

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090718\
 Data File : VX004408.D
 Acq On : 07 Sep 2018 15:38
 Operator : JC/MD
 Sample : J4812-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB090618

Quant Time: Sep 08 03:22:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	329048	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	522167	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	464069	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	272254	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	222401	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	
35) Dibromofluoromethane	5.50	113	197125	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
50) Toluene-d8	8.71	98	740726	50.52	ug/l	0.00
Spiked Amount			Recovery	=	101.04%	
62) 4-Bromofluorobenzene	11.14	95	260821	47.67	ug/l	0.00
Spiked Amount			Recovery	=	95.34%	

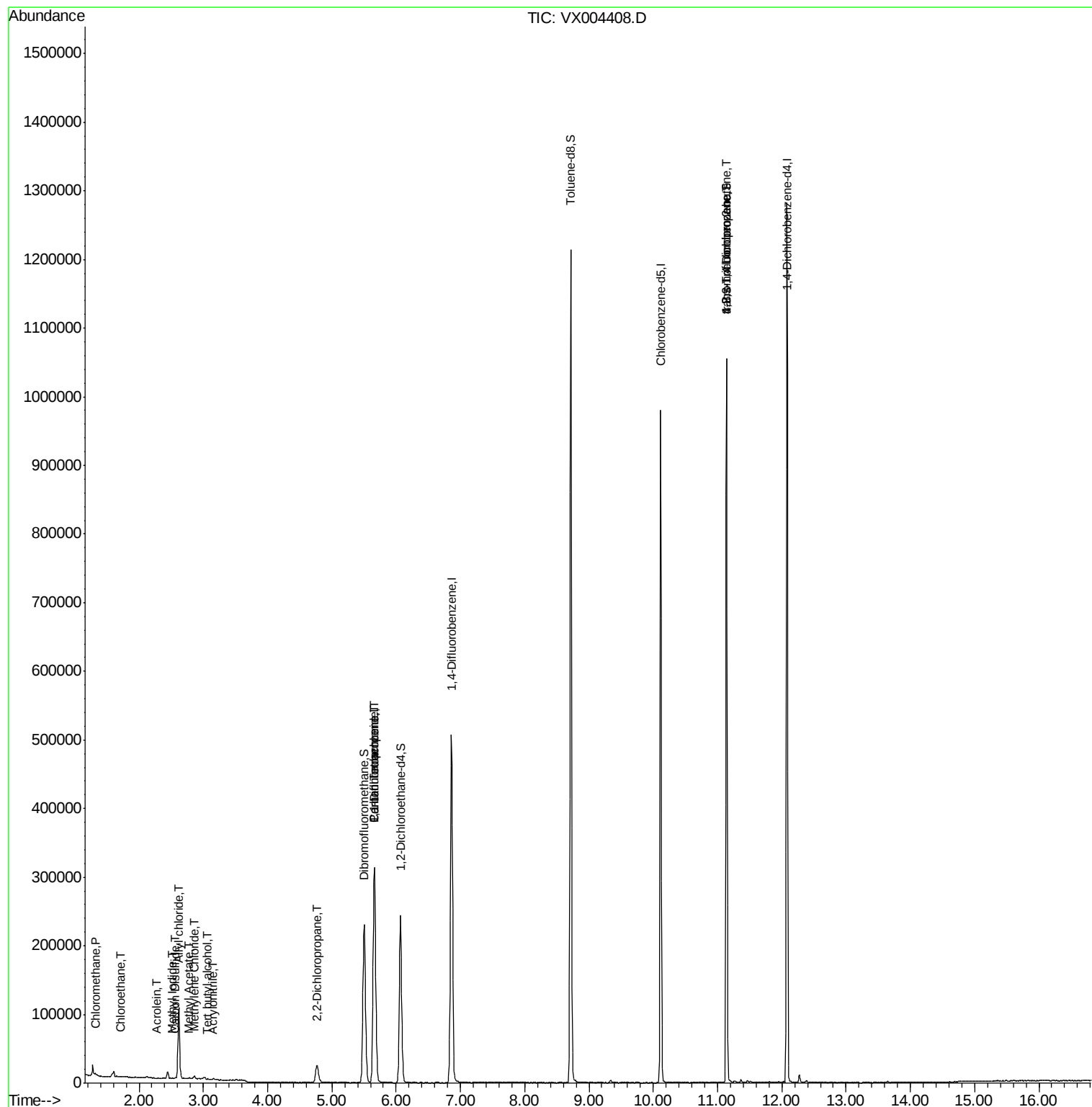
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1152	0.56	ug/l	93
5) Bromomethane	1.64	94	1298	Below Cal		96
6) Chloroethane	1.71	64	1740	1.47	ug/l #	44
10) Methyl Iodide	2.51	142	1039	4.49	ug/l #	95
11) Tert butyl alcohol	3.07	59	993	1.09	ug/l	97
13) Acrolein	2.28	56	144	0.65	ug/l #	34
14) Allyl chloride	2.62	41	9794	1.53	ug/l #	63
15) Acrylonitrile	3.15	53	461	0.20	ug/l #	67
16) Acetone	2.44	43	9733	Below Cal		100
17) Carbon Disulfide	2.56	76	1266	0.93	ug/l #	88
18) Methyl Acetate	2.77	43	1491	0.23	ug/l	97
20) Methylene Chloride	2.85	84	1578	0.38	ug/l #	89
25) 2-Butanone	4.77	43	2424	Below Cal	#	76
26) 2,2-Dichloropropane	4.76	77	2320	0.42	ug/l #	52
36) 1,1-Dichloropropene	5.67	75	21620	3.68	ug/l #	49
38) Carbon Tetrachloride	5.66	117	28188	5.10	ug/l #	16
76) 1,2,3-Trichloropropane	11.14	75	123123	22.24	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	123123	72.15	ug/l #	10
94) Hexachlorobutadiene	13.78	225	219	Below Cal		92

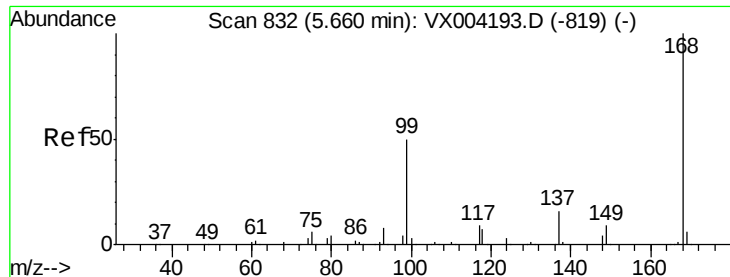
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX004408.D

Acq: 07 Sep 2018 15:38

Instrument :

MSVOA_X

ClientSampled :

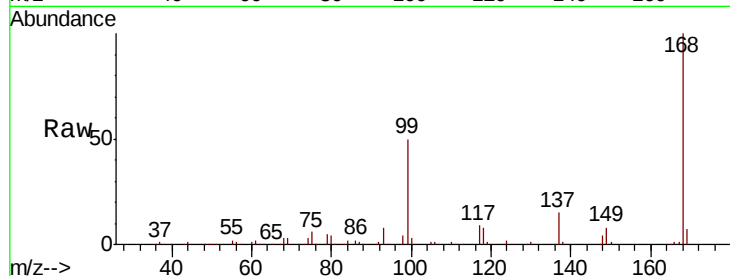
FB090618

Tot Ion:168 Resp: 329048

Ion Ratio Lower Upper

168 100

99 50.1 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

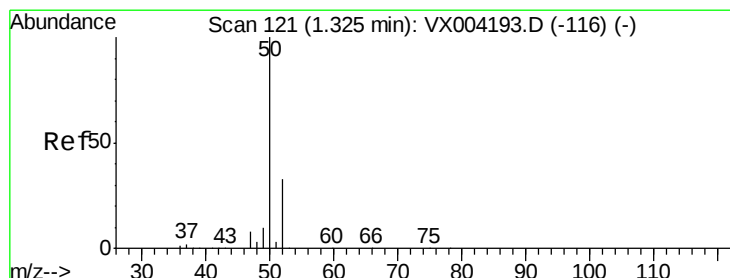
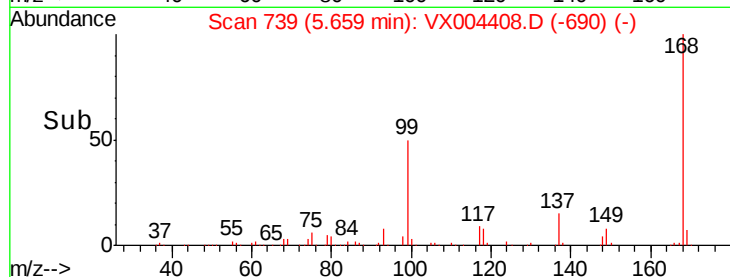
5.66

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.56 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX004408.D

