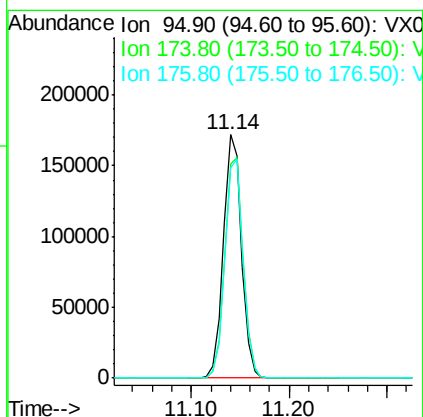
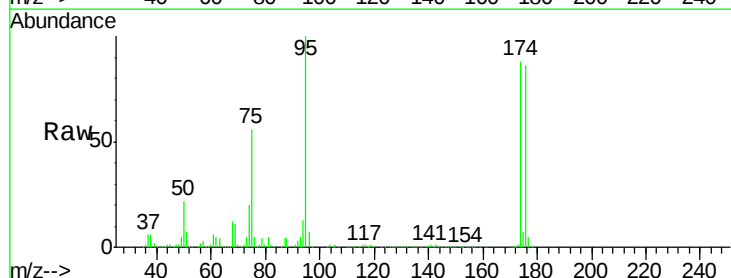
Instrument :
MSVOA_X
ClientSampleId :
LF6-0054

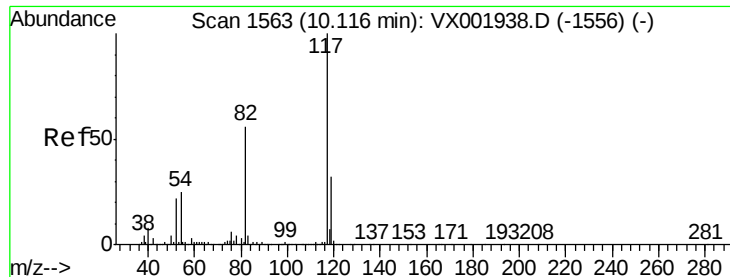
Tot Ion: 98 Resp: 646901
Ion Ratio Lower Upper
98 100
100 63.0 51.5 77.3



#62
4-Bromofluorobenzene
Concen: 45.61 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002248.D
Acq: 02 Jun 2018 19:11

Tgt Ion: 95 Resp: 220058
Ion Ratio Lower Upper
95 100
174 92.4 0.0 178.8
176 91.0 0.0 175.6

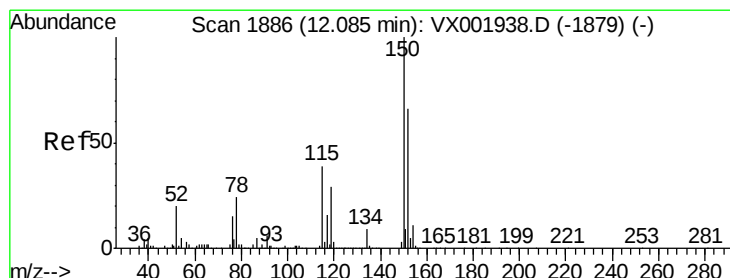
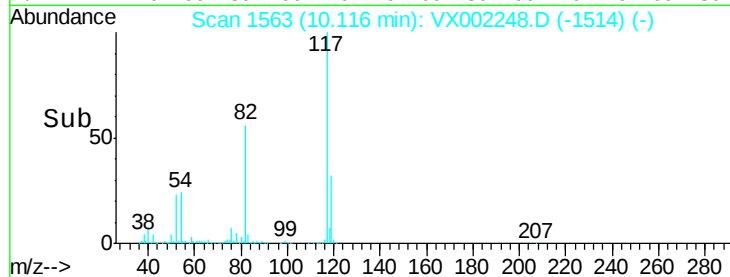
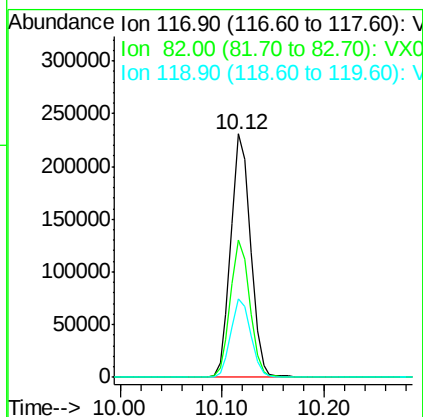
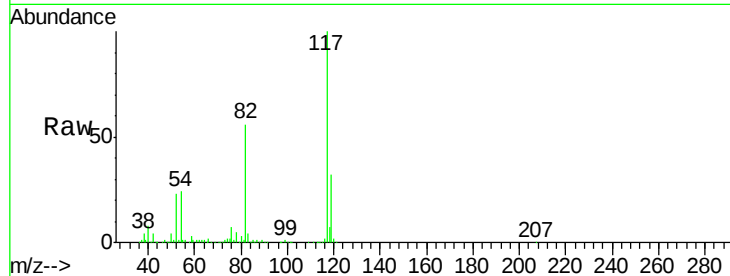




