

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX080819\
 Data File : VX011383.D
 Acq On : 08 Aug 2019 11:45
 Operator : JC/SP
 Sample : K4220-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB_080619

Quant Time: Aug 09 04:22:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	149478	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	245110	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	230466	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	102759	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	88379	58.71	ug/l	0.00
Spiked Amount						
			Recovery	=	117.42%	
35) Dibromofluoromethane	5.49	113	79852	49.90	ug/l	0.00
Spiked Amount						
			Recovery	=	99.80%	
50) Toluene-d8	8.71	98	296981	49.16	ug/l	0.00
Spiked Amount						
			Recovery	=	98.32%	
62) 4-Bromofluorobenzene	11.13	95	102107	47.35	ug/l	0.00
Spiked Amount						
			Recovery	=	94.70%	

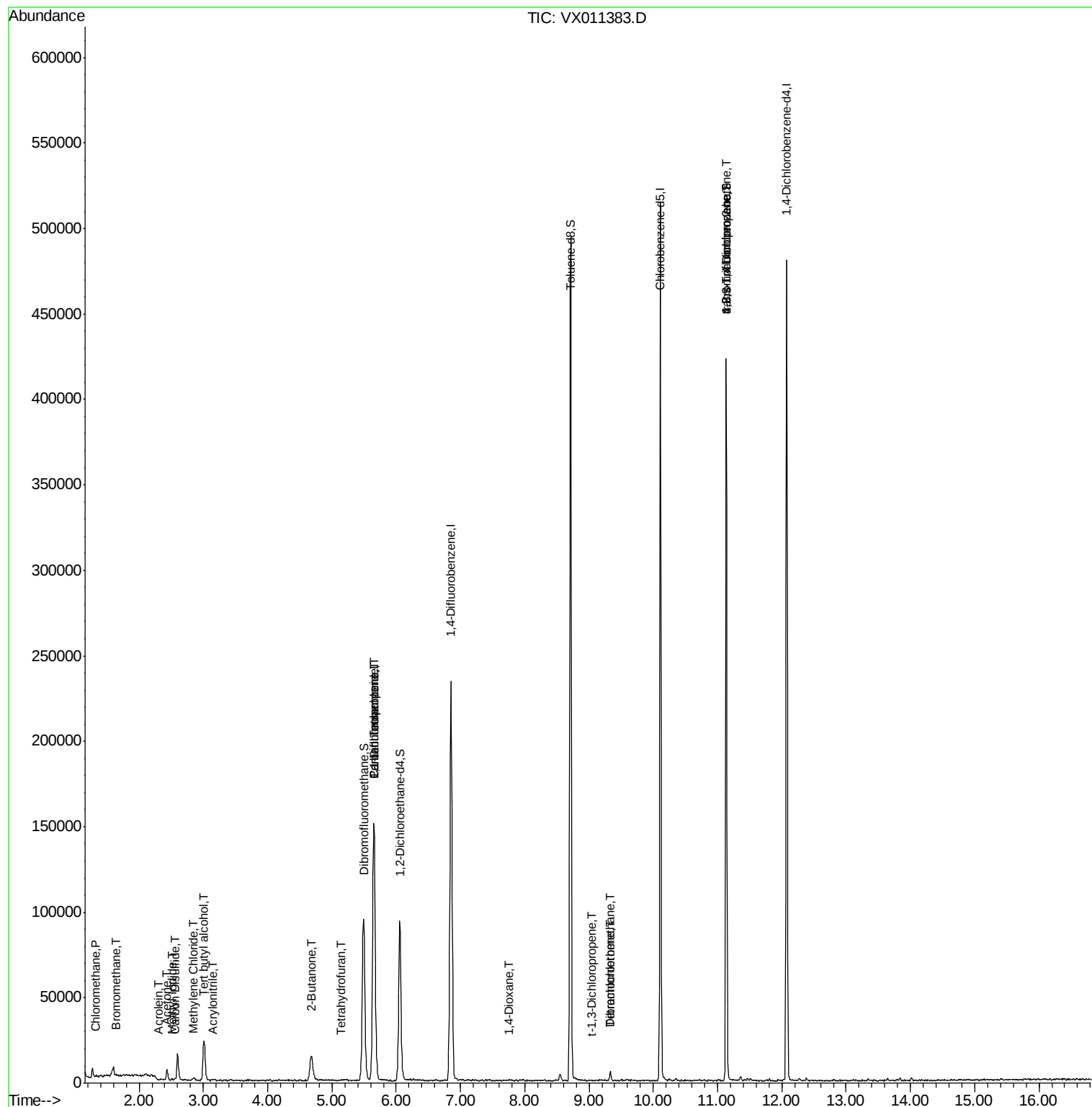
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	496	0.383	ug/l	92
5) Bromomethane	1.64	94	448	0.440	ug/l	95
6) Chloroethane	1.73	64	61	Below Cal	#	34
10) Methyl Iodide	2.52	142	754	0.436	ug/l #	93
11) Tert butyl alcohol	3.01	59	13728	45.752	ug/l #	79
13) Acrolein	2.29	56	165	0.463	ug/l #	46
15) Acrylonitrile	3.15	53	186	0.260	ug/l #	13
16) Acetone	2.43	43	6297	8.789	ug/l	99
17) Carbon Disulfide	2.56	76	748	0.234	ug/l	96
20) Methylene Chloride	2.84	84	658	0.419	ug/l #	72
25) 2-Butanone	4.68	43	741	0.727	ug/l #	77
29) Tetrahydrofuran	5.14	42	400	0.640	ug/l #	33
36) 1,1-Dichloropropene	5.65	75	10485	4.899	ug/l #	50
38) Carbon Tetrachloride	5.65	117	14295	6.639	ug/l #	16
49) 1,4-Dioxane	7.75	88	32	0.683	ug/l #	1
53) t-1,3-Dichloropropene	9.04	75	53	2.859	ug/l #	43
60) Dibromochloromethane	9.33	129	748	0.421	ug/l #	10
64) Tetrachloroethene	9.34	164	820	0.419	ug/l #	84
76) 1,2,3-Trichloropropane	11.13	75	51502	27.521	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	51502	71.362	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011383.D

Acq: 08 Aug 2019 11:45

Instrument :

MSVOA_X

ClientSampleId :

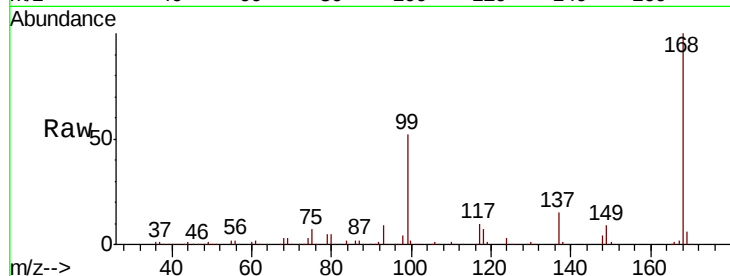
FB_080619

Tgt Ion:168 Resp: 149478

Ion Ratio Lower Upper

168 100

99 51.6 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): VX011262.D (-726) (-)

Ion 98.90 (98.60 to 99.60): VX011262.D (-726) (-)

5.65

60000

50000

40000

30000

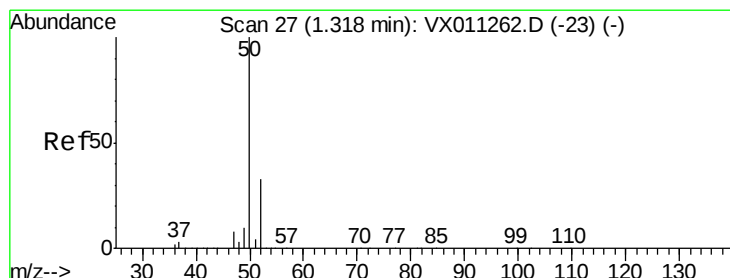
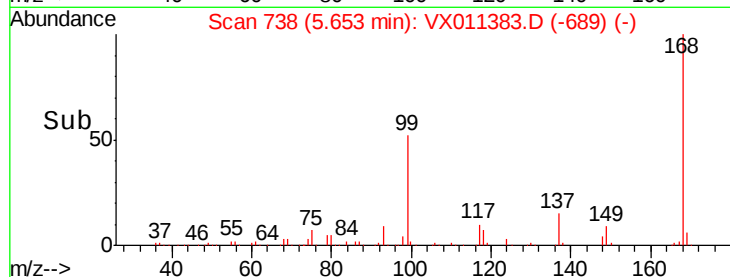
20000

10000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.383 ug/l

RT: 1.32 min Scan# 27

Delta R.T. 0.00 min

Lab File: VX011383.D

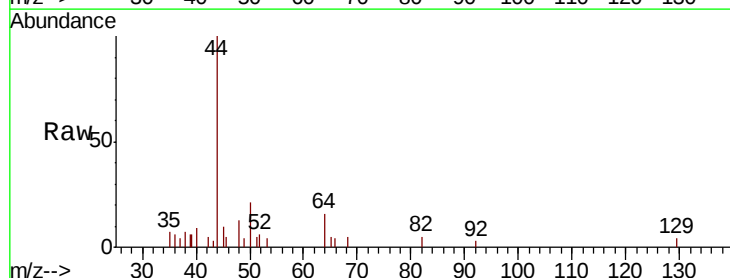
Acq: 08 Aug 2019 11:45

Tgt Ion: 50 Resp: 496

Ion Ratio Lower Upper

50 100

52 28.7 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX011262.D (-23) (-)

Ion 51.90 (51.60 to 52.60): VX011262.D (-23) (-)

1.32

400

300

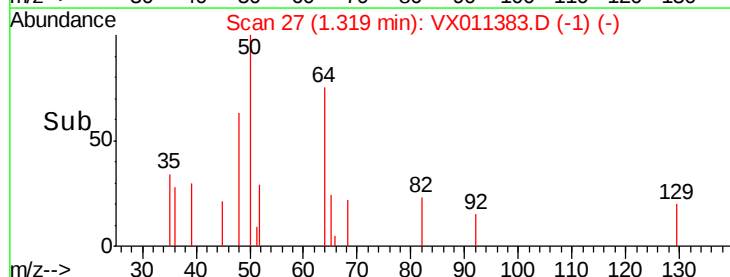
200

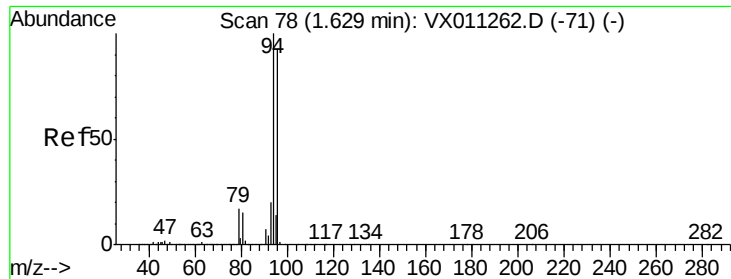
100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 0.440 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.01 min