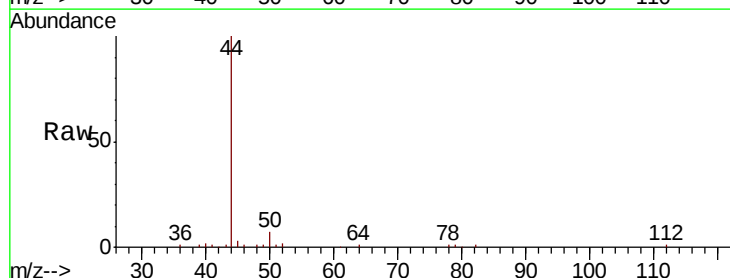
Acq: 07 Sep 2018 15:38

Tgt Ion: 50 Resp: 1152

Ion Ratio Lower Upper

50 100

52 28.8 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

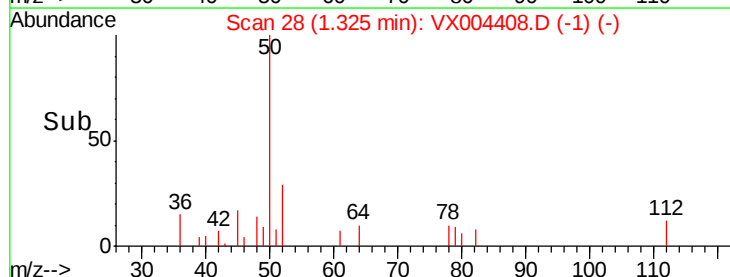
600

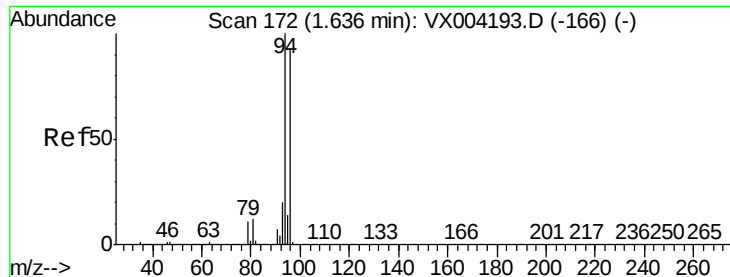
400

200

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX004408.D

Acq: 07 Sep 2018 15:38

Instrument :

MSVOA_X

ClientSampleId :

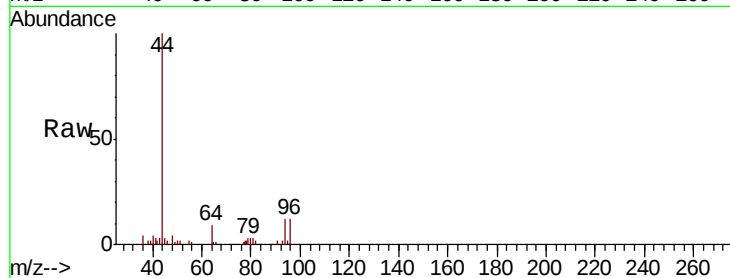
FB090618

Tot Ion: 94 Resp: 1298

Ion Ratio Lower Upper

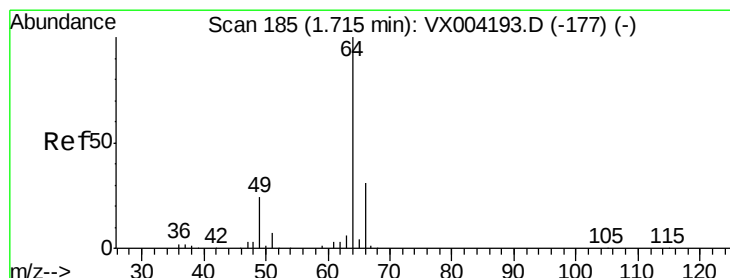
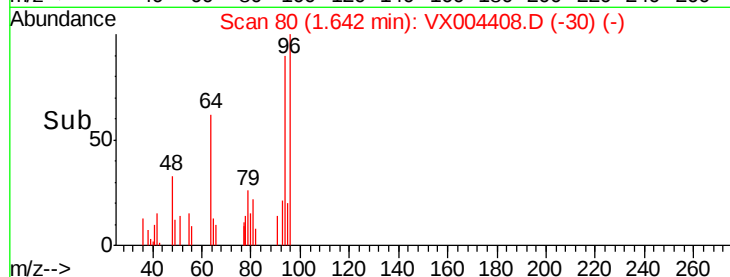
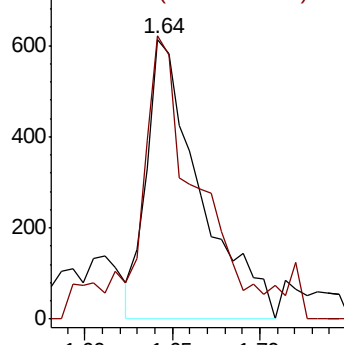
94 100

96 88.9 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.47 ug/l

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX004408.D

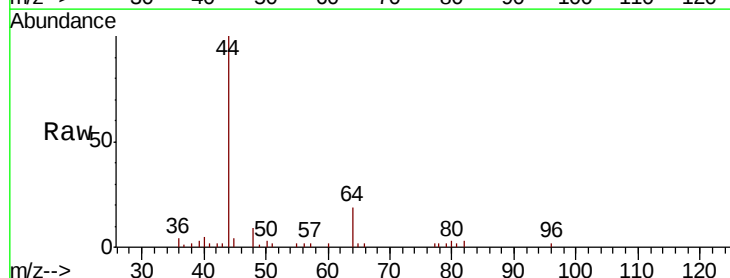
Acq: 07 Sep 2018 15:38

Tgt Ion: 64 Resp: 1740

Ion Ratio Lower Upper

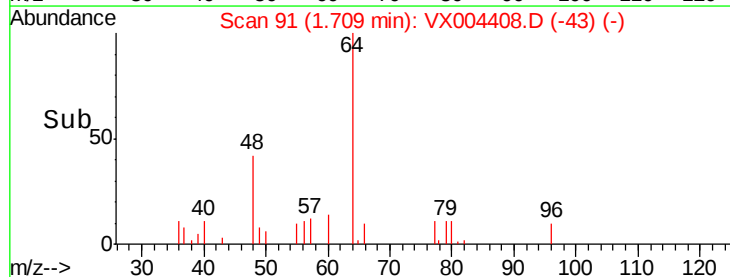
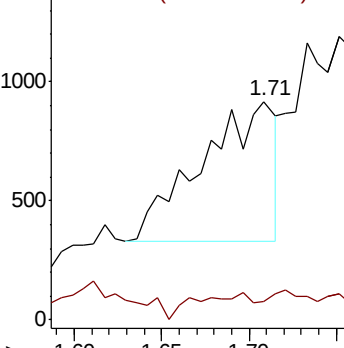
64 100

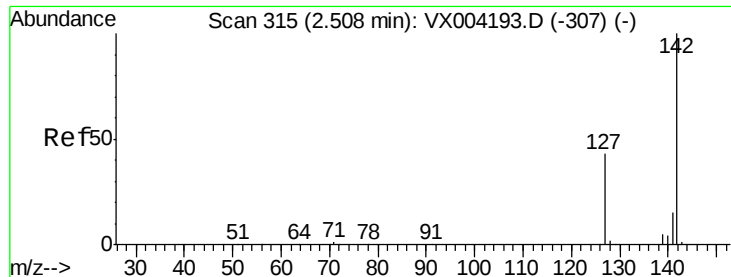
66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

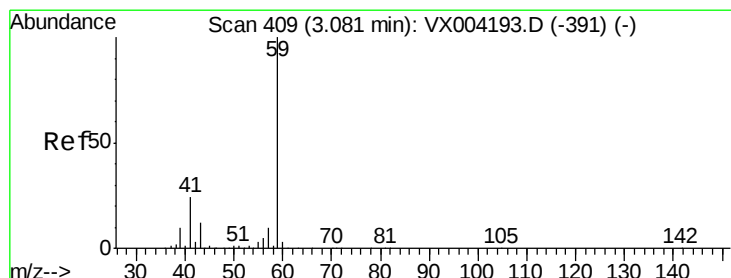
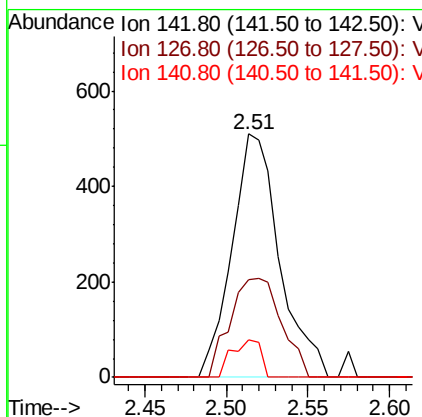
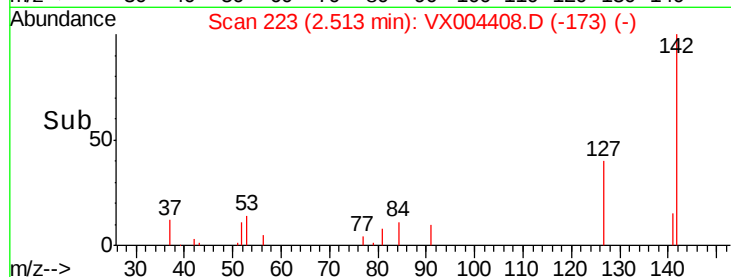
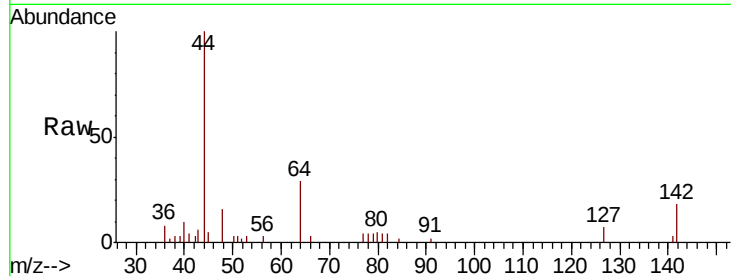




