

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX082219\
 Data File : VX011767.D
 Acq On : 22 Aug 2019 17:19
 Operator : JC/SP
 Sample : K4388-37
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T6-E1-(0)

Quant Time: Aug 23 02:03:11 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	5.66	168	435311	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	614452	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	565346	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	268649	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	214988	49.16	ug/l	0.00
Spiked Amount			Recovery	=	98.32%	
35) Dibromofluoromethane	5.49	113	177047	44.56	ug/l	0.00
Spiked Amount			Recovery	=	89.12%	
50) Toluene-d8	8.71	98	702831	50.71	ug/l	0.00
Spiked Amount			Recovery	=	101.42%	
62) 4-Bromofluorobenzene	11.13	95	249647	45.57	ug/l	0.00
Spiked Amount			Recovery	=	91.14%	

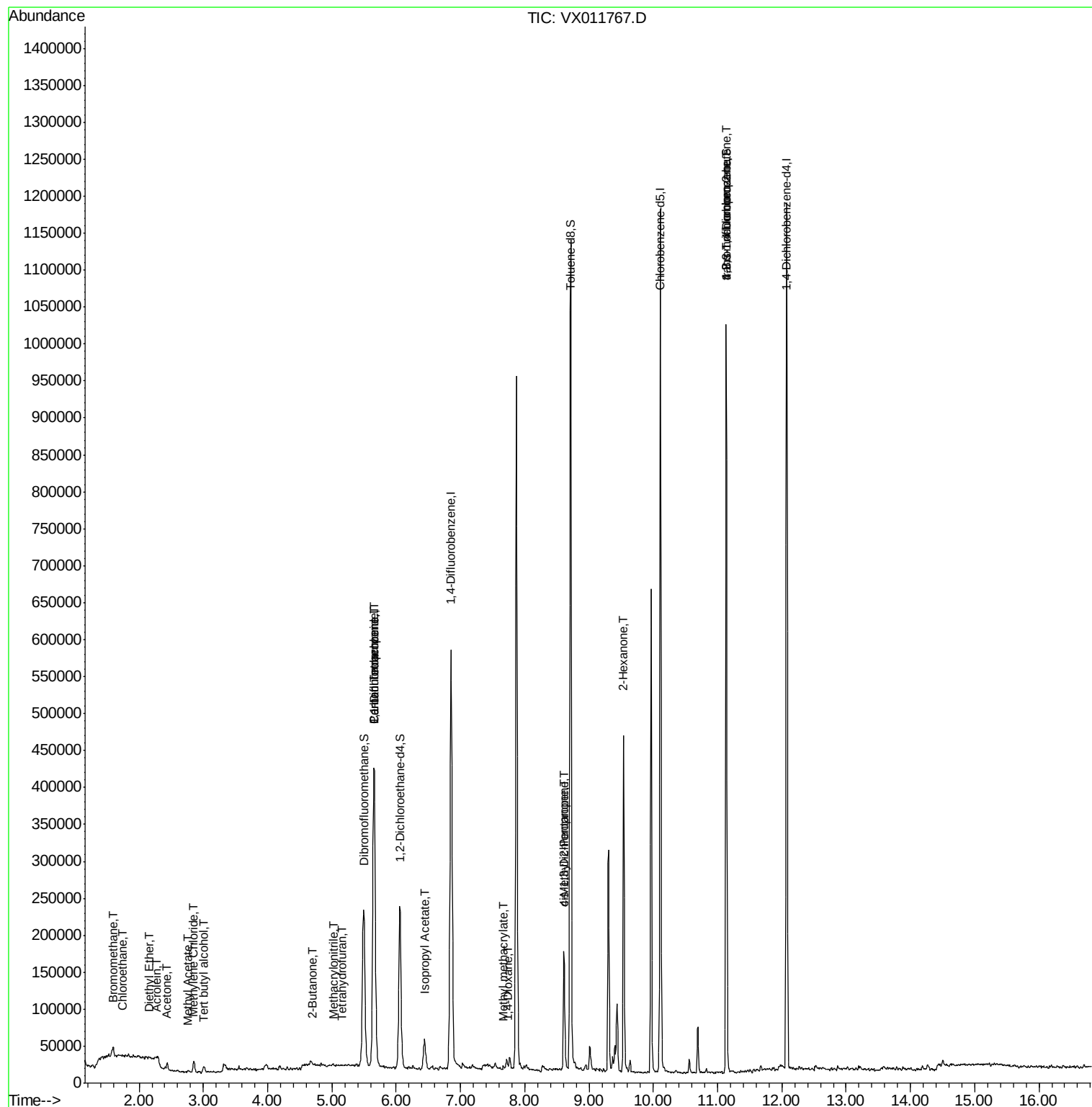
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.59	94	550	0.280	ug/l #	21
6) Chloroethane	1.75	64	635	0.305	ug/l #	45
8) Diethyl Ether	2.16	74	498	0.258	ug/l	81
11) Tert butyl alcohol	3.01	59	5077	5.875	ug/l #	80
13) Acrolein	2.28	56	363	1.087	ug/l #	1
16) Acetone	2.43	43	10169	5.346	ug/l	96
18) Methyl Acetate	2.77	43	3828	0.742	ug/l #	87
20) Methylene Chloride	2.85	84	7716	1.984	ug/l	96
25) 2-Butanone	4.71	43	2990	1.095	ug/l	94
29) Tetrahydrofuran	5.15	42	404	0.231	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	25192	5.228	ug/l #	52
38) Carbon Tetrachloride	5.66	117	38588	7.067	ug/l #	16
41) Methacrylonitrile	5.01	41	681	0.230	ug/l #	51
43) Isopropyl Acetate	6.44	43	55176	6.686	ug/l	99
48) Methyl methacrylate	7.68	41	3432	0.836	ug/l #	13
49) 1,4-Dioxane	7.74	88	84	0.738	ug/l #	26
51) 4-Methyl-2-Pentanone	8.61	43	54650	10.050	ug/l #	46
54) cis-1,3-Dichloropropene	8.61	75	27183	4.774	ug/l #	63
59) 2-Hexanone	9.54	43	51215	12.270	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	111622	23.679	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	111622	71.411	ug/l #	11

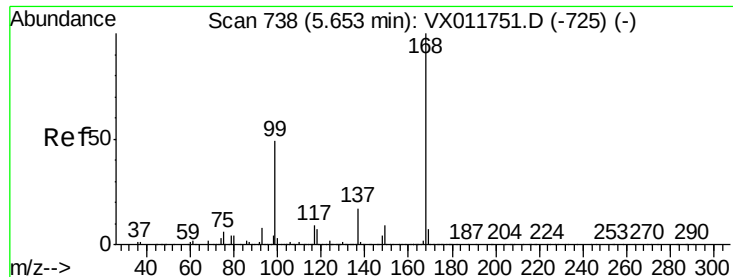
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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T6-E1-(0)

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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: VX011767.D

Acq: 22 Aug 2019 17:19

Instrument :

MSVOA_X

ClientSampleId :

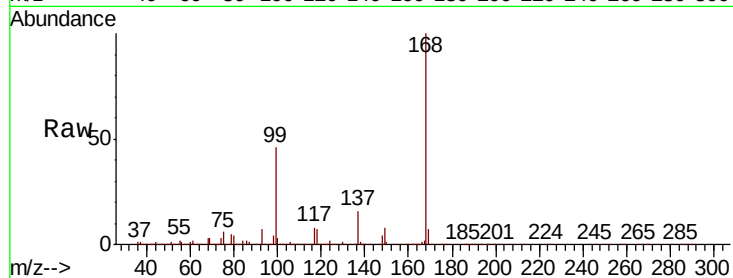
T6-E1-(0)

Tgt Ion:168 Resp: 435311

Ion Ratio Lower Upper

168 100

99 46.4 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

150000

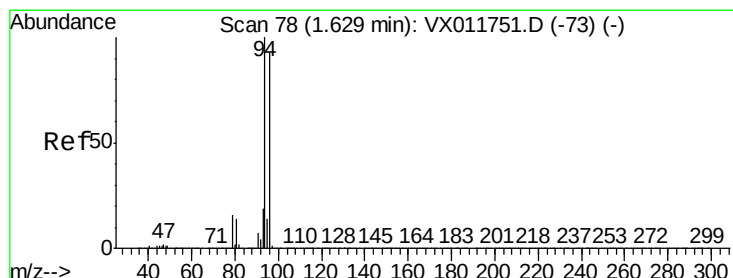
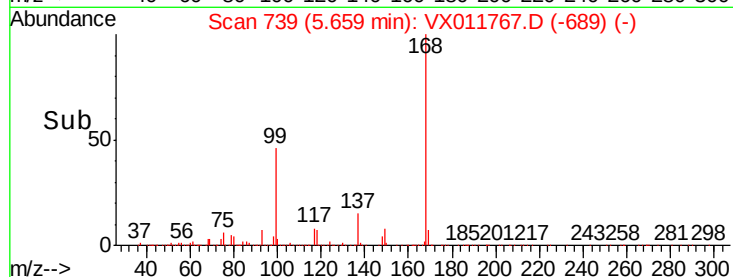
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.280 ug/l

RT: 1.59 min Scan# 72

Delta R.T. -0.04 min

Lab File: VX011767.D

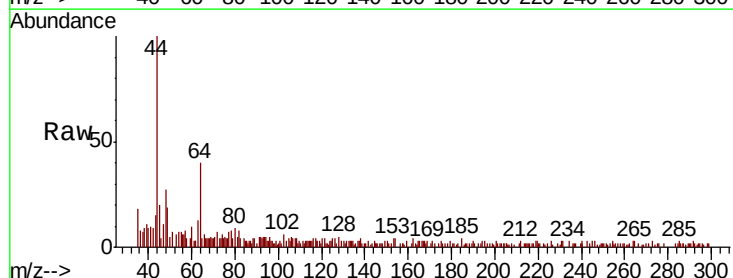
Acq: 22 Aug 2019 17:19

Tgt Ion: 94 Resp: 550

Ion Ratio Lower Upper

94 100

96 16.7 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.59

500

400

300

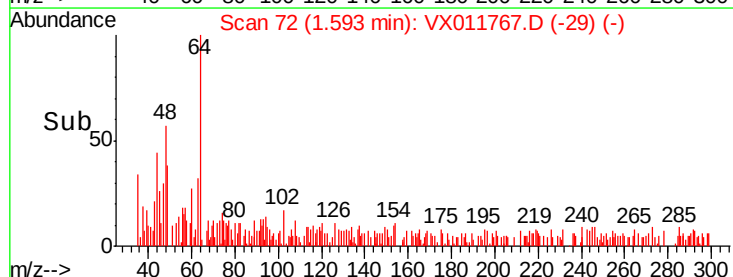
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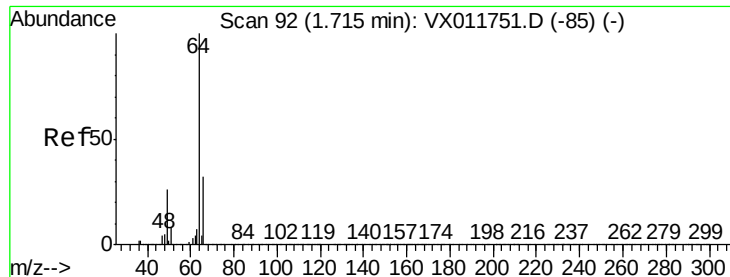
100