Lab File: VX011383.D

Acq: 08 Aug 2019 11:45

Instrument :

MSVOA_X

ClientSampled :

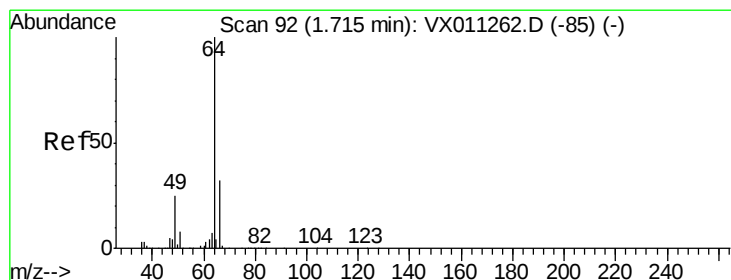
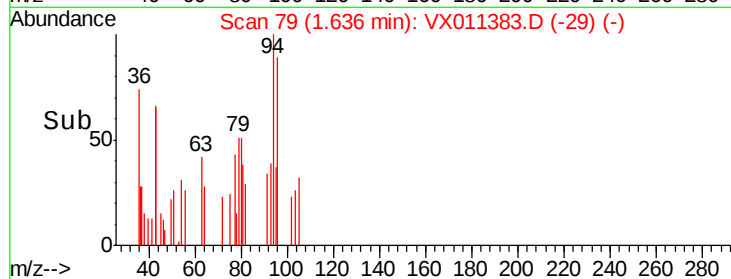
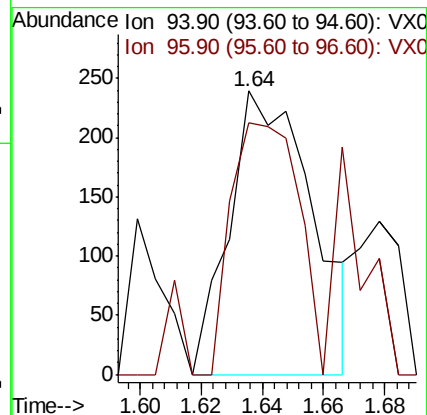
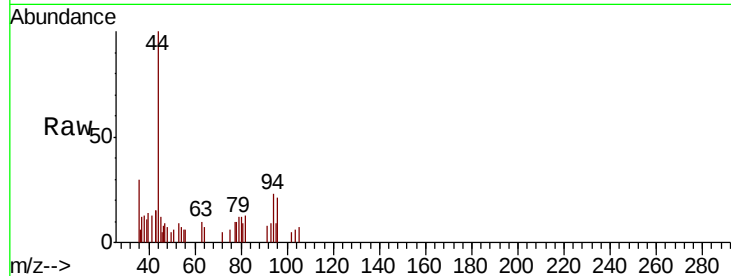
FB_080619

Tgt Ion: 94 Resp: 448

Ion Ratio Lower Upper

94 100

96 88.7 74.6 112.0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX011383.D

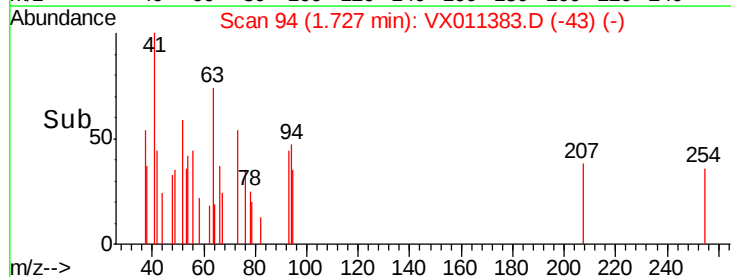
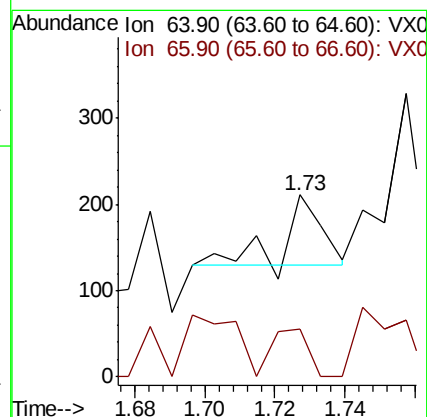
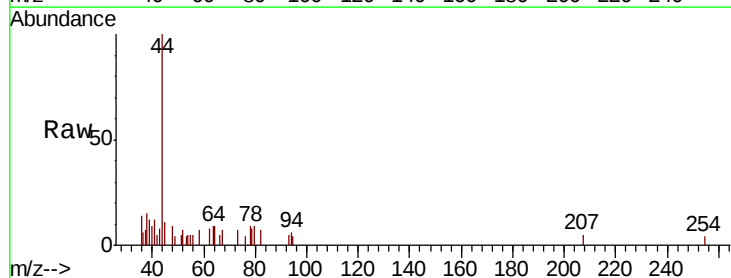
Acq: 08 Aug 2019 11:45

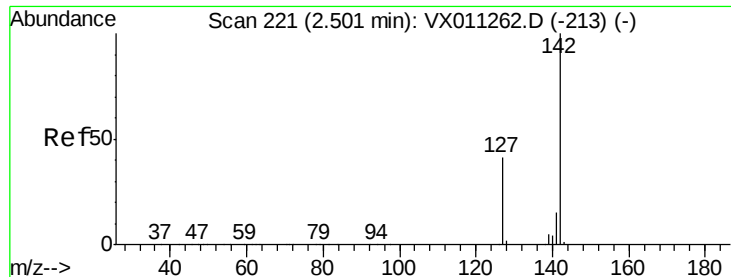
Tgt Ion: 64 Resp: 61

Ion Ratio Lower Upper

64 100

66 67.9 25.1 37.7#

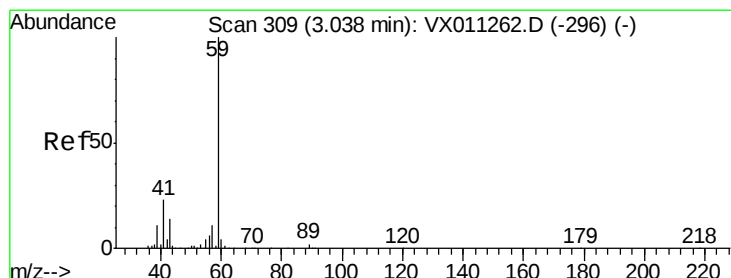
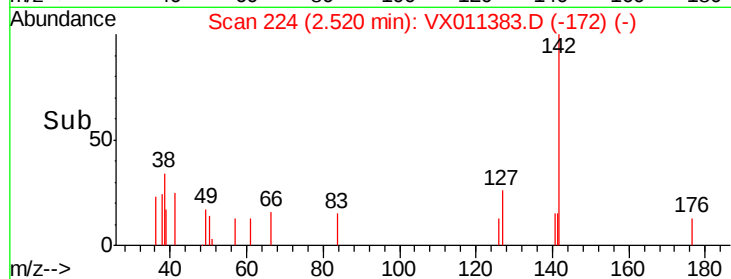
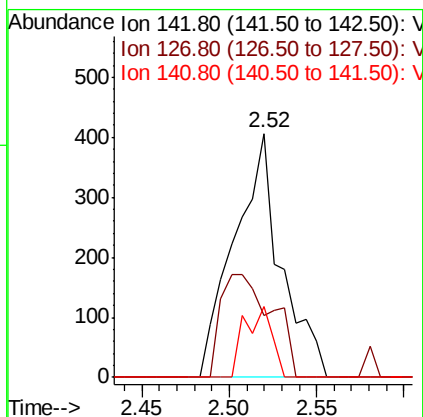
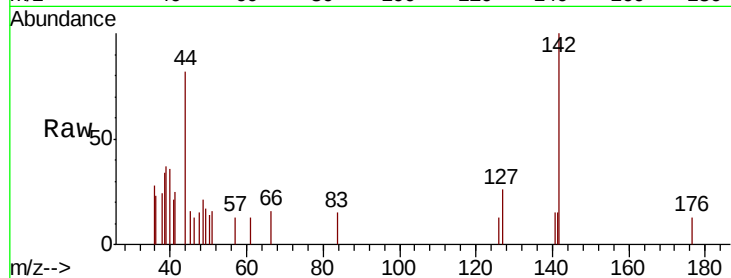




#10
Methyl Iodide
Concen: 0.436 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.02 min
Lab File: VX011383.D
Acq: 08 Aug 2019 11:45

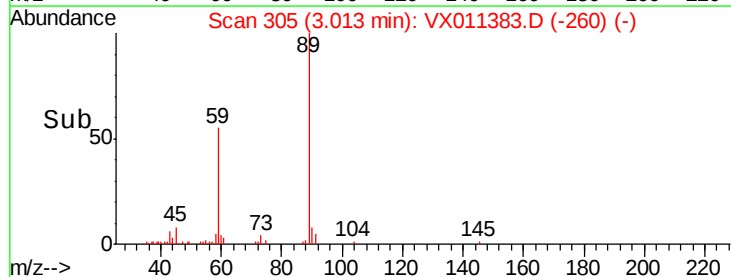
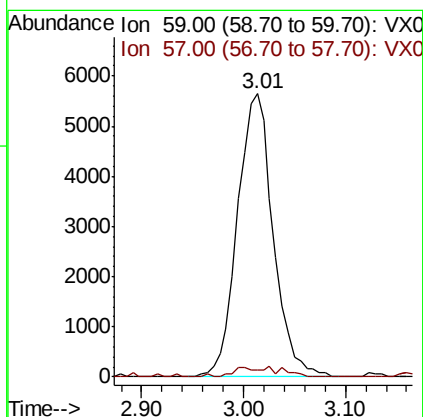
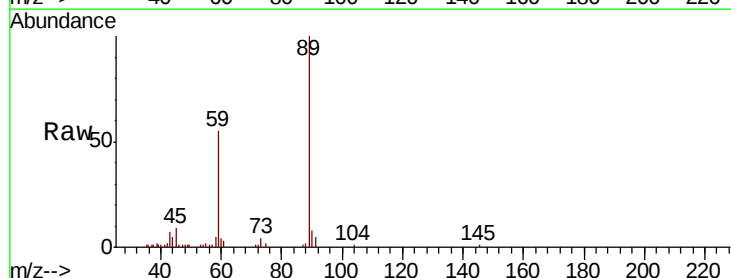
Instrument :
MSVOA_X
ClientSampled :
FB_080619

