

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082319\
 Data File : VX011792.D
 Acq On : 23 Aug 2019 12:56
 Operator : JC/SP
 Sample : K4451-02
 Misc : 5.86g/5mL/100uL/10mL/MSVOA_X/MEOH
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B-2ME

Quant Time: Aug 26 01:53:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082219W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 23 01:48:12 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	442195	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	586382	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	535615	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	304897	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	195107	43.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.84%	
35) Dibromofluoromethane	5.49	113	159024	41.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.88%	
50) Toluene-d8	8.71	98	651715	49.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.56%	
62) 4-Bromofluorobenzene	11.13	95	253663	48.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.04%	

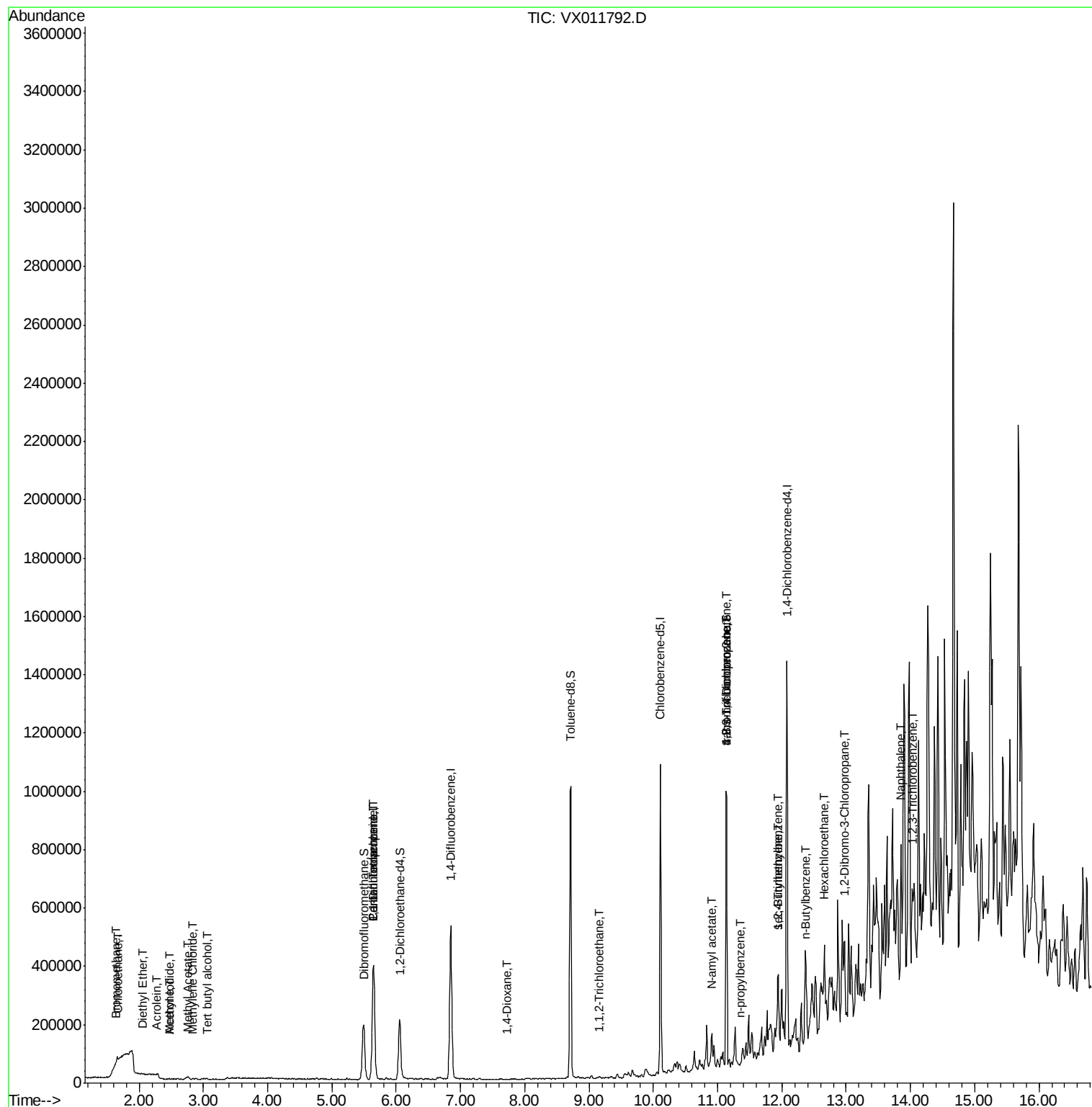
Target Compounds						Qvalue
5) Bromomethane	1.63	94	1060	0.532	ug/l	87
6) Chloroethane	1.67	64	505	0.239	ug/l #	84
8) Diethyl Ether	2.06	74	473	0.241	ug/l	65
10) Methyl Iodide	2.48	142	1380	0.317	ug/l #	77
11) Tert butyl alcohol	3.06	59	219	0.249	ug/l #	1
13) Acrolein	2.26	56	367	1.082	ug/l	95
16) Acetone	2.46	43	1454	0.752	ug/l	93
18) Methyl Acetate	2.76	43	4229	0.807	ug/l #	51
20) Methylene Chloride	2.84	84	1137	0.288	ug/l	88
36) 1,1-Dichloropropene	5.65	75	23999	5.219	ug/l #	51
38) Carbon Tetrachloride	5.65	117	35566	6.825	ug/l #	15
49) 1,4-Dioxane	7.73	88	154	1.418	ug/l #	1
55) 1,1,2-Trichloroethane	9.16	97	1892	0.493	ug/l #	18
74) N-amyl acetate	10.91	43	12010	1.688	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	110993	20.746	ug/l #	36
78) n-propylbenzene	11.36	91	5187	0.264	ug/l	87
81) trans-1,4-Dichloro-2-buten	11.13	75	110993	62.567	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.94	105	52863	3.415	ug/l #	29
85) sec-Butylbenzene	11.94	105	52863	3.055	ug/l	87
89) n-Butylbenzene	12.38	91	36750	2.667	ug/l #	70
90) Hexachloroethane	12.66	117	13830	5.348	ug/l #	2
92) 1,2-Dibromo-3-Chloropropan	12.98	75	745	0.527	ug/l #	7
95) Naphthalene	13.85	128	9204	0.483	ug/l #	1
96) 1,2,3-Trichlorobenzene	14.04	180	3771	0.543	ug/l #	1

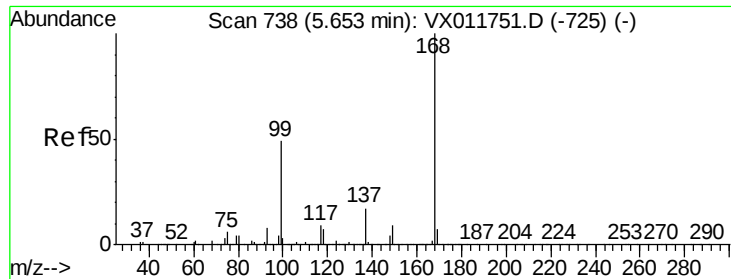
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082219W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 23 01:48:12 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 737

Delta R.T. -0.01 min

Lab File: VX011792.D

Acq: 23 Aug 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

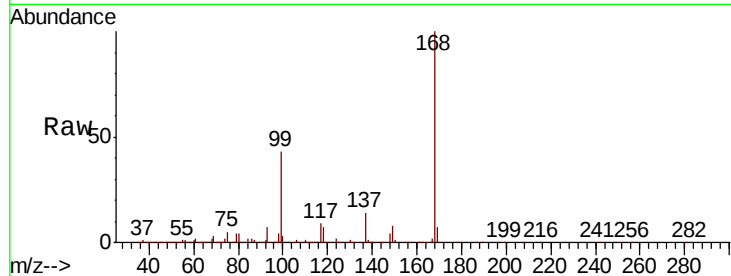
B-2ME

Tgt Ion:168 Resp: 442195

Ion Ratio Lower Upper

168 100

99 42.6 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

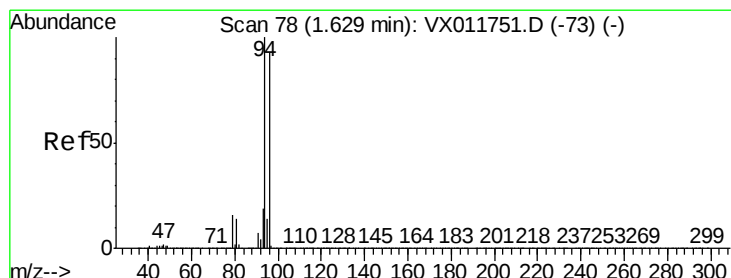
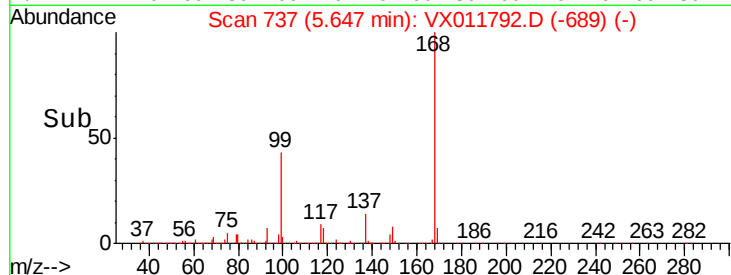
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.532 ug/l

RT: 1.63 min Scan# 78

Delta R.T. -0.00 min

Lab File: VX011792.D

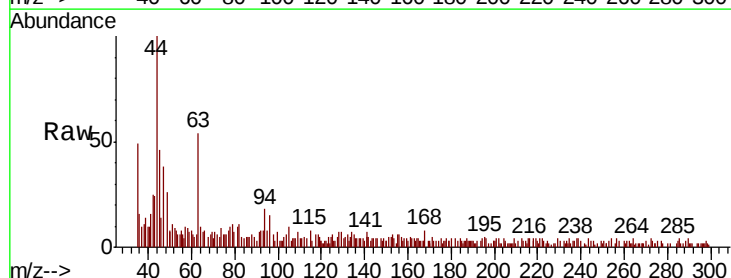
Acq: 23 Aug 2019 12:56

Tgt Ion: 94 Resp: 1060

Ion Ratio Lower Upper

94 100

96 80.3 74.1 111.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

600

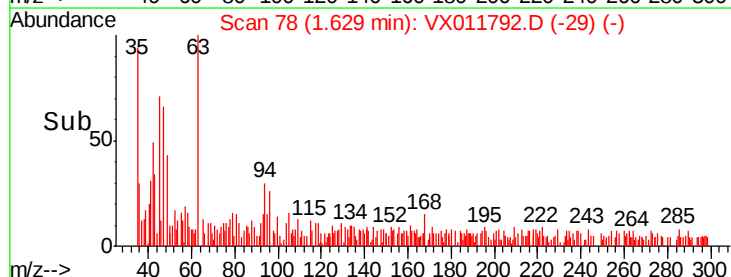
400

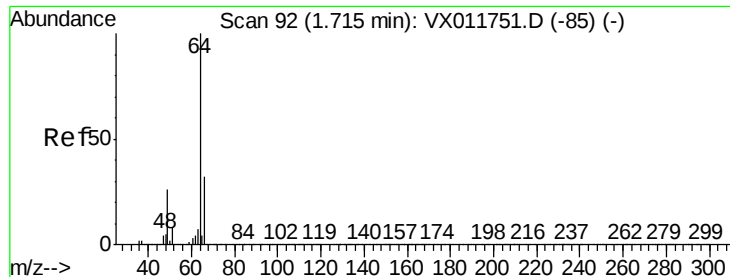
200

0

Time-->

1.60 1.65





#6

Chloroethane

Concen: 0.239 ug/l

RT: 1.67 min Scan# 85

Delta R.T. -0.04 min

Lab File: VX011792.D

Acq: 23 Aug 2019 12:56

Instrument :

MSVOA_X

ClientSampled :

