

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082119\
 Data File : VX011727.D
 Acq On : 21 Aug 2019 13:10
 Operator : JC/SP
 Sample : K4413-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FIELD-BLANK

Quant Time: Aug 22 03:35:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X081519W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 16 04:15:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	411039	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	631849	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	572159	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	265152	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	223366	58.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.20%	
35) Dibromofluoromethane	5.49	113	179095	43.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.68%	
50) Toluene-d8	8.71	98	727182	56.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.94%	
62) 4-Bromofluorobenzene	11.13	95	240871	44.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.64%	

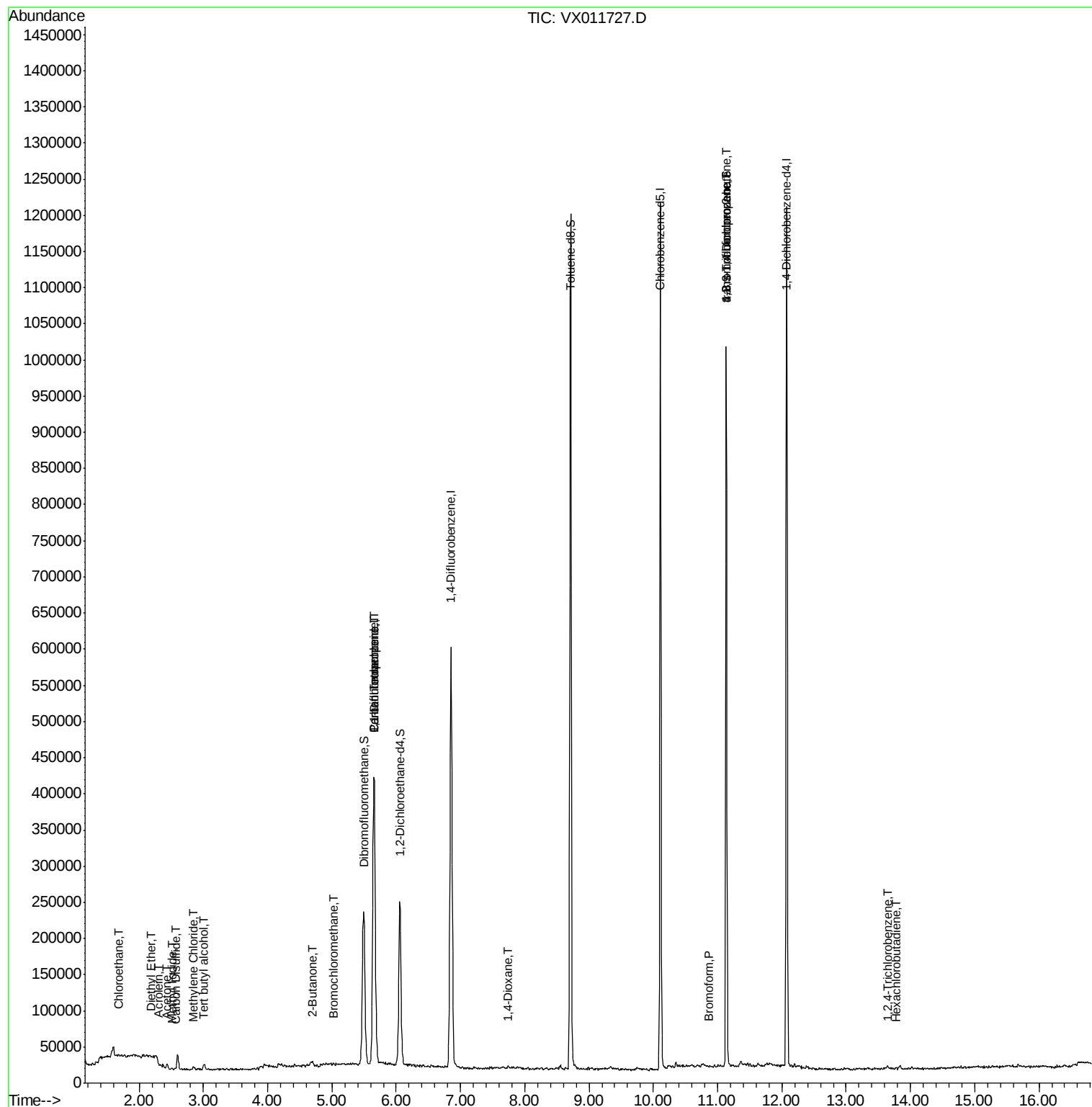
Target Compounds						Qvalue
6) Chloroethane	1.70	64	438	0.244	ug/l #	17
8) Diethyl Ether	2.18	74	574	0.319	ug/l	88
10) Methyl Iodide	2.51	142	1758	0.340	ug/l #	88
11) Tert butyl alcohol	3.01	59	5589	5.977	ug/l #	84
13) Acrolein	2.30	56	919	15.222	ug/l #	15
16) Acetone	2.43	43	8464	4.416	ug/l	94
17) Carbon Disulfide	2.57	76	2339	0.283	ug/l #	92
20) Methylene Chloride	2.85	84	2079	0.517	ug/l #	76
25) 2-Butanone	4.68	43	1934	0.643	ug/l #	23
28) Bromochloromethane	5.02	49	595	0.206	ug/l #	90
36) 1,1-Dichloropropene	5.65	75	25900	4.794	ug/l #	53
38) Carbon Tetrachloride	5.65	117	38379	6.448	ug/l #	16
49) 1,4-Dioxane	7.74	88	203	1.589	ug/l #	1
71) Bromoform	10.86	173	149	3.323	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	117958	23.461	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	117958	62.338	ug/l #	11
93) 1,2,4-Trichlorobenzene	13.65	180	1471	0.224	ug/l	89
94) Hexachlorobutadiene	13.77	225	772	0.215	ug/l	77

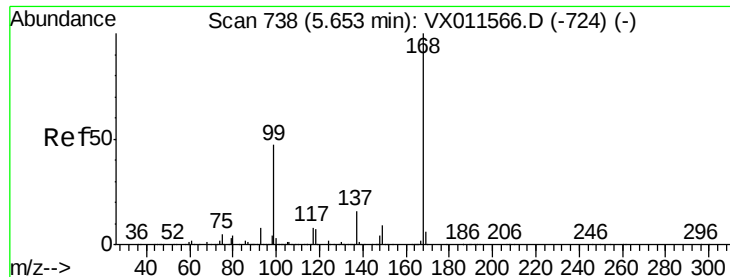
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Aug 16 04:15:26 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011727.D

Acq: 21 Aug 2019 13:10

Instrument :

MSVOA_X

ClientSampleId :

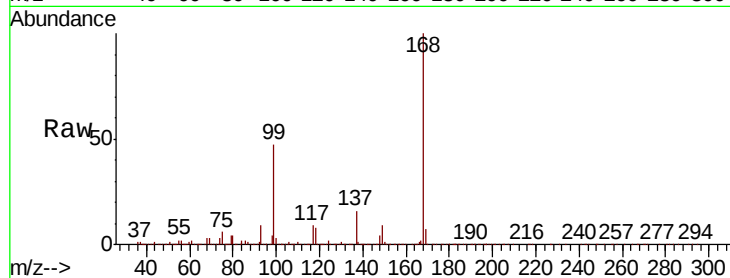
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Tgt Ion:168 Resp: 411039