#10
Methvl Iodide
Concen: 4.49 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX004408.D
Acq: 07 Sep 2018 15:38

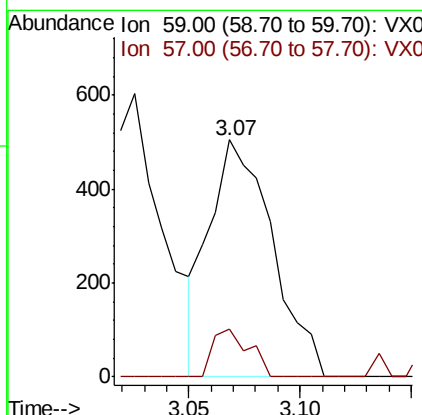
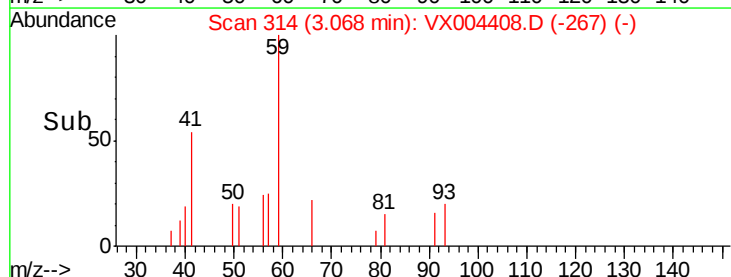
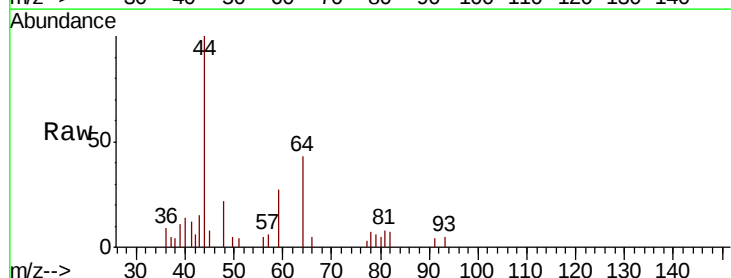
Instrument :
MSVOA_X
ClientSampleId :
FB090618

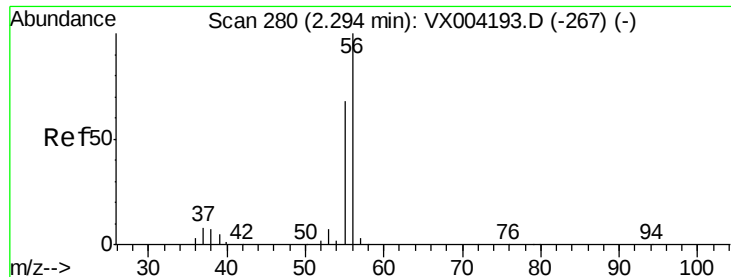
Tot Ion:142 Resp: 1039
Ion Ratio Lower Upper
142 100
127 43.7 33.8 50.6
141 9.2 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.09 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX004408.D
Acq: 07 Sep 2018 15:38

Tgt Ion: 59 Resp: 993
Ion Ratio Lower Upper
59 100
57 11.6 8.2 12.4





#13

Acrolein

Concen: 0.65 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX004408.D

Acq: 07 Sep 2018 15:38

Instrument :

MSVOA_X

ClientSampleId :

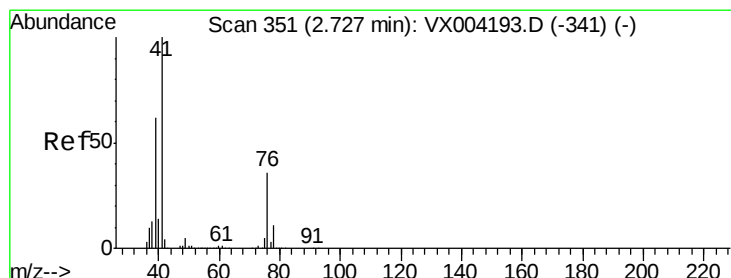
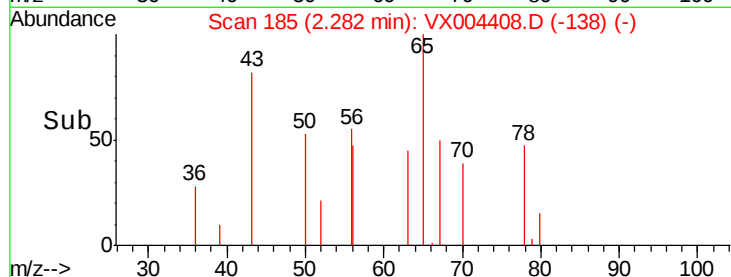
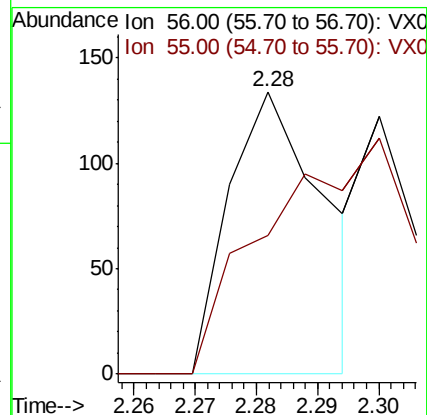
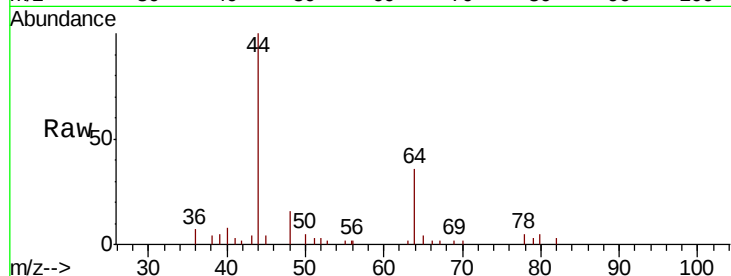
FB090618

Tot Ion: 56 Resp: 144

Ion Ratio Lower Upper

56 100

55 122.2 54.7 82.1#



#14

Allyl chloride

Concen: 1.53 ug/l

RT: 2.62 min Scan# 240

Delta R.T. -0.11 min

Lab File: VX004408.D

Acq: 07 Sep 2018 15:38

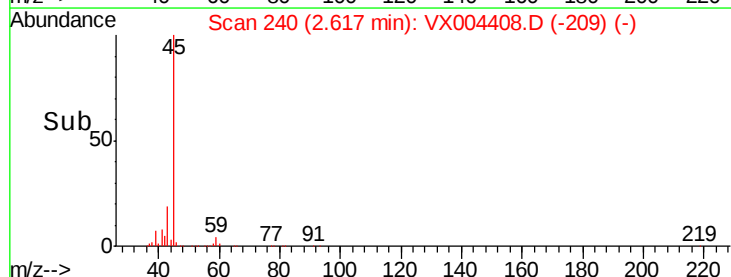
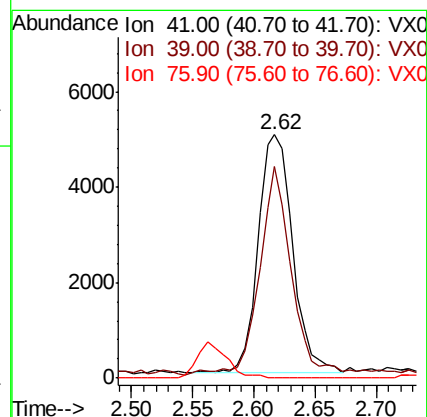
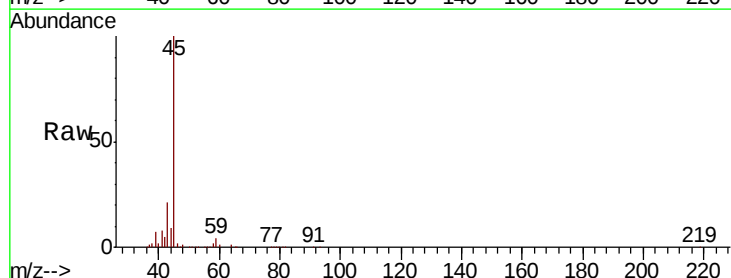
Tgt Ion: 41 Resp: 9794

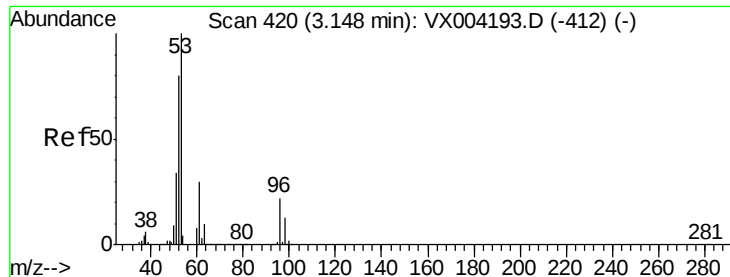
Ion Ratio Lower Upper

41 100

39 80.5 48.9 73.3#

76 0.0 26.7 40.1#





#15

Acrylonitrile

Concen: 0.20 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.00 min

Lab File: VX004408.D

Acq: 07 Sep 2018 15:38

Instrument :