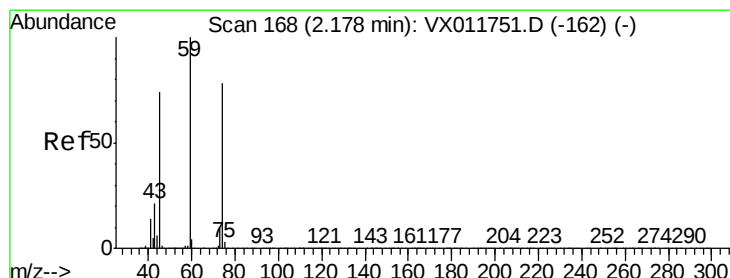
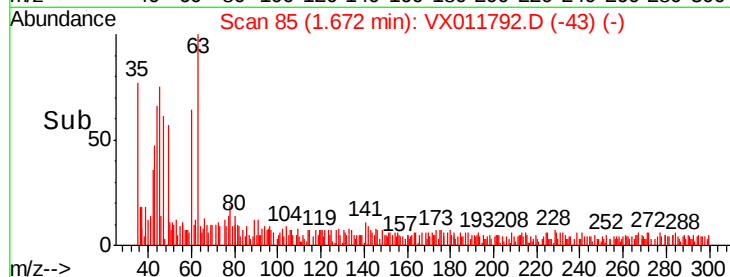
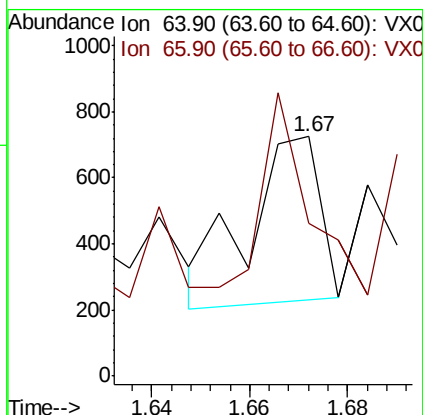
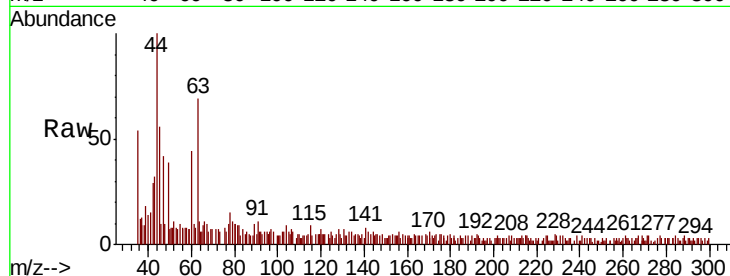
B-2ME

Tgt Ion: 64 Resp: 505

Ion Ratio Lower Upper

64 100

66 39.9 24.9 37.3#



#8

Diethyl Ether

Concen: 0.241 ug/l

RT: 2.06 min Scan# 149

Delta R.T. -0.12 min

Lab File: VX011792.D

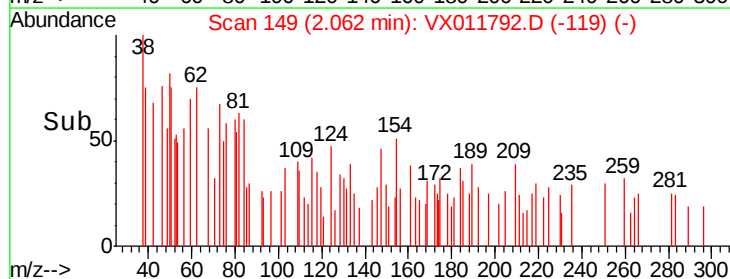
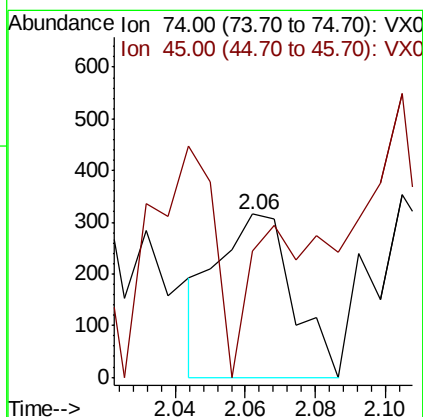
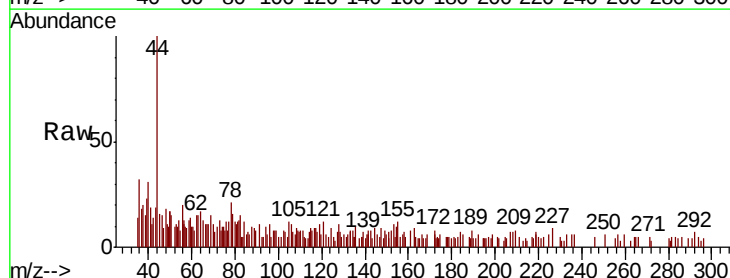
Acq: 23 Aug 2019 12:56

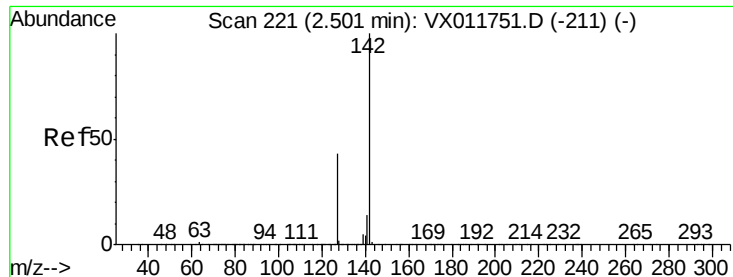
Tgt Ion: 74 Resp: 473

Ion Ratio Lower Upper

74 100

45 59.2 46.7 140.0

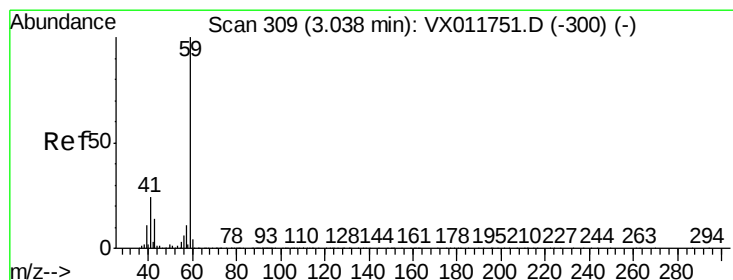
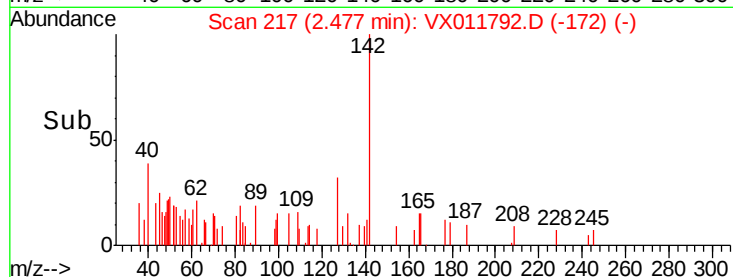
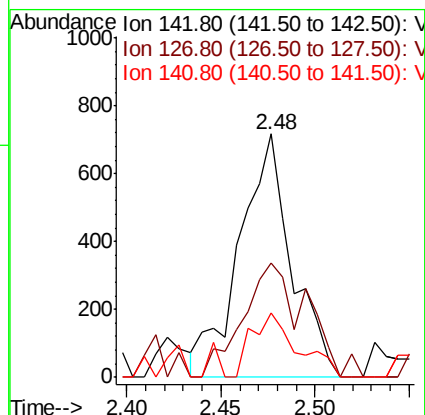
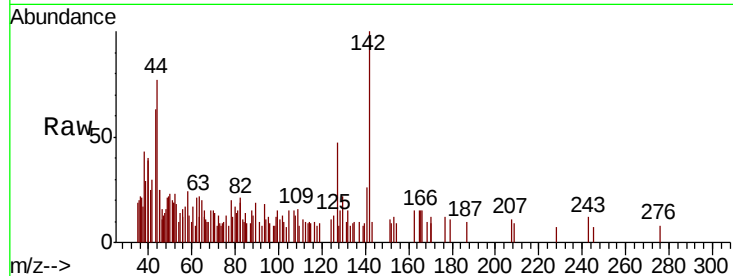




#10
Methyl Iodide
Concen: 0.317 ug/l
RT: 2.48 min Scan# 217
Delta R.T. -0.02 min
Lab File: VX011792.D
Acq: 23 Aug 2019 12:56

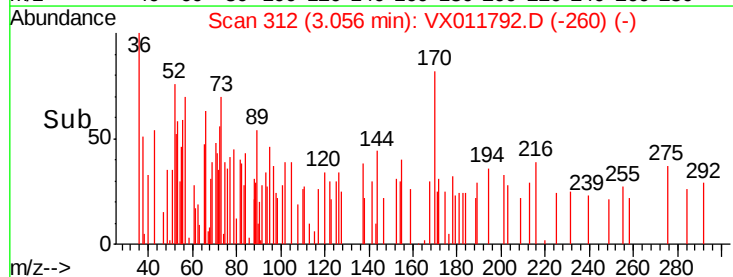
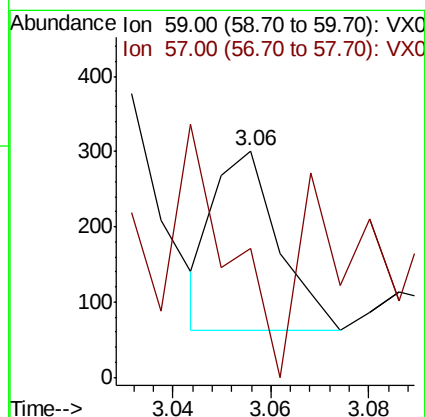
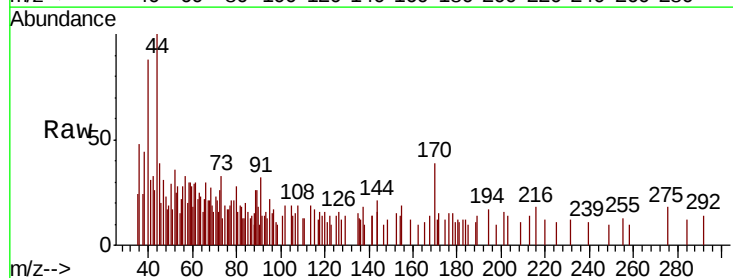
Instrument :
MSVOA_X
ClientSampleId :
B-2ME

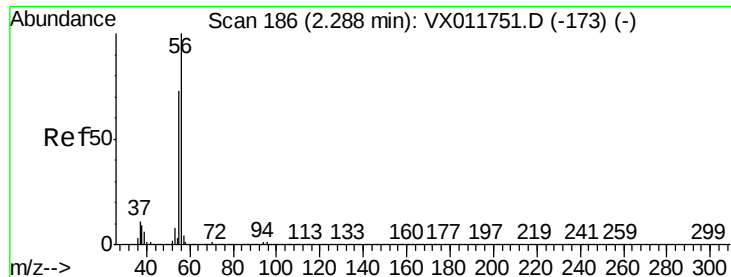
Tgt Ion: 142 Resp: 1380
Ion Ratio Lower Upper
142 100
127 57.0 33.5 50.3#
141 23.1 11.4 17.2#



#11
Tert butyl alcohol
Concen: 0.249 ug/l
RT: 3.06 min Scan# 312
Delta R.T. 0.02 min
Lab File: VX011792.D
Acq: 23 Aug 2019 12:56