Ion Ratio Lower Upper

168 100

99 47.0 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

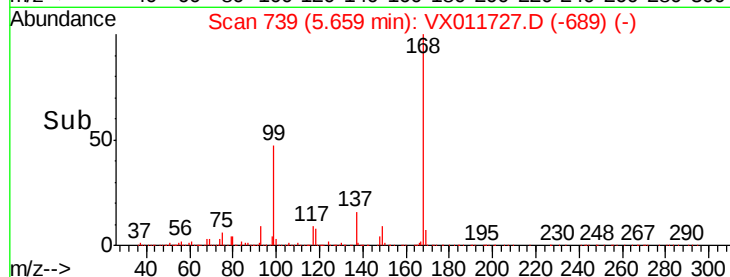
150000

100000

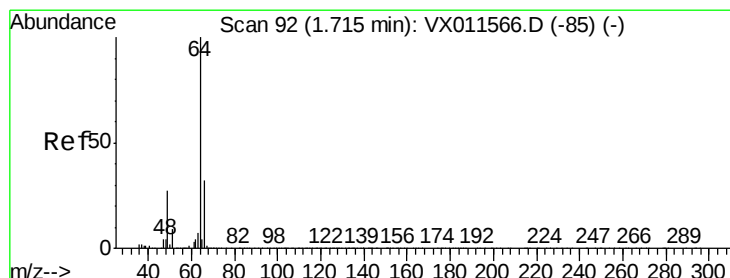
50000

0

5.50 5.60 5.70 5.80



Time-->



#6

Chloroethane

Concen: 0.244 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX011727.D

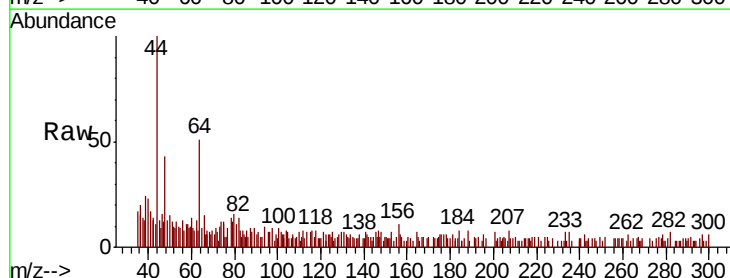
Acq: 21 Aug 2019 13:10

Tgt Ion: 64 Resp: 438

Ion Ratio Lower Upper

64 100

66 77.8 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1200

1000

800

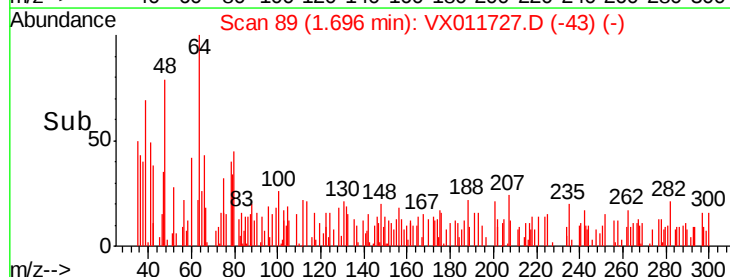
600

400

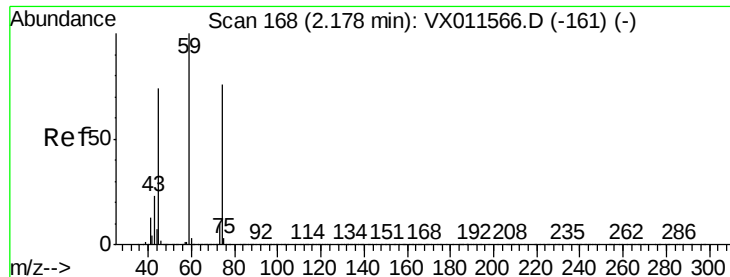
200

0

1.68 1.70 1.72



Time-->



#8

Diethyl Ether

Concen: 0.319 ug/l

RT: 2.18 min Scan# 169

Delta R.T. 0.01 min

Lab File: VX011727.D

Acq: 21 Aug 2019 13:10

Instrument :

MSVOA_X

ClientSampled :

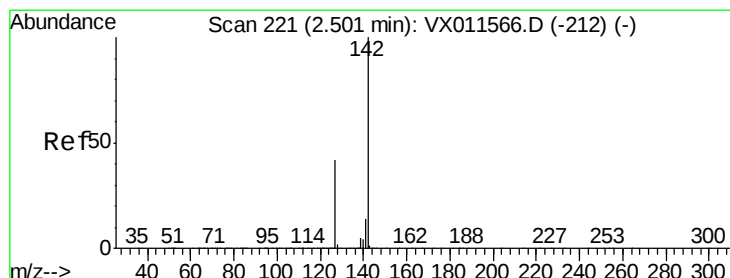
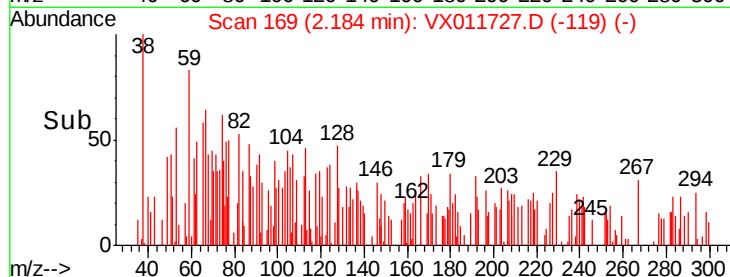
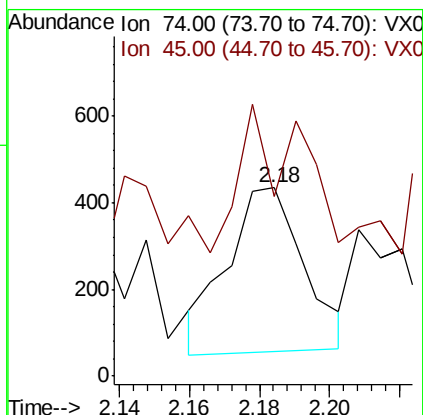
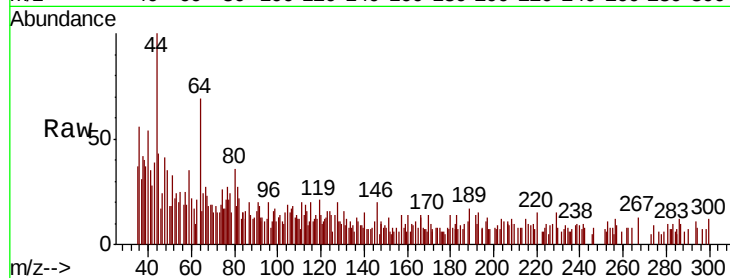
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Tgt Ion: 74 Resp: 574

Ion Ratio Lower Upper

74 100

45 84.8 48.2 144.6



#10

Methyl Iodide

Concen: 0.340 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.01 min

Lab File: VX011727.D

Acq: 21 Aug 2019 13:10

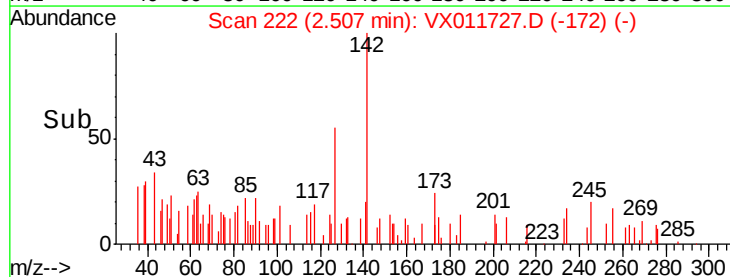
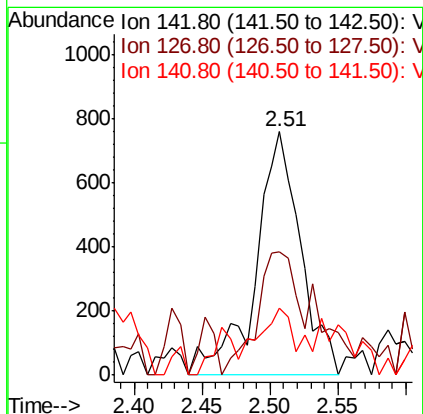
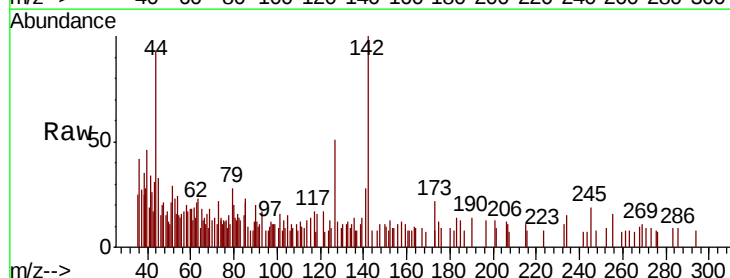
Tgt Ion: 142 Resp: 1758

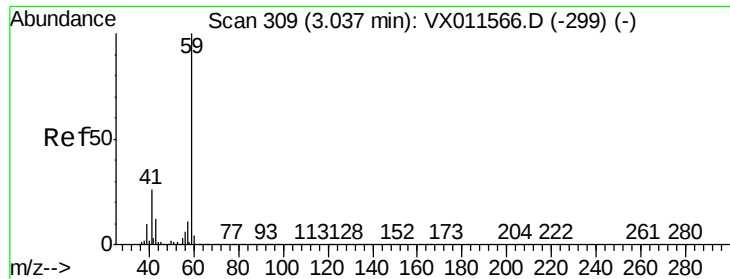
Ion Ratio Lower Upper

142 100

127 45.4 32.8 49.2

141 24.5 11.4 17.2#

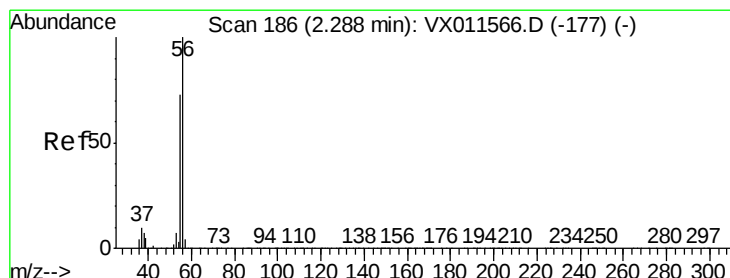
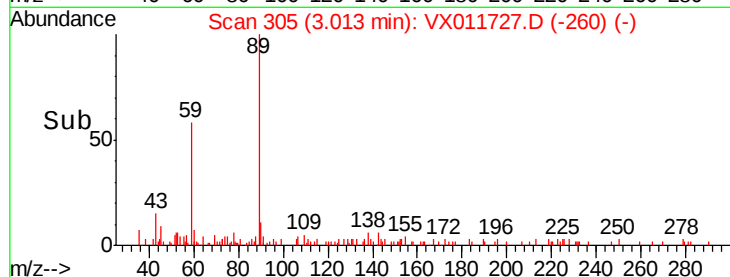
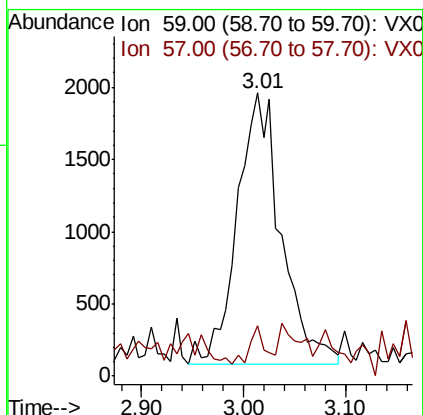
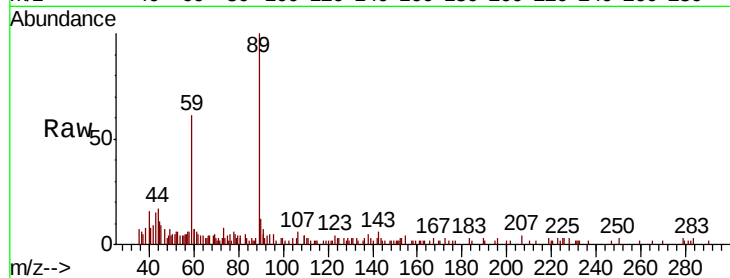