MSVOA_X

ClientSampled :

FB090618

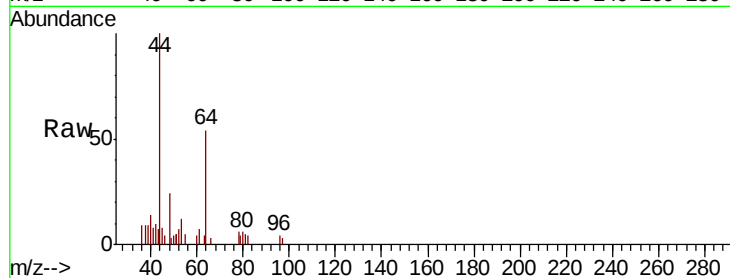
Tot Ion: 53 Resp: 461

Ion Ratio Lower Upper

53 100

52 92.8 65.2 97.8

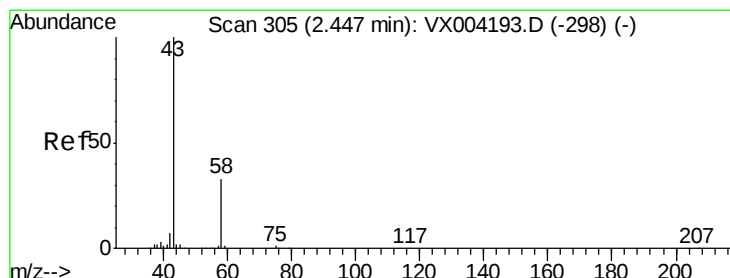
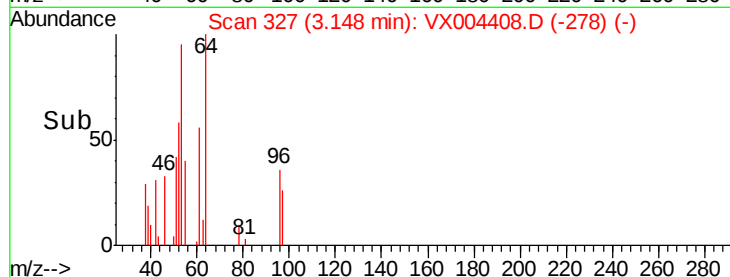
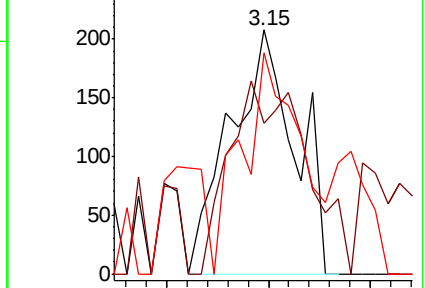
51 82.2 28.2 42.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX004408.D

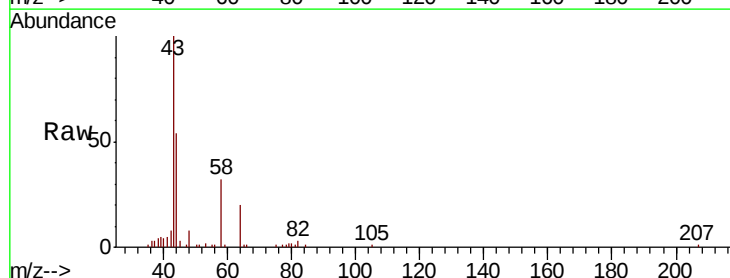
Acq: 07 Sep 2018 15:38

Tgt Ion: 43 Resp: 9733

Ion Ratio Lower Upper

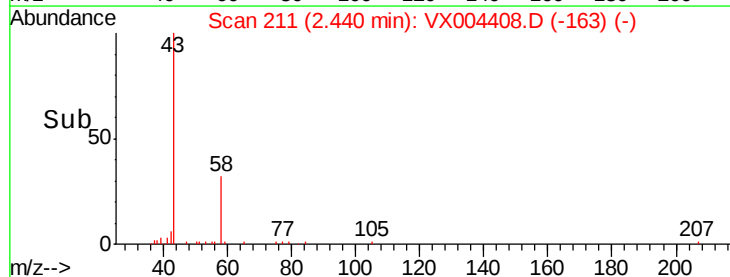
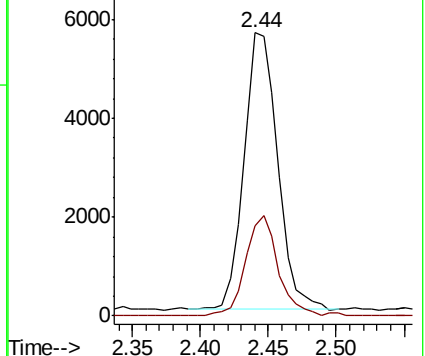
43 100

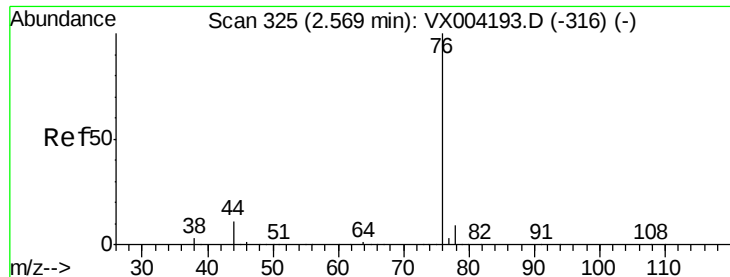
58 32.6 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.93 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX004408.D

Acq: 07 Sep 2018 15:38

Instrument :

MSVOA_X

ClientSampleId :

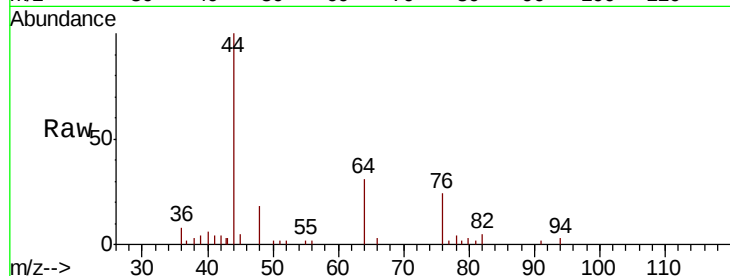
FB090618

Tot Ion: 76 Resp: 1266

Ion Ratio Lower Upper

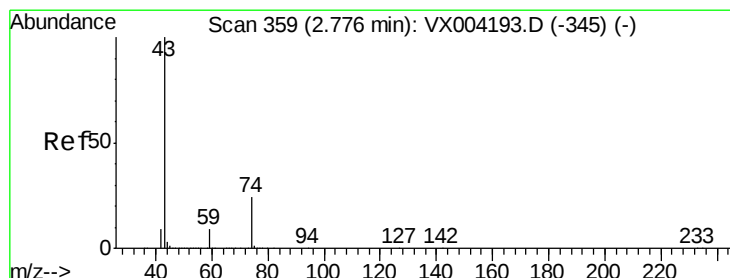
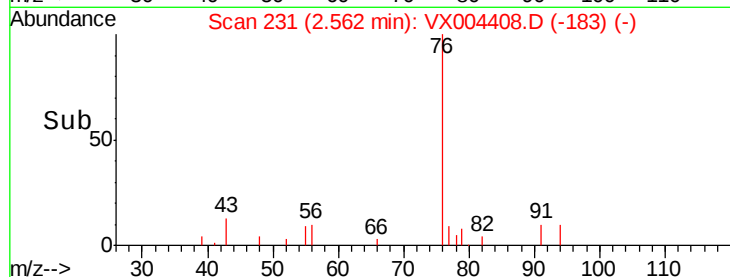
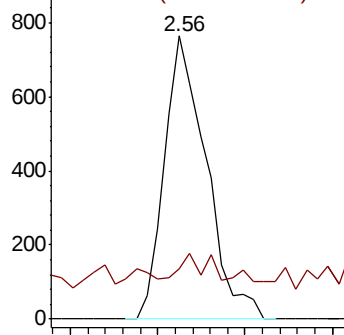
76 100

78 4.6 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.23 ug/l

RT: 2.77 min Scan# 265

Delta R.T. -0.01 min

Lab File: VX004408.D

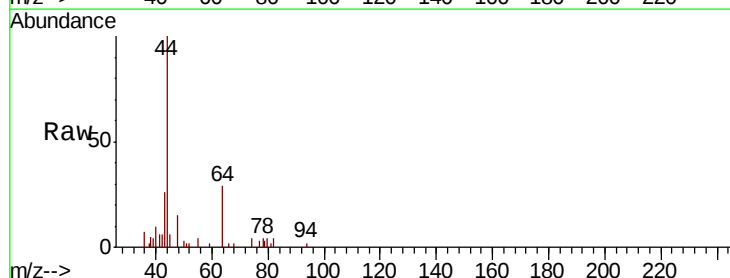
Acq: 07 Sep 2018 15:38

Tgt Ion: 43 Resp: 1491

Ion Ratio Lower Upper

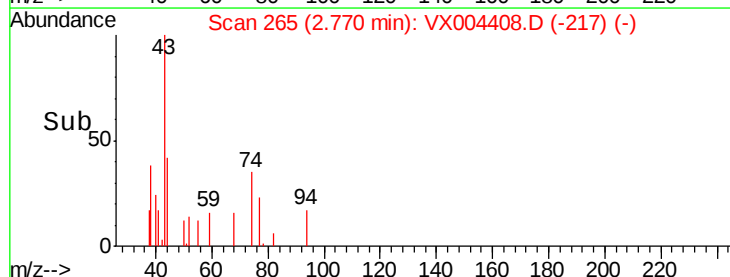
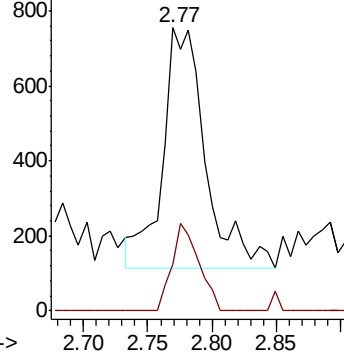
43 100