Tgt Ion: 59 Resp: 219
Ion Ratio Lower Upper
59 100
57 108.7 8.4 12.6#





#13

Acrolein

Concen: 1.082 ug/l

RT: 2.26 min Scan# 182

Delta R.T. -0.02 min

Lab File: VX011792.D

Acq: 23 Aug 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

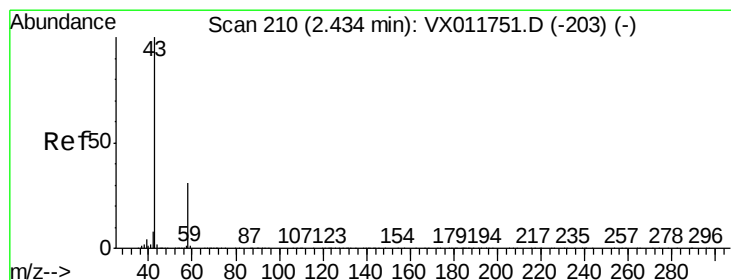
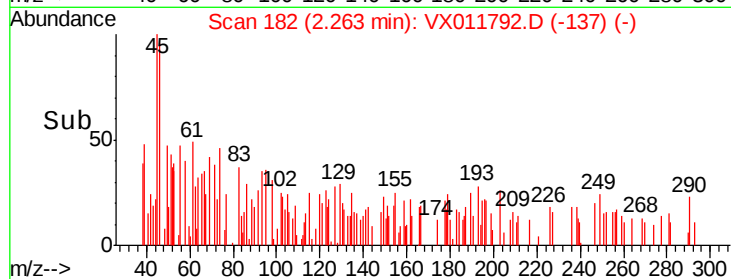
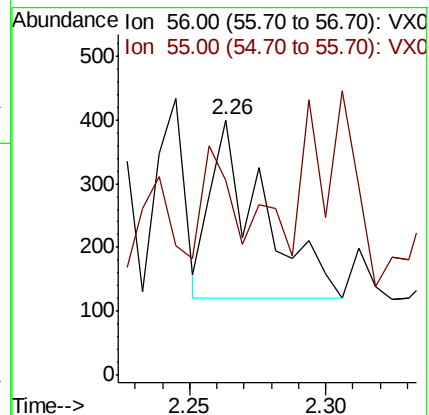
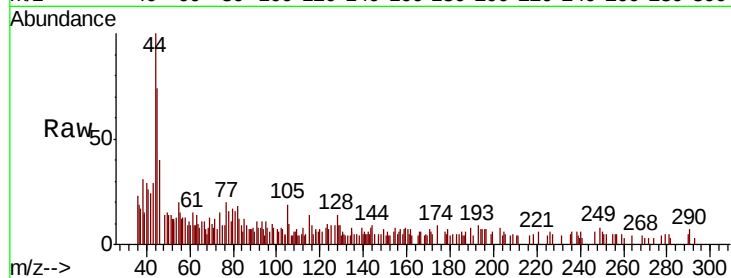
B-2ME

Tgt Ion: 56 Resp: 367

Ion Ratio Lower Upper

56 100

55 64.6 54.8 82.2



#16

Acetone

Concen: 0.752 ug/l

RT: 2.46 min Scan# 215

Delta R.T. 0.03 min

Lab File: VX011792.D

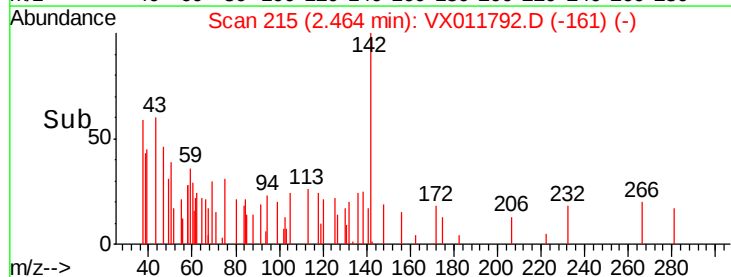
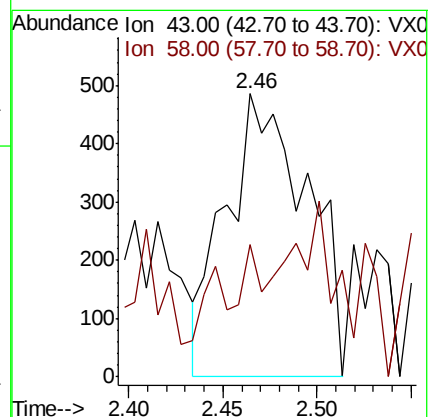
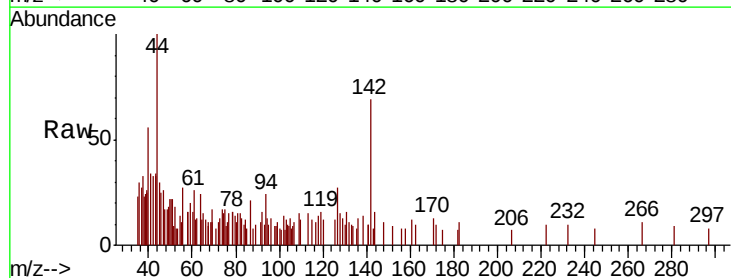
Acq: 23 Aug 2019 12:56

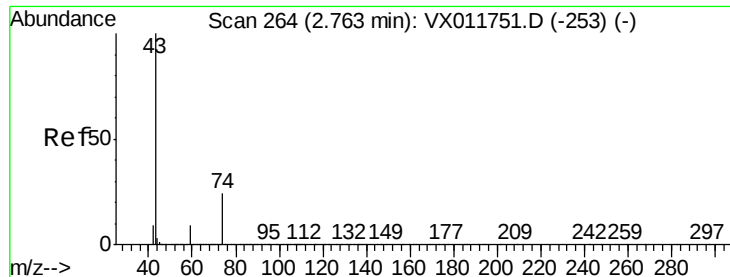
Tgt Ion: 43 Resp: 1454

Ion Ratio Lower Upper

43 100

58 34.2 24.4 36.6

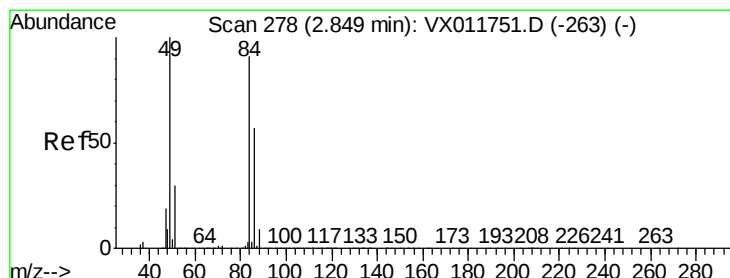
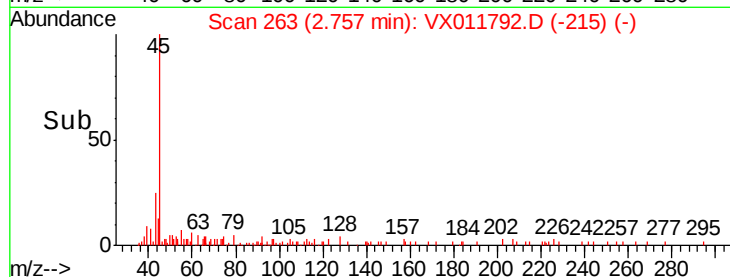
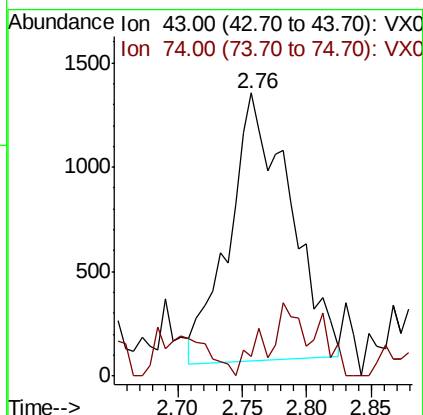
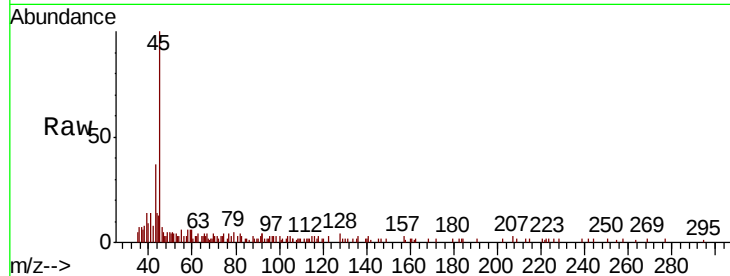




#18
Methyl Acetate
Concen: 0.807 ug/l
RT: 2.76 min Scan# 263
Delta R.T. -0.01 min
Lab File: VX011792.D
Acq: 23 Aug 2019 12:56

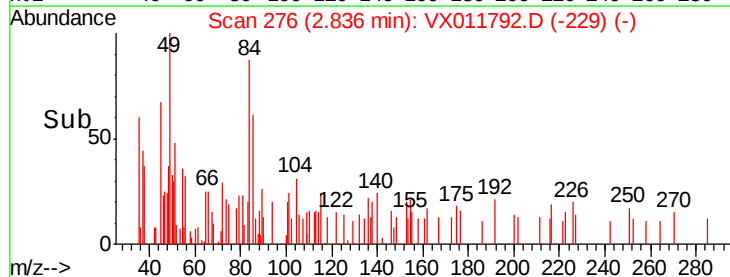
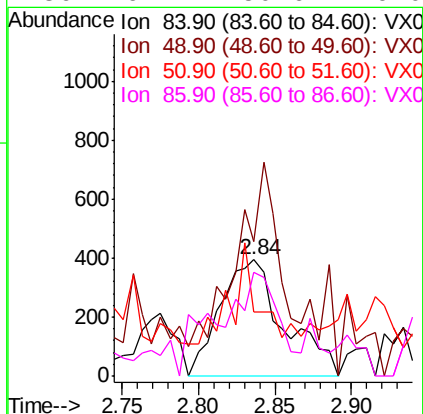
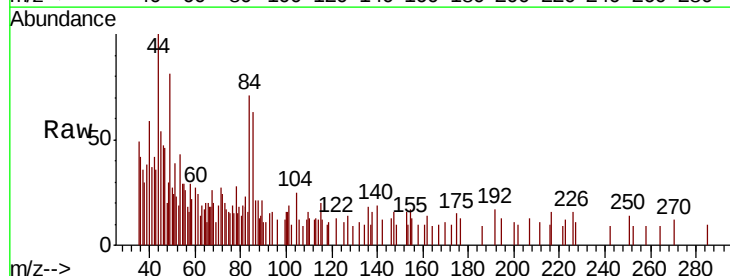
Instrument :
MSVOA_X
ClientSampleId :
B-2ME

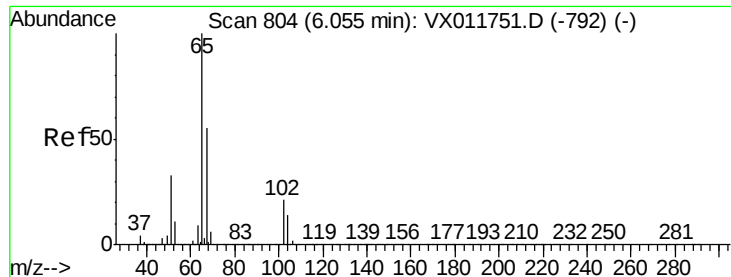
Tgt Ion: 43 Resp: 4229
Ion Ratio Lower Upper
43 100
74 0.0 19.5 29.3#



#20
Methylene Chloride
Concen: 0.288 ug/l
RT: 2.84 min Scan# 276
Delta R.T. -0.01 min
Lab File: VX011792.D
Acq: 23 Aug 2019 12:56

Tgt Ion: 84 Resp: 1137
Ion Ratio Lower Upper
84 100
49 90.1 88.3 132.5
51 28.1 26.2 39.2
86 64.1 50.6 76.0