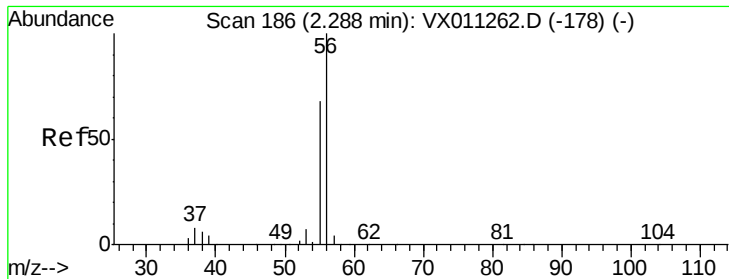
Tgt Ion:142 Resp: 754
Ion Ratio Lower Upper
142 100
127 46.3 33.8 50.8
141 17.4 11.4 17.2#



#11
Tert butyl alcohol
Concen: 45.752 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.02 min
Lab File: VX011383.D
Acq: 08 Aug 2019 11:45

Tgt Ion: 59 Resp: 13728
Ion Ratio Lower Upper
59 100
57 2.5 8.3 12.5#





#13

Acrolein

Concen: 0.463 ug/l

RT: 2.29 min Scan# 186

Delta R.T. 0.00 min

Lab File: VX011383.D

Acq: 08 Aug 2019 11:45

Instrument :

MSVOA_X

ClientSampled :

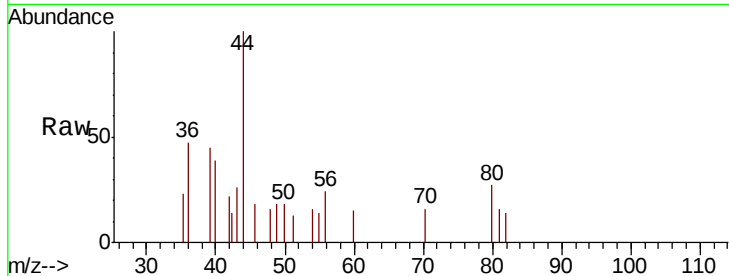
FB_080619

Tgt Ion: 56 Resp: 165

Ion Ratio Lower Upper

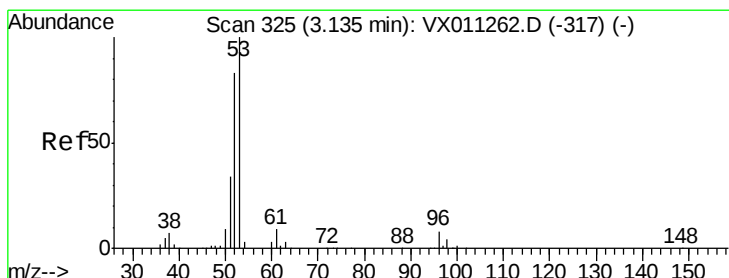
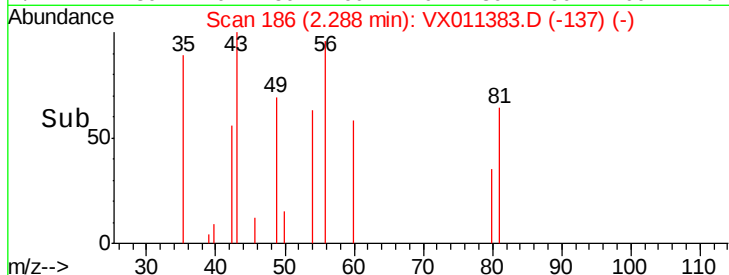
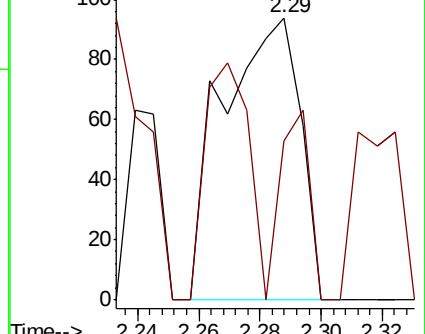
56 100

55 25.5 56.0 84.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.260 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX011383.D

Acq: 08 Aug 2019 11:45

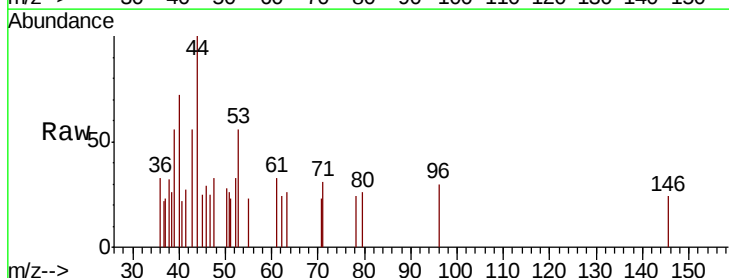
Tgt Ion: 53 Resp: 186

Ion Ratio Lower Upper

53 100

52 0.0 65.5 98.3#

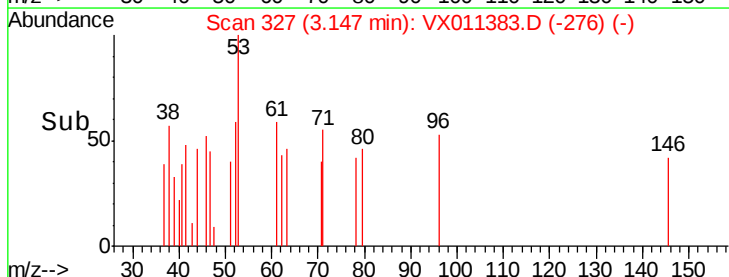
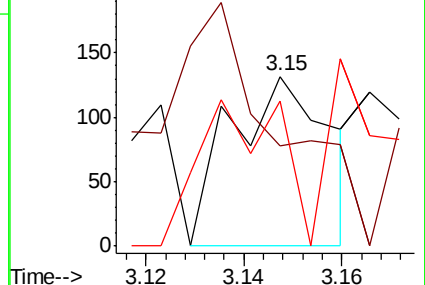
51 78.5 27.9 41.9#

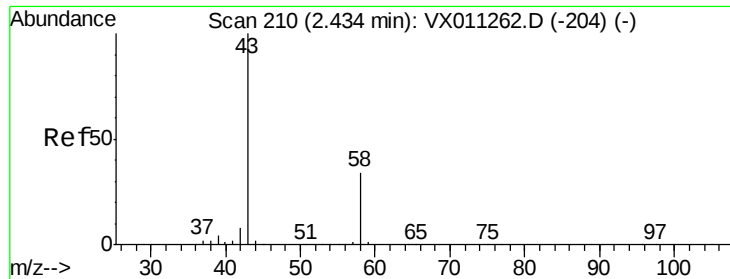


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 8.789 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011383.D

Acq: 08 Aug 2019 11:45

Instrument :

MSVOA_X

ClientSampleId :

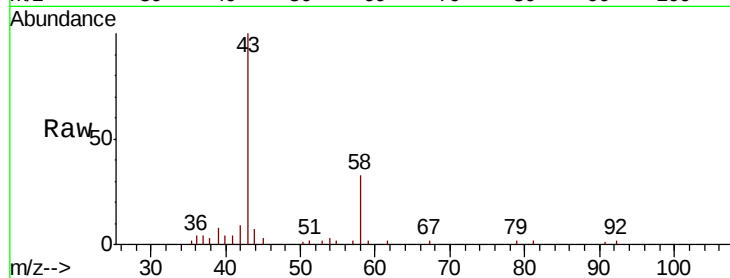
FB_080619

Tgt Ion: 43 Resp: 6297

Ion Ratio Lower Upper

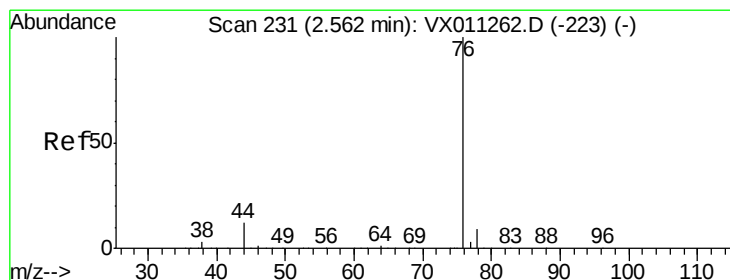
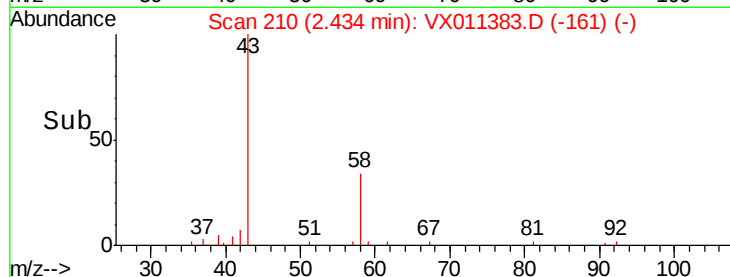
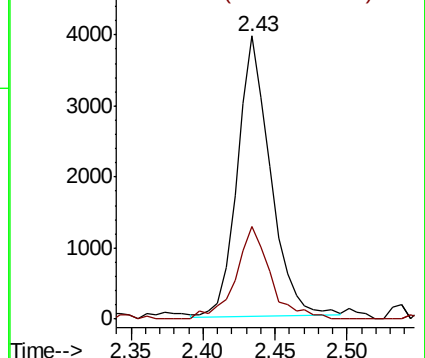
43 100