#11
Tert butyl alcohol
Concen: 5.977 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.02 min
Lab File: VX011727.D
Acq: 21 Aug 2019 13:10

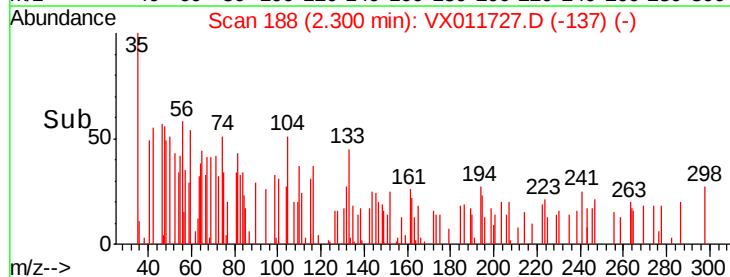
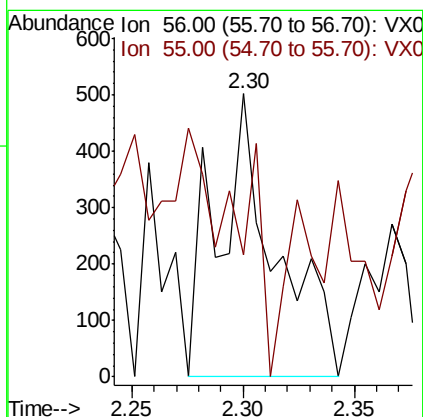
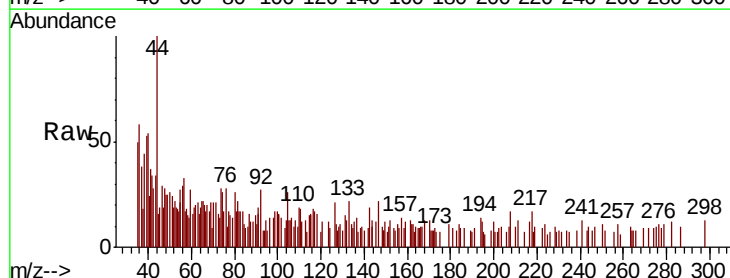
Instrument :
MSVOA_X
ClientSampleId :
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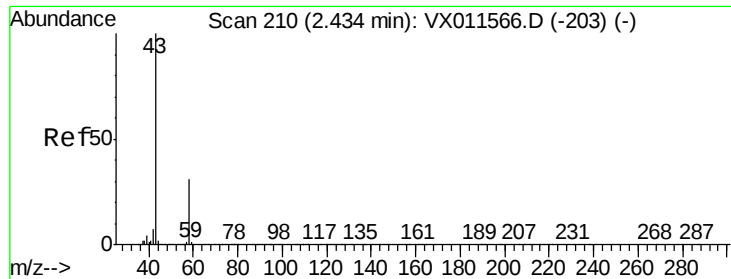
Tgt Ion: 59 Resp: 5589
Ion Ratio Lower Upper
59 100
57 5.0 8.7 13.1#



#13
Acrolein
Concen: 15.222 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX011727.D
Acq: 21 Aug 2019 13:10

Tgt Ion: 56 Resp: 919
Ion Ratio Lower Upper
56 100
55 0.0 55.5 83.3#





#16

Acetone

Concen: 4.416 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011727.D

Acq: 21 Aug 2019 13:10

Instrument :

MSVOA_X

ClientSampled :

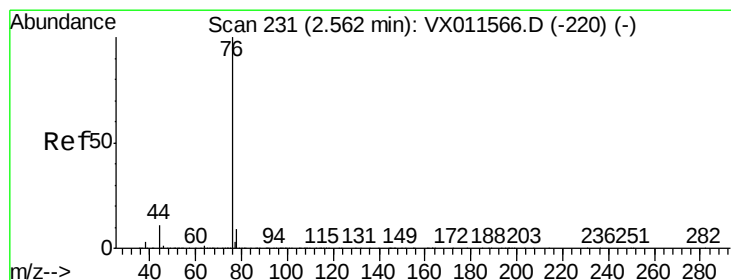
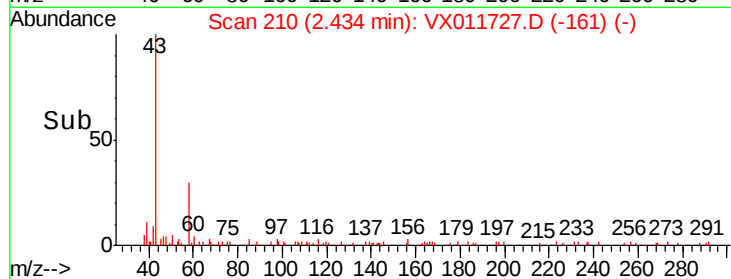
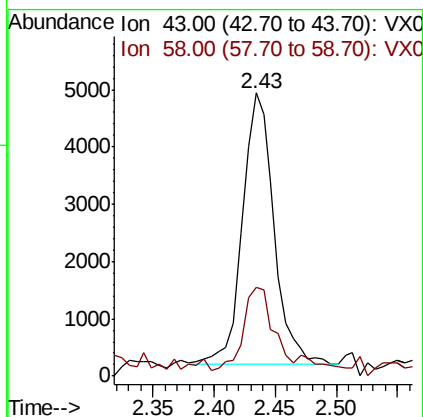
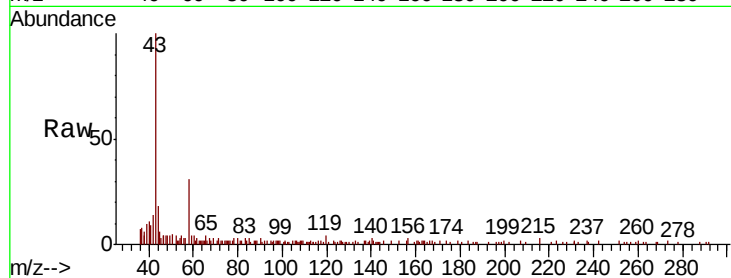
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Tgt Ion: 43 Resp: 8464

Ion Ratio Lower Upper

43 100

58 28.2 25.2 37.8



#17

Carbon Disulfide

Concen: 0.283 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX011727.D

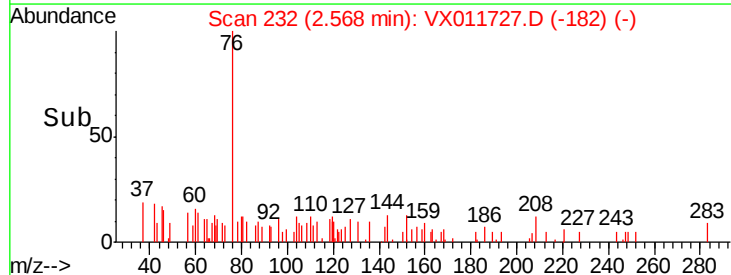
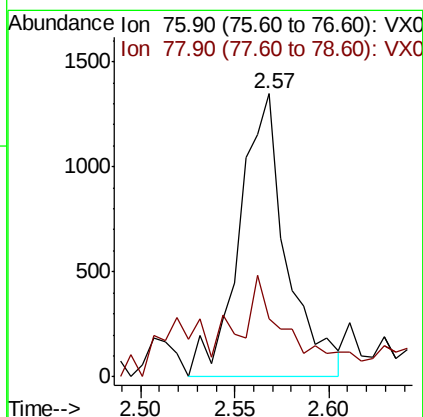
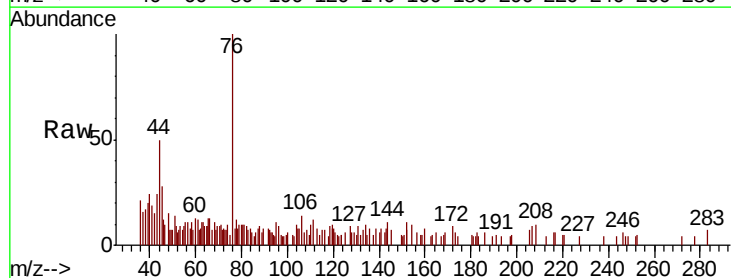
Acq: 21 Aug 2019 13:10