#33

1,2-Dichloroethane-d4

Concen: 43.922 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.00 min

Lab File: VX011792.D

Acq: 23 Aug 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

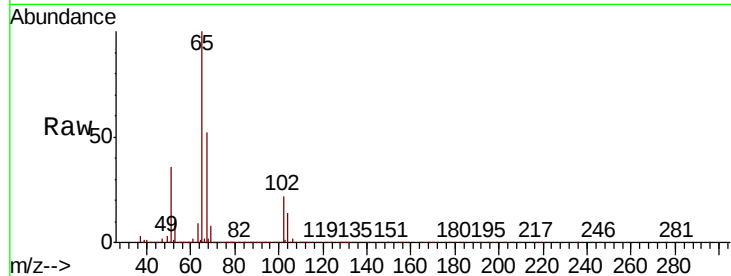
B-2ME

Tgt Ion: 65 Resp: 195107

Ion Ratio Lower Upper

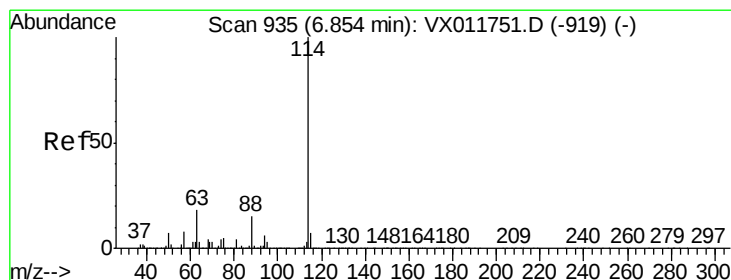
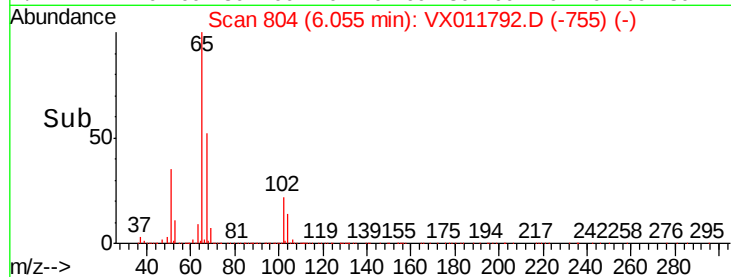
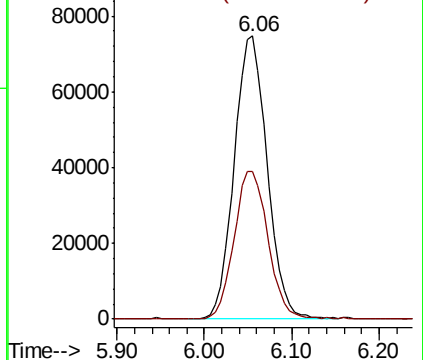
65 100

67 53.6 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 934

Delta R.T. -0.01 min

Lab File: VX011792.D

Acq: 23 Aug 2019 12:56

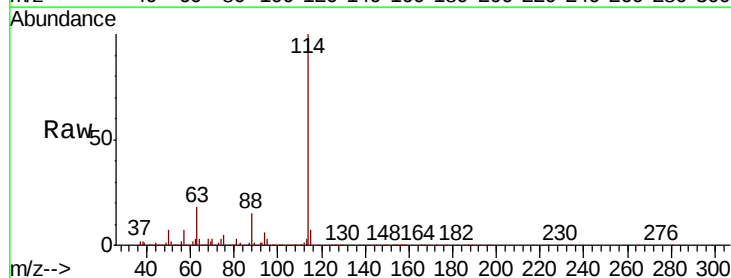
Tgt Ion: 114 Resp: 586382

Ion Ratio Lower Upper

114 100

63 17.8 0.0 36.8

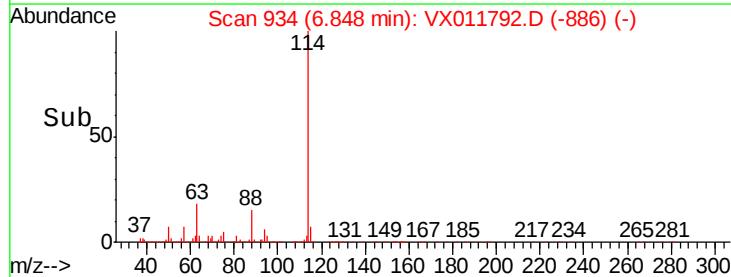
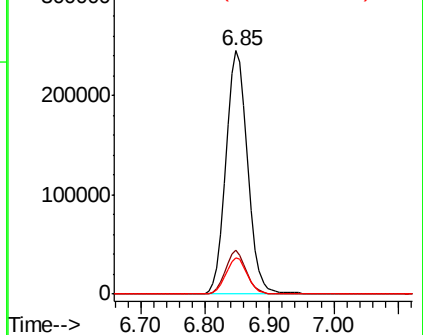
88 14.9 0.0 30.2

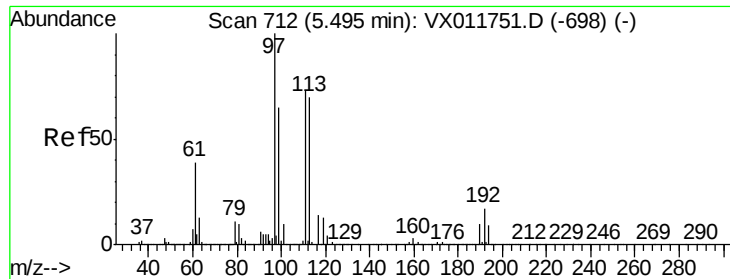


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 41.939 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX011792.D

Acq: 23 Aug 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

B-2ME

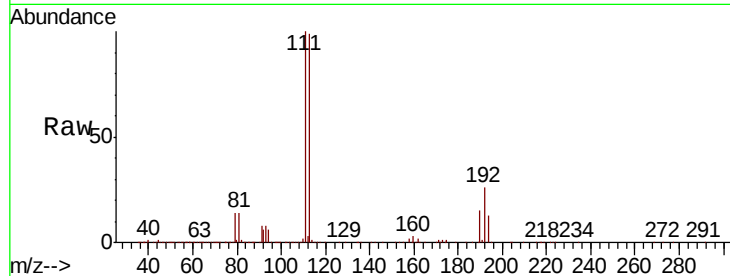
Tgt Ion:113 Resp: 159024

Ion Ratio Lower Upper

113 100

111 102.9 81.0 121.4

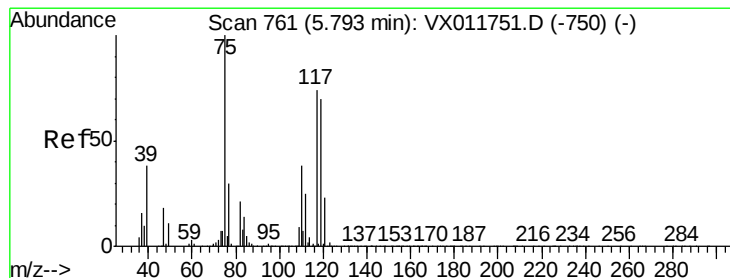
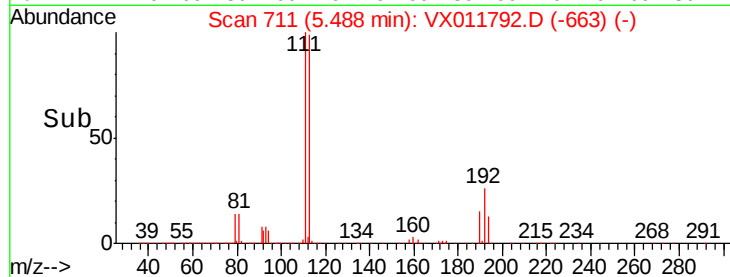
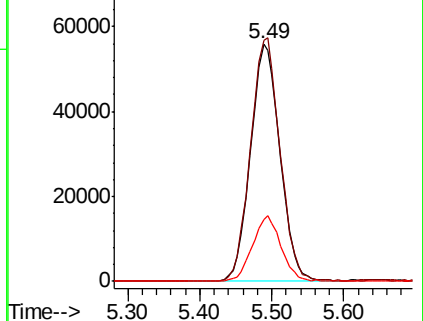
192 26.8 19.9 29.9



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: 5.219 ug/l

RT: 5.65 min Scan# 737

Delta R.T. -0.15 min

Lab File: VX011792.D

Acq: 23 Aug 2019 12:56

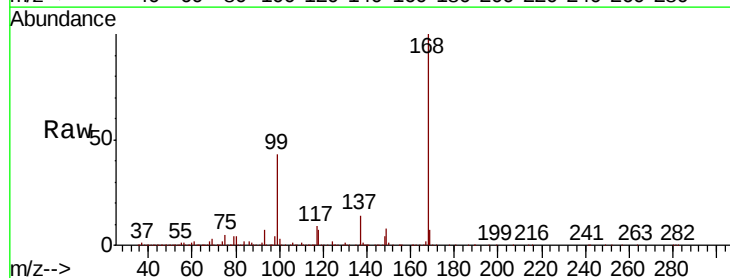
Tgt Ion: 75 Resp: 23999

Ion Ratio Lower Upper

75 100

110 11.3 19.0 57.0#

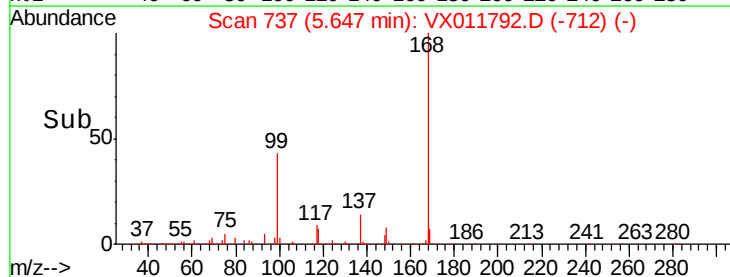
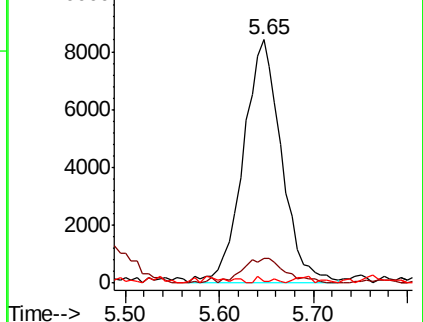
77 0.6 24.6 36.8#

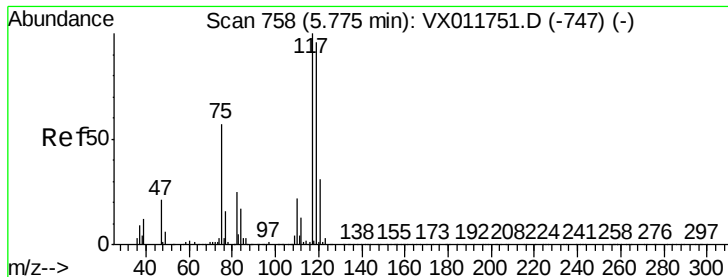


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.825 ug/l

RT: 5.65 min Scan# 737

Delta R.T. -0.13 min

Lab File: VX011792.D

Acq: 23 Aug 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

B-2ME

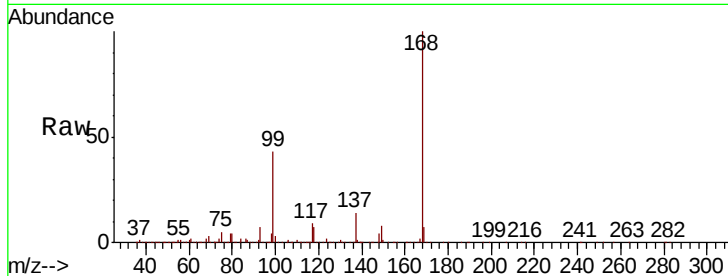
Tgt Ion: 117 Resp: 35566

Ion Ratio Lower Upper

117 100

119 3.8 76.6 114.8#

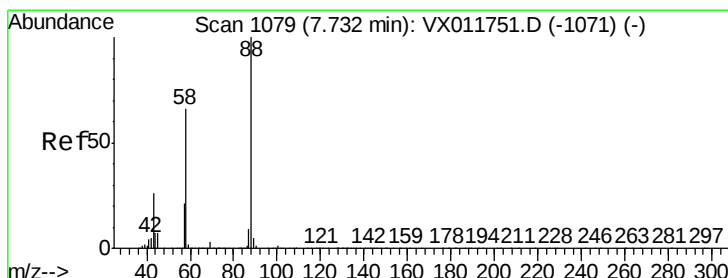
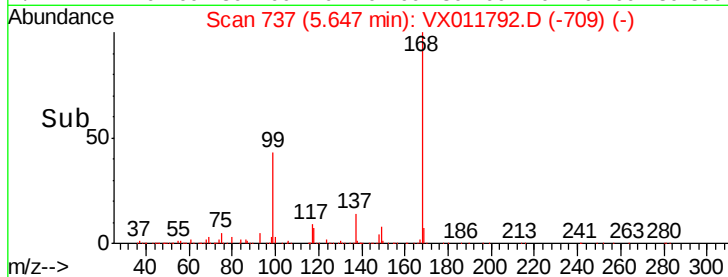
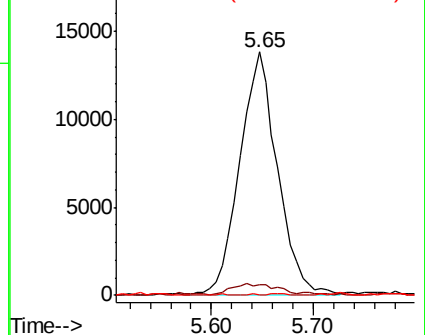
121 0.0 25.2 37.8#