0

Time-->

1.56 1.58 1.60 1.62





#6

Chloroethane

Concen: 0.305 ug/l

RT: 1.75 min Scan# 97

Delta R.T. 0.03 min

Lab File: VX011767.D

Acq: 22 Aug 2019 17:19

Instrument :

MSVOA_X

ClientSampleId :

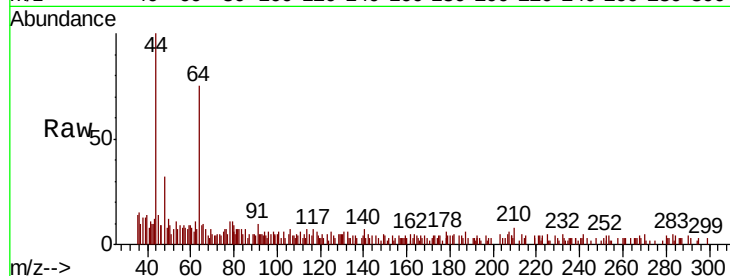
T6-E1-(0)

Tgt Ion: 64 Resp: 635

Ion Ratio Lower Upper

64 100

66 1.0 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.75

2000

1500

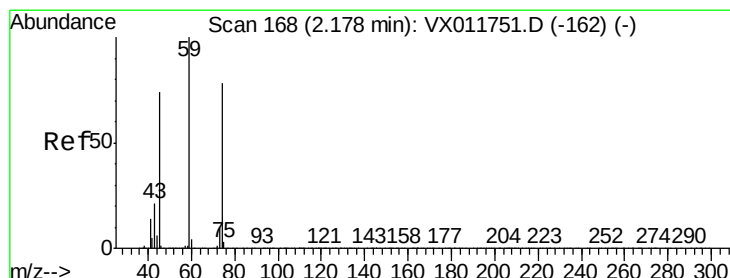
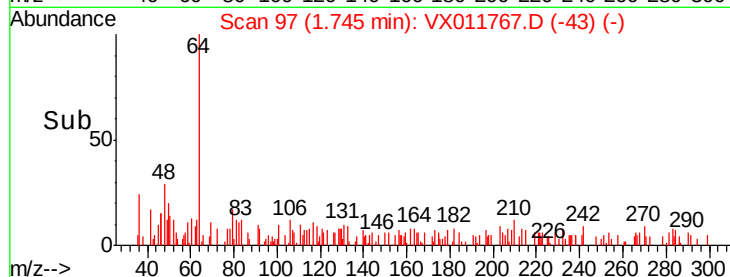
1000

500

0

Time-->

1.72 1.74 1.76 1.78



#8

Diethyl Ether

Concen: 0.258 ug/l

RT: 2.16 min Scan# 165

Delta R.T. -0.02 min

Lab File: VX011767.D

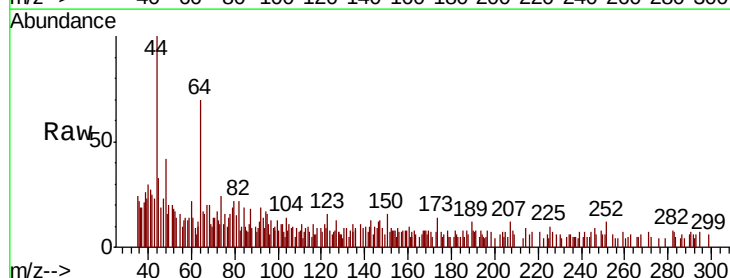
Acq: 22 Aug 2019 17:19

Tgt Ion: 74 Resp: 498

Ion Ratio Lower Upper

74 100

45 75.5 46.7 140.0



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.16

600

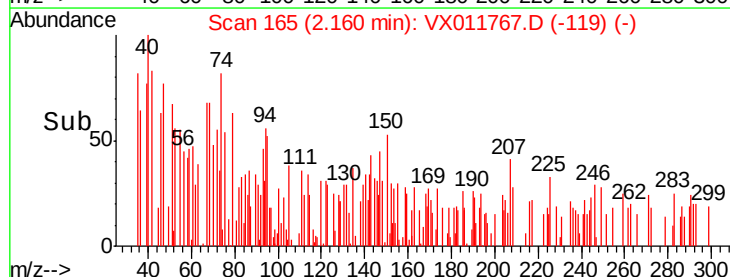
400

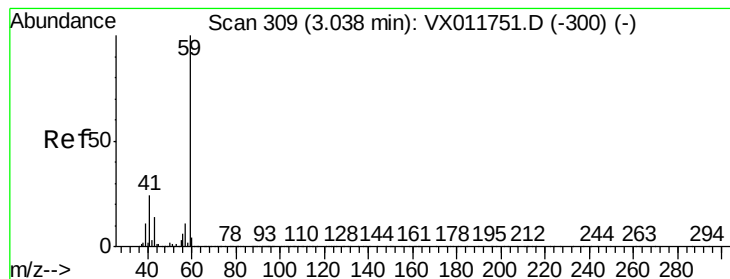
200

0

Time-->

2.12 2.14 2.16



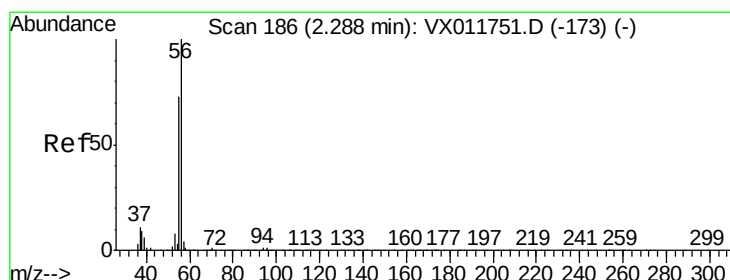
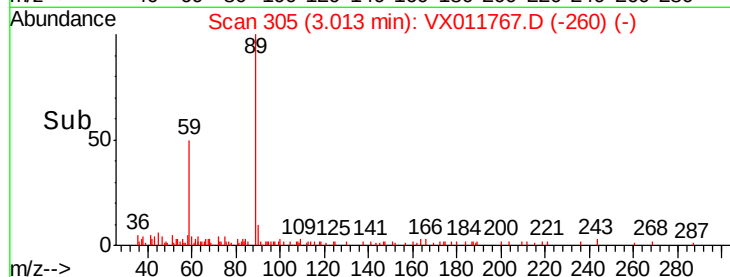
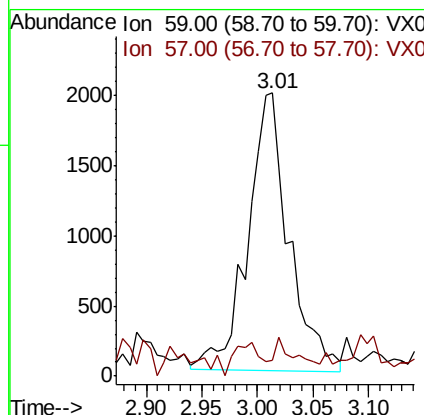
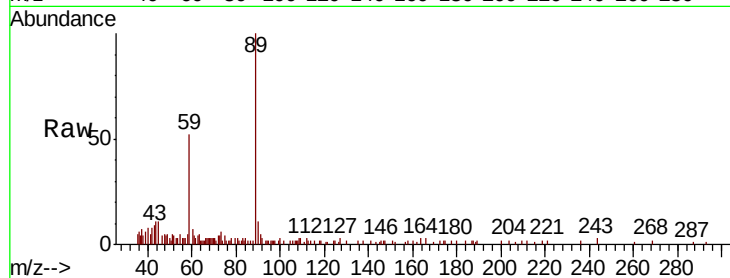


#11

Tert butyl alcohol
Concen: 5.875 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.02 min
Lab File: VX011767.D
Acq: 22 Aug 2019 17:19

Instrument :
MSVOA_X
ClientSampled :
T6-E1-(0)

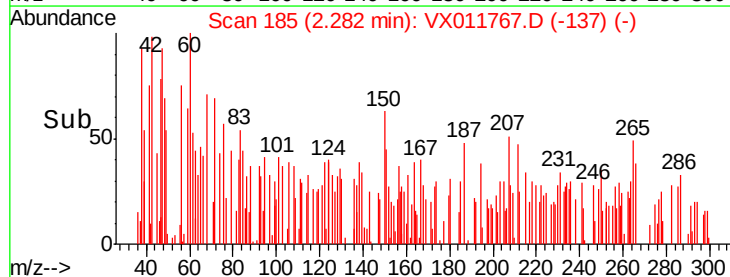
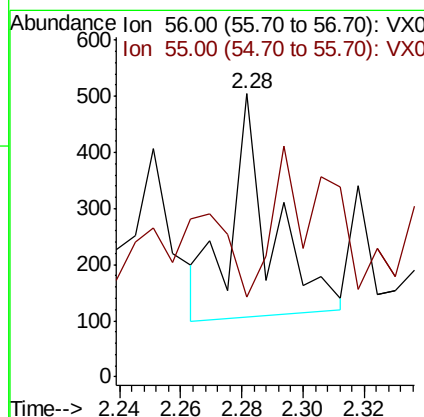
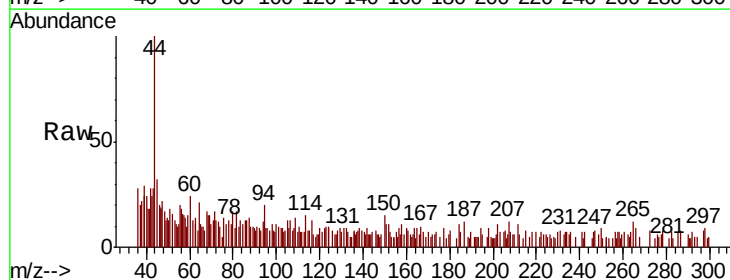
Tgt Ion: 59 Resp: 5077
Ion Ratio Lower Upper
59 100
57 3.1 8.4 12.6#