58 33.4 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.234 ug/l

RT: 2.56 min Scan# 231

Delta R.T. 0.00 min

Lab File: VX011383.D

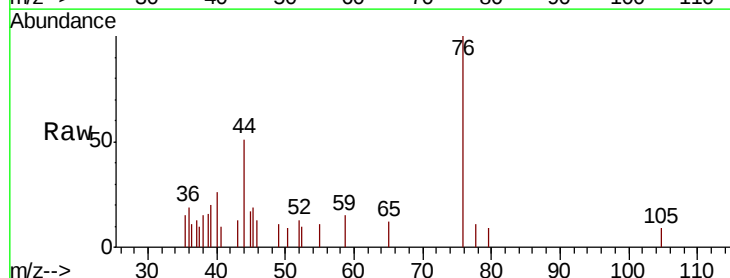
Acq: 08 Aug 2019 11:45

Tgt Ion: 76 Resp: 748

Ion Ratio Lower Upper

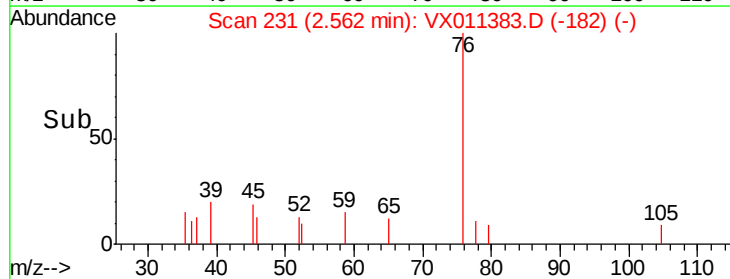
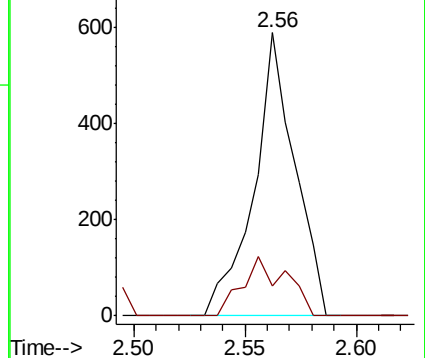
76 100

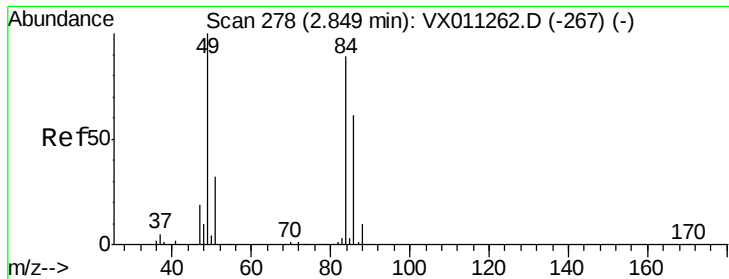
78 10.7 7.4 11.0



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#20

Methylene Chloride

Concen: 0.419 ug/l

RT: 2.84 min Scan# 277

Delta R.T. -0.01 min

Lab File: VX011383.D

Acq: 08 Aug 2019 11:45

Instrument :

MSVOA_X

ClientSampleId :

FB_080619

Tgt Ion: 84 Resp: 658

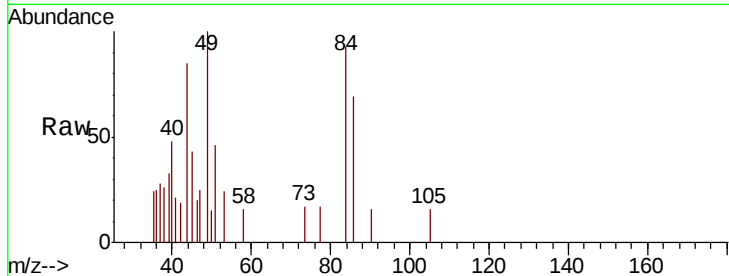
Ion Ratio Lower Upper

84 100

49 67.0 89.3 133.9#

51 49.5 28.3 42.5#

86 73.7 54.5 81.7

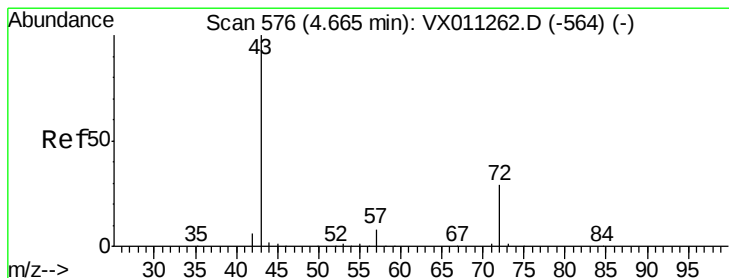
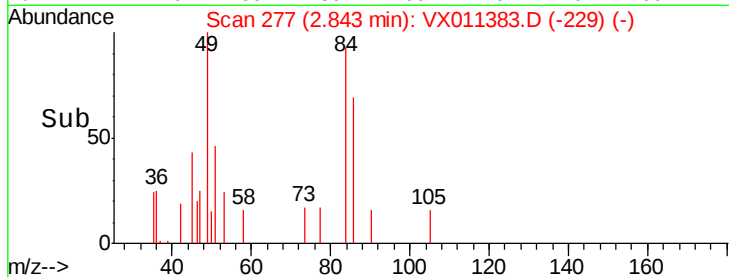
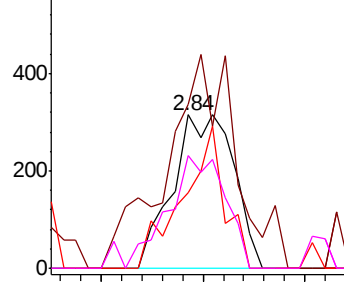


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#25

2-Butanone

Concen: 0.727 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX011383.D

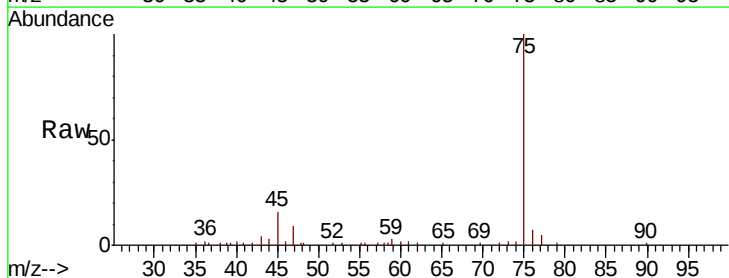
Acq: 08 Aug 2019 11:45

Tgt Ion: 43 Resp: 741

Ion Ratio Lower Upper

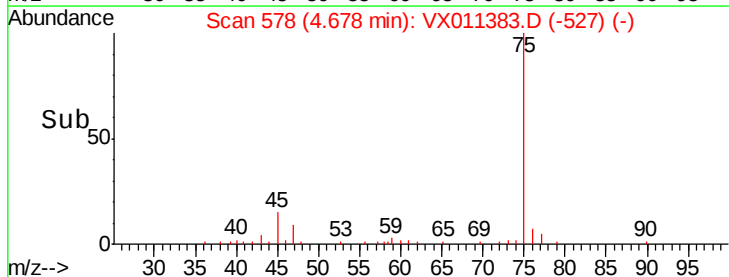
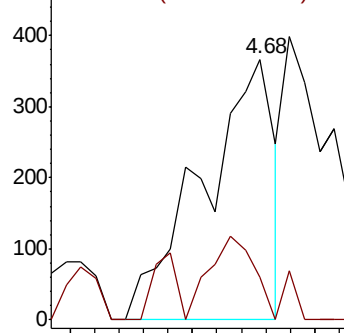
43 100

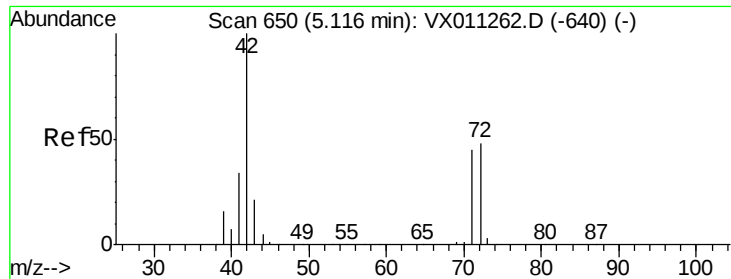
72 16.6 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

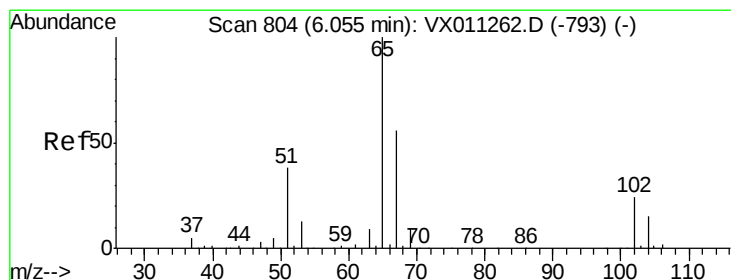
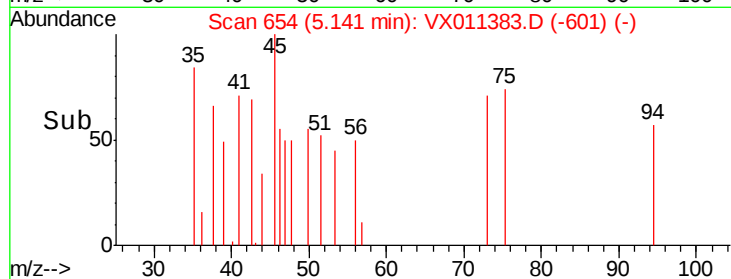
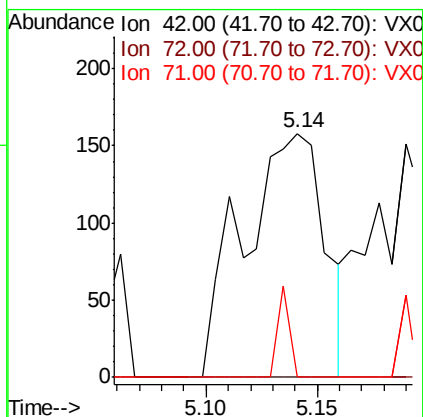
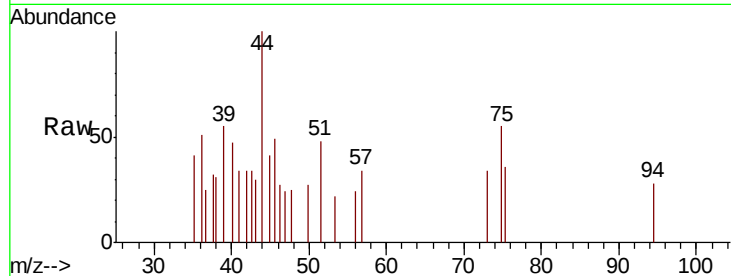