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



#49

1,4-Dioxane

Concen: 1.418 ug/l

RT: 7.73 min Scan# 1078

Delta R.T. -0.01 min

Lab File: VX011792.D

Acq: 23 Aug 2019 12:56

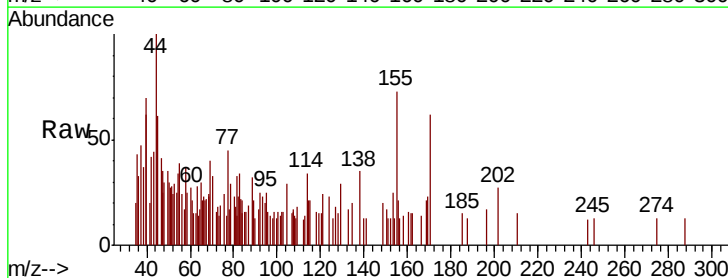
Tgt Ion: 88 Resp: 154

Ion Ratio Lower Upper

88 100

43 195.5 24.6 37.0#

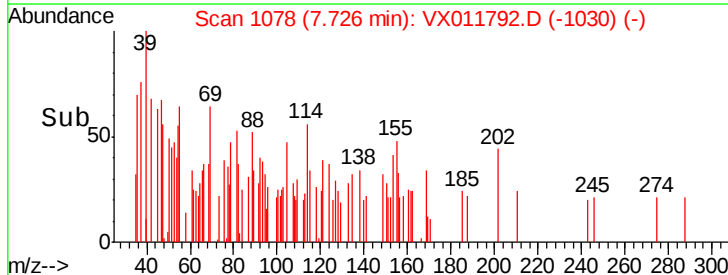
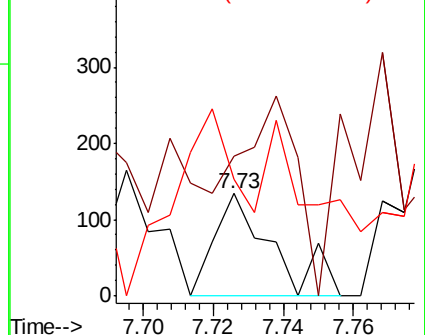
58 213.0 51.4 77.2#

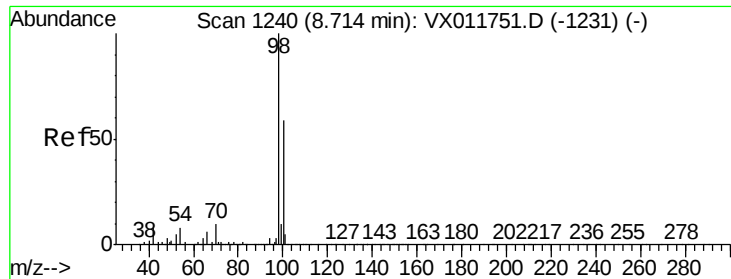


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.276 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011792.D

Acq: 23 Aug 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

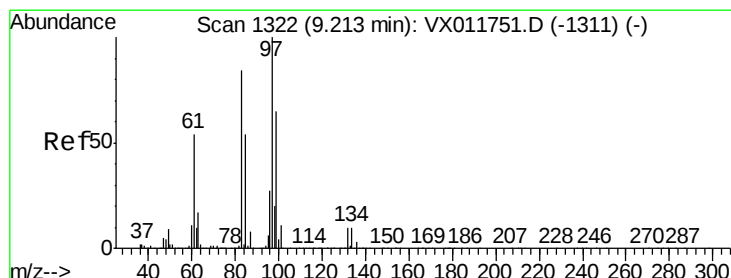
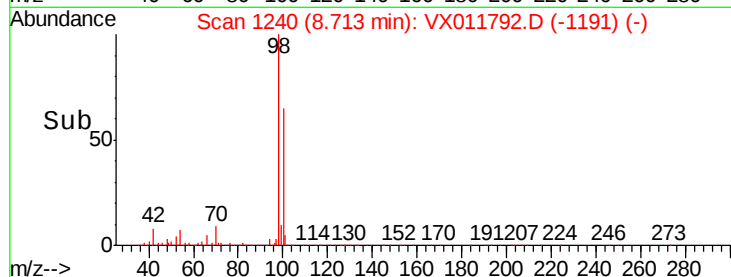
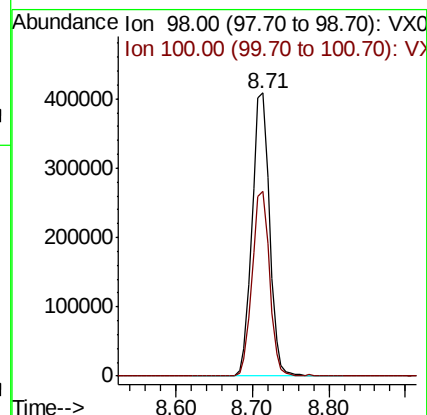
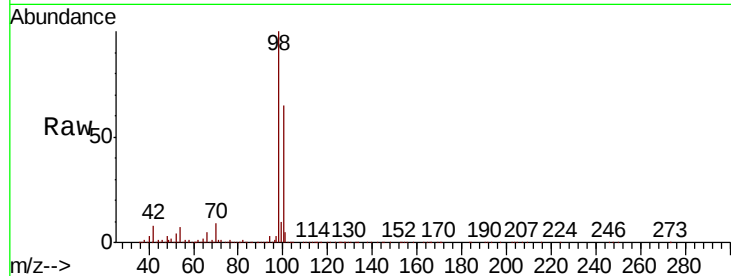
B-2ME

Tgt Ion: 98 Resp: 651715

Ion Ratio Lower Upper

98 100

100 65.0 52.1 78.1



#55

1,1,2-Trichloroethane

Concen: 0.493 ug/l

RT: 9.16 min Scan# 1314

Delta R.T. -0.05 min

Lab File: VX011792.D

Acq: 23 Aug 2019 12:56

Tgt Ion: 97 Resp: 1892

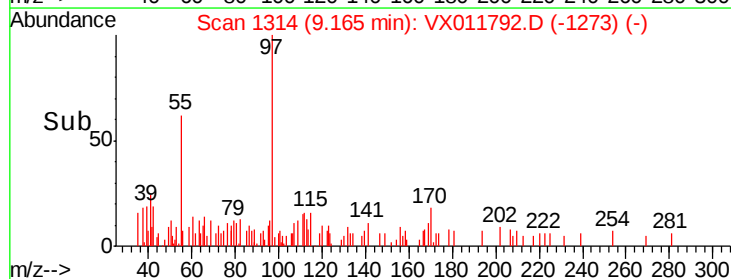
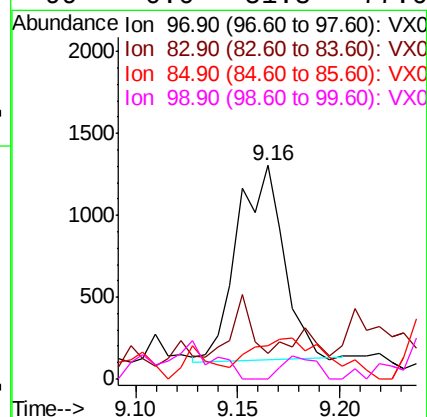
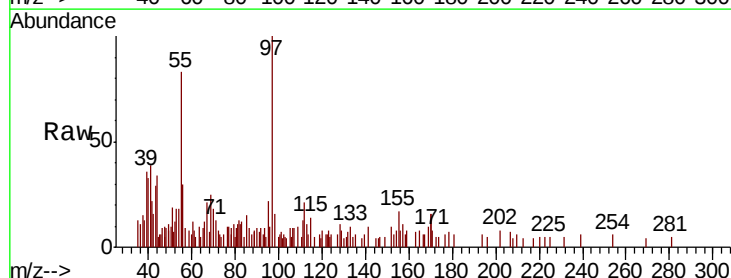
Ion Ratio Lower Upper

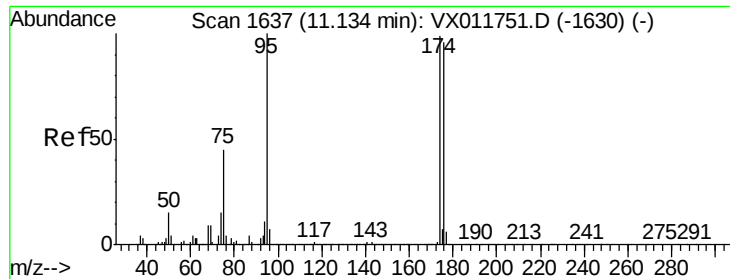
97 100

83 1.4 67.3 100.9#

85 5.7 43.4 65.2#

99 0.0 51.8 77.6#

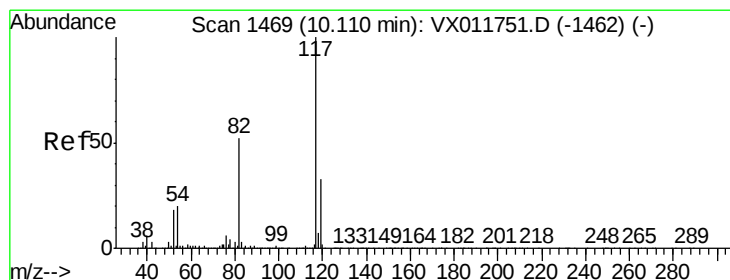
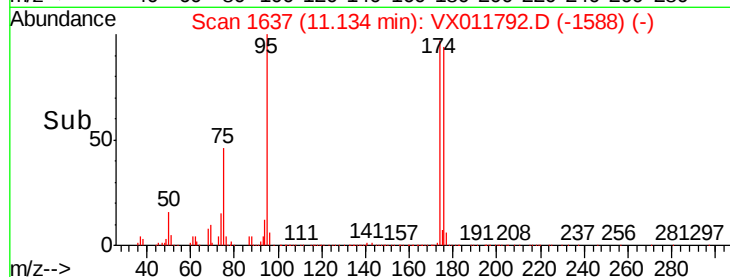
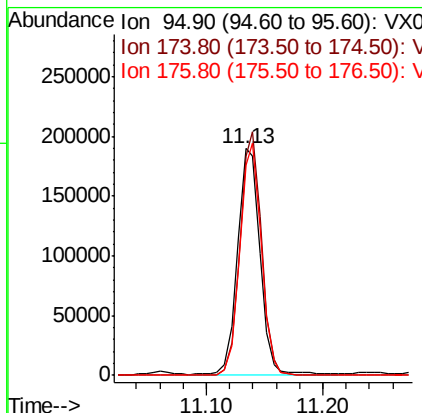
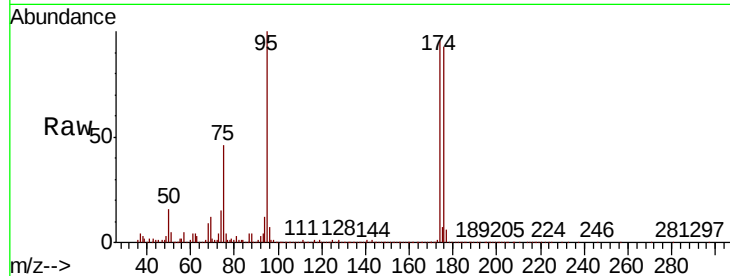