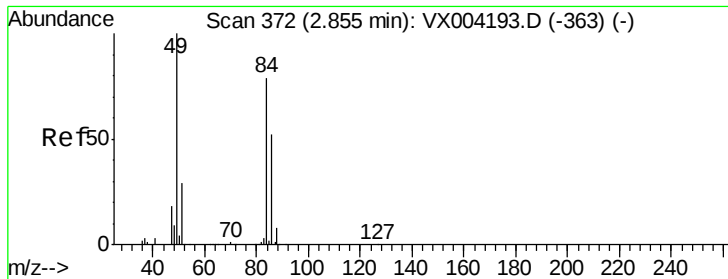
74 22.7 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

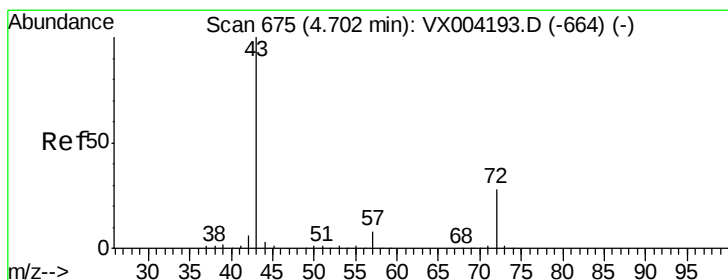
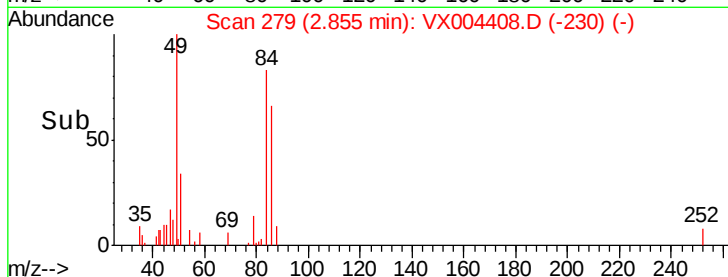
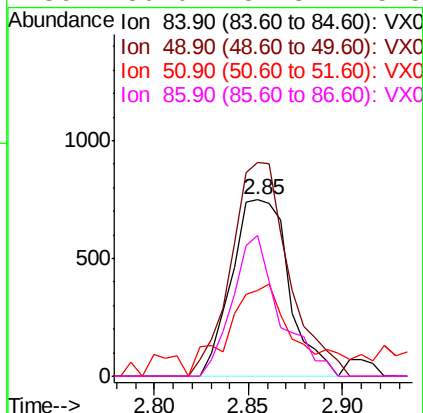
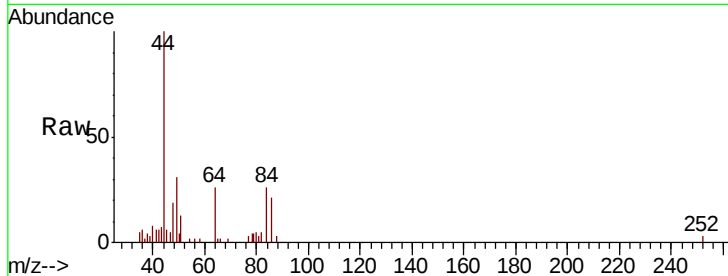




#20
Methvlene Chloride
Concen: 0.38 ua/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004408.D
Acq: 07 Sep 2018 15:38

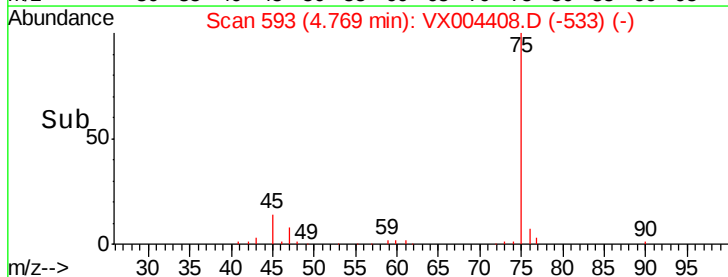
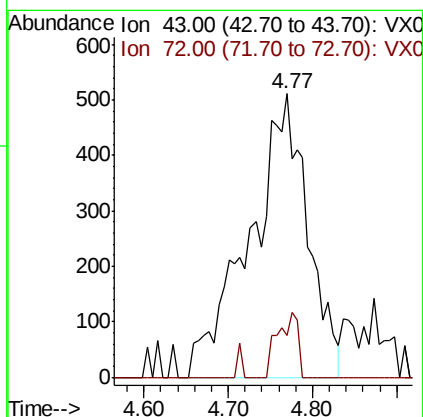
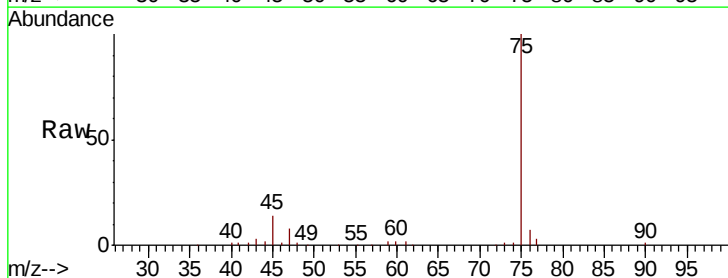
Instrument :
MSVOA_X
ClientSampled :
FB090618

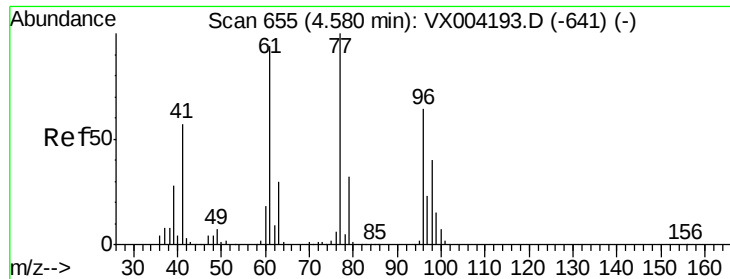
Tot Ion: 84 Resp: 1578
Ion Ratio Lower Upper
84 100
49 121.1 101.2 151.8
51 48.9 29.5 44.3#
86 80.0 52.3 78.5#



#25
2-Butanone
Concen: Below Cal
RT: 4.77 min Scan# 593
Delta R.T. 0.07 min
Lab File: VX004408.D
Acq: 07 Sep 2018 15:38

Tgt Ion: 43 Resp: 2424
Ion Ratio Lower Upper
43 100
72 14.9 22.0 33.0#





#26

2,2-Dichloropropane

Concen: 0.42 ug/l

RT: 4.76 min Scan# 591

Delta R.T. 0.18 min

Lab File: VX004408.D

Acq: 07 Sep 2018 15:38

Instrument :

MSVOA_X

ClientSampleId :

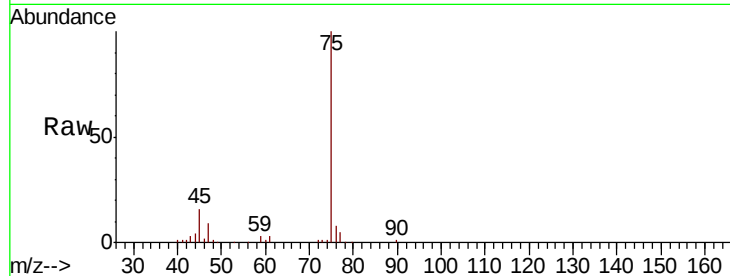
FB090618

Tot Ion: 77 Resp: 2320

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

4.76

800

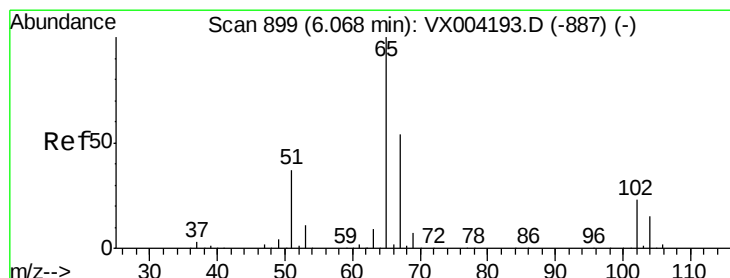
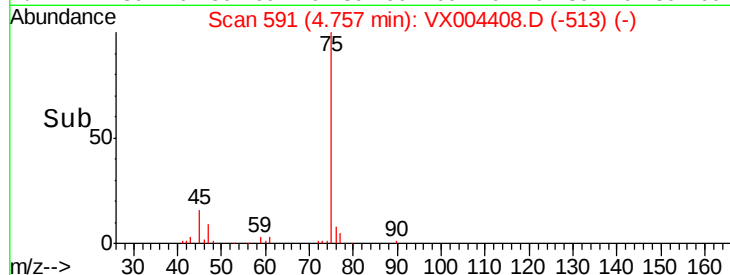
600