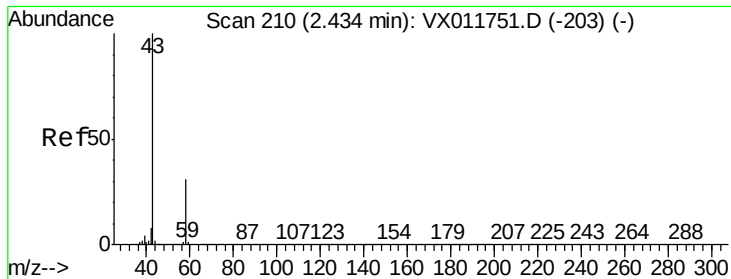


#13

Acrolein
Concen: 1.087 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX011767.D
Acq: 22 Aug 2019 17:19

Tgt Ion: 56 Resp: 363
Ion Ratio Lower Upper
56 100
55 166.7 54.8 82.2#

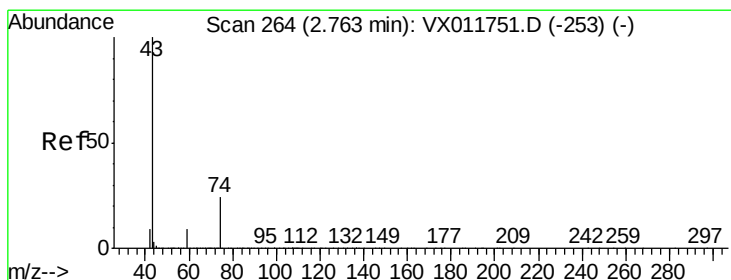
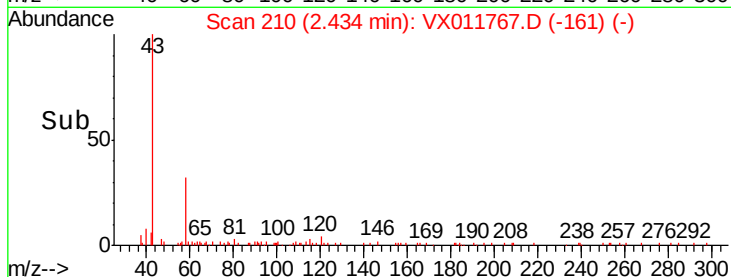
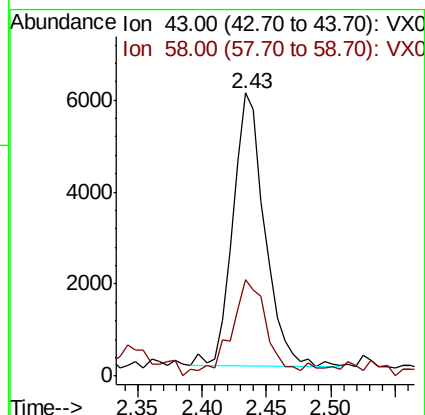
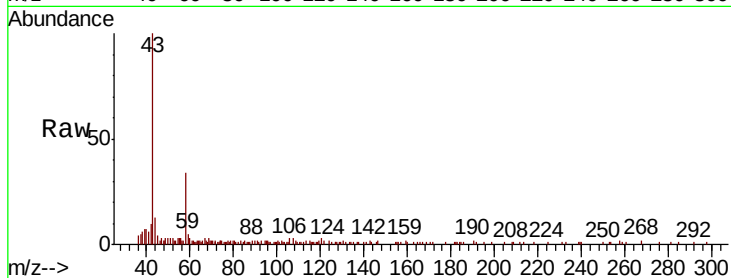




#16
Acetone
Concen: 5.346 ug/l
RT: 2.43 min Scan# 210
Delta R.T. -0.00 min
Lab File: VX011767.D
Acq: 22 Aug 2019 17:19

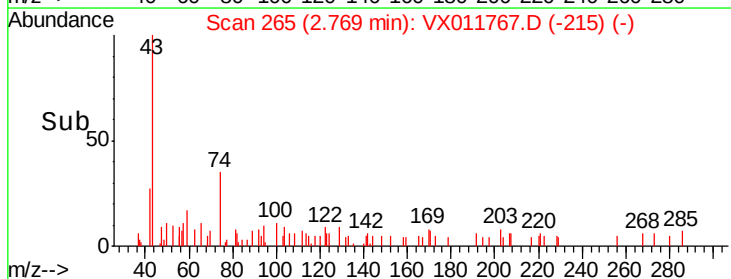
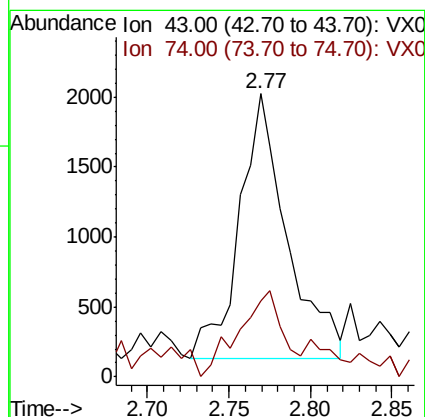
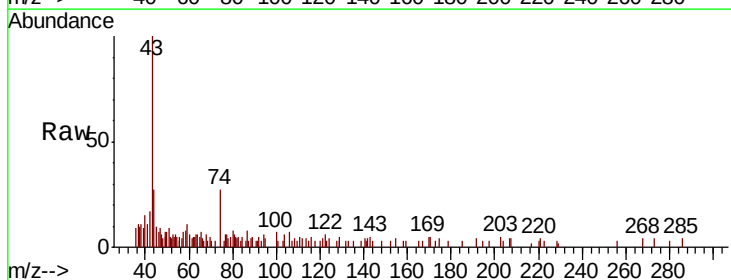
Instrument :
MSVOA_X
ClientSampleId :
T6-E1-(0)

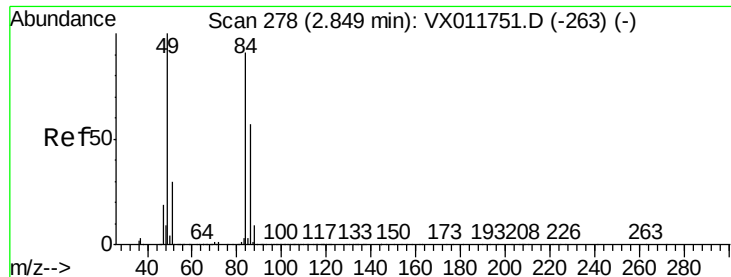
Tgt Ion: 43 Resp: 10169
Ion Ratio Lower Upper
43 100
58 32.6 24.4 36.6



#18
Methyl Acetate
Concen: 0.742 ug/l
RT: 2.77 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX011767.D
Acq: 22 Aug 2019 17:19

Tgt Ion: 43 Resp: 3828
Ion Ratio Lower Upper
43 100
74 30.7 19.5 29.3#

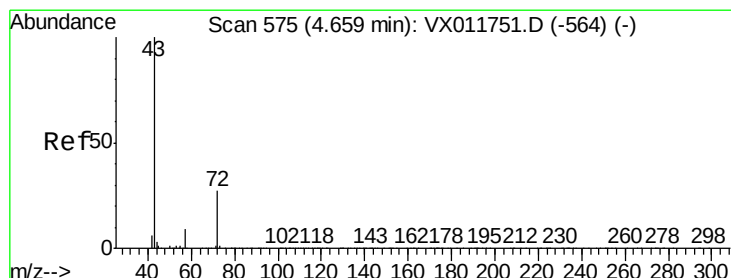
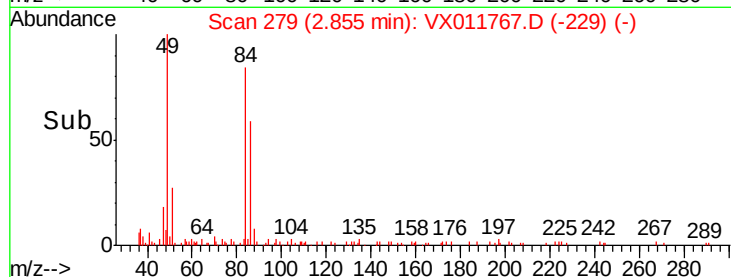
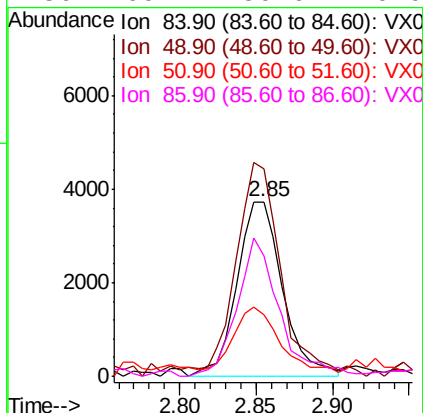
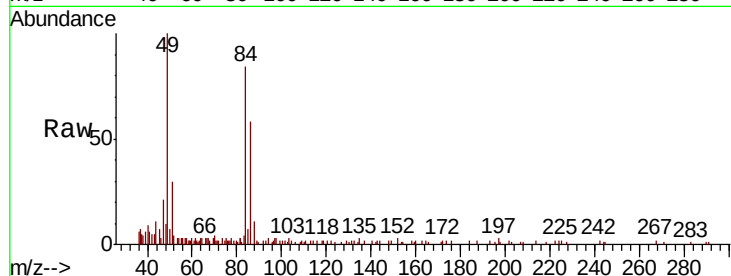




#20
Methylene Chloride
Concen: 1.984 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.01 min
Lab File: VX011767.D
Acq: 22 Aug 2019 17:19

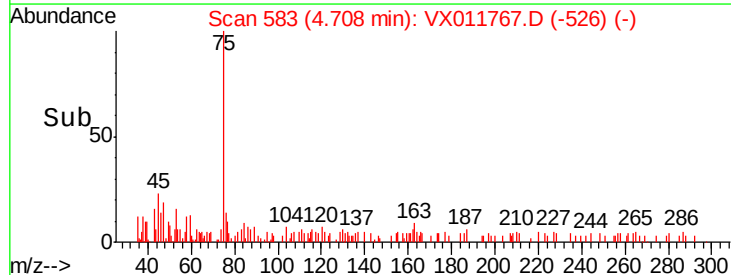
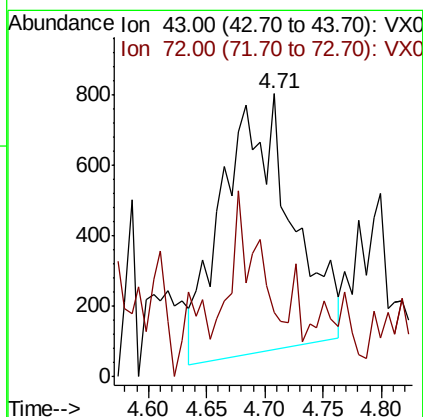
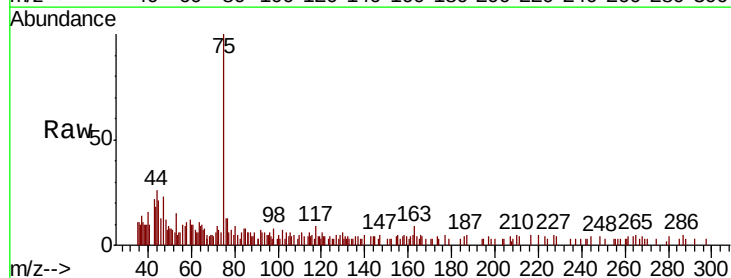
Instrument :
MSVOA_X
ClientSampleId :
T6-E1-(0)