#29
Tetrahydrofuran
Concen: 0.640 ug/l
RT: 5.14 min Scan# 654
Delta R.T. 0.02 min
Lab File: VX011383.D
Acq: 08 Aug 2019 11:45

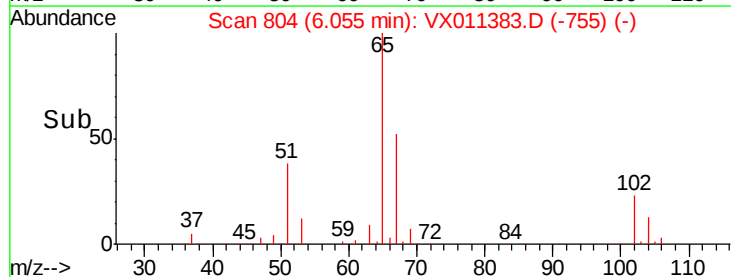
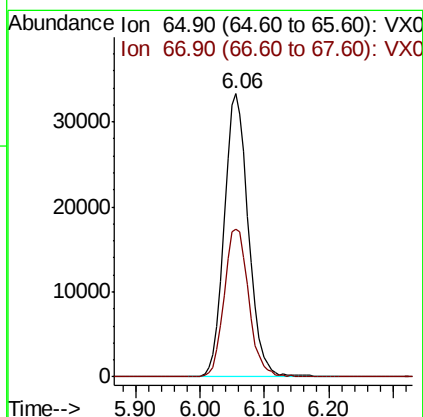
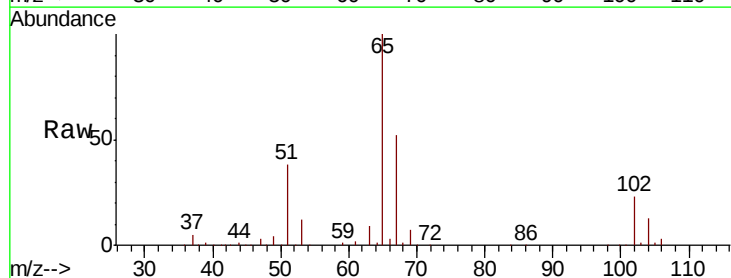
Instrument :
MSVOA_X
ClientSampled :
FB_080619

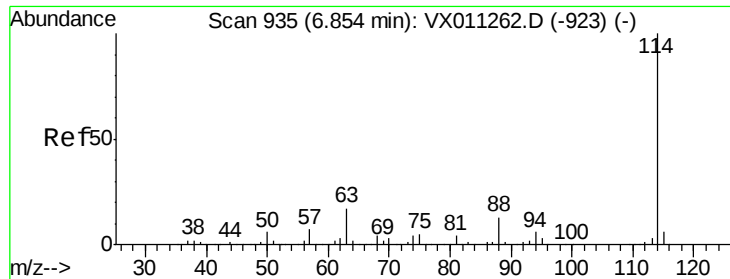
Tgt Ion: 42 Resp: 400
Ion Ratio Lower Upper
42 100
72 0.0 39.9 59.9#
71 5.5 36.9 55.3#



#33
1,2-Dichloroethane-d4
Concen: 58.711 ug/l
RT: 6.06 min Scan# 804
Delta R.T. 0.00 min
Lab File: VX011383.D
Acq: 08 Aug 2019 11:45

Tgt Ion: 65 Resp: 88379
Ion Ratio Lower Upper
65 100
67 53.0 0.0 110.6

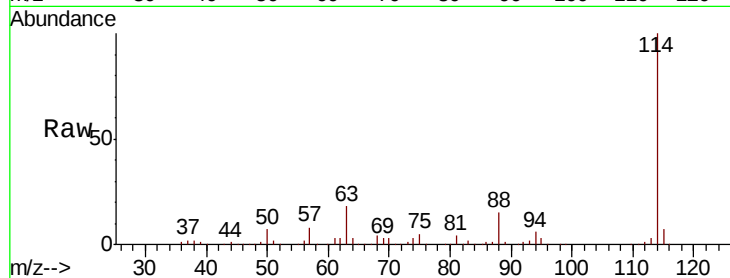




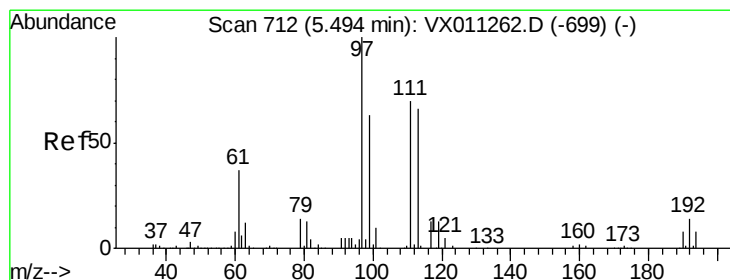
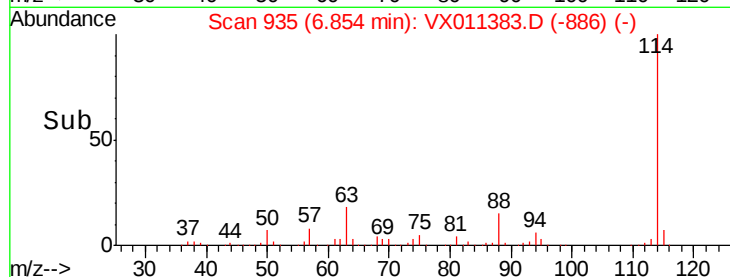
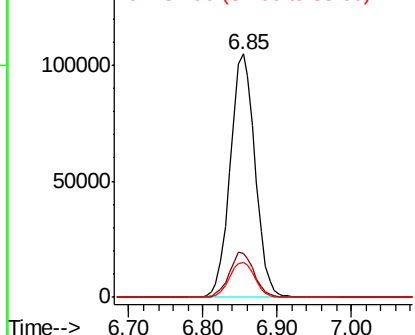
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011383.D
 Acq: 08 Aug 2019 11:45

Instrument :
 MSVOA_X
 ClientSampled :
 FB_080619

Tgt Ion:114 Resp: 245110
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 34.0
 88 14.6 0.0 26.4

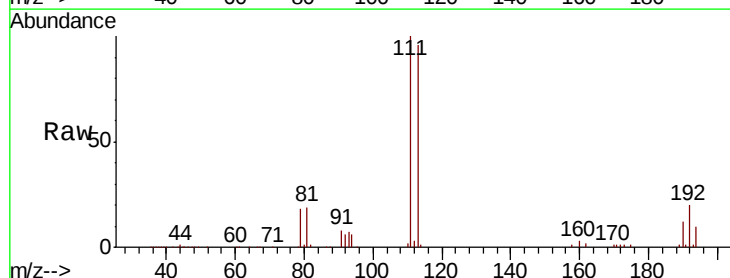


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

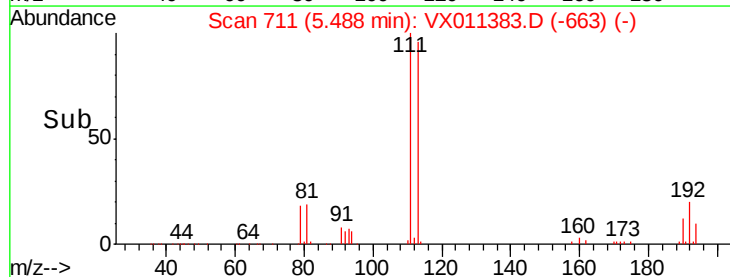
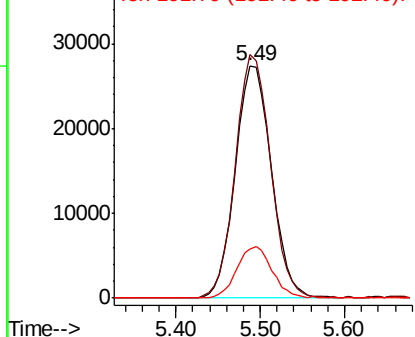


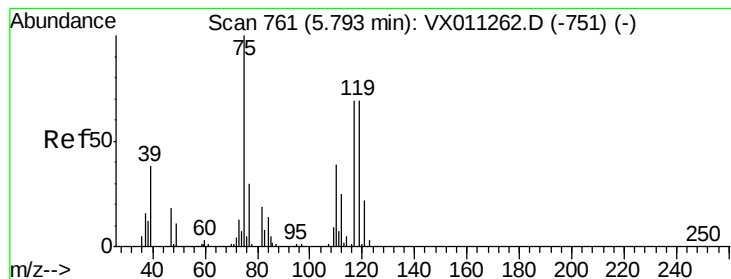
#35
 Dibromofluoromethane
 Concen: 49.899 ug/l
 RT: 5.49 min Scan# 711
 Delta R.T. -0.01 min
 Lab File: VX011383.D
 Acq: 08 Aug 2019 11:45

Tgt Ion:113 Resp: 79852
 Ion Ratio Lower Upper
 113 100
 111 101.8 81.9 122.9
 192 21.5 17.8 26.8



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: 4.899 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011383.D

Acq: 08 Aug 2019 11:45

Instrument :

MSVOA_X

ClientSampleId :