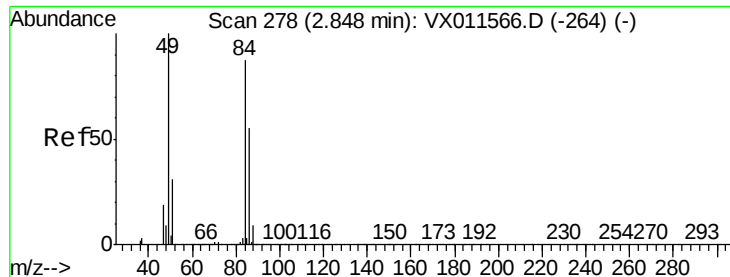
Tgt Ion: 76 Resp: 2339

Ion Ratio Lower Upper

76 100

78 11.8 7.2 10.8#

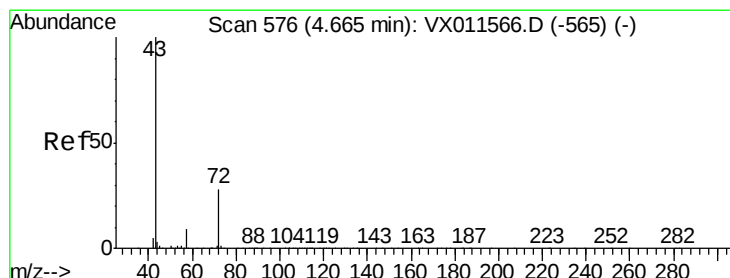
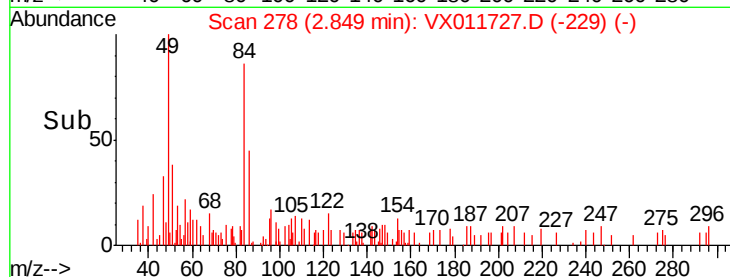
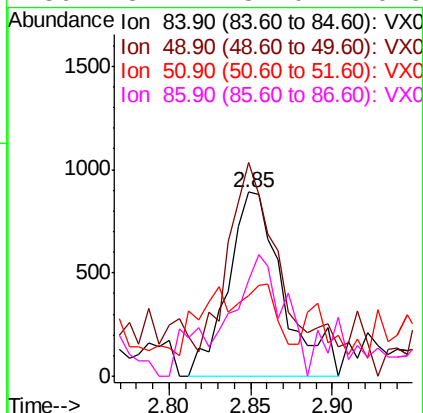
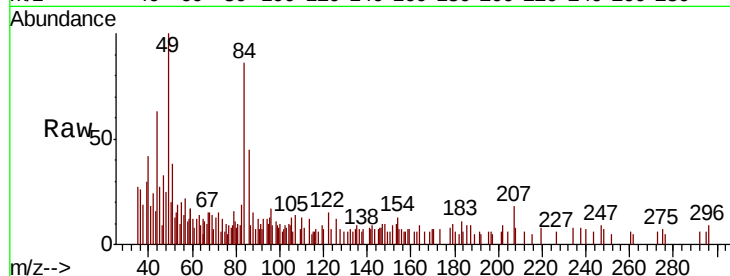




#20
Methylene Chloride
Concen: 0.517 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011727.D
Acq: 21 Aug 2019 13:10

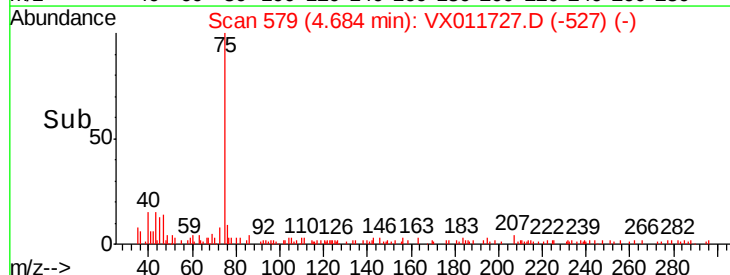
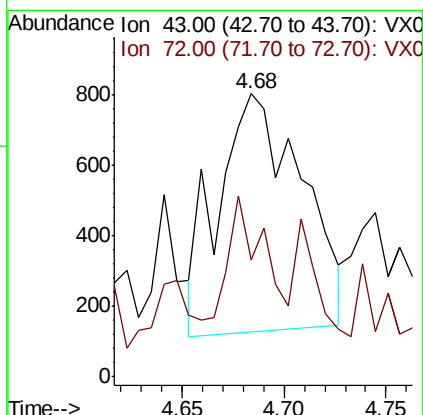
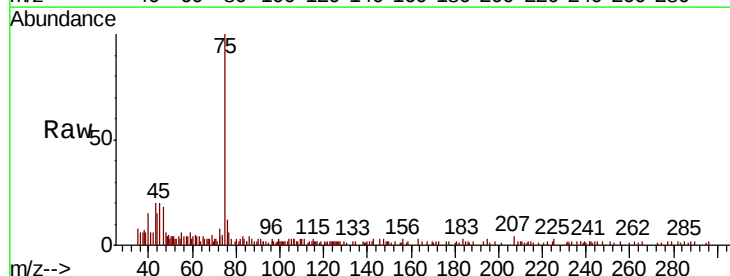
Instrument :
MSVOA_X
ClientSampleId :
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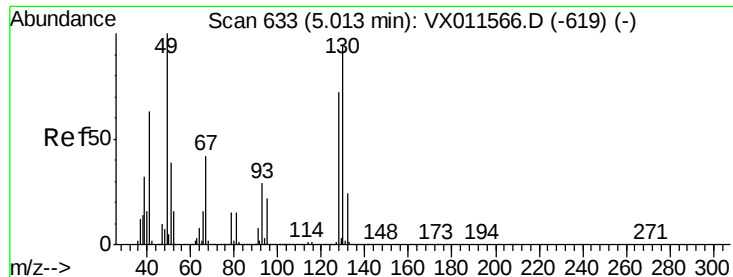
Tgt Ion:	84	Resp:	2079
Ion	Ratio	Lower	Upper
84	100		
49	99.9	92.4	138.6
51	21.2	28.5	42.7#
86	31.7	51.0	76.6#



#25
2-Butanone
Concen: 0.643 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.02 min
Lab File: VX011727.D
Acq: 21 Aug 2019 13:10

Tgt Ion:	43	Resp:	1934
Ion	Ratio	Lower	Upper
43	100		
72	68.1	22.2	33.4#





#28

Bromochloromethane

Concen: 0.206 ug/l

RT: 5.02 min Scan# 634

Delta R.T. 0.01 min

Lab File: VX011727.D

Acq: 21 Aug 2019 13:10

Instrument :

MSVOA_X

ClientSampleId :

FIELD-BLANK

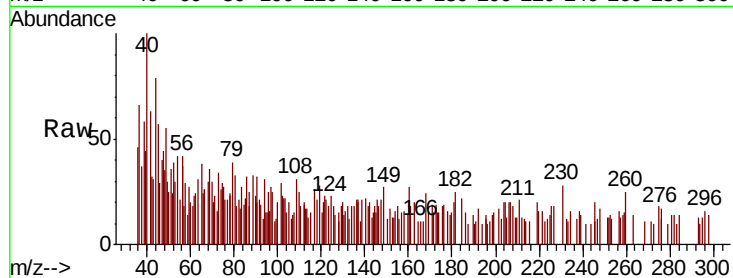
Tgt Ion: 49 Resp: 595

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.0

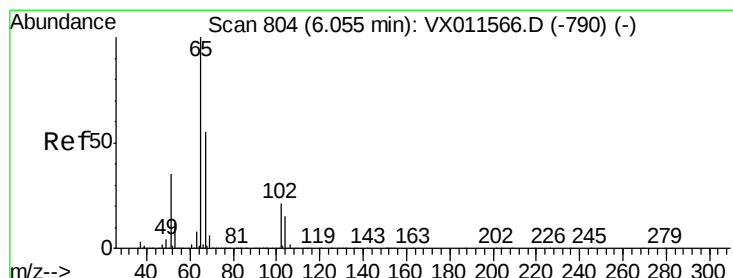
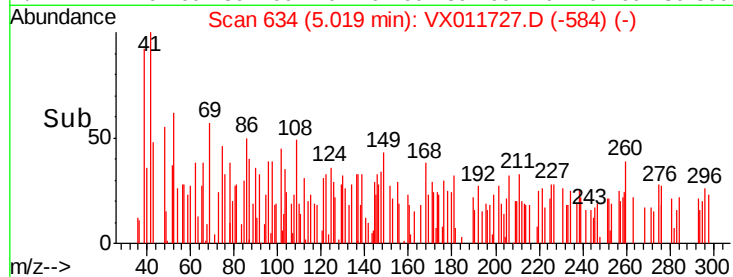
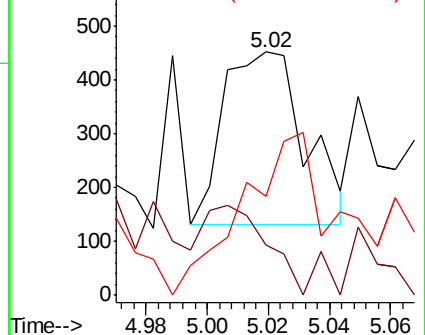
130 105.9 76.6 115.0



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



#33

1,2-Dichloroethane-d4

Concen: 58.598 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011727.D

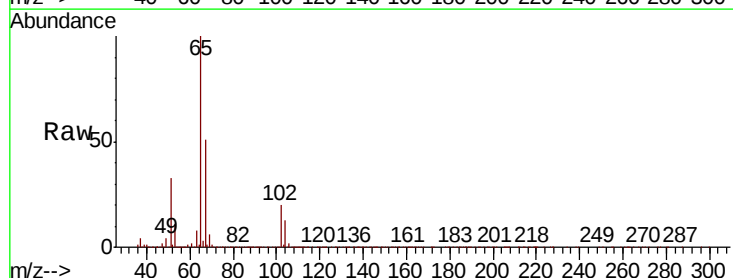
Acq: 21 Aug 2019 13:10

Tgt Ion: 65 Resp: 223366

Ion Ratio Lower Upper

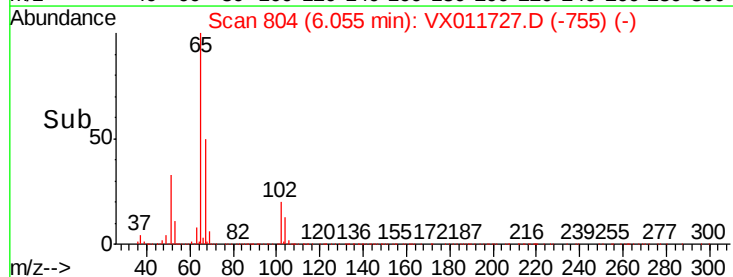
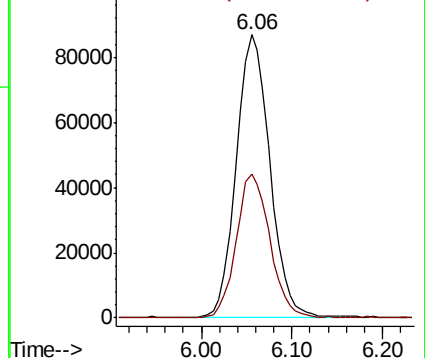
65 100