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002248.D
Acq: 02 Jun 2018 19:11

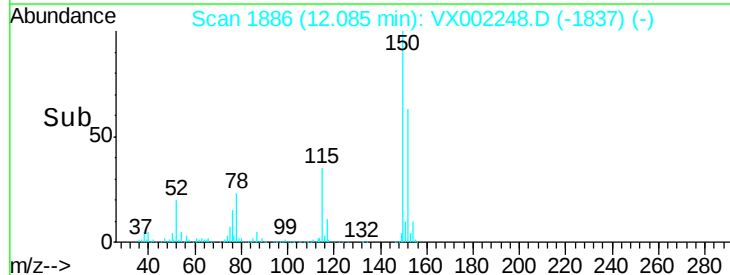
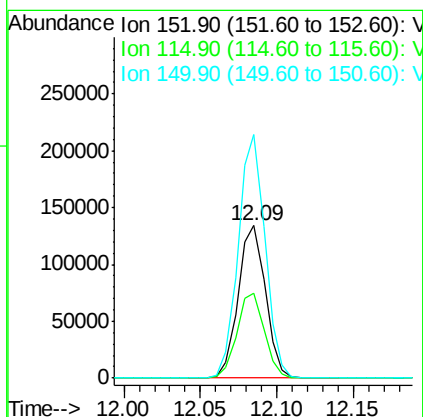
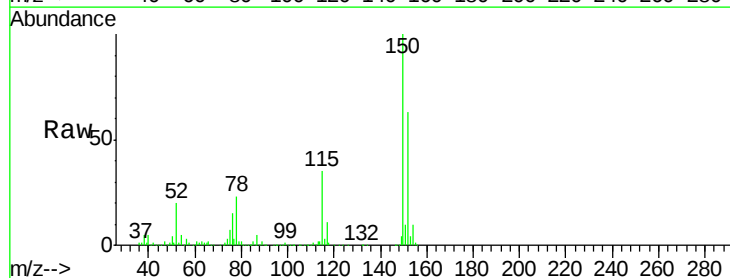
Instrument :
MSVOA_X
ClientSampleId :
LF6-0054

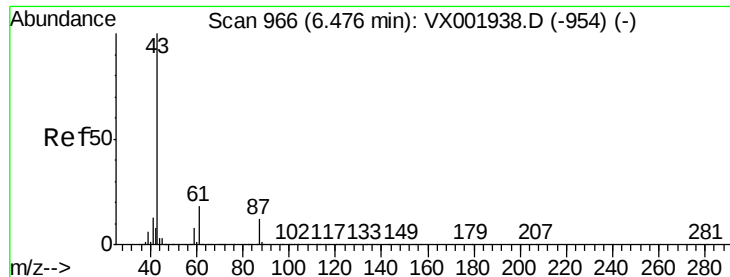
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.4	44.8	67.2
119	32.5	25.5	38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002248.D
Acq: 02 Jun 2018 19:11