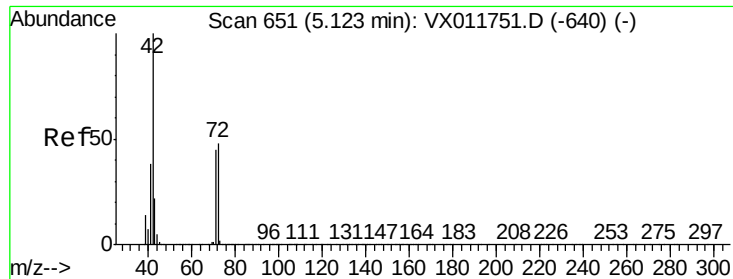
Tgt Ion:	84	Resp:	7716
Ion	Ratio	Lower	Upper
84	100		
49	113.9	88.3	132.5
51	33.1	26.2	39.2
86	69.1	50.6	76.0



#25
2-Butanone
Concen: 1.095 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.05 min
Lab File: VX011767.D
Acq: 22 Aug 2019 17:19

Tgt Ion:	43	Resp:	2990
Ion	Ratio	Lower	Upper
43	100		
72	30.3	21.8	32.6

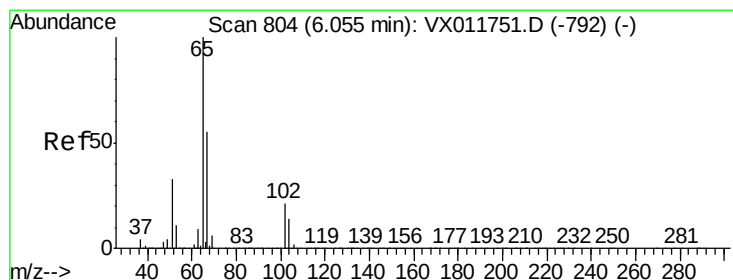
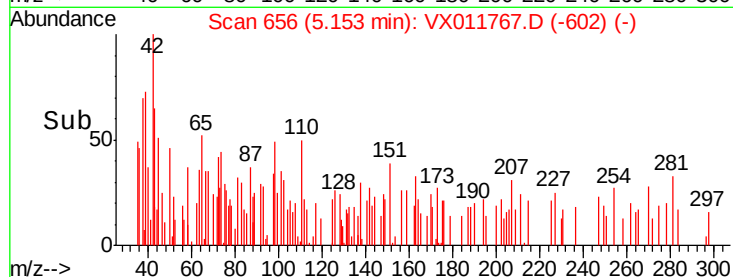
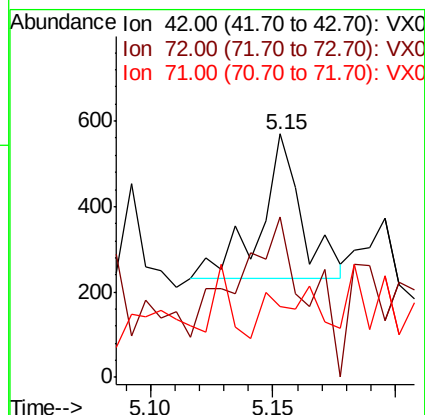
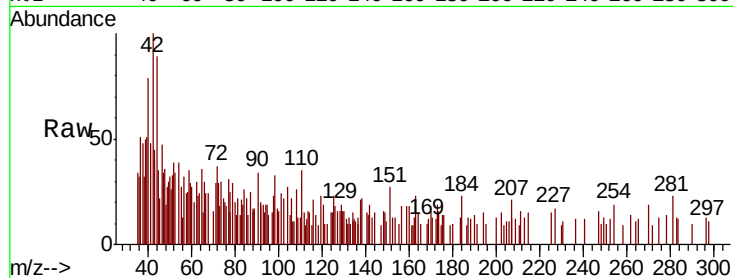




#29
Tetrahydrofuran
Concen: 0.231 ug/l
RT: 5.15 min Scan# 656
Delta R.T. 0.03 min
Lab File: VX011767.D
Acq: 22 Aug 2019 17:19

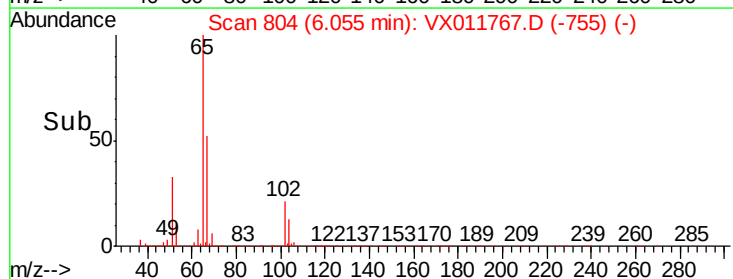
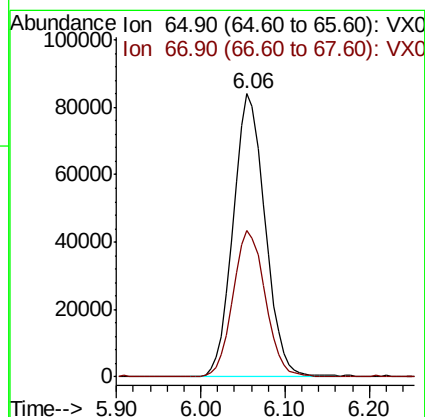
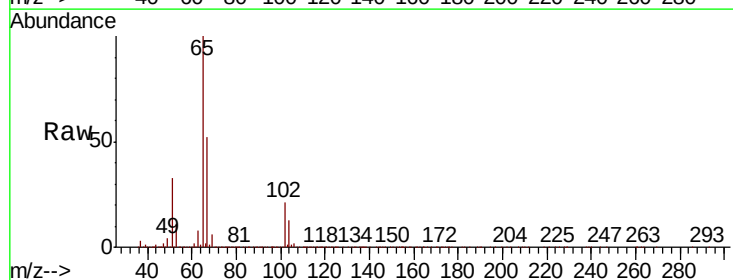
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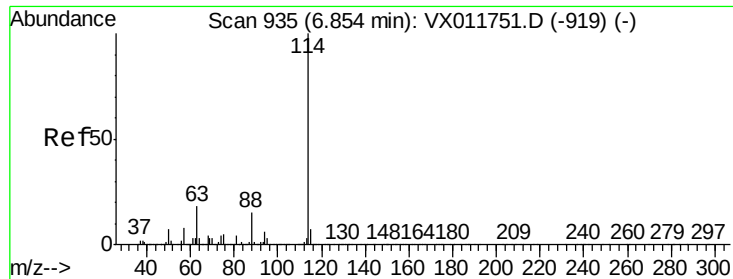
Tgt Ion: 42 Resp: 404
Ion Ratio Lower Upper
42 100
72 196.5 37.6 56.4#
71 57.9 34.6 51.8#



#33
1,2-Dichloroethane-d4
Concen: 49.163 ug/l
RT: 6.06 min Scan# 804
Delta R.T. -0.00 min
Lab File: VX011767.D
Acq: 22 Aug 2019 17:19

Tgt Ion: 65 Resp: 214988
Ion Ratio Lower Upper
65 100
67 52.2 0.0 107.8

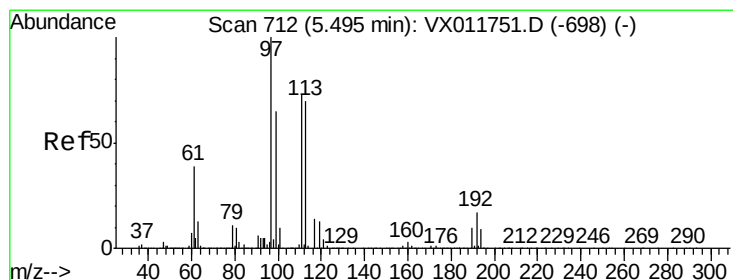
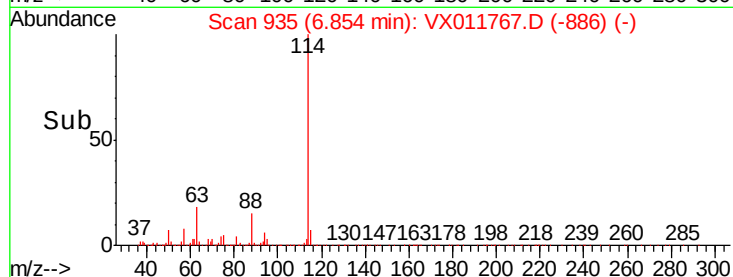
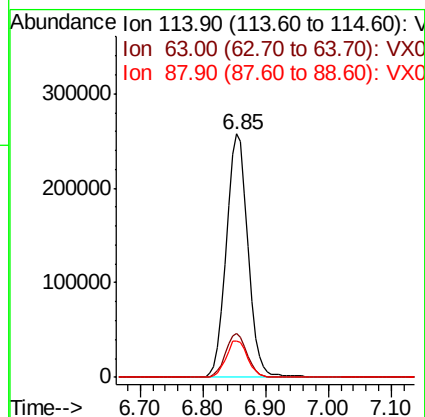
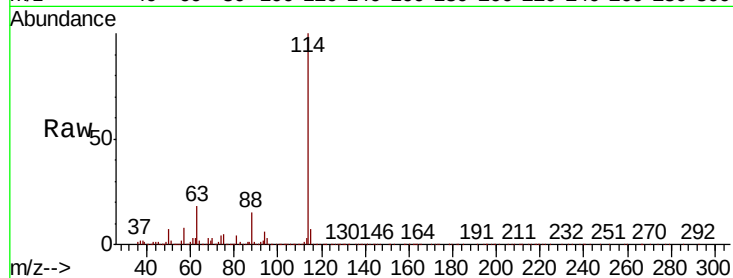




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.00 min
 Lab File: VX011767.D
 Acq: 22 Aug 2019 17:19