400

200

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 51.86 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004408.D

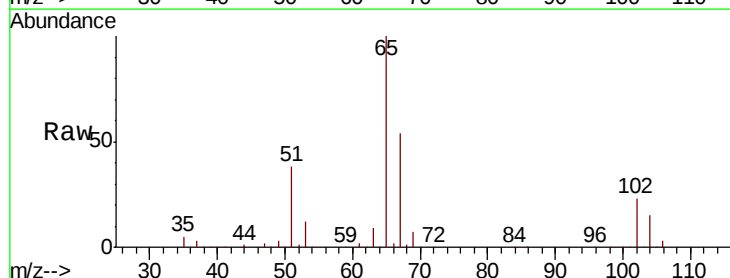
Acq: 07 Sep 2018 15:38

Tgt Ion: 65 Resp: 222401

Ion Ratio Lower Upper

65 100

67 53.6 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

100000

80000

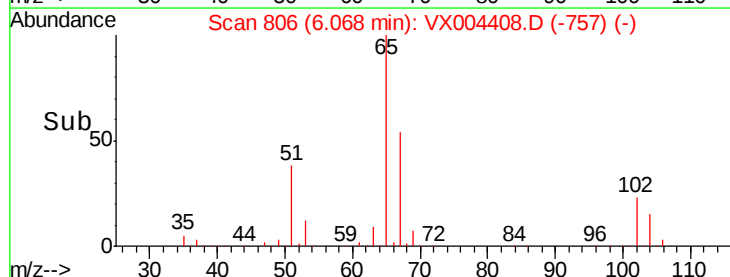
60000

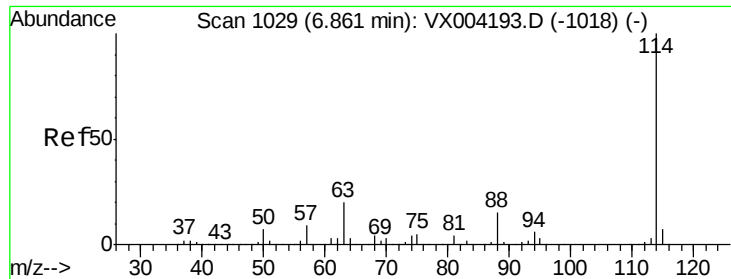
40000

20000

0

Time-->

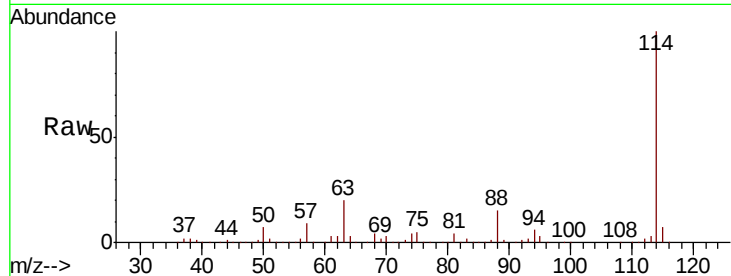




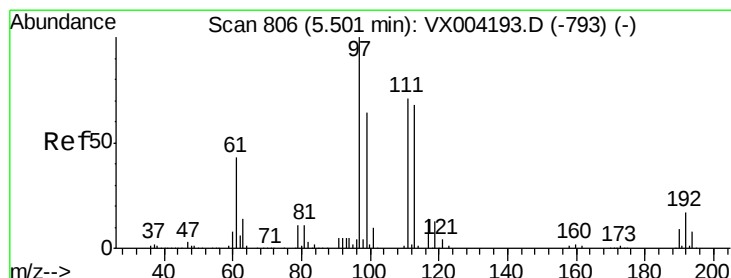
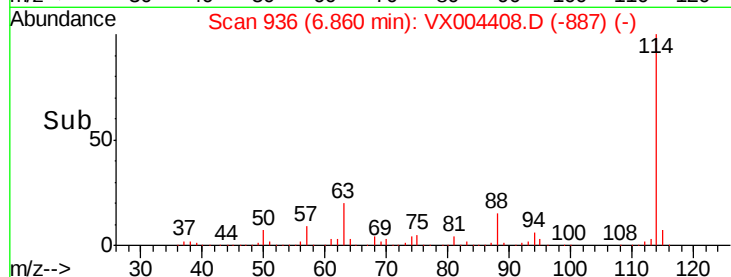
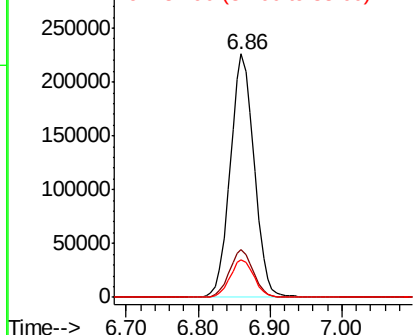
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004408.D
 Acq: 07 Sep 2018 15:38

Instrument :
 MSVOA_X
 ClientSampleId :
 FB090618

Tot Ion:114 Resp: 522167
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.0
 88 15.2 0.0 30.4

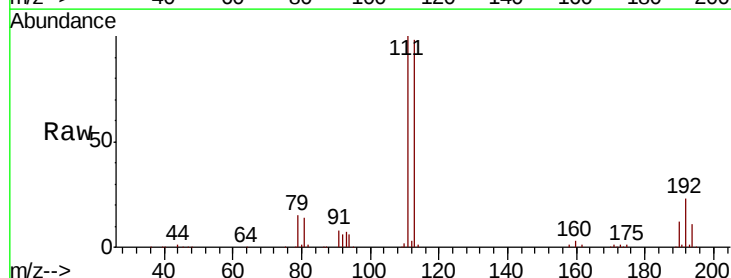


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

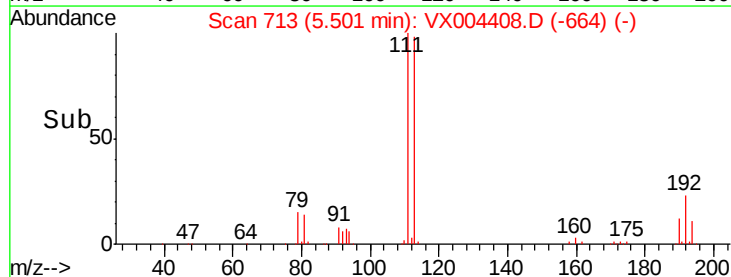
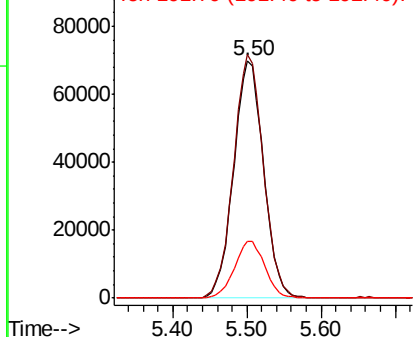


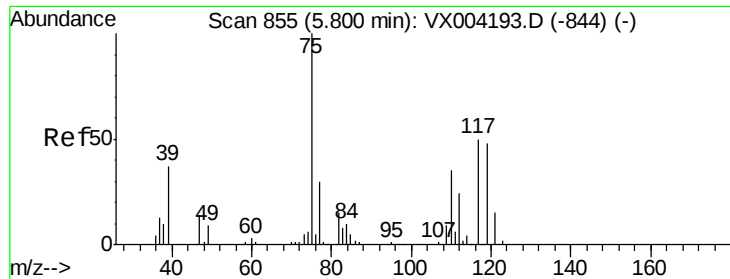
#35
 Dibromofluoromethane
 Concen: 50.75 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004408.D
 Acq: 07 Sep 2018 15:38

Tgt Ion:113 Resp: 197125
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.4 123.6
 192 24.2 19.4 29.2