FB_080619

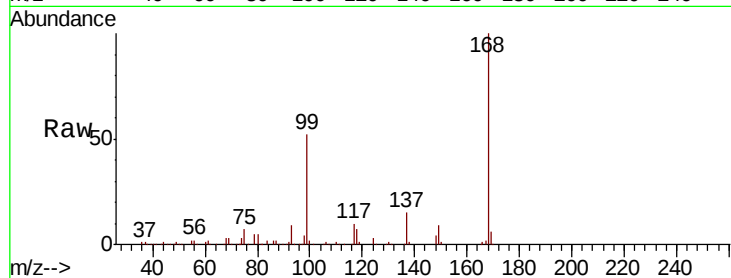
Tgt Ion: 75 Resp: 10485

Ion Ratio Lower Upper

75 100

110 11.7 20.0 59.9#

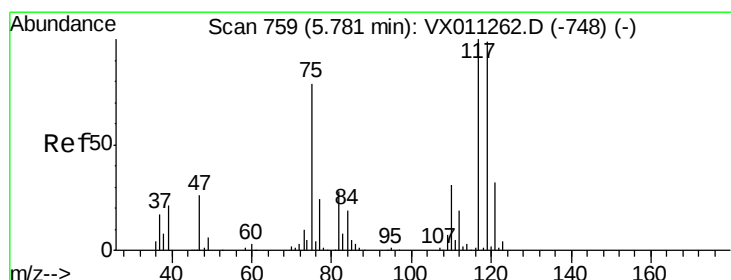
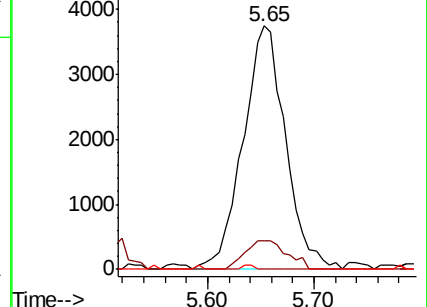
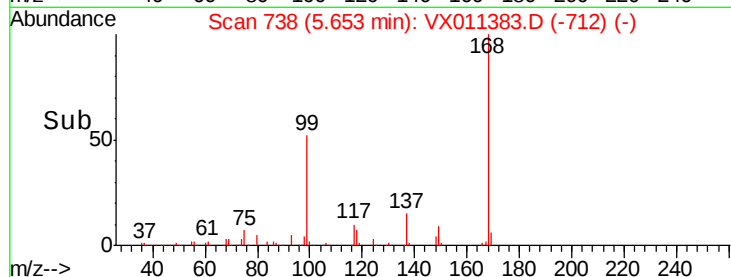
77 0.4 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX011383.D (-712) (-)

Ion 109.90 (109.60 to 110.60): VX011383.D (-712) (-)

Ion 76.90 (76.60 to 77.60): VX011383.D (-712) (-)



#38

Carbon Tetrachloride

Concen: 6.639 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011383.D

Acq: 08 Aug 2019 11:45

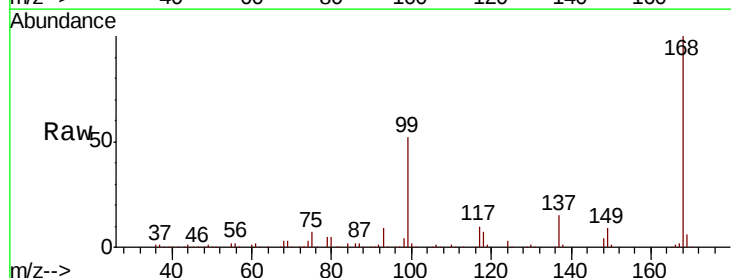
Tgt Ion: 117 Resp: 14295

Ion Ratio Lower Upper

117 100

119 6.3 79.0 118.4#

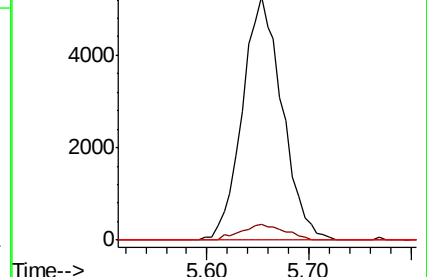
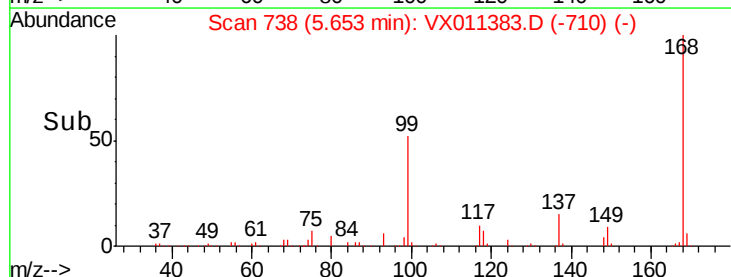
121 0.0 25.9 38.9#

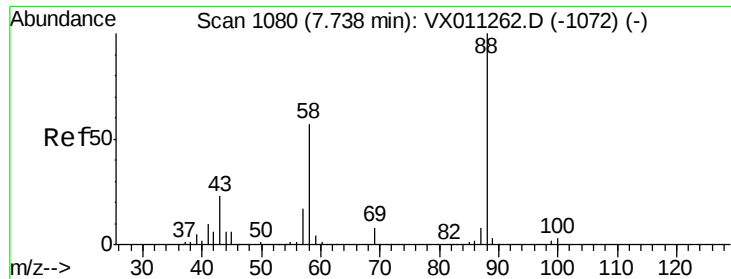


Abundance Ion 116.80 (116.50 to 117.50): VX011383.D (-710) (-)

Ion 118.80 (118.50 to 119.50): VX011383.D (-710) (-)

Ion 120.80 (120.50 to 121.50): VX011383.D (-710) (-)

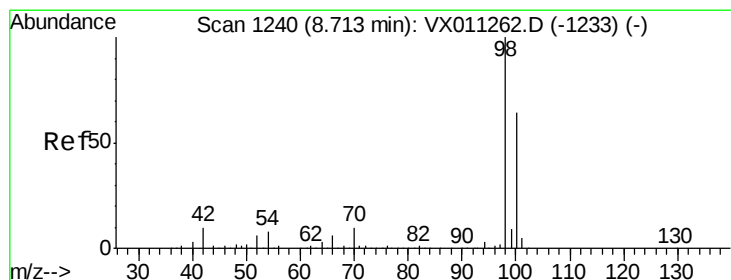
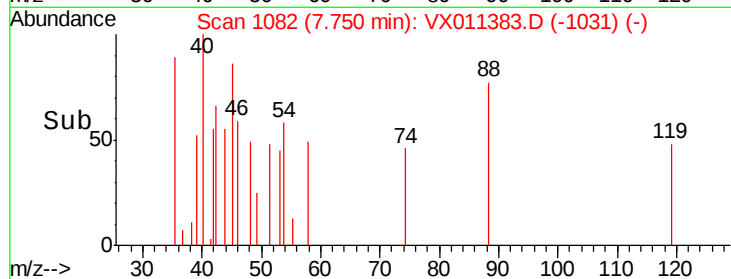
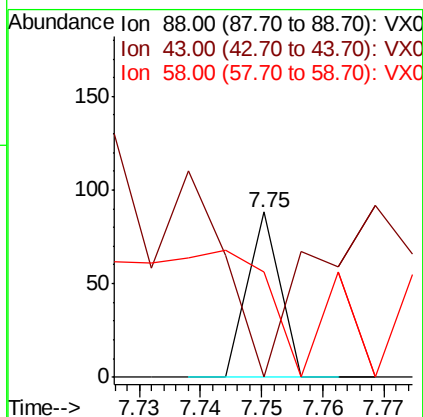
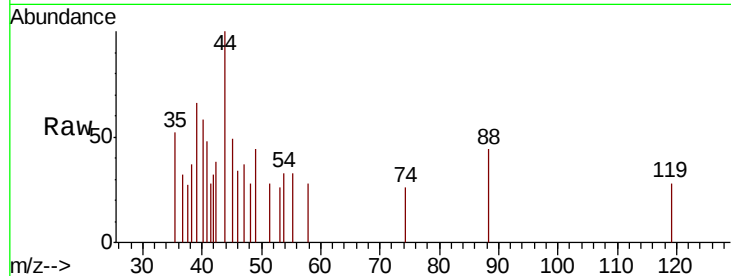




#49
1,4-Dioxane
Concen: 0.683 ug/l
RT: 7.75 min Scan# 1082
Delta R.T. 0.01 min
Lab File: VX011383.D
Acq: 08 Aug 2019 11:45

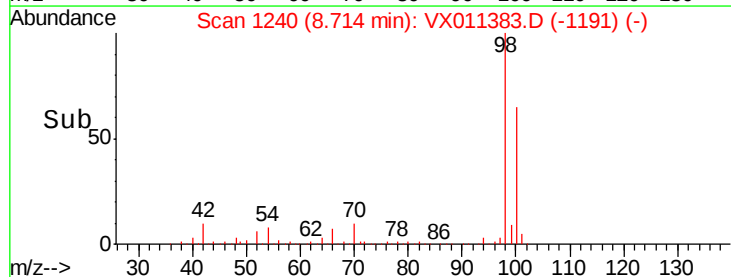
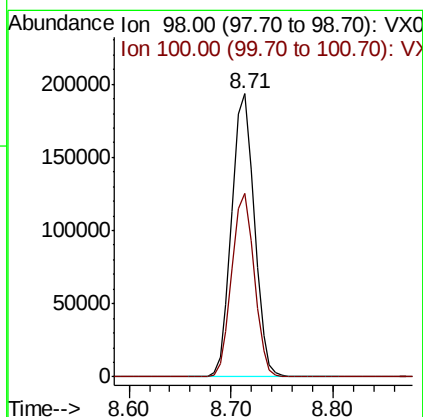
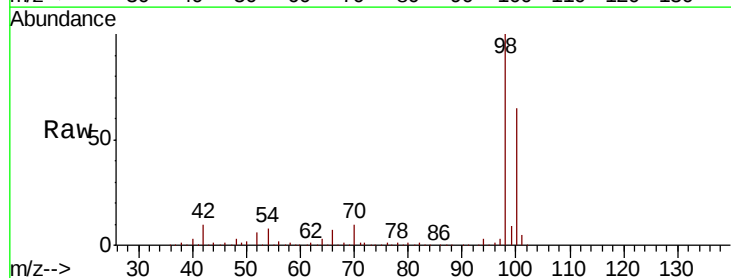
Instrument :
MSVOA_X
ClientSampled :
FB_080619

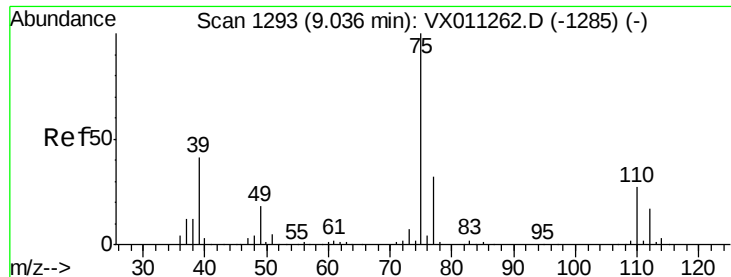
Tgt Ion: 88 Resp: 32
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.2#
58 215.6 47.8 71.8#



#50
Toluene-d8
Concen: 49.165 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011383.D
Acq: 08 Aug 2019 11:45