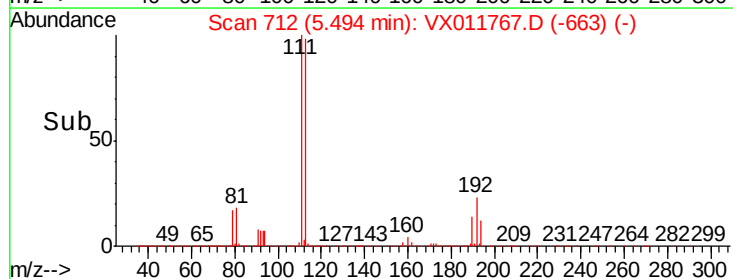
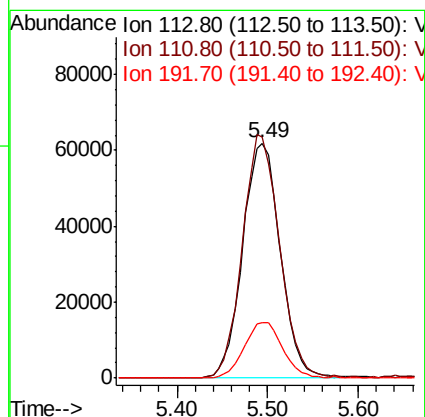
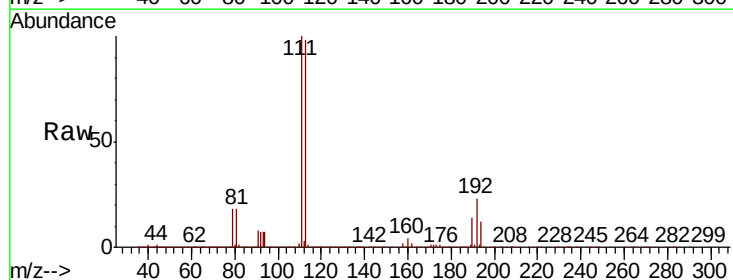
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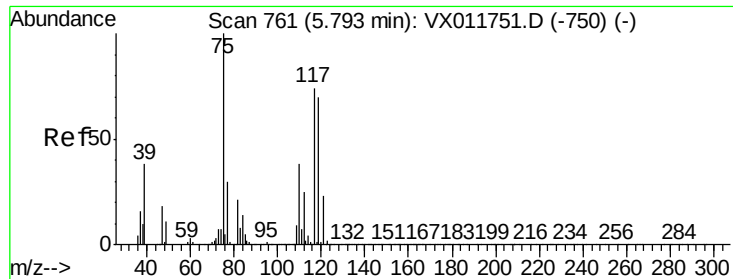
Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.0	0.0	36.8
88	15.0	0.0	30.2



#35
 Dibromofluoromethane
 Concen: 44.559 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.00 min
 Lab File: VX011767.D
 Acq: 22 Aug 2019 17:19

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.0	121.4
192	24.2	19.9	29.9

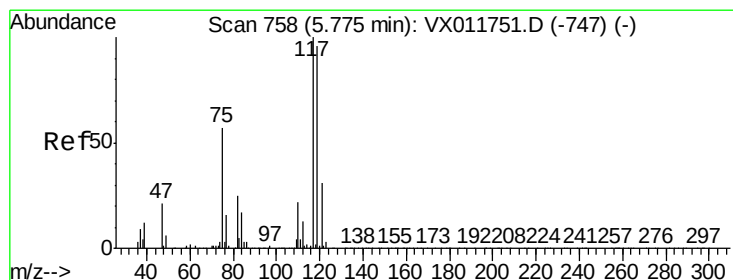
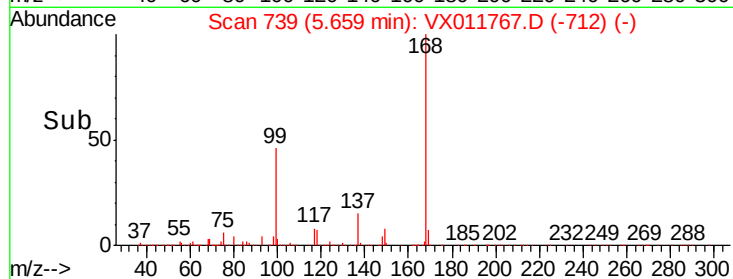
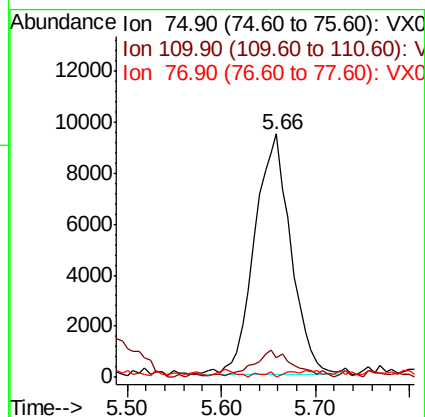
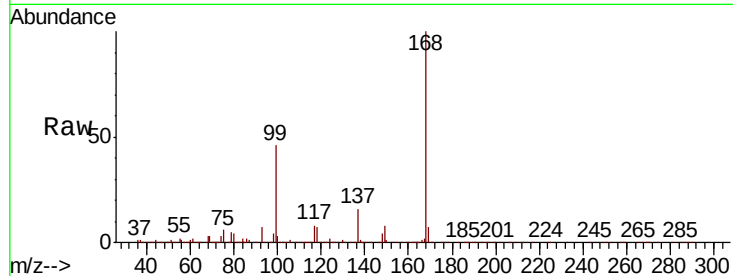




#36
 1,1-Dichloropropene
 Concen: 5.228 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX011767.D
 Acq: 22 Aug 2019 17:19

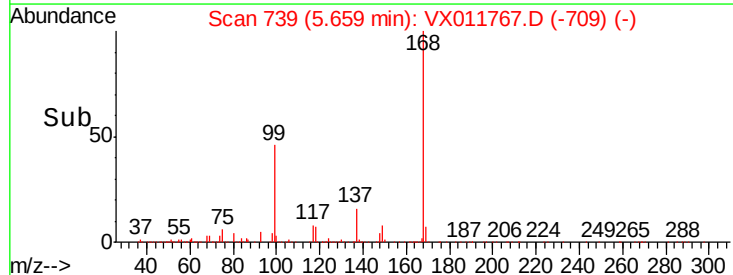
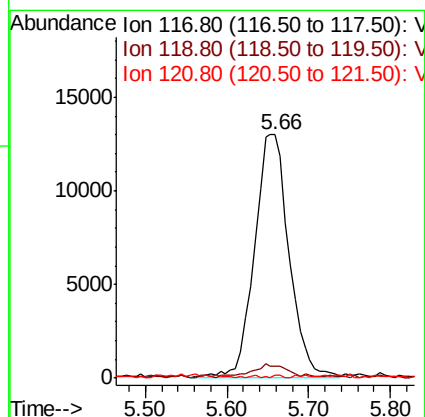
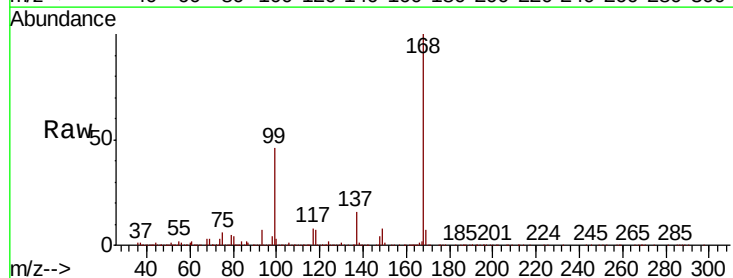
Instrument :
 MSVOA_X
 ClientSampleId :
 T6-E1-(0)

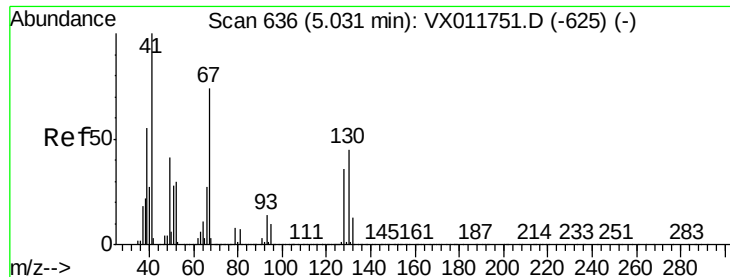
Tgt Ion	Ratio	Lower	Upper
75	100		
110	13.0	19.0	57.0#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 7.067 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX011767.D
 Acq: 22 Aug 2019 17:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	76.6	114.8#
121	0.2	25.2	37.8#

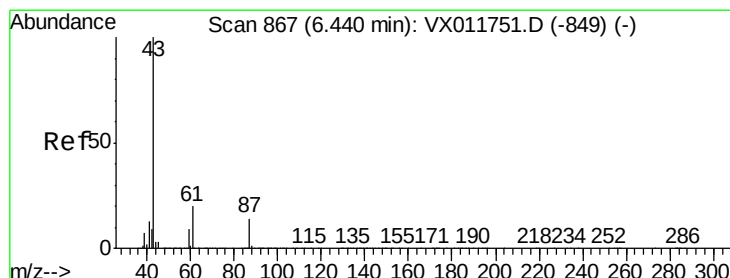
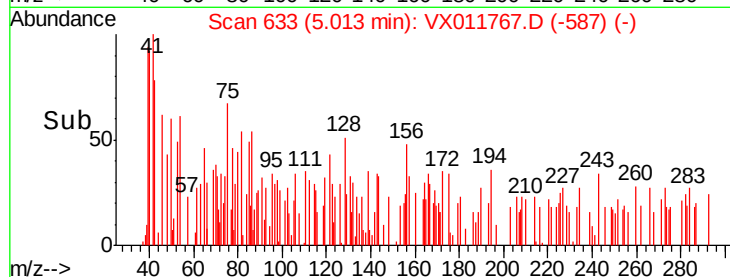
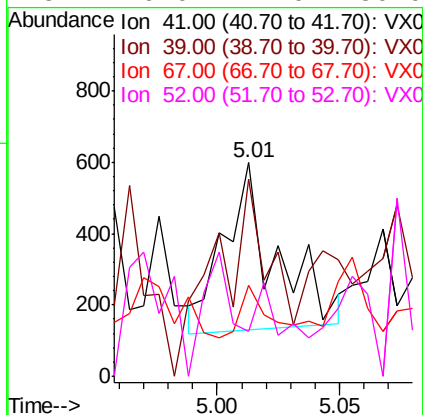
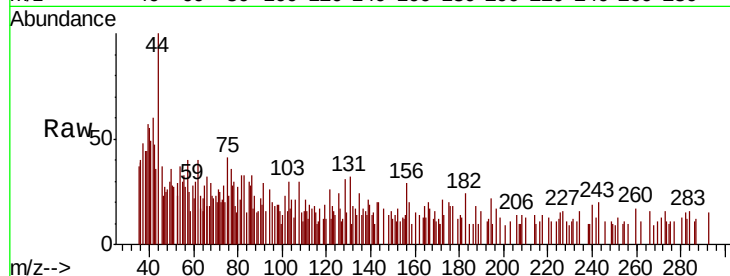