#62
4-Bromofluorobenzene
Concen: 48.524 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011792.D
Acq: 23 Aug 2019 12:56

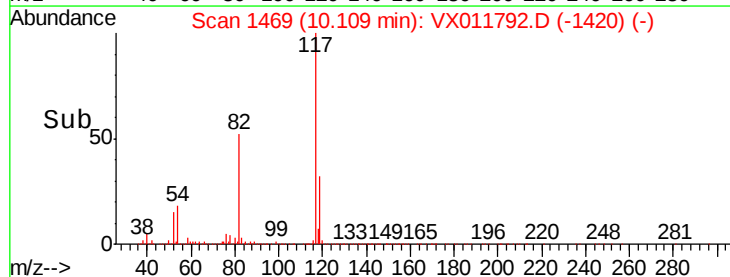
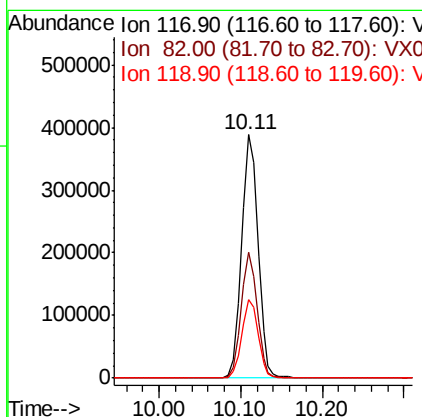
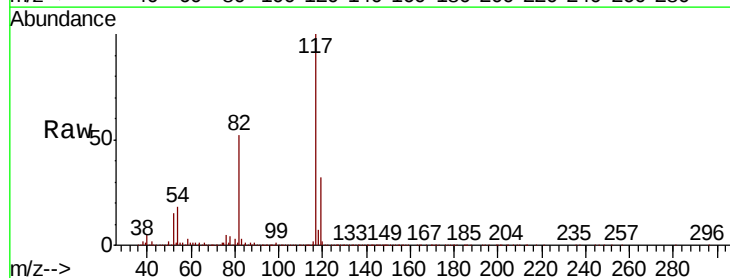
Instrument :
MSVOA_X
ClientSampleId :
B-2ME

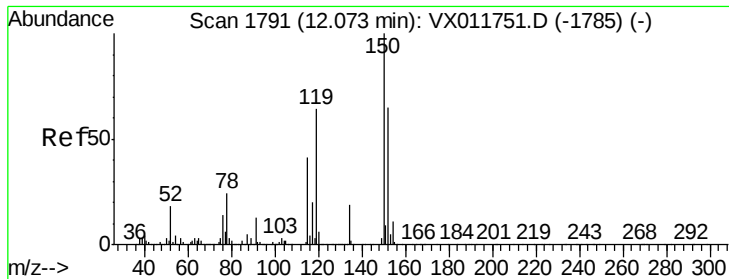
Tgt Ion: 95 Resp: 253663
Ion Ratio Lower Upper
95 100
174 102.8 0.0 197.4
176 98.3 0.0 194.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011792.D
Acq: 23 Aug 2019 12:56

Tgt Ion: 117 Resp: 535615
Ion Ratio Lower Upper
117 100
82 51.5 41.7 62.5
119 32.2 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.01 min

Lab File: VX011792.D

Acq: 23 Aug 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

B-2ME

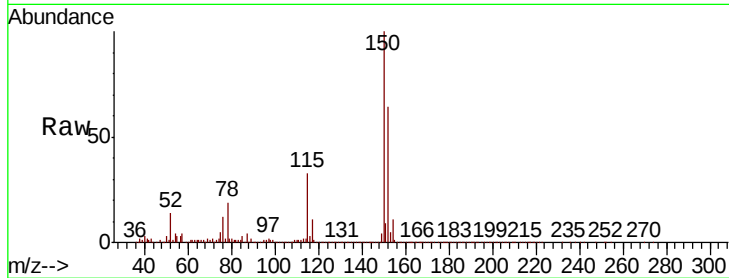
Tgt Ion: 152 Resp: 304897

Ion Ratio Lower Upper

152 100

115 51.8 37.3 111.8

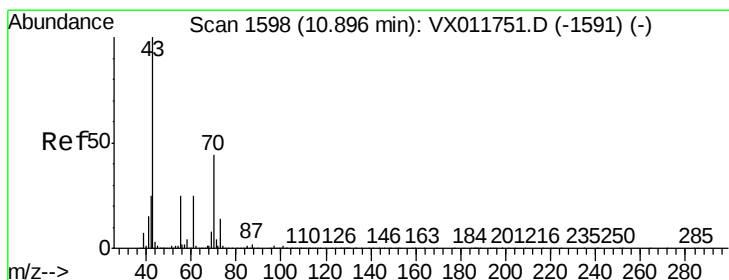
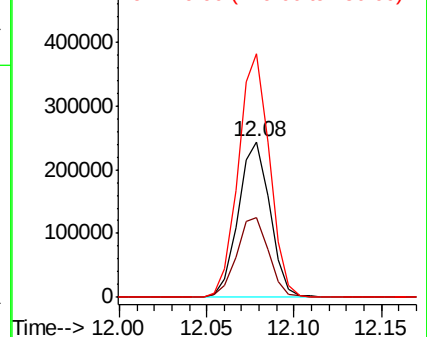
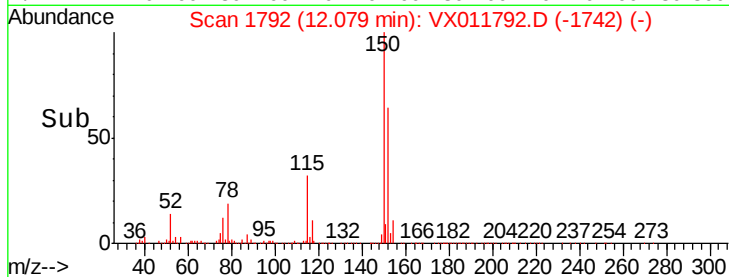
150 155.0 0.0 343.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 1.688 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX011792.D

Acq: 23 Aug 2019 12:56

Tgt Ion: 43 Resp: 12010

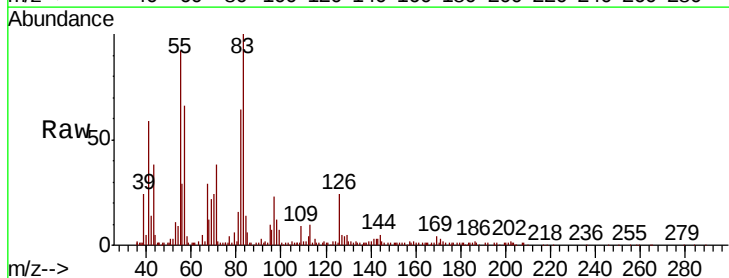
Ion Ratio Lower Upper

43 100

70 90.4 34.8 52.2#

55 262.7 19.5 29.3#

61 0.0 19.8 29.6#

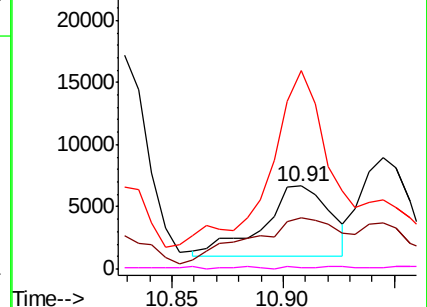
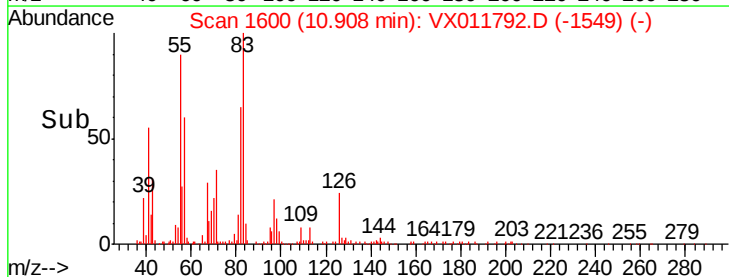


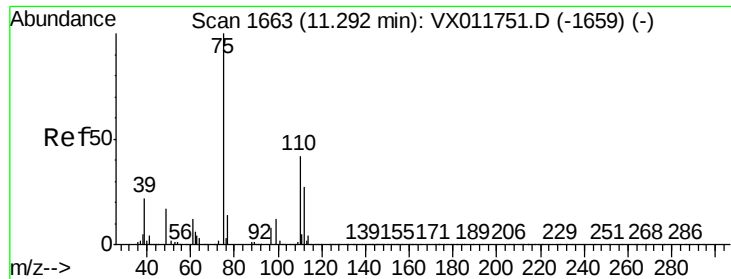
Abundance Ion 43.00 (42.70 to 43.70): VX0

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





#76

1,2,3-Trichloropropane

Concen: 20.746 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011792.D

Acq: 23 Aug 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

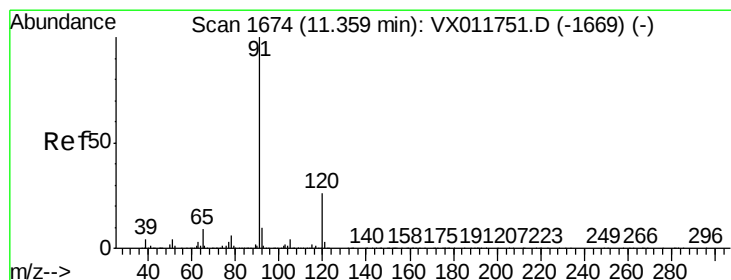
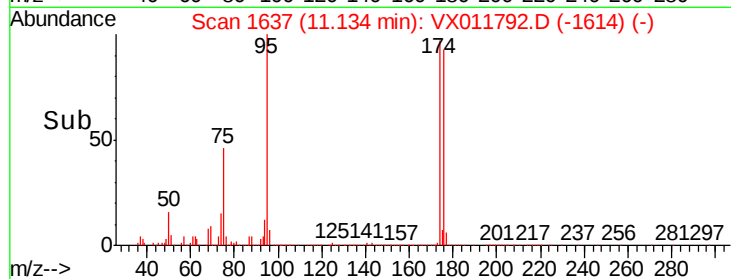
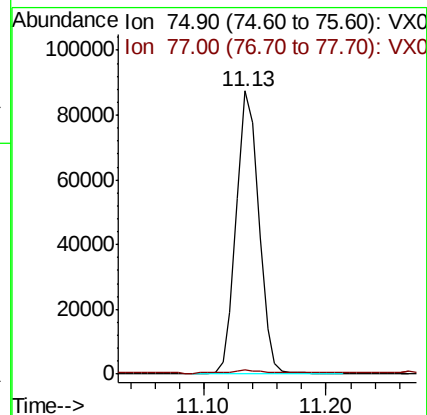
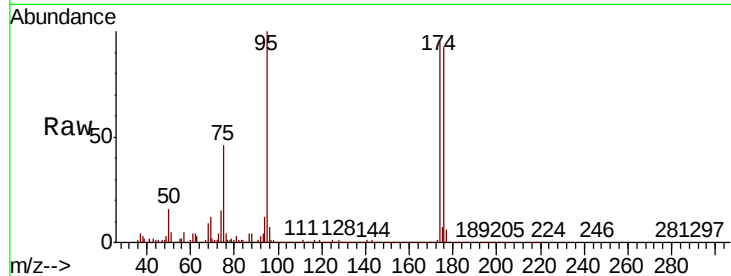
B-2ME