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.0	42.3	126.8
150	157.1	0.0	351.0





#74

N-amvl acetate

Concen: Below Cal

RT: 6.47 min Scan# 965

Delta R.T. -0.01 min

Lab File: VX002248.D

Acq: 02 Jun 2018 19:11

Instrument :

MSVOA_X

ClientSampled :

LF6-0054

Tot Ion: 43 Resp: 216

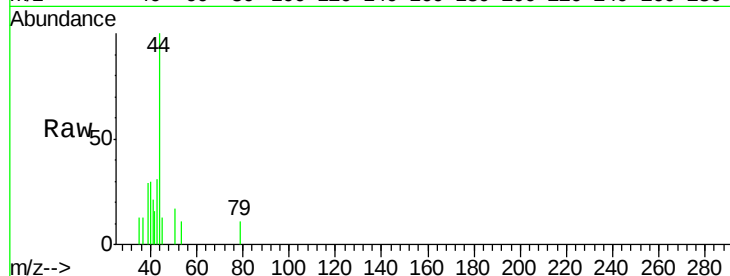
Ion Ratio Lower Upper

43 100

70 0.0 0.1 0.1#

55 40.7 0.1 0.1#

61 0.0 14.5 21.7#



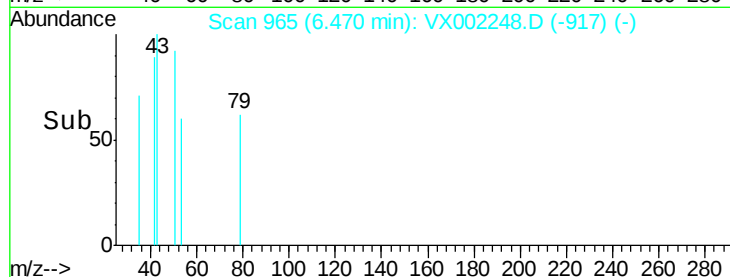
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Time-->



Abundance

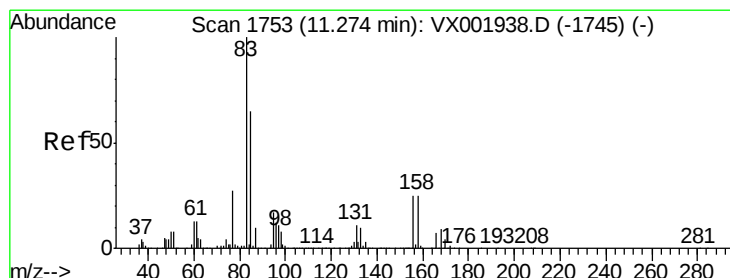
Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Time-->