#41
Methacrylonitrile
Concen: 0.230 ug/l
RT: 5.01 min Scan# 633
Delta R.T. -0.02 min
Lab File: VX011767.D
Acq: 22 Aug 2019 17:19

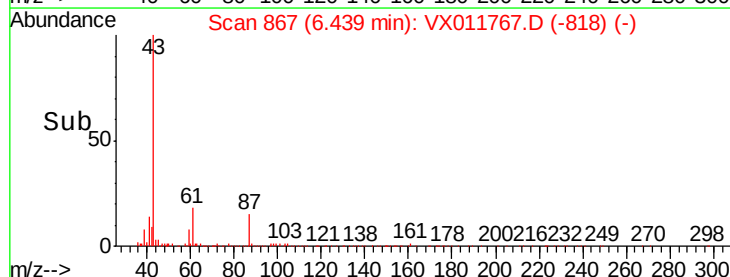
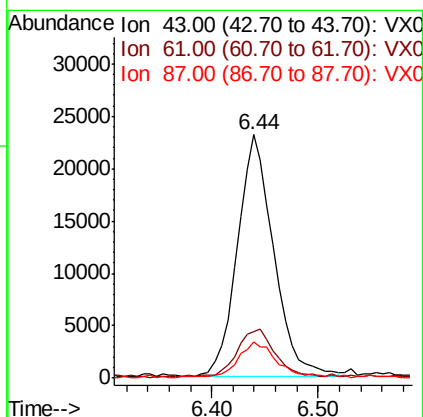
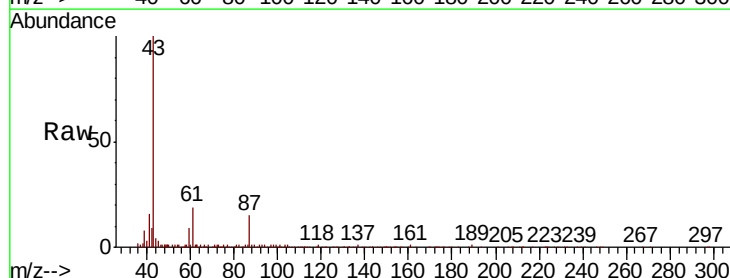
Instrument :
MSVOA_X
ClientSampled :
T6-E1-(0)

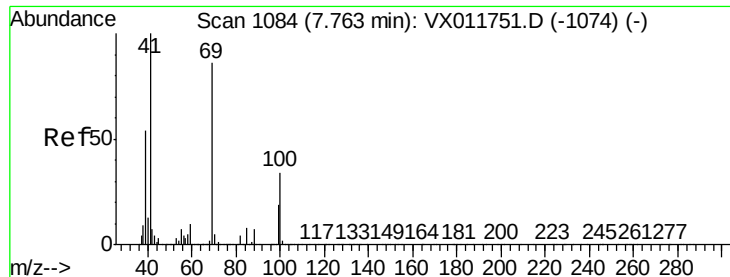
Tgt Ion:	41	Resp:	681
Ion	Ratio	Lower	Upper
41	100		
39	42.0	44.3	66.5#
67	16.7	60.3	90.5#
52	0.0	24.0	36.0#



#43
Isopropyl Acetate
Concen: 6.686 ug/l
RT: 6.44 min Scan# 867
Delta R.T. -0.00 min
Lab File: VX011767.D
Acq: 22 Aug 2019 17:19

Tgt Ion:	43	Resp:	55176
Ion	Ratio	Lower	Upper
43	100		
61	20.4	16.2	24.2
87	14.8	11.6	17.4





#48

Methyl methacrylate

Concen: 0.836 ug/l

RT: 7.68 min Scan# 1070

Delta R.T. -0.09 min

Lab File: VX011767.D

Acq: 22 Aug 2019 17:19

Instrument :

MSVOA_X

ClientSampled :

T6-E1-(0)

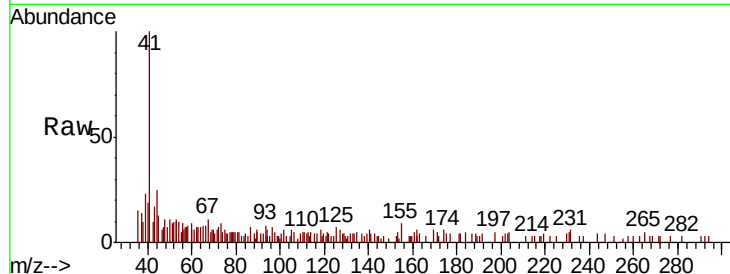
Tgt Ion: 41 Resp: 3432

Ion Ratio Lower Upper

41 100

69 0.0 69.4 104.2#

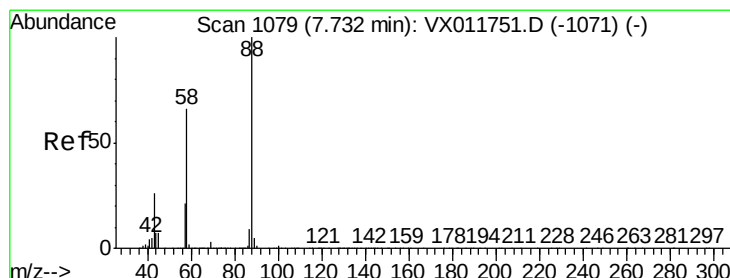
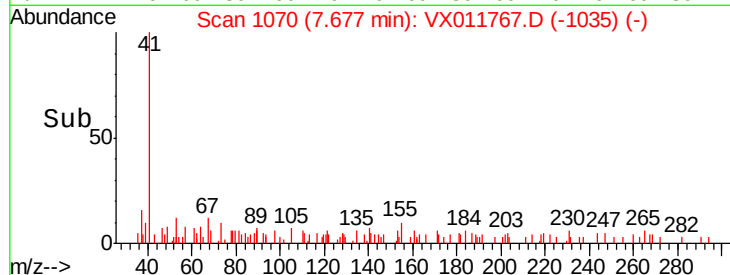
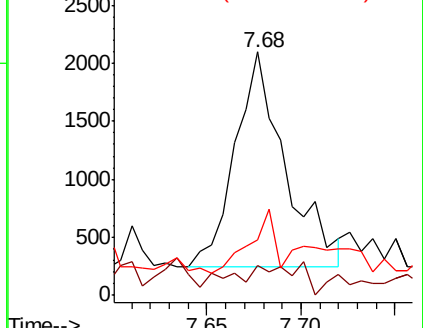
39 0.0 43.6 65.4#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#49

1,4-Dioxane

Concen: 0.738 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. 0.01 min

Lab File: VX011767.D

Acq: 22 Aug 2019 17:19

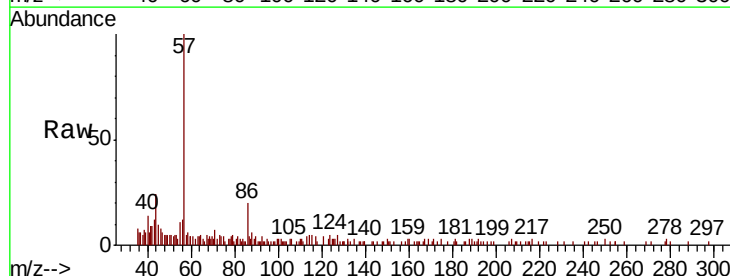
Tgt Ion: 88 Resp: 84

Ion Ratio Lower Upper

88 100

43 0.0 24.6 37.0#

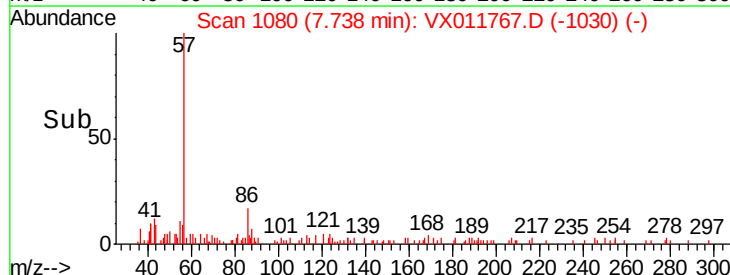
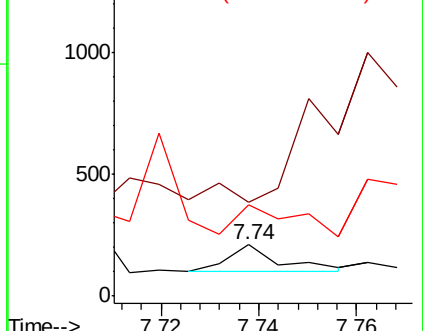
58 0.0 51.4 77.2#

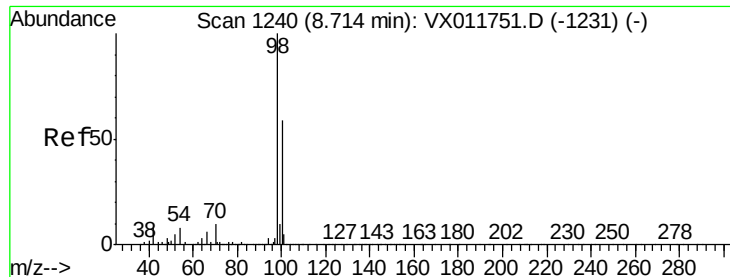


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.713 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011767.D

Acq: 22 Aug 2019 17:19

Instrument :

MSVOA_X

ClientSampleId :

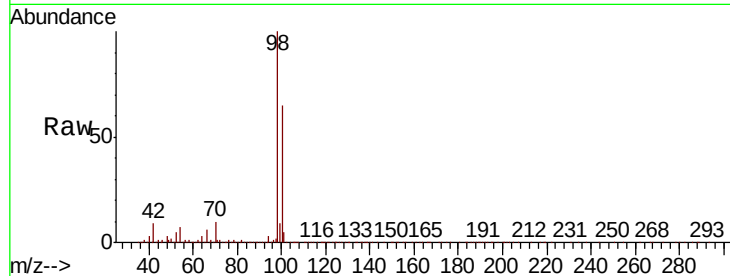
T6-E1-(0)