Tgt Ion: 98 Resp: 296981
Ion Ratio Lower Upper
98 100
100 64.2 51.7 77.5

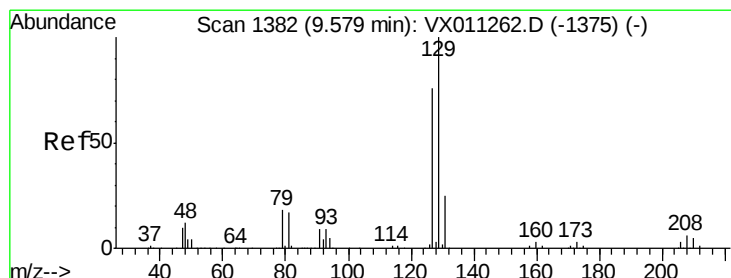
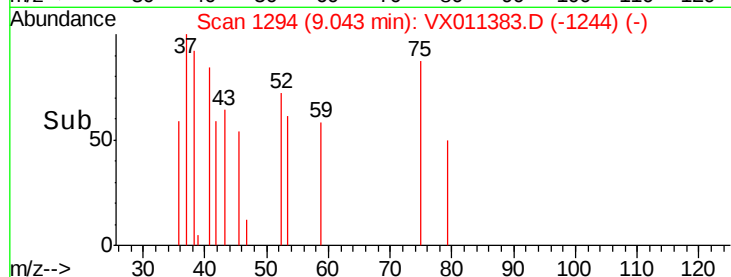
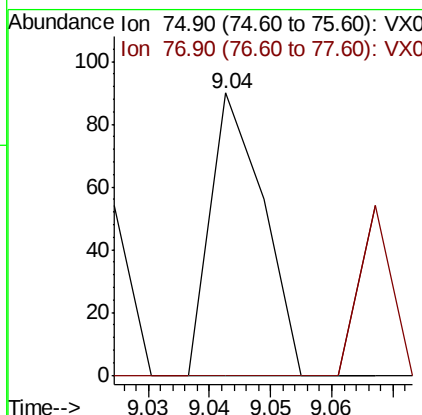
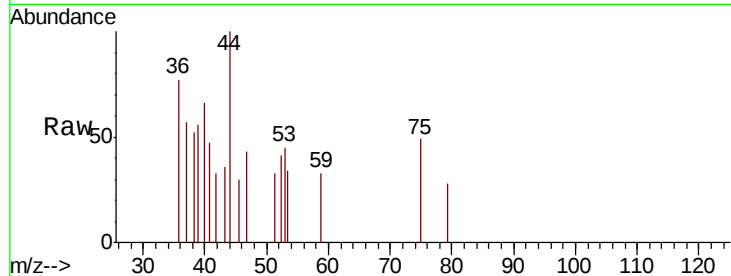




#53
t-1,3-Dichloropropene
Concen: 2.859 ug/l
RT: 9.04 min Scan# 1294
Delta R.T. 0.01 min
Lab File: VX011383.D
Acq: 08 Aug 2019 11:45

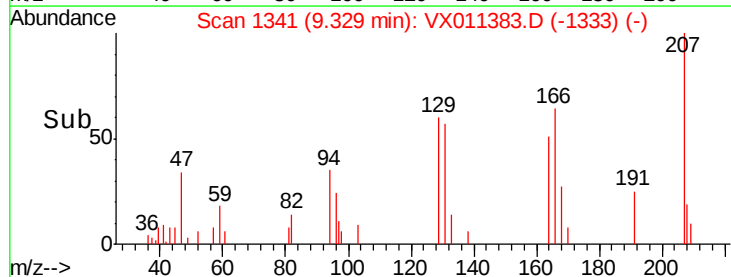
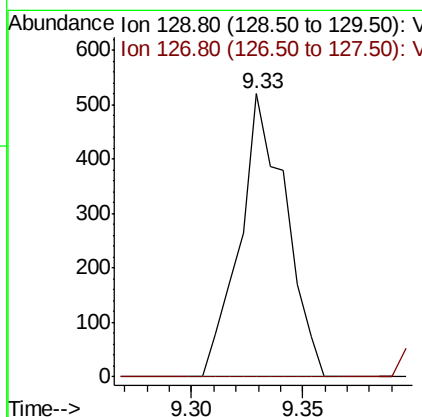
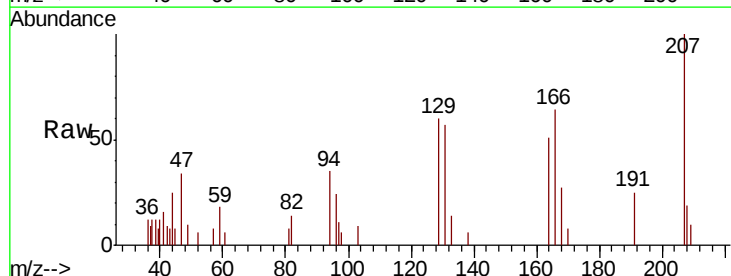
Instrument :
MSVOA_X
ClientSampleId :
FB_080619

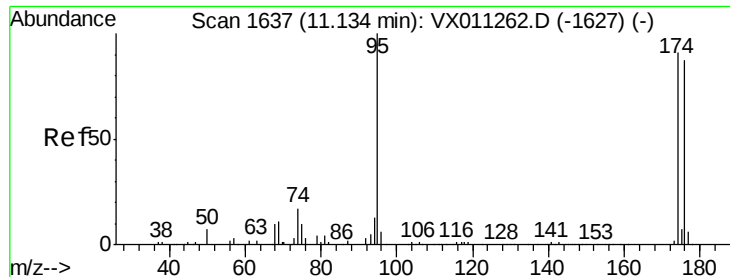
Tgt Ion: 75 Resp: 53
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#



#60
Dibromochloromethane
Concen: 0.421 ug/l
RT: 9.33 min Scan# 1341
Delta R.T. -0.25 min
Lab File: VX011383.D
Acq: 08 Aug 2019 11:45

Tgt Ion: 129 Resp: 748
Ion Ratio Lower Upper
129 100
127 0.0 39.2 117.6#

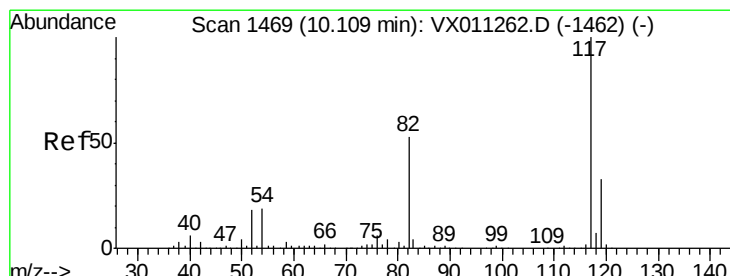
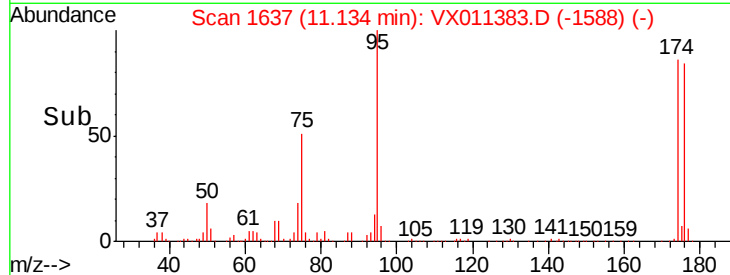
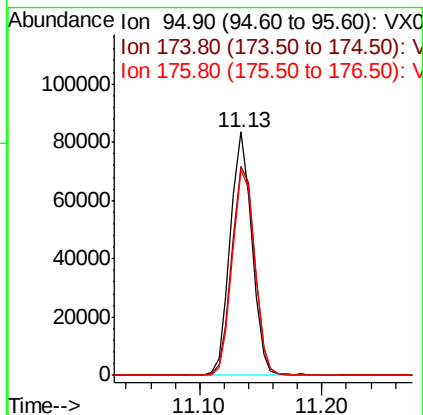
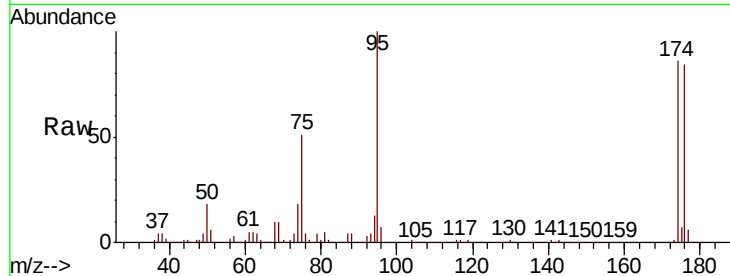




#62
4-Bromofluorobenzene
Concen: 47.345 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX011383.D
Acq: 08 Aug 2019 11:45

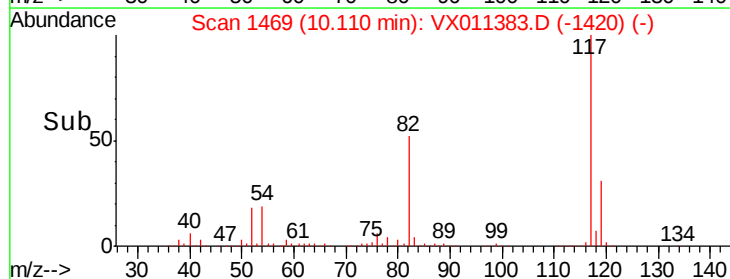
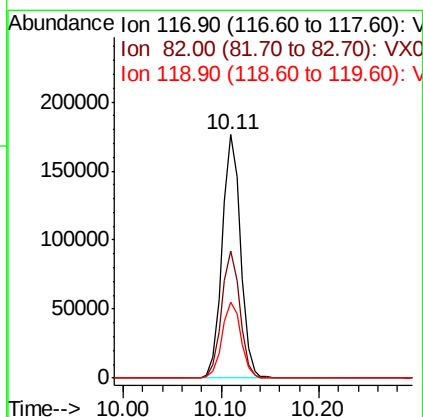
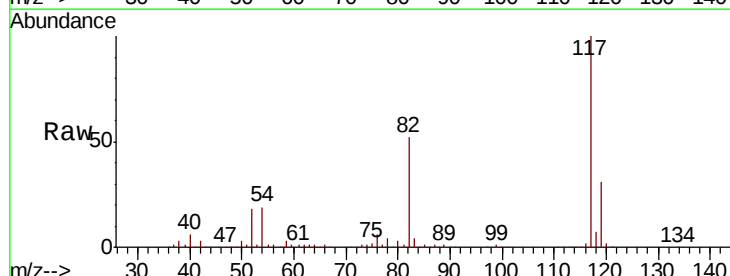
Instrument :
MSVOA_X
ClientSampled :
FB_080619