Tgt Ion: 75 Resp: 110993

Ion Ratio Lower Upper

75 100

77 1.7 21.1 63.3#



#78

n-propylbenzene

Concen: 0.264 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX011792.D

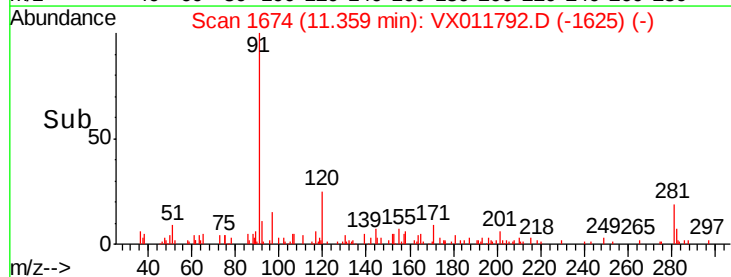
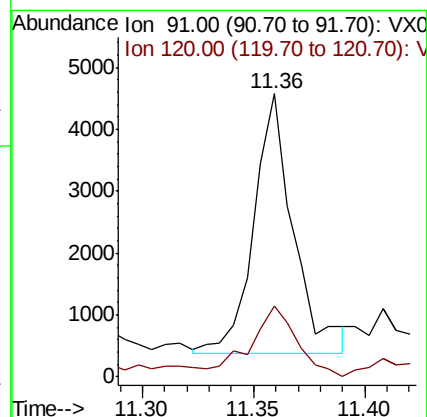
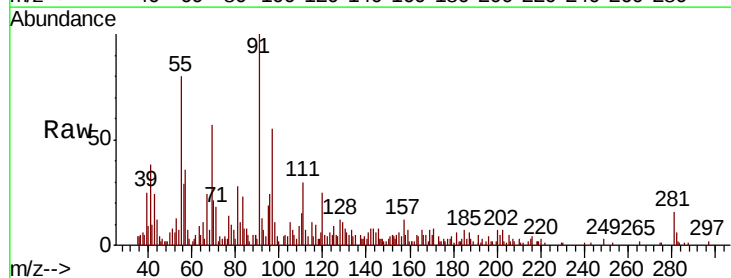
Acq: 23 Aug 2019 12:56

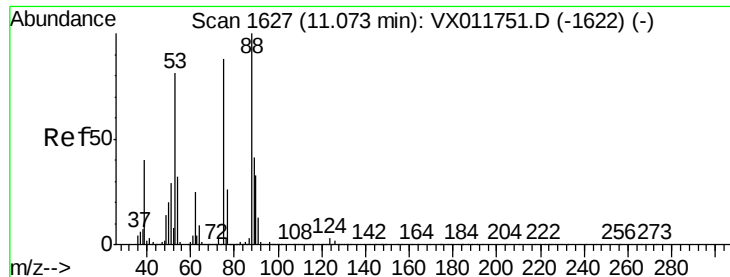
Tgt Ion: 91 Resp: 5187

Ion Ratio Lower Upper

91 100

120 31.9 12.7 38.1





#81

trans-1,4-Dichloro-2-butene

Concen: 62.567 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011792.D

Acq: 23 Aug 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

B-2ME

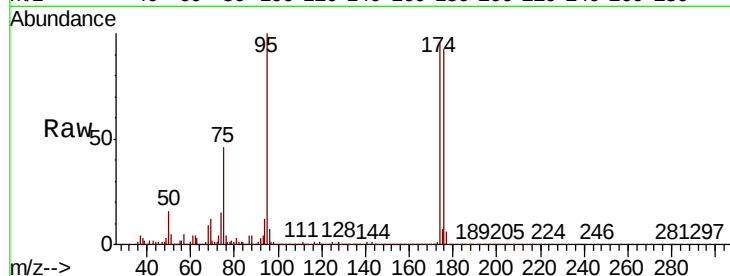
Tgt Ion: 75 Resp: 110993

Ion Ratio Lower Upper

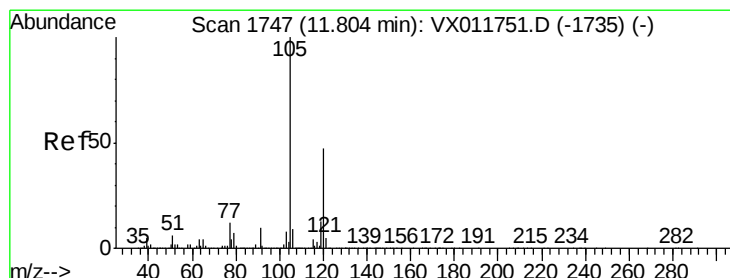
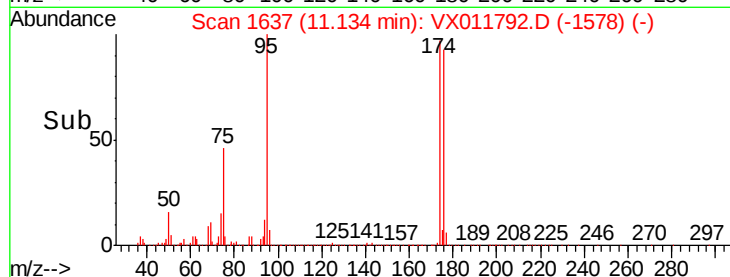
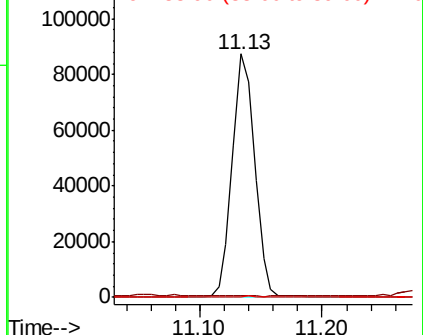
75 100

53 0.3 77.1 115.7#

89 0.4 38.5 57.7#



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



#84

1,2,4-Trimethylbenzene

Concen: 3.415 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.14 min

Lab File: VX011792.D

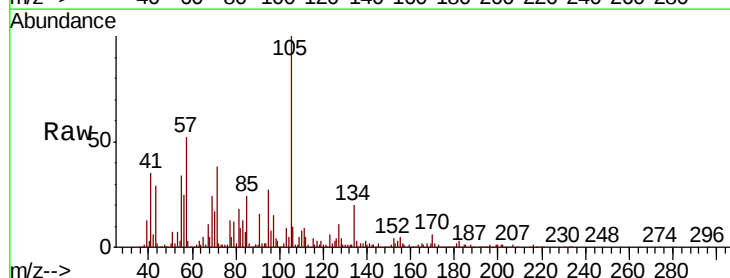
Acq: 23 Aug 2019 12:56

Tgt Ion: 105 Resp: 52863

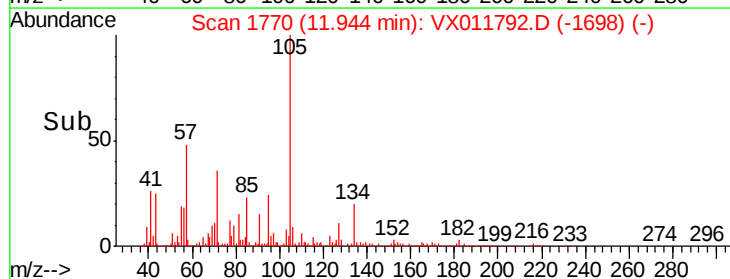
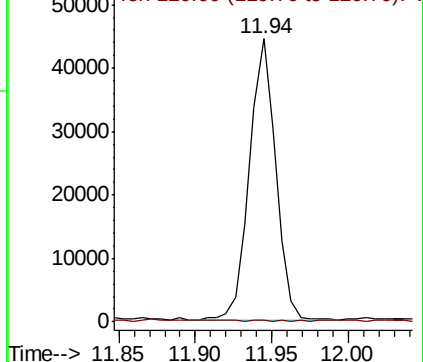
Ion Ratio Lower Upper

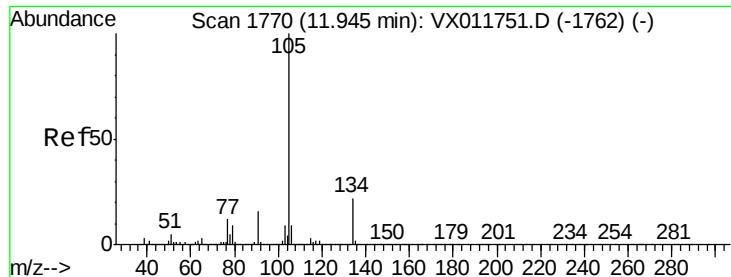
105 100

120 0.0 23.7 71.1#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

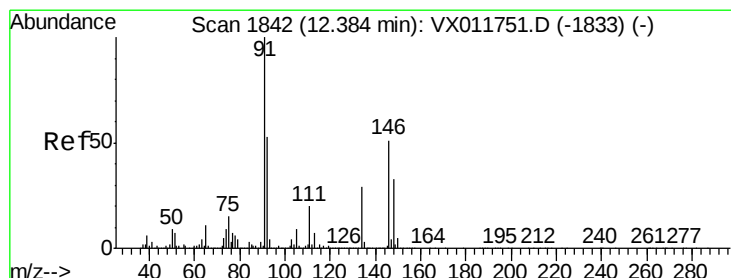
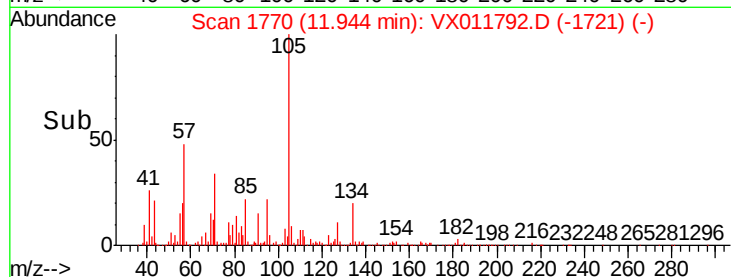
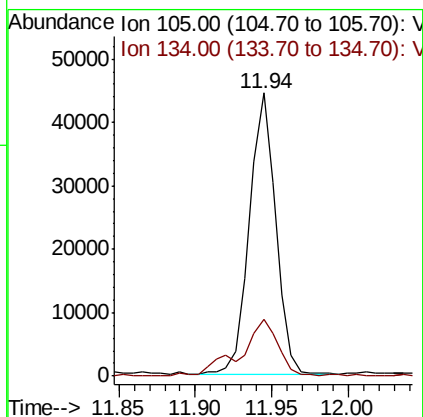
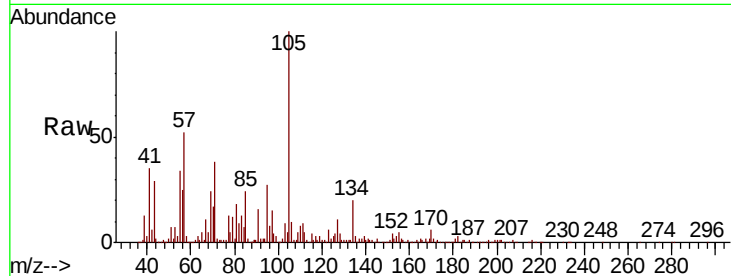




#85
 sec-Butylbenzene
 Concen: 3.055 ug/l
 RT: 11.94 min Scan# 1770
 Delta R.T. -0.00 min
 Lab File: VX011792.D
 Acq: 23 Aug 2019 12:56