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.39 min Scan# 1772

Delta R.T. 0.12 min

Lab File: VX002248.D

Acq: 02 Jun 2018 19:11

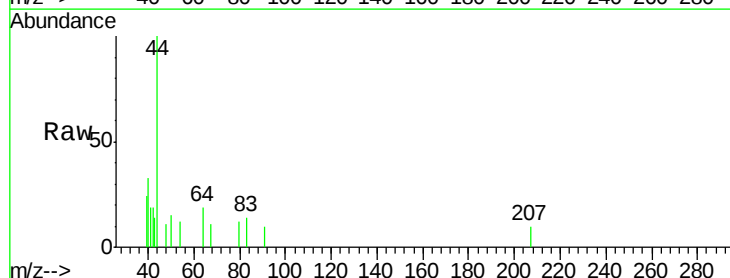
Tgt Ion: 83 Resp: 27

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

85 0.0 32.6 97.7#

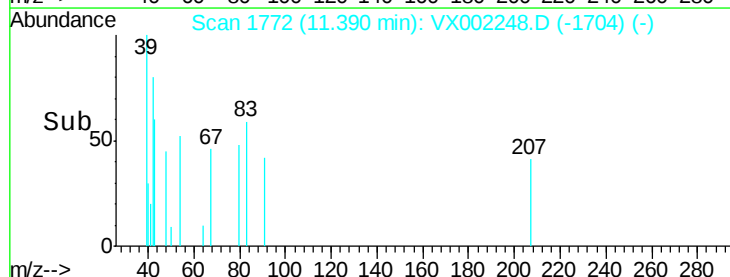


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

Time-->



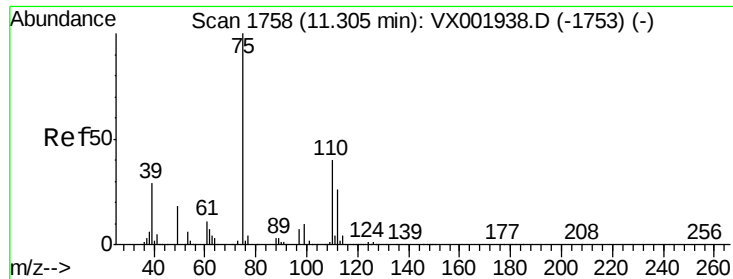
Abundance

Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

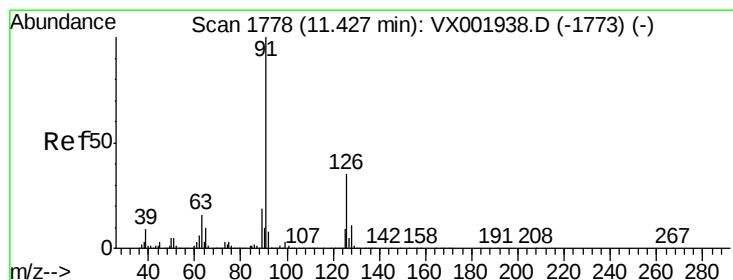
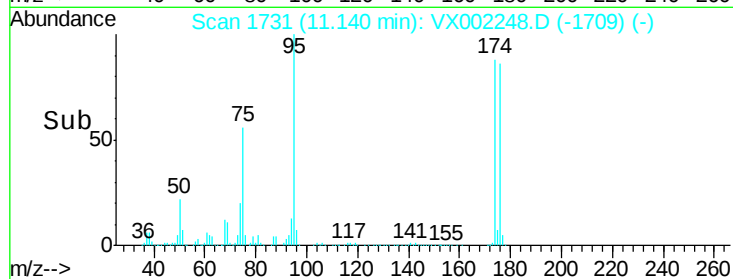
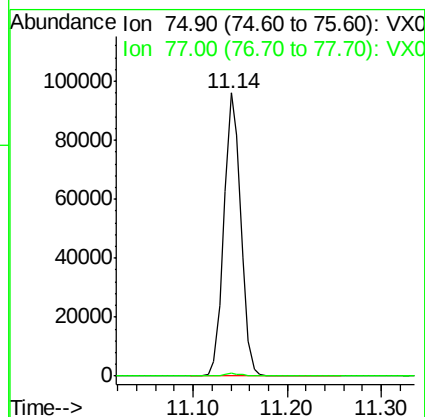
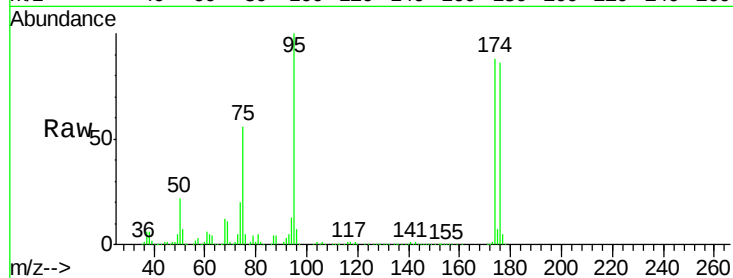
Time-->



#76
 1,2,3-Trichloropropane
 Concen: 30.05 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002248.D
 Acq: 02 Jun 2018 19:11