Tgt Ion: 98 Resp: 702831

Ion Ratio Lower Upper

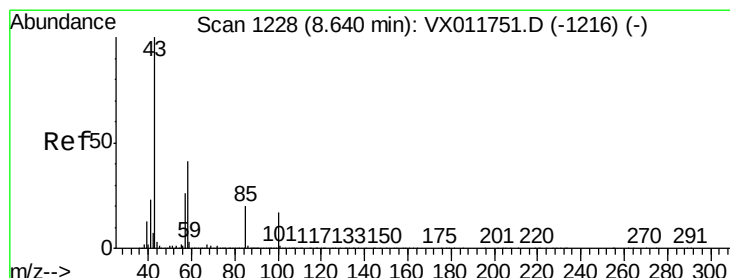
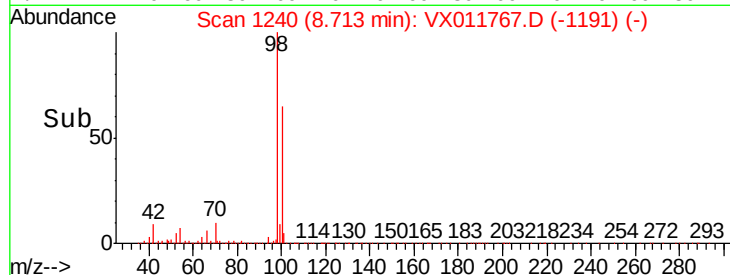
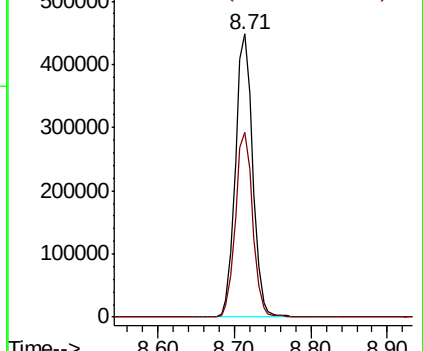
98 100

100 65.0 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 10.050 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011767.D

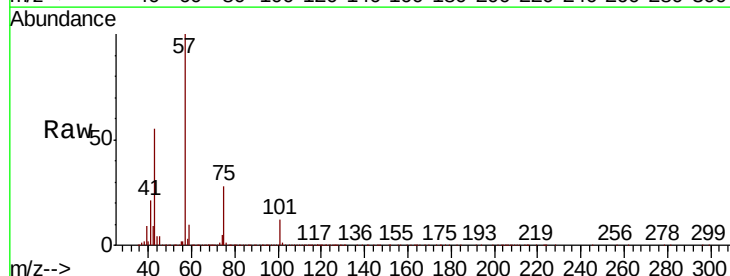
Acq: 22 Aug 2019 17:19

Tgt Ion: 43 Resp: 54650

Ion Ratio Lower Upper

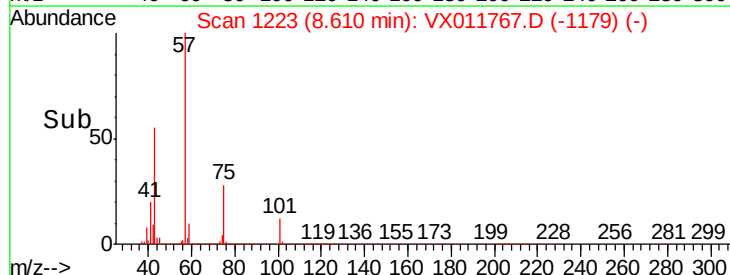
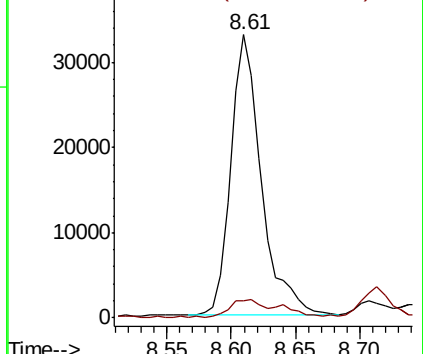
43 100

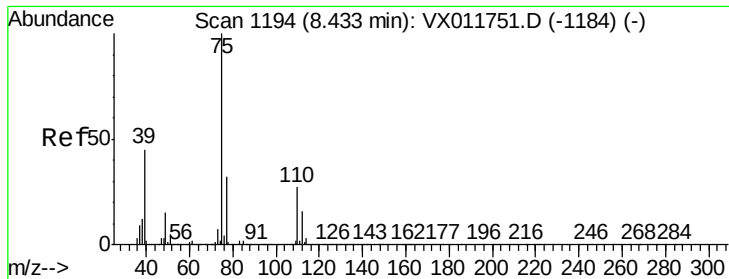
58 6.4 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#54

cis-1,3-Dichloropropene

Concen: 4.774 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. 0.18 min

Lab File: VX011767.D

Acq: 22 Aug 2019 17:19

Instrument :

MSVOA_X

ClientSampleId :

T6-E1-(0)

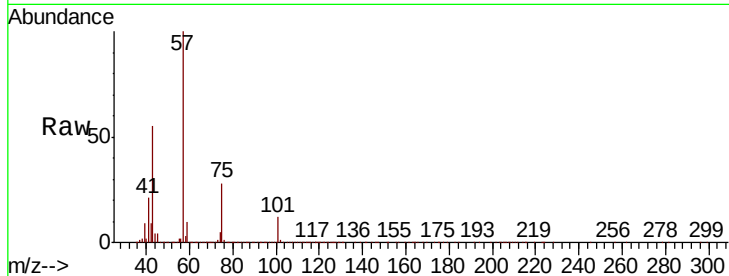
Tgt Ion: 75 Resp: 27183

Ion Ratio Lower Upper

75 100

77 0.4 25.4 38.2#

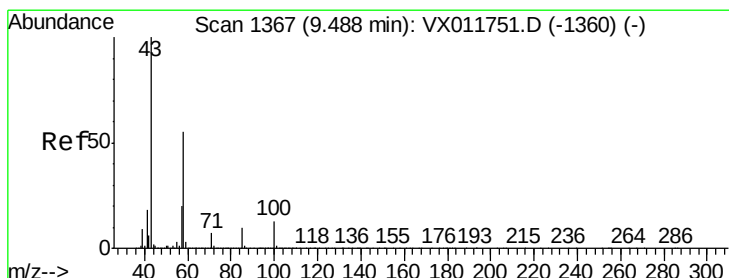
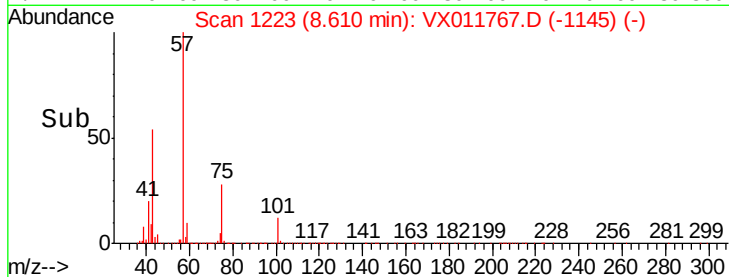
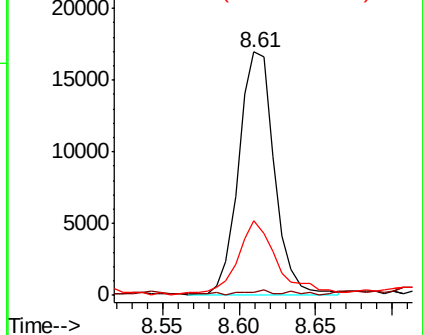
39 29.7 36.2 54.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 12.270 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011767.D

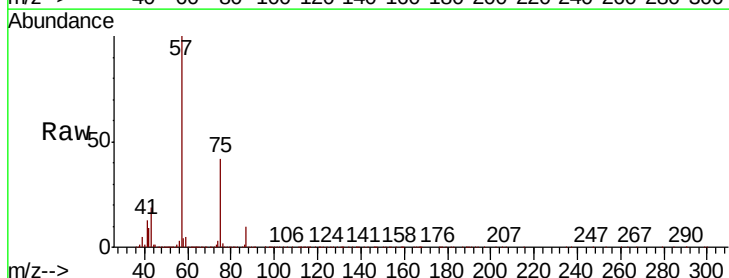
Acq: 22 Aug 2019 17:19

Tgt Ion: 43 Resp: 51215

Ion Ratio Lower Upper

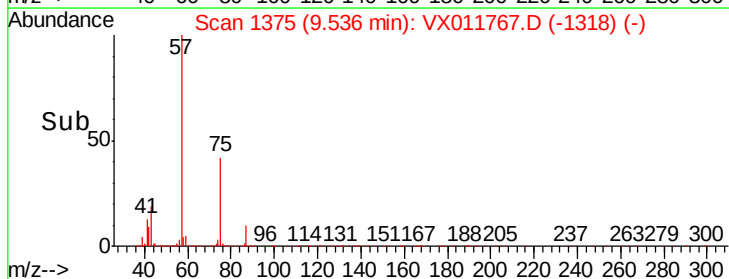
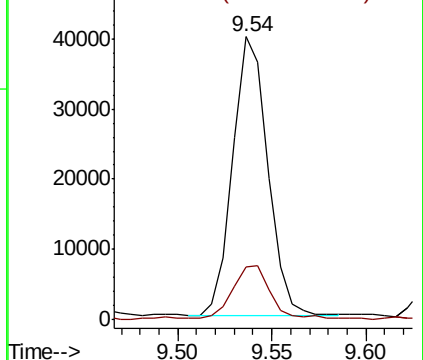
43 100

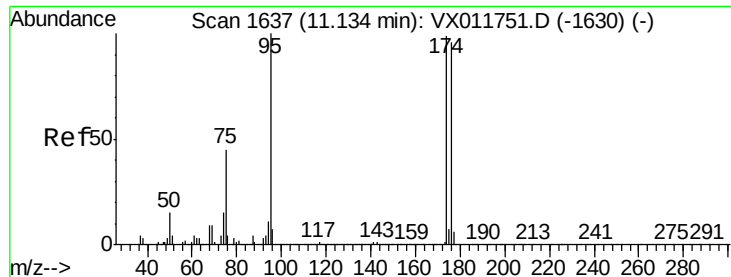
58 21.5 27.7 83.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