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

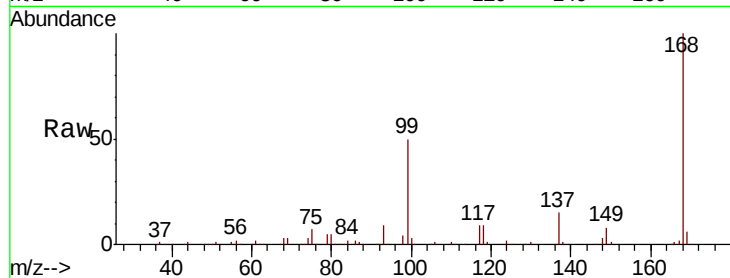




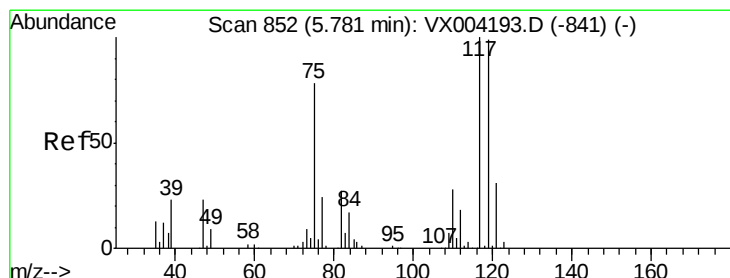
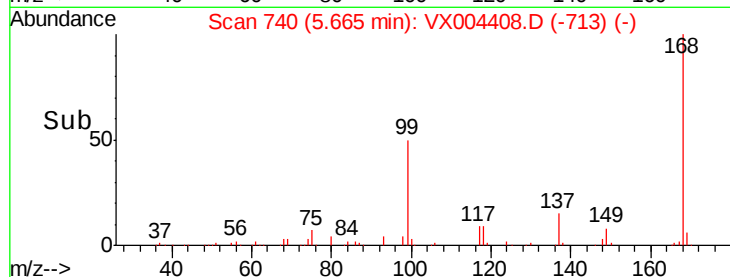
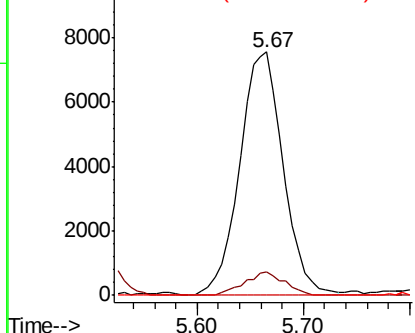
#36
 1,1-Dichloropropene
 Concen: 3.68 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX004408.D
 Acq: 07 Sep 2018 15:38

Instrument :
 MSVOA_X
 ClientSampleId :
 FB090618

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.0	54.0#
77	0.0	24.6	36.8#

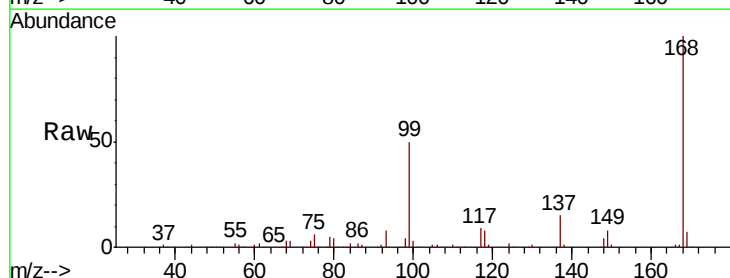


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

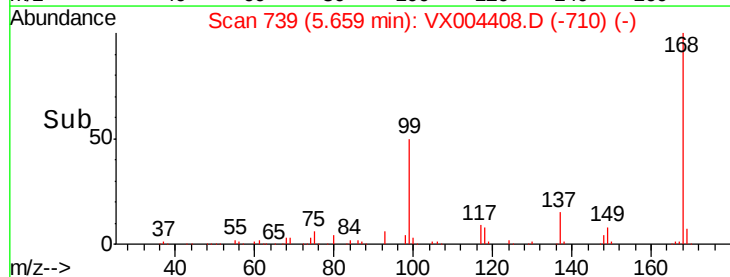
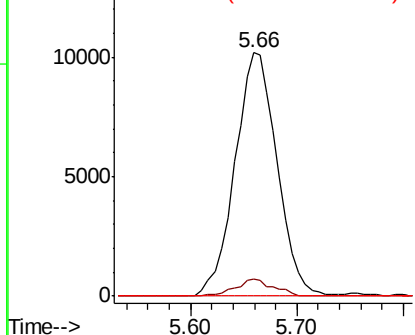


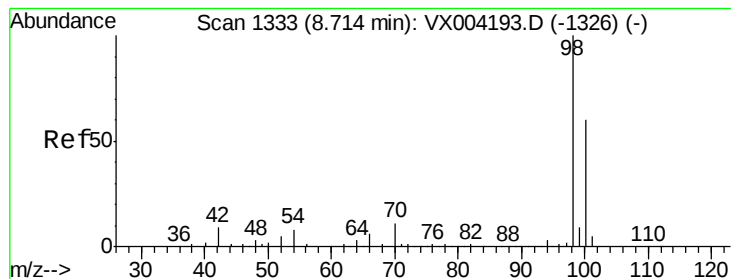
#38
 Carbon Tetrachloride
 Concen: 5.10 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX004408.D
 Acq: 07 Sep 2018 15:38

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.9	78.8	118.2#
121	0.0	24.9	37.3#



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: 50.52 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX004408.D

Acq: 07 Sep 2018 15:38

Instrument :

MSVOA_X

ClientSampleId :

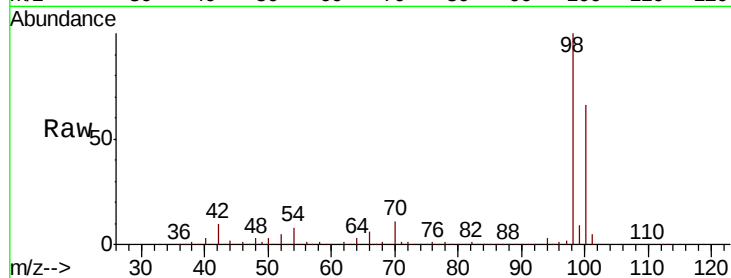
FB090618

Tot Ion: 98 Resp: 740726

Ion Ratio Lower Upper

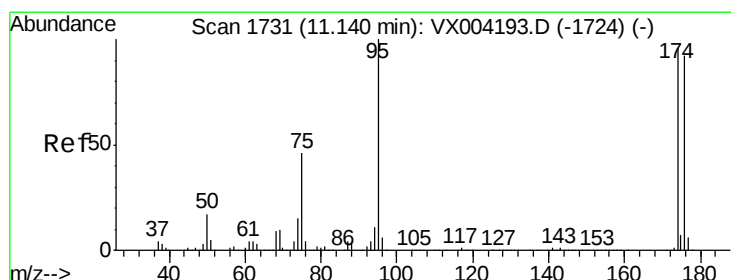
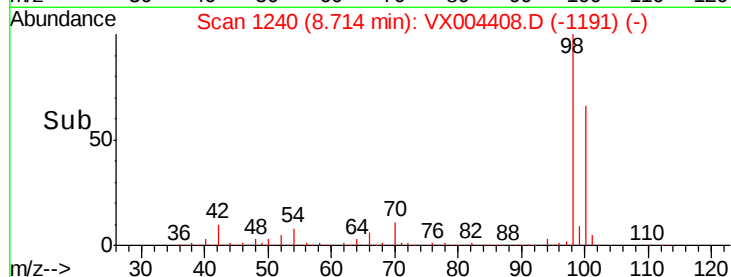
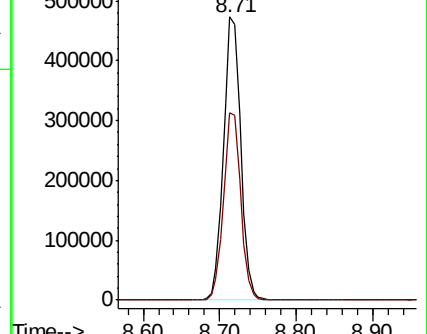
98 100

100 65.9 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 47.67 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004408.D

Acq: 07 Sep 2018 15:38

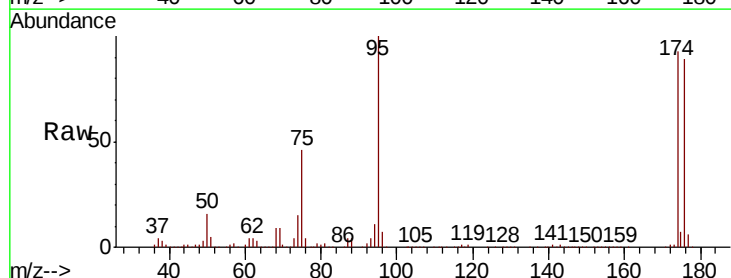
Tgt Ion: 95 Resp: 260821

Ion Ratio Lower Upper

95 100

174 91.2 0.0 185.2

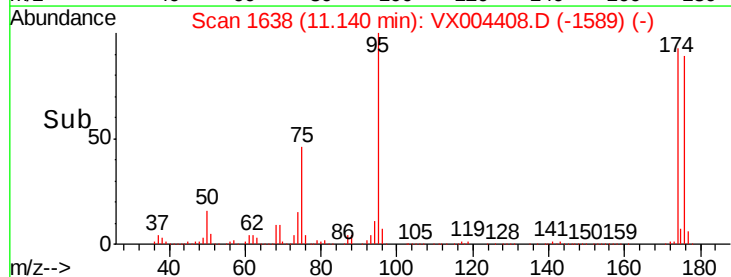
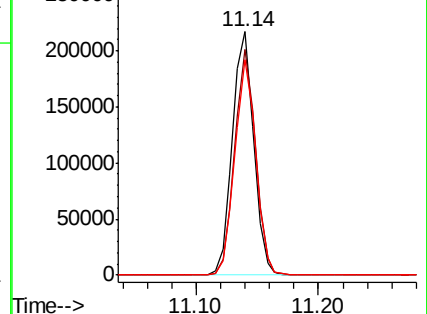
176 87.2 0.0 178.6