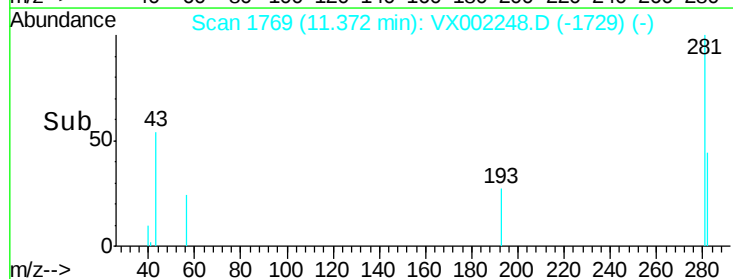
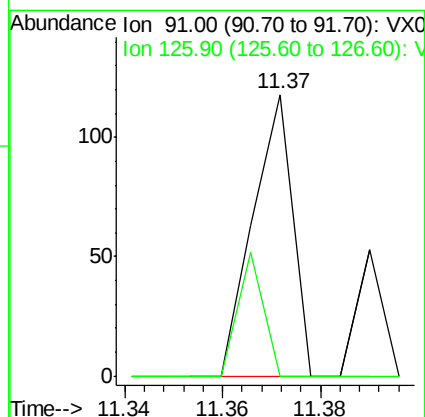
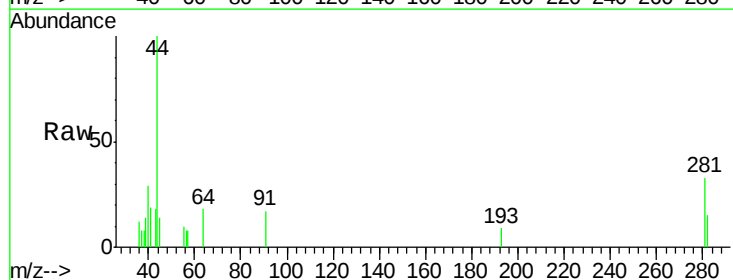
Instrument :
 MSVOA_X
 ClientSampled :
 LF6-0054

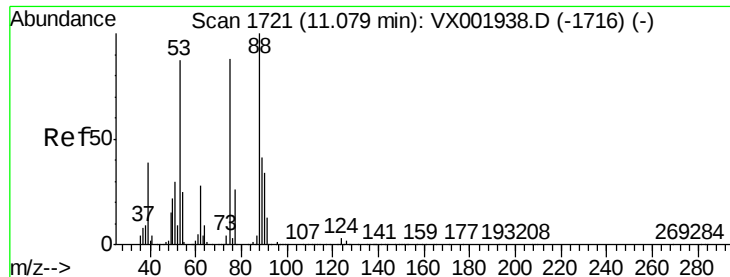
Tot Ion: 75 Resp: 119787
 Ion Ratio Lower Upper
 75 100
 77 1.1 22.8 68.3#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 11.37 min Scan# 1769
 Delta R.T. -0.05 min
 Lab File: VX002248.D
 Acq: 02 Jun 2018 19:11

Tgt Ion: 91 Resp: 66
 Ion Ratio Lower Upper
 91 100
 126 28.8 17.4 52.2





#81

trans-1,4-Dichloro-2-butene

Concen: 72.21 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002248.D

Acq: 02 Jun 2018 19:11

Instrument :

MSVOA_X

ClientSampleId :

LF6-0054

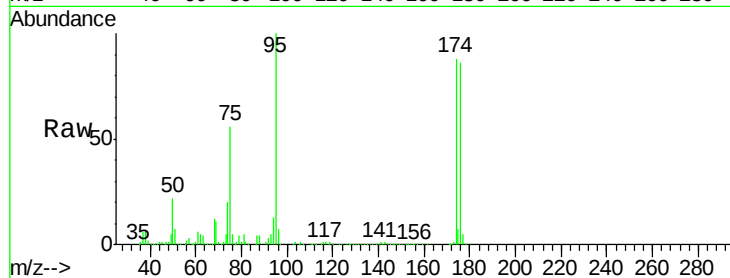
Tot Ion: 75 Resp: 119787

Ion Ratio Lower Upper

75 100

53 0.1 78.0 117.0#

89 0.0 39.4 59.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