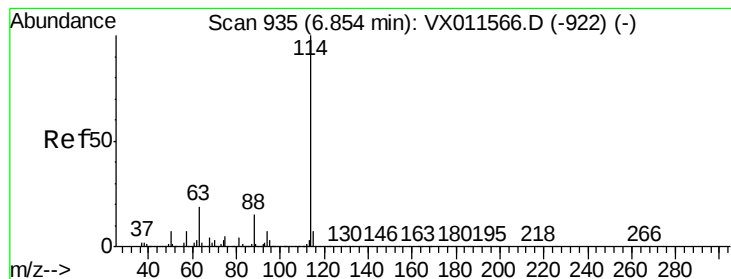
67 50.5 0.0 107.6



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# 935

Delta R.T. 0.00 min

Lab File: VX011727.D

Acq: 21 Aug 2019 13:10

Instrument :

MSVOA_X

ClientSampleId :

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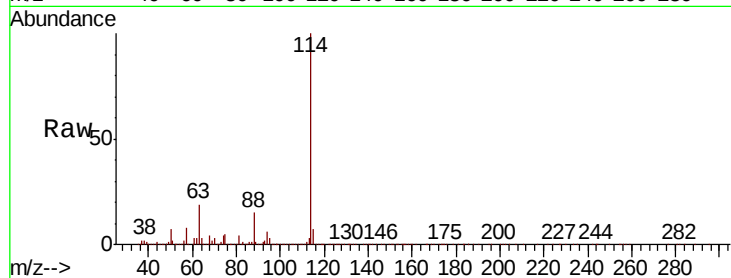
Tgt Ion:114 Resp: 631849

Ion Ratio Lower Upper

114 100

63 18.6 0.0 37.8

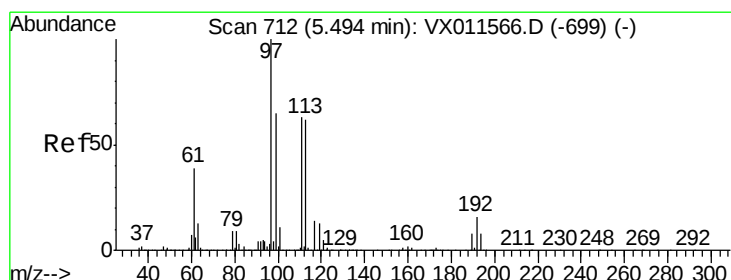
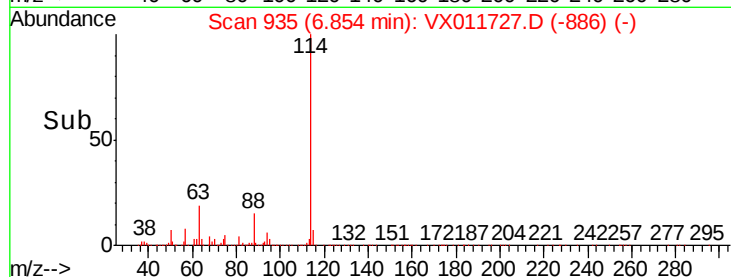
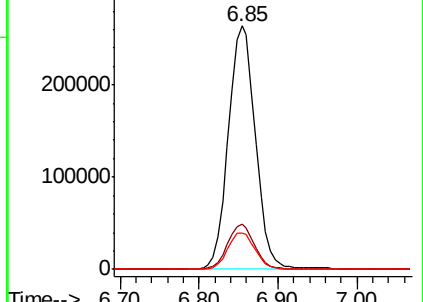
88 14.7 0.0 30.2



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: 43.336 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX011727.D

Acq: 21 Aug 2019 13:10

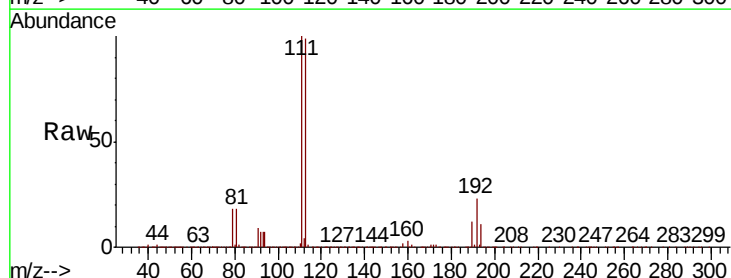
Tgt Ion:113 Resp: 179095

Ion Ratio Lower Upper

113 100

111 102.5 81.1 121.7

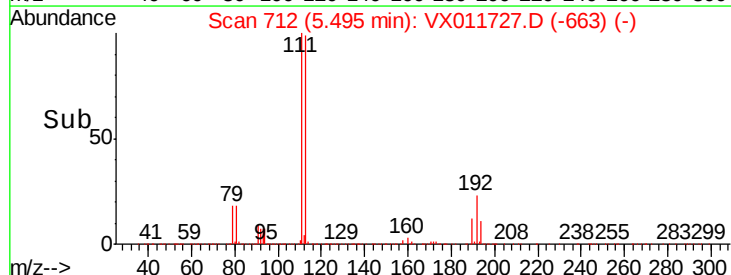
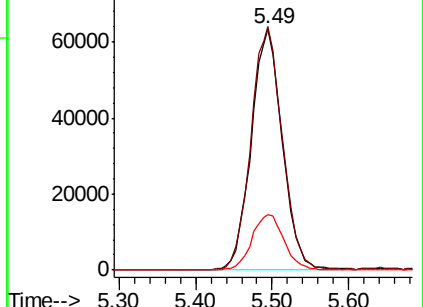
192 24.1 20.8 31.2

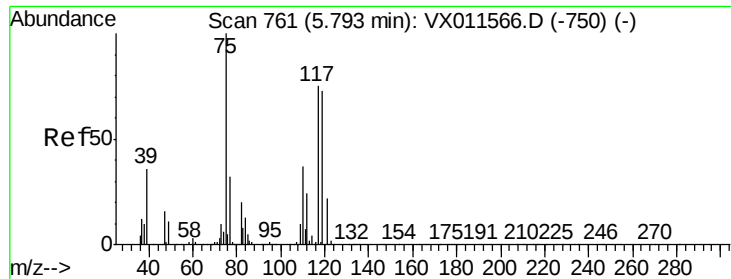


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.794 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011727.D

Acq: 21 Aug 2019 13:10

Instrument :

MSVOA_X

ClientSampleId :

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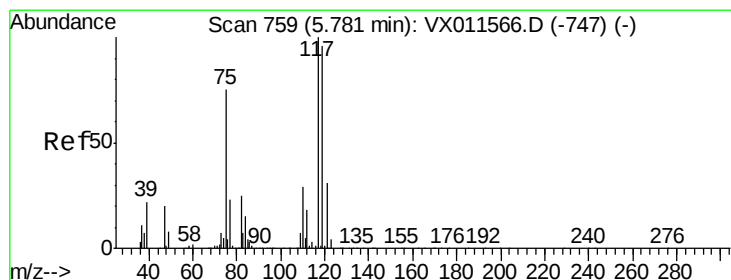
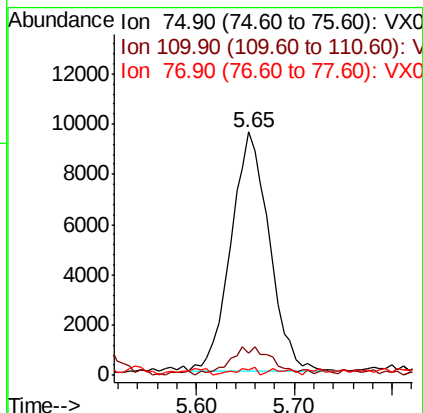
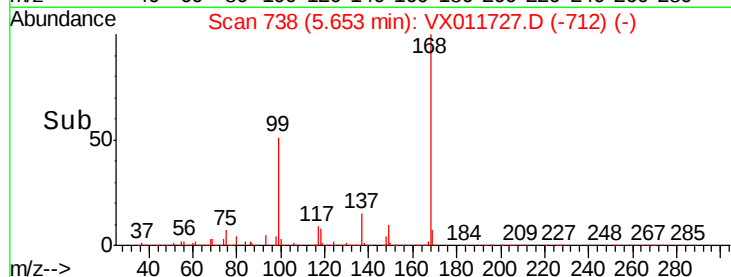
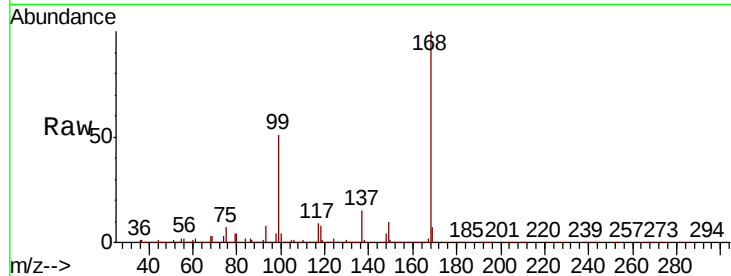
Tgt Ion: 75 Resp: 25900

Ion Ratio Lower Upper

75 100

110 13.7 19.4 58.1#

77 1.7 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 6.448 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011727.D