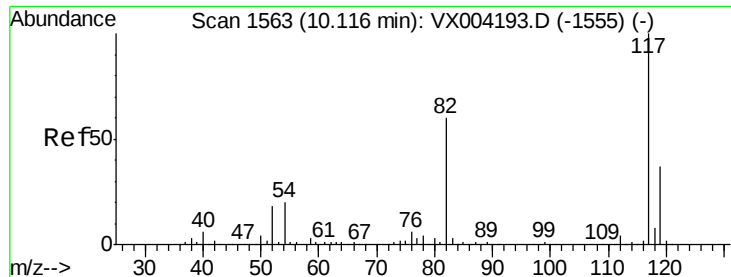


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

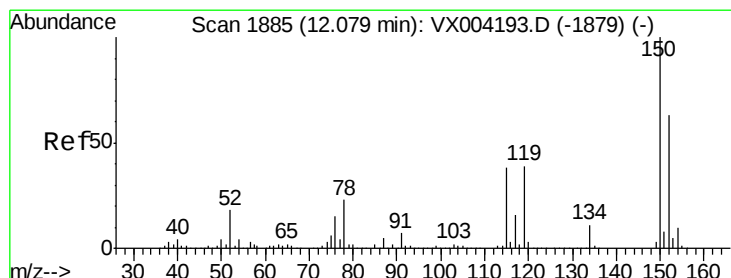
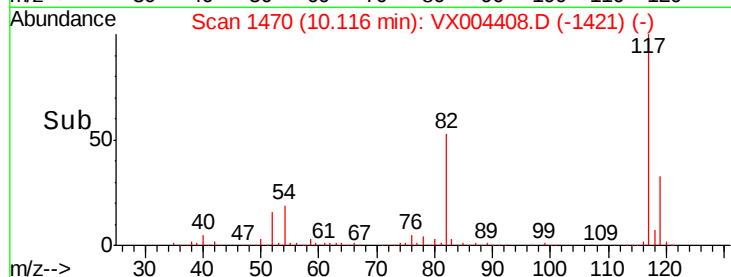
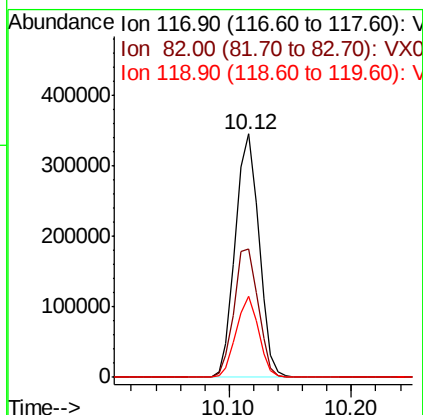
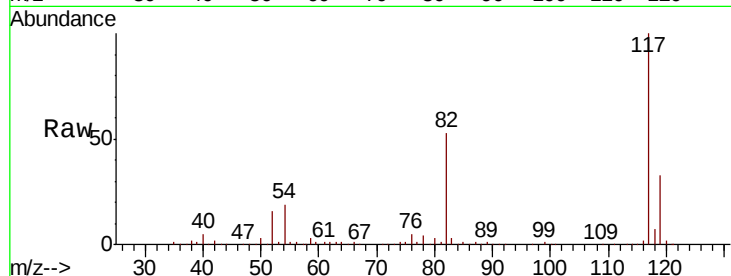




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004408.D
Acq: 07 Sep 2018 15:38

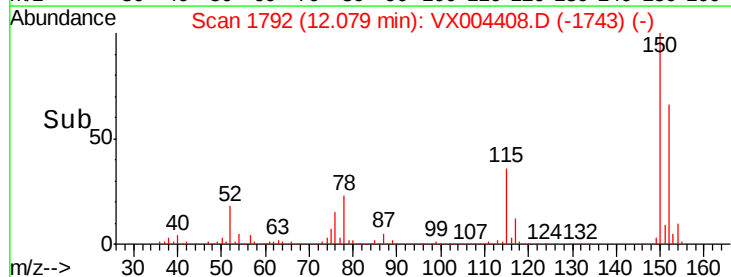
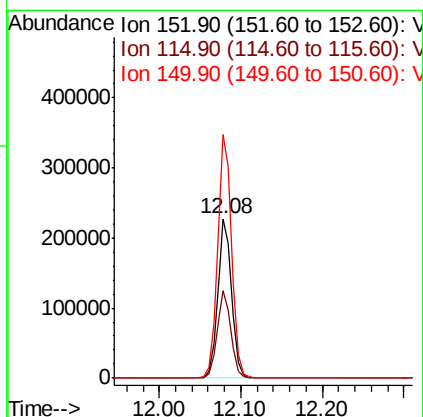
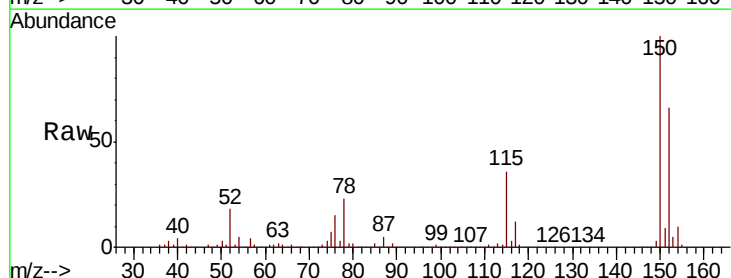
Instrument :
MSVOA_X
ClientSampleId :
FB090618

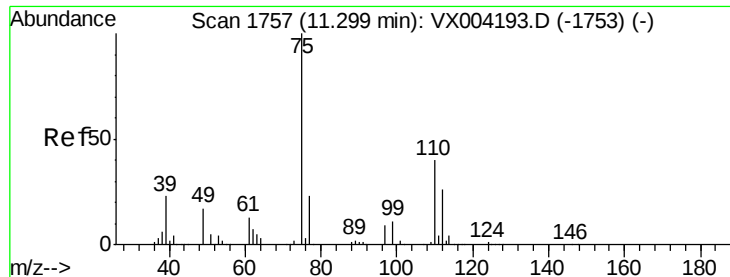
Tot Ion:117 Resp: 464069
Ion Ratio Lower Upper
117 100
82 52.6 47.8 71.6
119 33.4 29.3 43.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004408.D
Acq: 07 Sep 2018 15:38

Tgt Ion:152 Resp: 272254
Ion Ratio Lower Upper
152 100
115 54.7 39.0 117.0
150 155.3 0.0 351.0

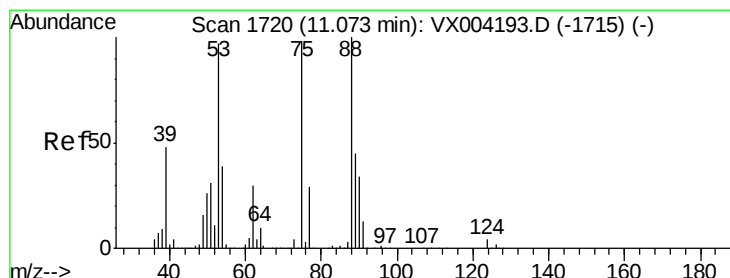
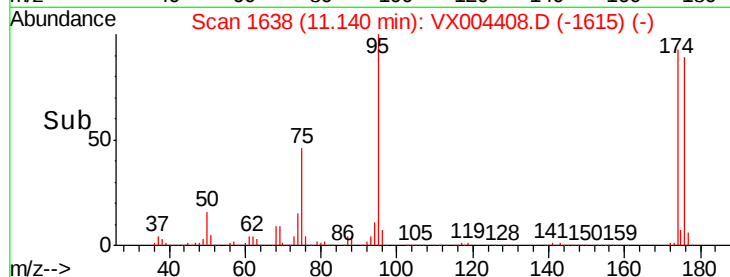
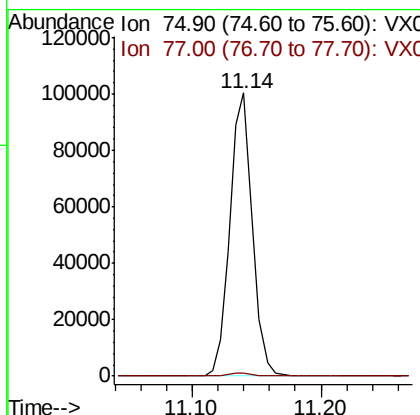
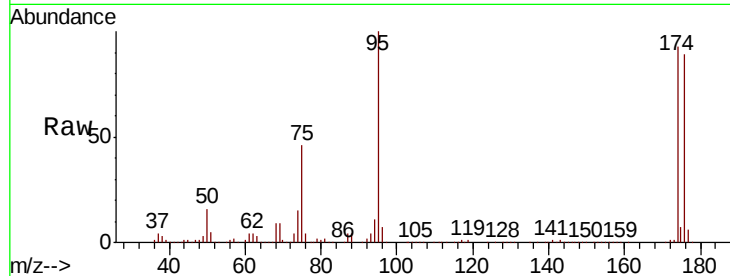




#76
 1,2,3-Trichloropropane
 Concen: 22.24 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.16 min
 Lab File: VX004408.D
 Acq: 07 Sep 2018 15:38

Instrument :
 MSVOA_X
 ClientSampled :
 FB090618

Tot Ion: 75 Resp: 123123
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.2 60.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.15 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX004408.D
 Acq: 07 Sep 2018 15:38

Tgt Ion: 75 Resp: 123123
 Ion Ratio Lower Upper
 75 100
 53 0.2 80.1 120.1#
 89 0.0 37.2 55.8#