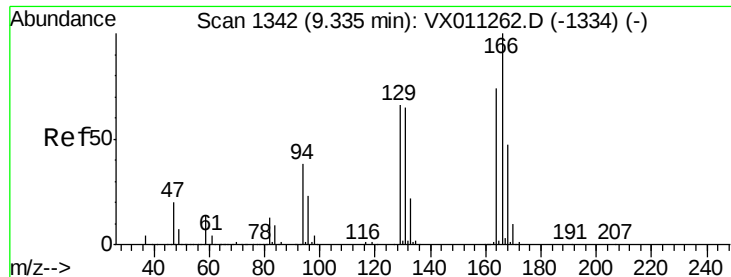
Tgt Ion: 95 Resp: 102107
Ion Ratio Lower Upper
95 100
174 90.8 0.0 191.2
176 87.4 0.0 184.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011383.D
Acq: 08 Aug 2019 11:45

Tgt Ion: 117 Resp: 230466
Ion Ratio Lower Upper
117 100
82 52.2 42.2 63.2
119 31.4 26.6 39.8

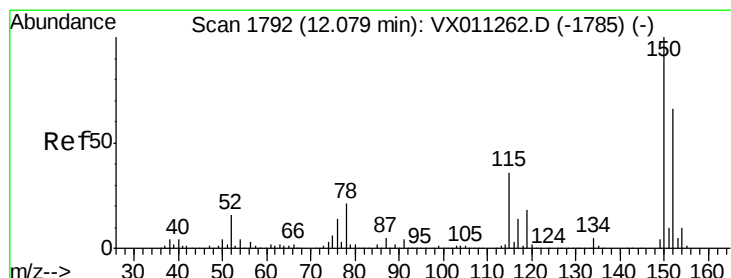
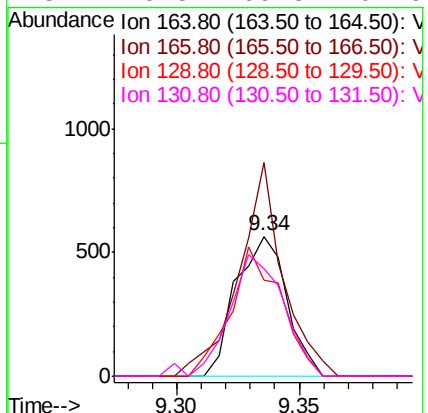
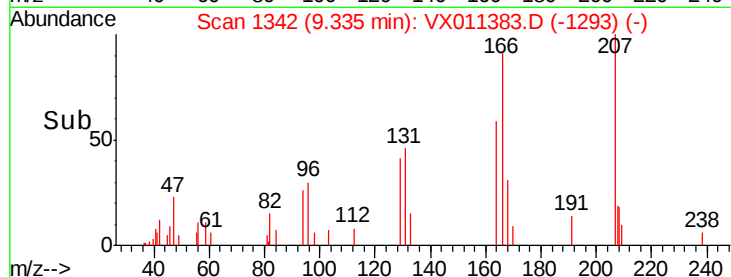
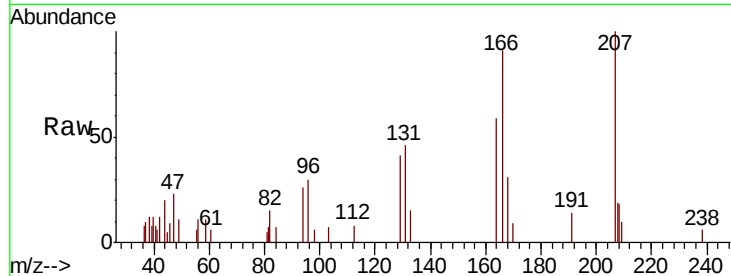




#64
Tetrachloroethene
Concen: 0.419 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX011383.D
Acq: 08 Aug 2019 11:45

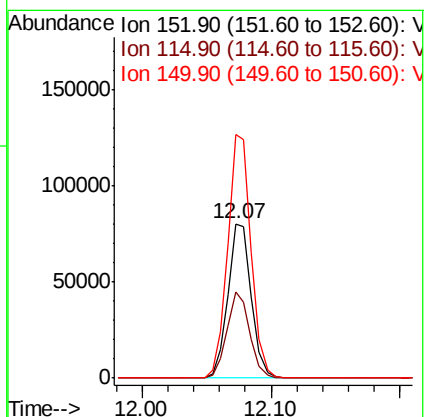
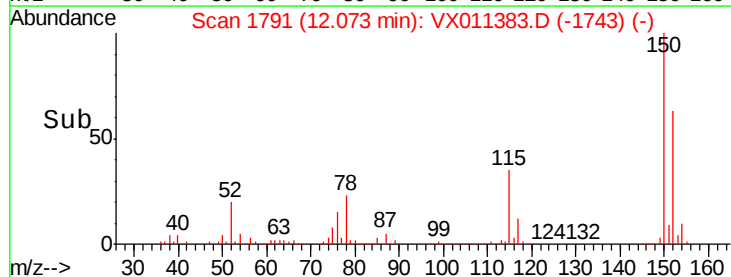
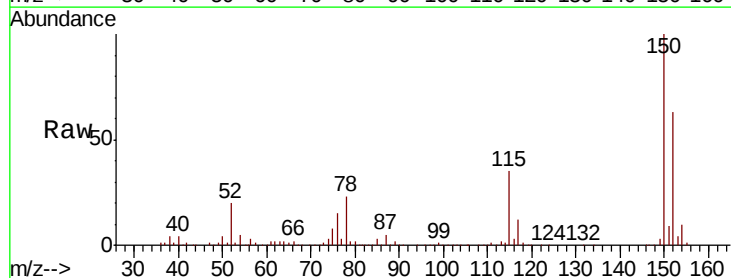
Instrument :
MSVOA_X
ClientSampled :
FB_080619

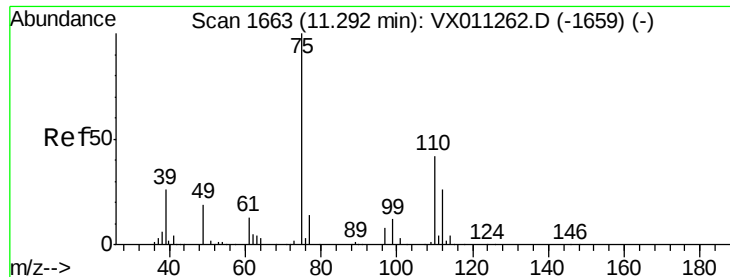
Tgt Ion:164 Resp: 820
Ion Ratio Lower Upper
164 100
166 152.7 107.5 161.3
129 68.5 71.0 106.4#
131 76.8 69.8 104.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1791
Delta R.T. -0.01 min
Lab File: VX011383.D
Acq: 08 Aug 2019 11:45

Tgt Ion:152 Resp: 102759
Ion Ratio Lower Upper
152 100
115 54.4 40.0 119.9
150 157.8 0.0 350.4

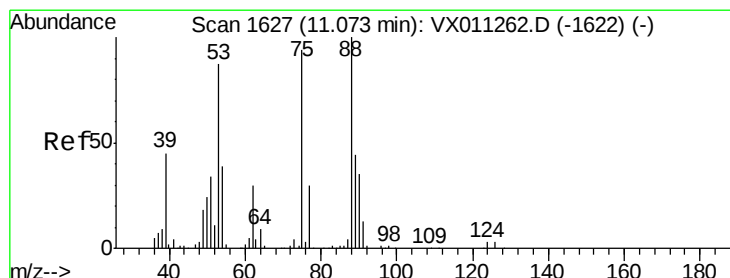
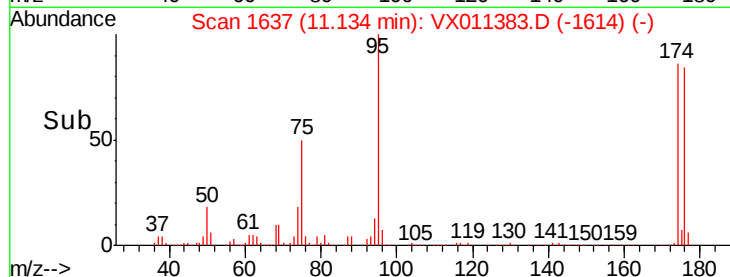
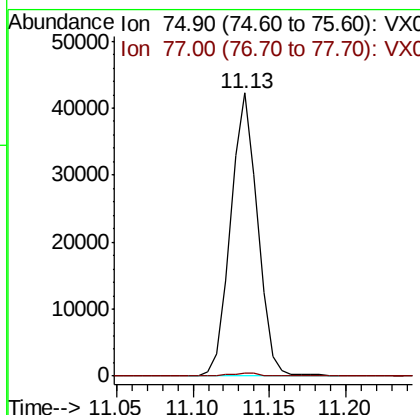
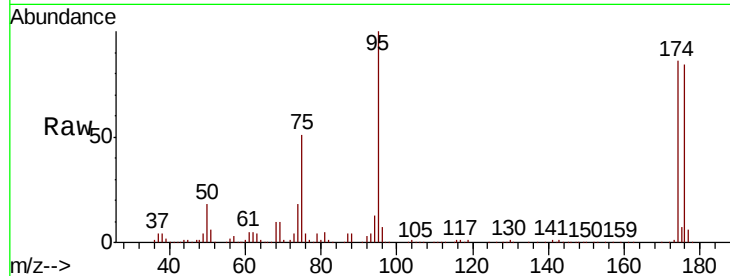




#76
 1,2,3-Trichloropropane
 Concen: 27.521 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011383.D
 Acq: 08 Aug 2019 11:45

Instrument :
 MSVOA_X
 ClientSampleID :
 FB_080619

Tgt Ion: 75 Resp: 51502
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.1 63.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.362 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011383.D
 Acq: 08 Aug 2019 11:45

Tgt Ion: 75 Resp: 51502
 Ion Ratio Lower Upper
 75 100
 53 0.1 78.2 117.4#
 89 0.0 37.9 56.9#