Acq: 21 Aug 2019 13:10

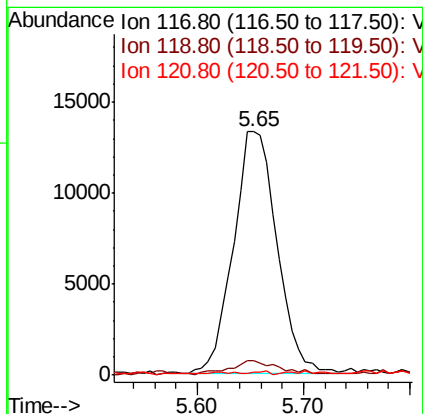
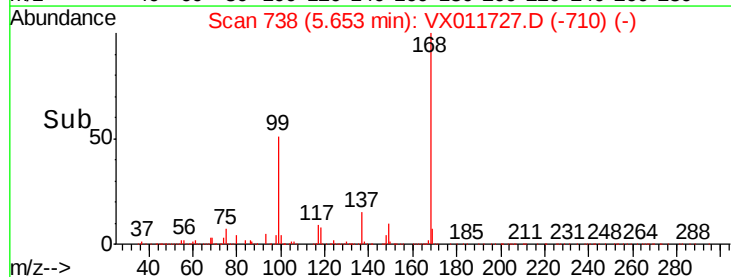
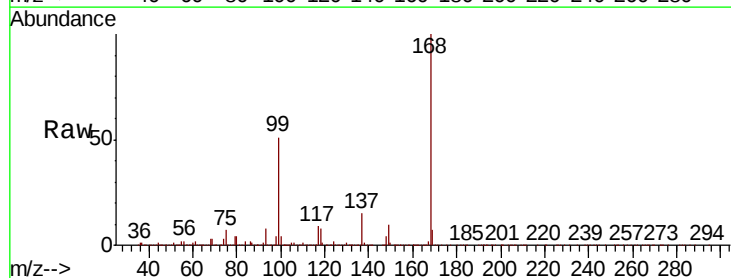
Tgt Ion: 117 Resp: 38379

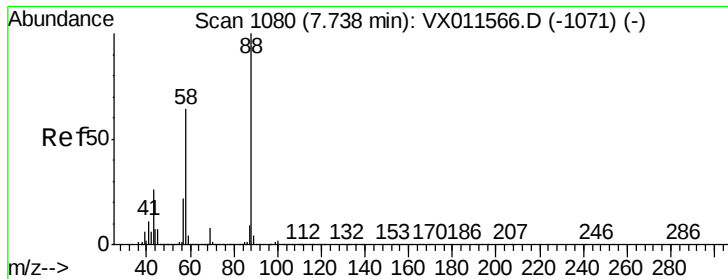
Ion Ratio Lower Upper

117 100

119 5.4 76.9 115.3#

121 0.8 24.8 37.2#





#49

1,4-Dioxane

Concen: 1.589 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. 0.00 min

Lab File: VX011727.D

Acq: 21 Aug 2019 13:10

Instrument :

MSVOA_X

ClientSampled :

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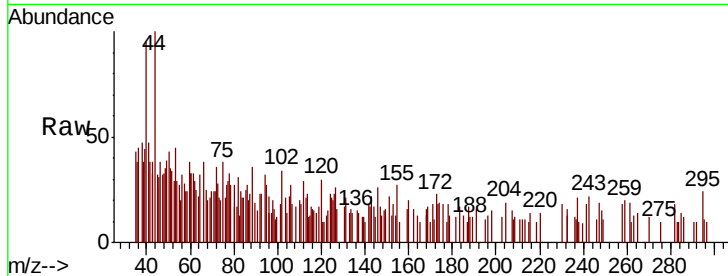
Tgt Ion: 88 Resp: 203

Ion Ratio Lower Upper

88 100

43 222.2 23.4 35.0#

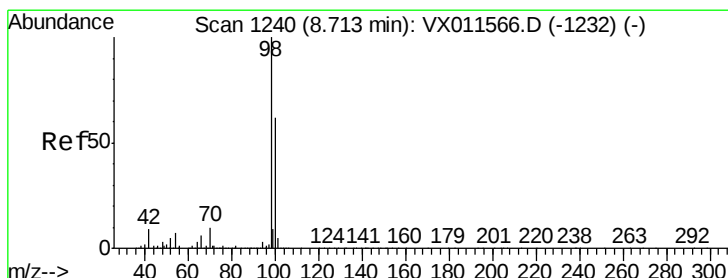
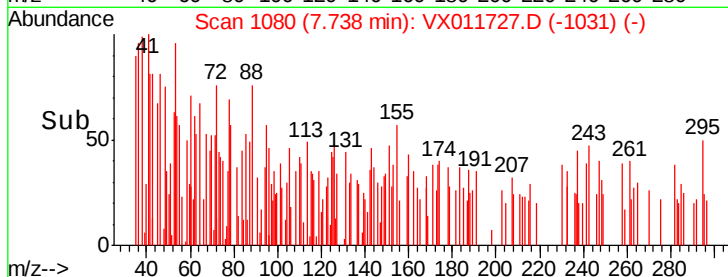
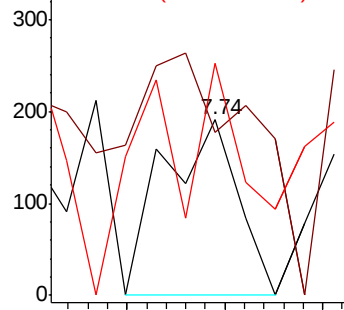
58 84.7 54.3 81.5#



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: 56.472 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011727.D

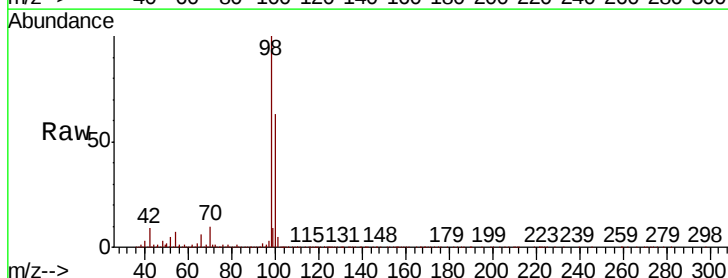
Acq: 21 Aug 2019 13:10

Tgt Ion: 98 Resp: 727182

Ion Ratio Lower Upper

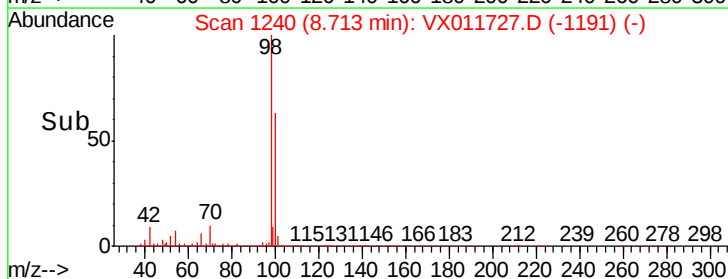
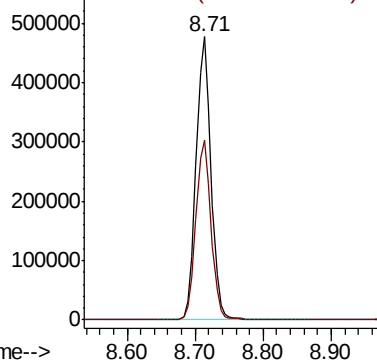
98 100

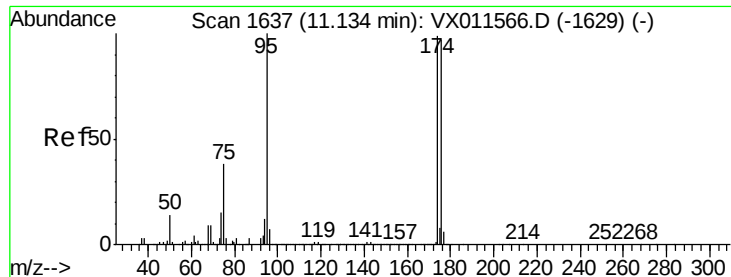
100 64.4 52.4 78.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.317 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011727.D

Acq: 21 Aug 2019 13:10

Instrument :

MSVOA_X

ClientSampleId :

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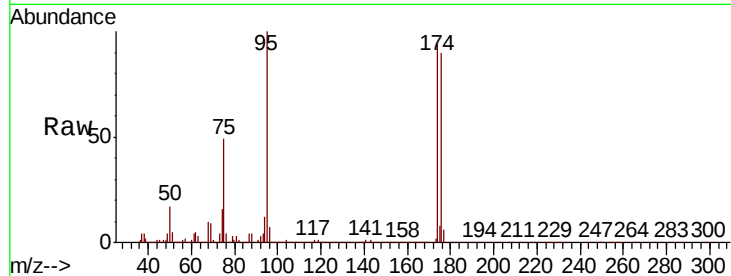
Tgt Ion: 95 Resp: 240871