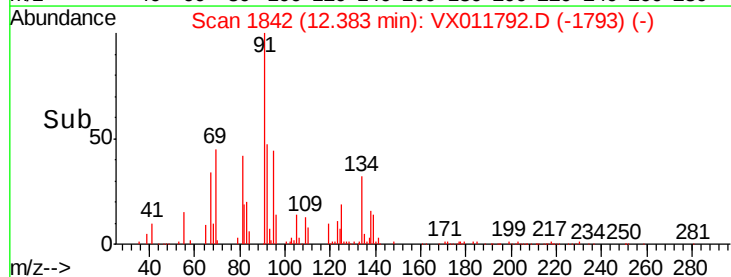
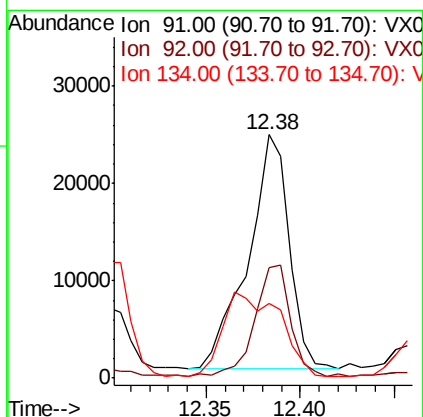
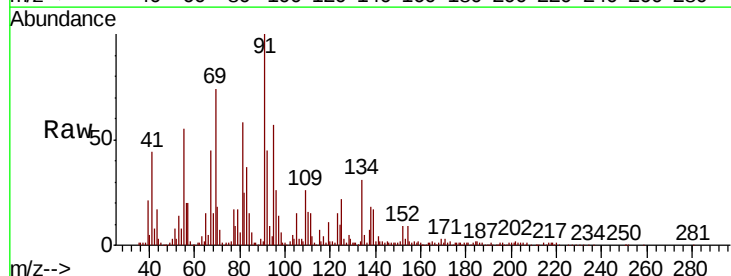
Instrument :
 MSVOA_X
 ClientSampleId :
 B-2ME

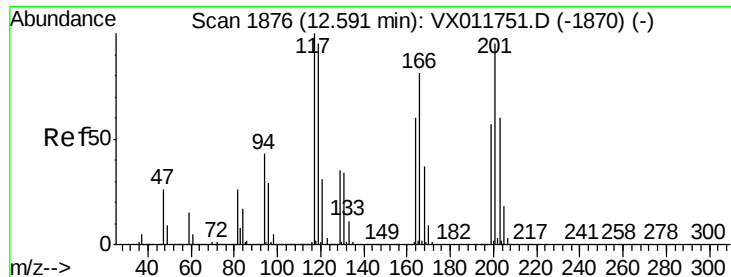
Tgt Ion: 105 Resp: 52863
 Ion Ratio Lower Upper
 105 100
 134 27.8 10.8 32.3



#89
 n-Butylbenzene
 Concen: 2.667 ug/l
 RT: 12.38 min Scan# 1842
 Delta R.T. -0.00 min
 Lab File: VX011792.D
 Acq: 23 Aug 2019 12:56

Tgt Ion: 91 Resp: 36750
 Ion Ratio Lower Upper
 91 100
 92 41.8 26.7 80.0
 134 0.0 14.6 43.8#





#90

Hexachloroethane

Concen: 5.348 ug/l

RT: 12.66 min Scan# 1888

Delta R.T. 0.07 min

Lab File: VX011792.D

Acq: 23 Aug 2019 12:56

Instrument :

MSVOA_X

ClientSampleId :

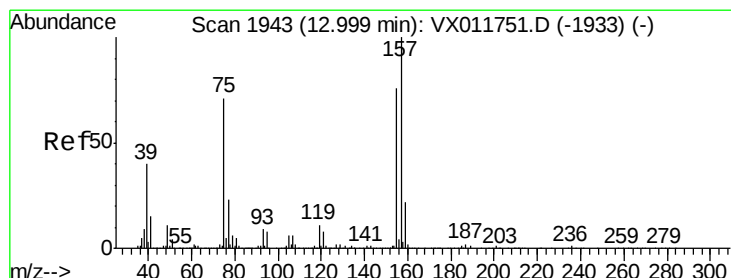
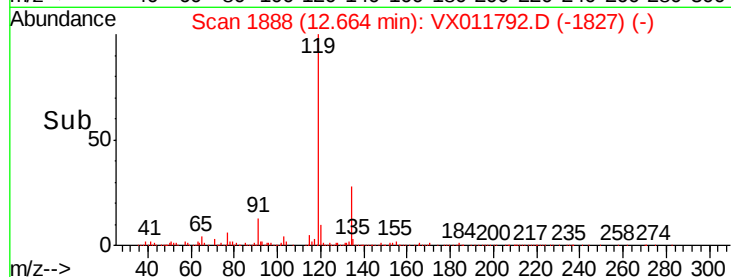
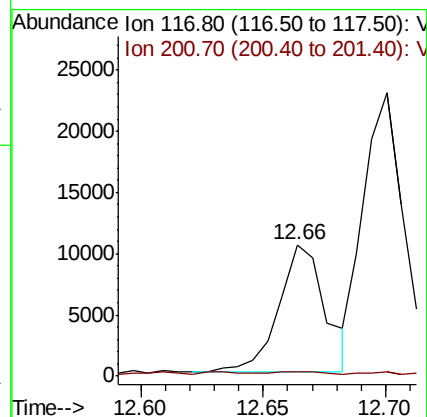
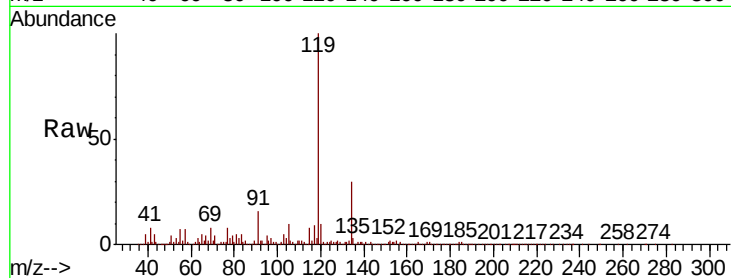
B-2ME

Tgt Ion:117 Resp: 13830

Ion Ratio Lower Upper

117 100

201 2.1 49.6 149.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.527 ug/l

RT: 12.98 min Scan# 1940

Delta R.T. -0.02 min

Lab File: VX011792.D

Acq: 23 Aug 2019 12:56

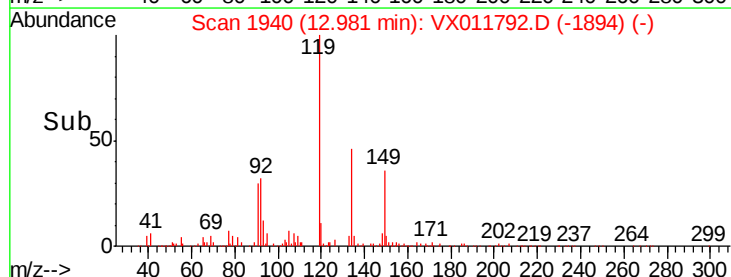
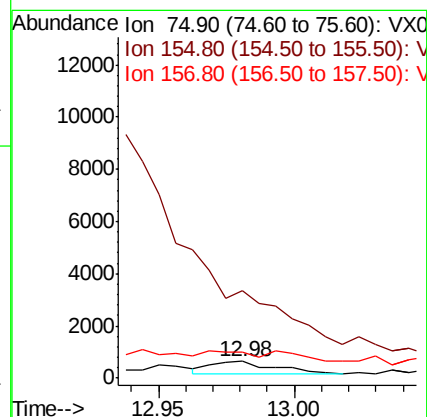
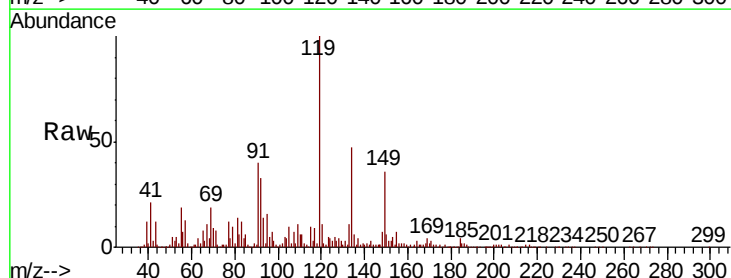
Tgt Ion: 75 Resp: 745

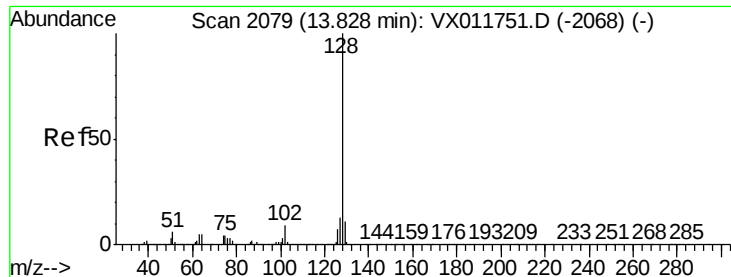
Ion Ratio Lower Upper

75 100

155 0.0 52.6 157.9#

157 32.9 68.3 204.9#

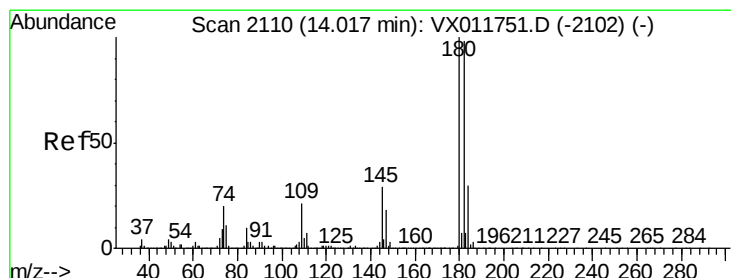
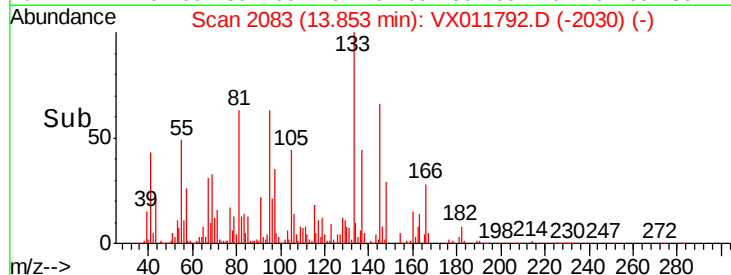
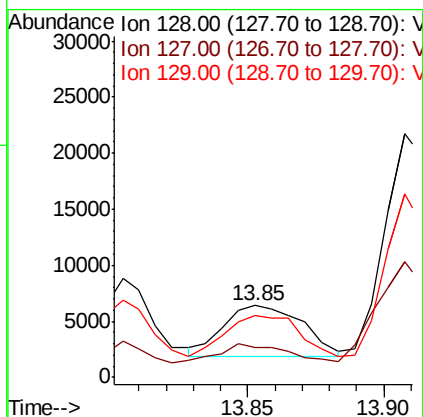
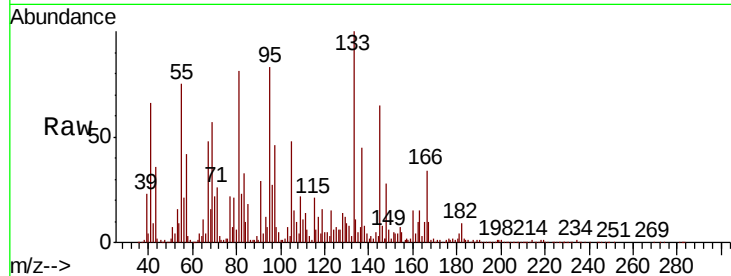




#95
Naphthalene
Concen: 0.483 ug/l
RT: 13.85 min Scan# 2083
Delta R.T. 0.02 min
Lab File: VX011792.D
Acq: 23 Aug 2019 12:56

Instrument :
MSVOA_X
ClientSampleId :
B-2ME

Tgt Ion:128 Resp: 9204
Ion Ratio Lower Upper
128 100
127 36.9 10.4 15.6#
129 79.9 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 0.543 ug/l
RT: 14.04 min Scan# 2113
Delta R.T. 0.02 min
Lab File: VX011792.D
Acq: 23 Aug 2019 12:56

Tgt Ion:180 Resp: 3771
Ion Ratio Lower Upper
180 100
182 23.7 48.5 145.5#
145 1838.4 14.6 43.8#