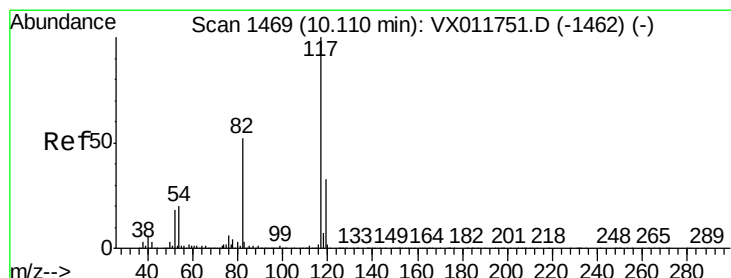
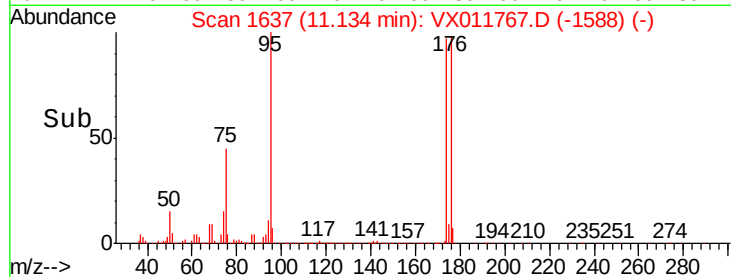
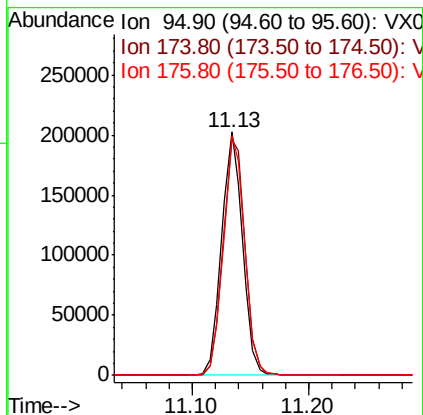
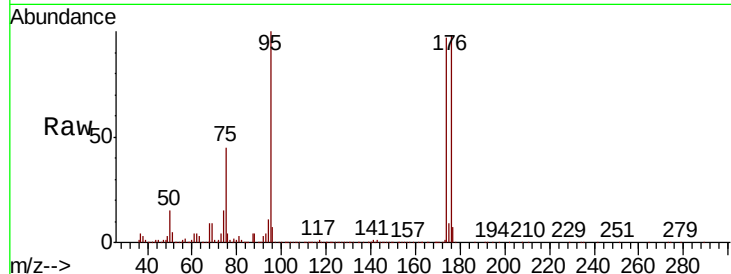




#62
4-Bromofluorobenzene
Concen: 45.574 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011767.D
Acq: 22 Aug 2019 17:19

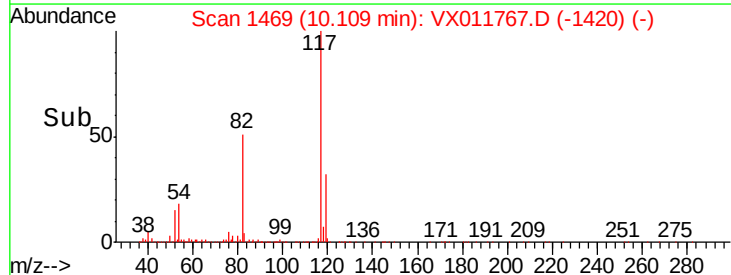
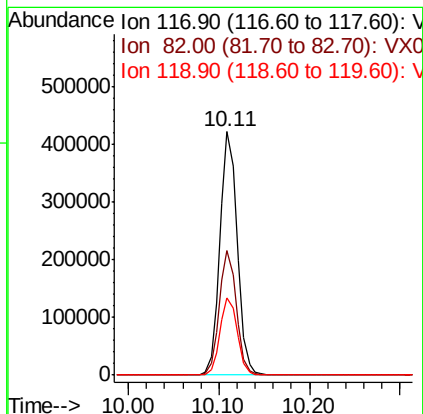
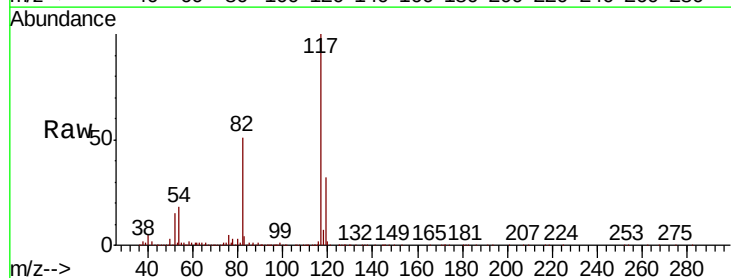
Instrument :
MSVOA_X
ClientSampled :
T6-E1-(0)

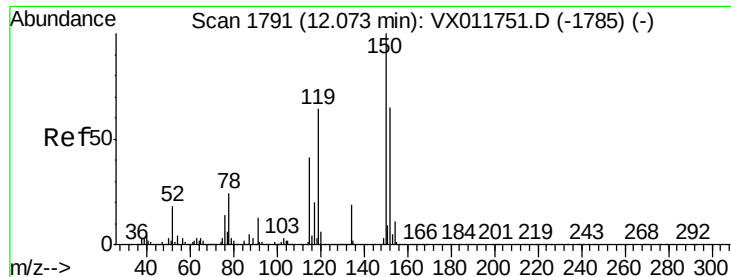
Tgt Ion: 95 Resp: 249647
Ion Ratio Lower Upper
95 100
174 102.1 0.0 197.4
176 100.2 0.0 194.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011767.D
Acq: 22 Aug 2019 17:19

Tgt Ion: 117 Resp: 565346
Ion Ratio Lower Upper
117 100
82 51.1 41.7 62.5
119 31.8 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX011767.D

Acq: 22 Aug 2019 17:19

Instrument :

MSVOA_X

ClientSampleId :

T6-E1-(0)

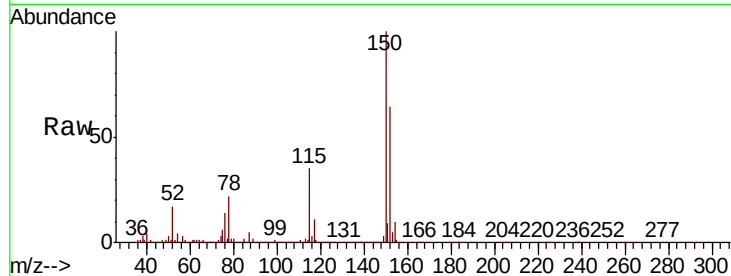
Tgt Ion:152 Resp: 268649

Ion Ratio Lower Upper

152 100

115 54.0 37.3 111.8

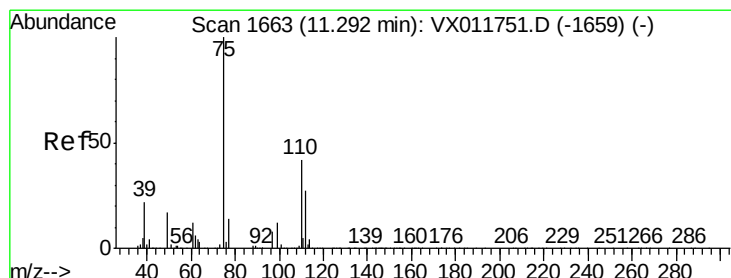
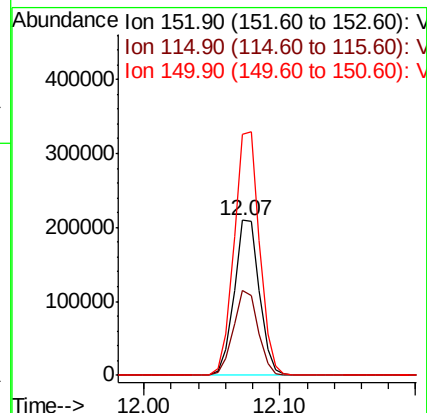
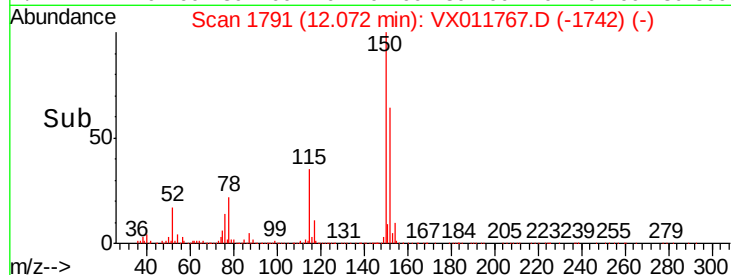
150 158.9 0.0 343.0



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



#76

1,2,3-Trichloropropane

Concen: 23.679 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011767.D

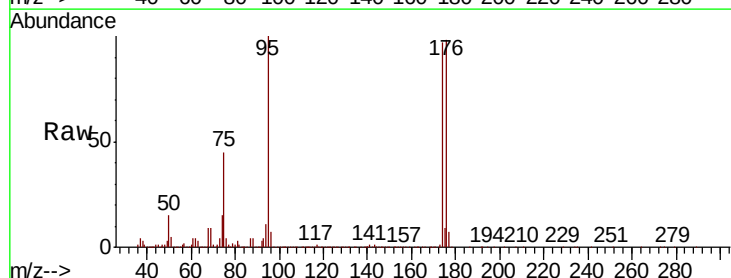
Acq: 22 Aug 2019 17:19

Tgt Ion: 75 Resp: 111622

Ion Ratio Lower Upper

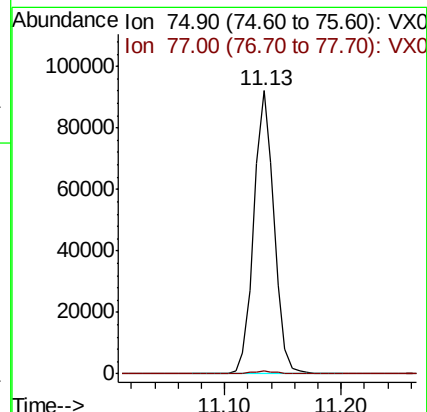
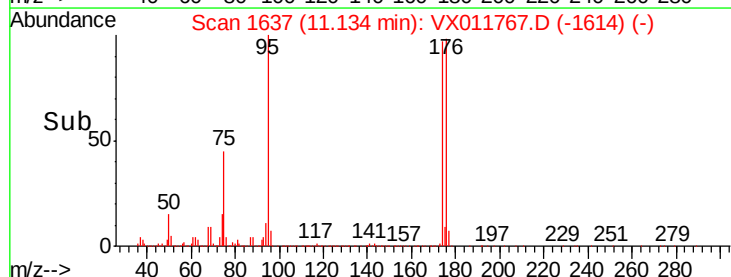
75 100

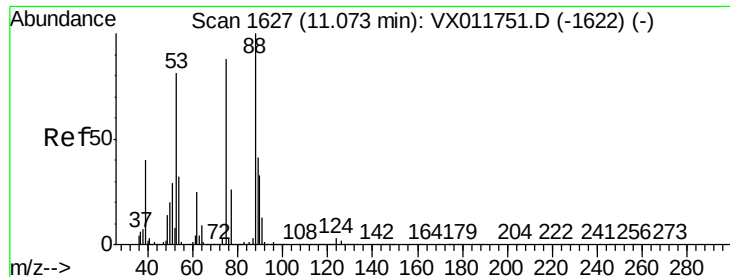
77 1.2 21.1 63.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 71.411 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011767.D

Acq: 22 Aug 2019 17:19

Instrument :

MSVOA_X

ClientSampleId :

T6-E1-(0)

Tgt Ion: 75 Resp: 111622

Ion Ratio Lower Upper

75 100

53 0.3 77.1 115.7#

89 0.2 38.5 57.7#