Ion Ratio Lower Upper

95 100

174 96.7 0.0 200.6

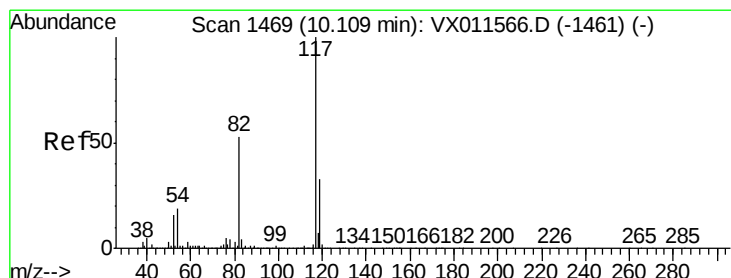
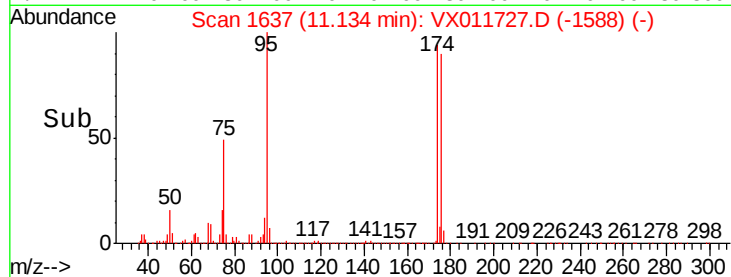
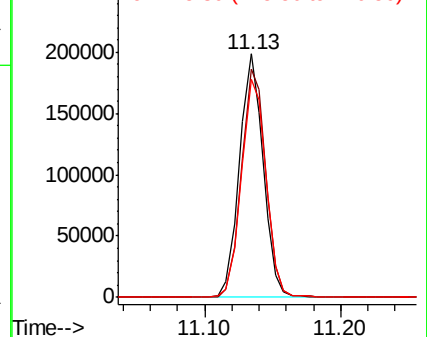
176 93.2 0.0 196.6



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: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX011727.D

Acq: 21 Aug 2019 13:10

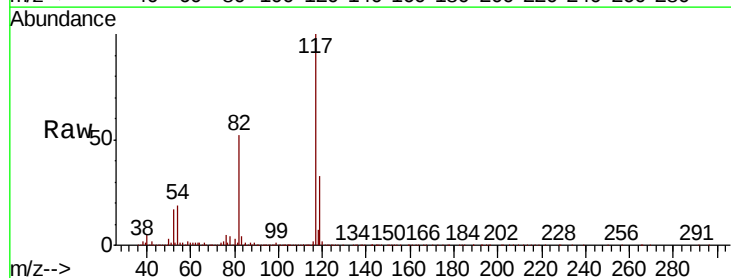
Tgt Ion: 117 Resp: 572159

Ion Ratio Lower Upper

117 100

82 52.4 42.0 63.0

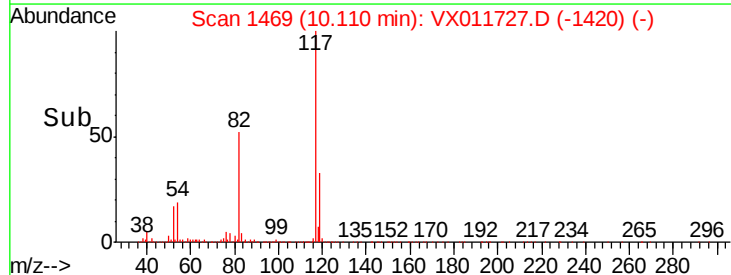
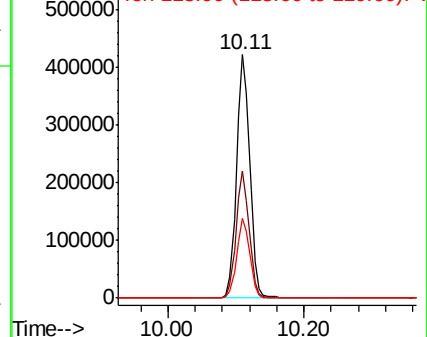
119 32.7 26.5 39.7

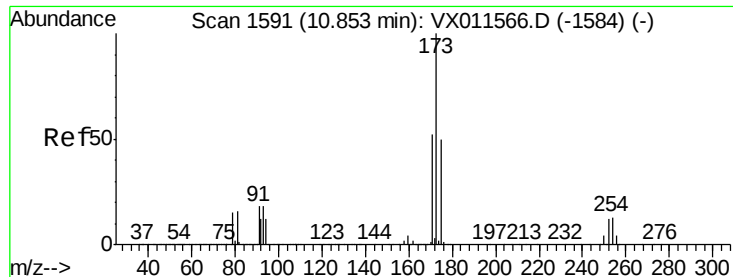


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#71

Bromoform

Concen: 3.323 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.01 min

Lab File: VX011727.D

Acq: 21 Aug 2019 13:10

Instrument :

MSVOA_X

ClientSampled :

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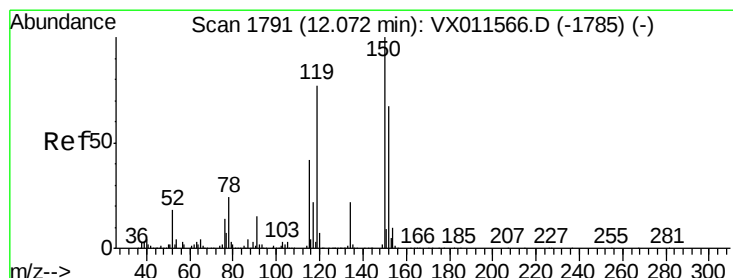
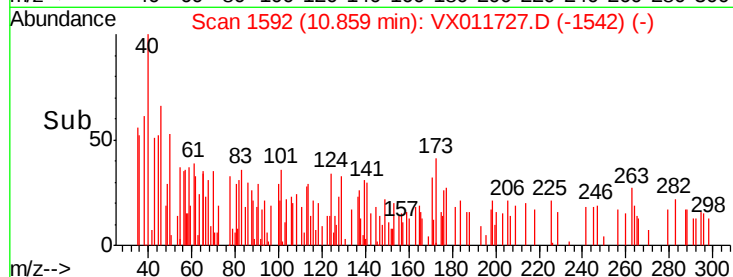
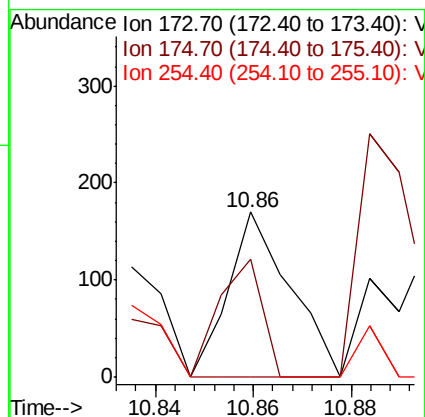
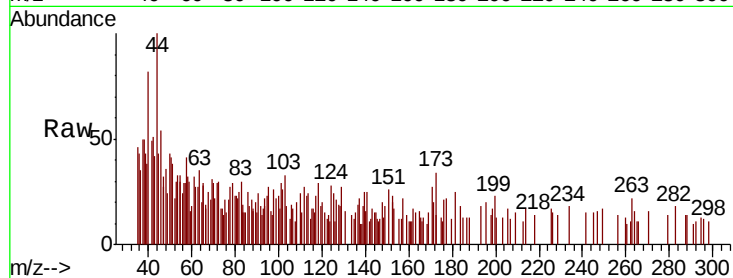
Tgt Ion:173 Resp: 149

Ion Ratio Lower Upper

173 100

175 0.0 24.9 74.7#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX011727.D

Acq: 21 Aug 2019 13:10

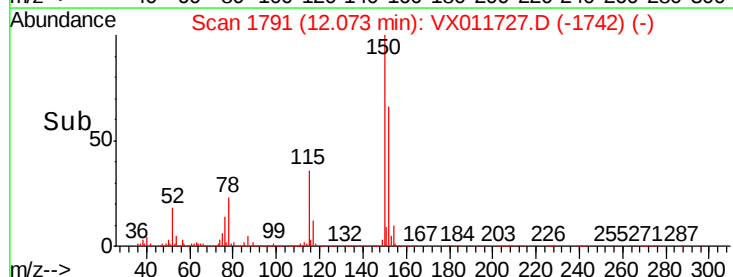
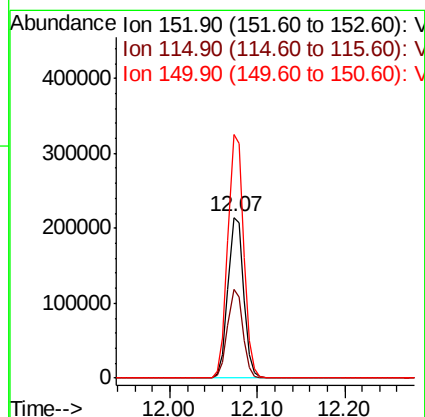
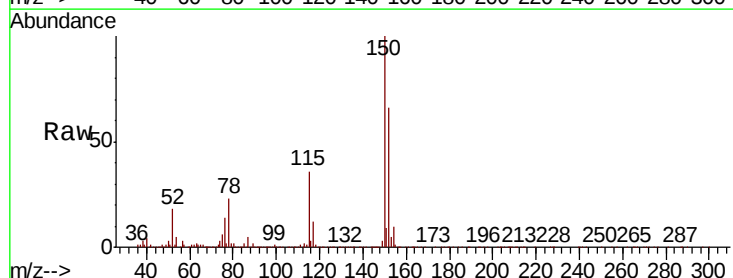
Tgt Ion:152 Resp: 265152

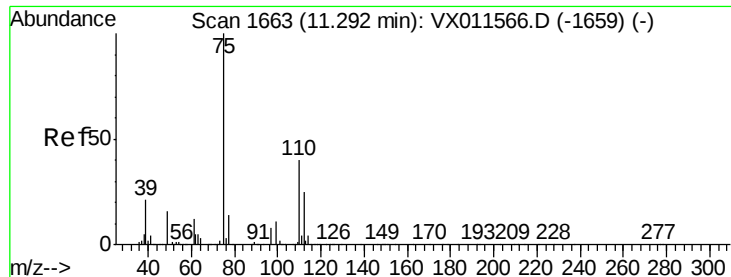
Ion Ratio Lower Upper

152 100

115 54.5 37.3 111.9

150 153.6 0.0 346.2





#76

1,2,3-Trichloropropane

Concen: 23.461 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011727.D

Acq: 21 Aug 2019 13:10

Instrument :

MSVOA_X

ClientSampled :

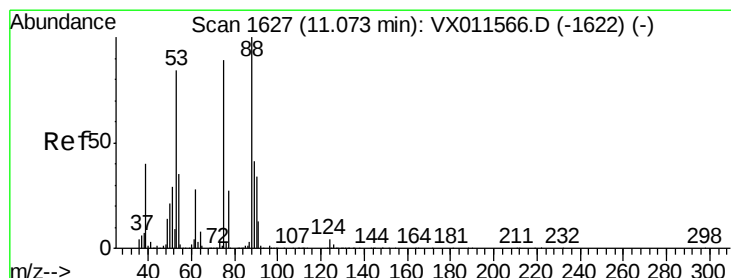
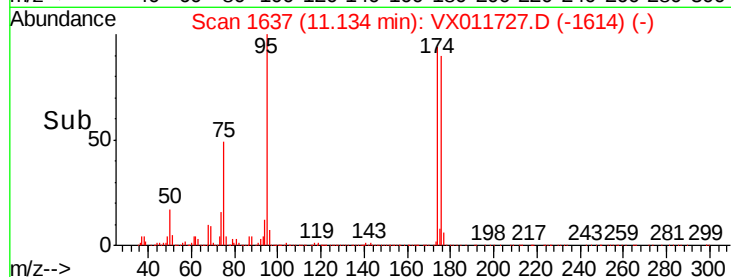
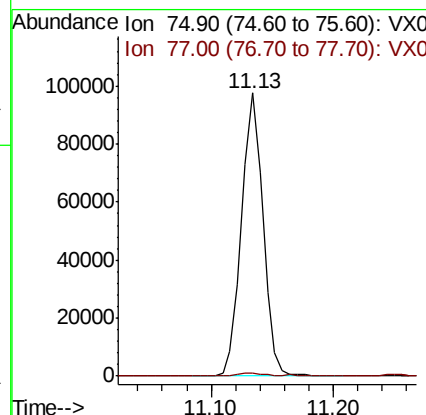
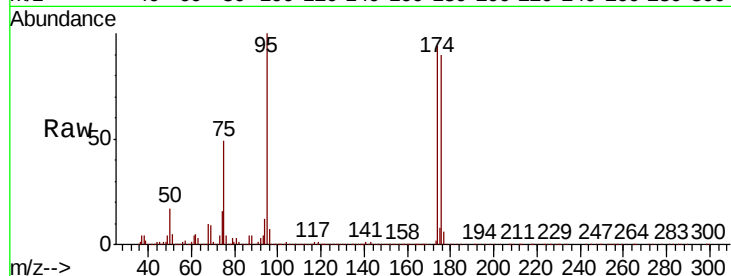
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Tgt Ion: 75 Resp: 117958

Ion Ratio Lower Upper

75 100

77 1.1 20.9 62.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.338 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011727.D

Acq: 21 Aug 2019 13:10

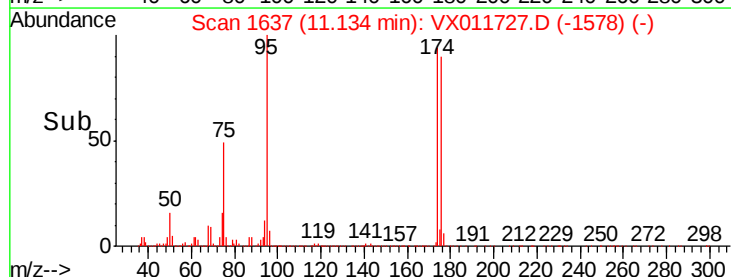
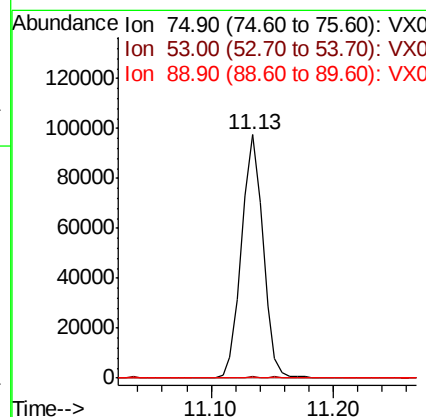
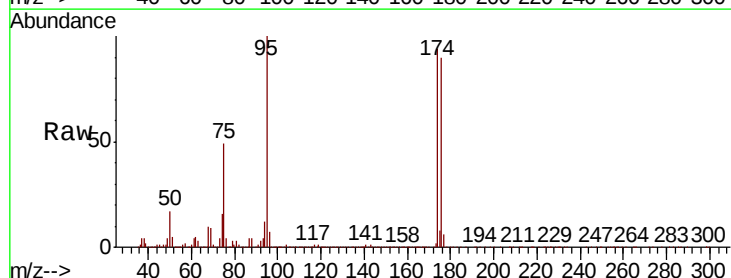
Tgt Ion: 75 Resp: 117958

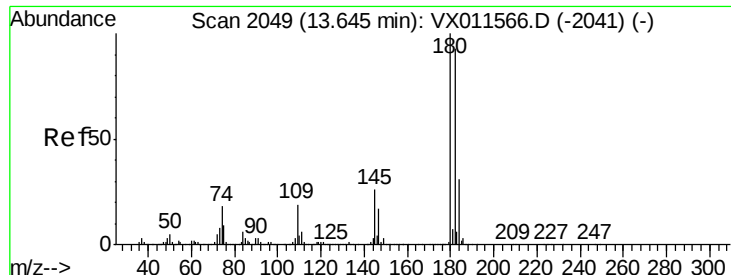
Ion Ratio Lower Upper

75 100

53 0.3 77.4 116.0#

89 0.0 37.3 55.9#

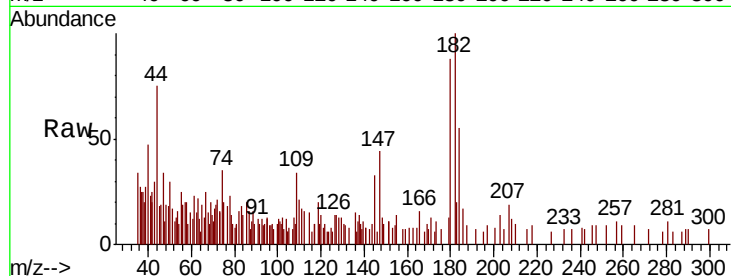




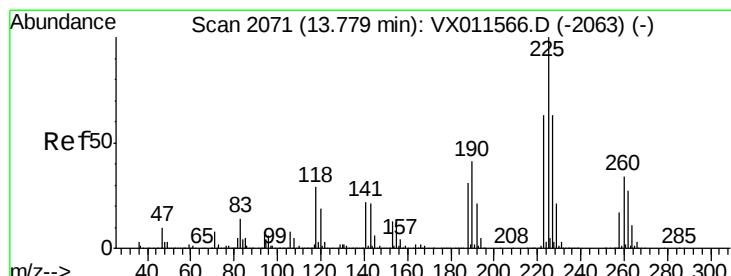
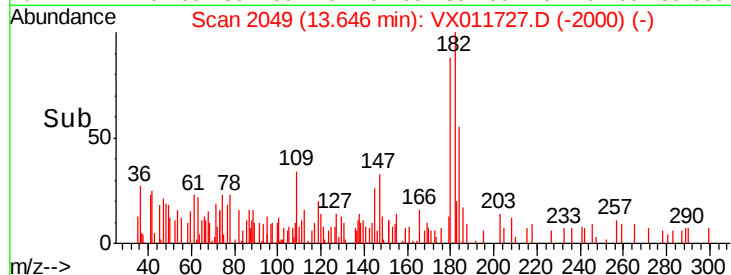
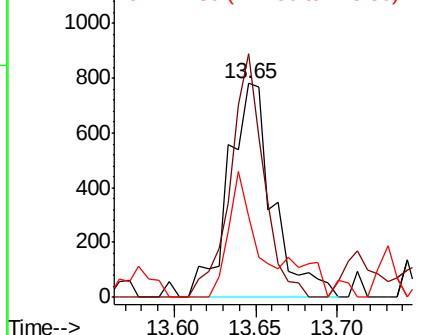
#93
 1,2,4-Trichlorobenzene
 Concen: 0.224 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. 0.00 min
 Lab File: VX011727.D
 Acq: 21 Aug 2019 13:10

Instrument :
 MSVOA_X
 ClientSampleId :
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Tgt Ion:180 Resp: 1471
 Ion Ratio Lower Upper
 180 100
 182 85.7 47.3 142.0
 145 36.0 13.6 40.8

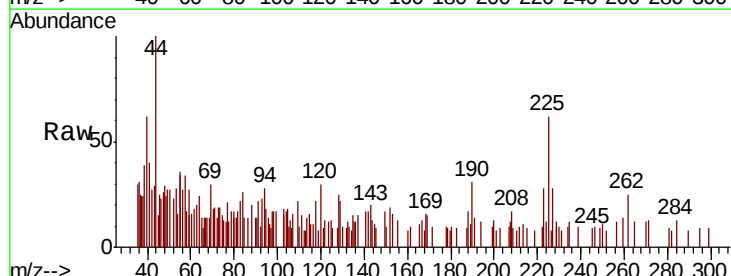


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 0.215 ug/l
 RT: 13.77 min Scan# 2070
 Delta R.T. -0.01 min
 Lab File: VX011727.D
 Acq: 21 Aug 2019 13:10

Tgt Ion:225 Resp: 772
 Ion Ratio Lower Upper
 225 100
 223 53.9 31.4 94.0
 227 35.1 31.2 93.6



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V

