

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010919\
 Data File : VX006974.D
 Acq On : 09 Jan 2019 19:13
 Operator : JC/MD
 Sample : K1006-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 10 00:58:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	627836	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	978073	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	911006	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	438370	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	337182	51.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.78%	
35) Dibromofluoromethane	5.50	113	299380	47.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.60%	
50) Toluene-d8	8.71	98	1170537	51.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.12%	
62) 4-Bromofluorobenzene	11.13	95	406915	50.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.82%	

Target Compounds

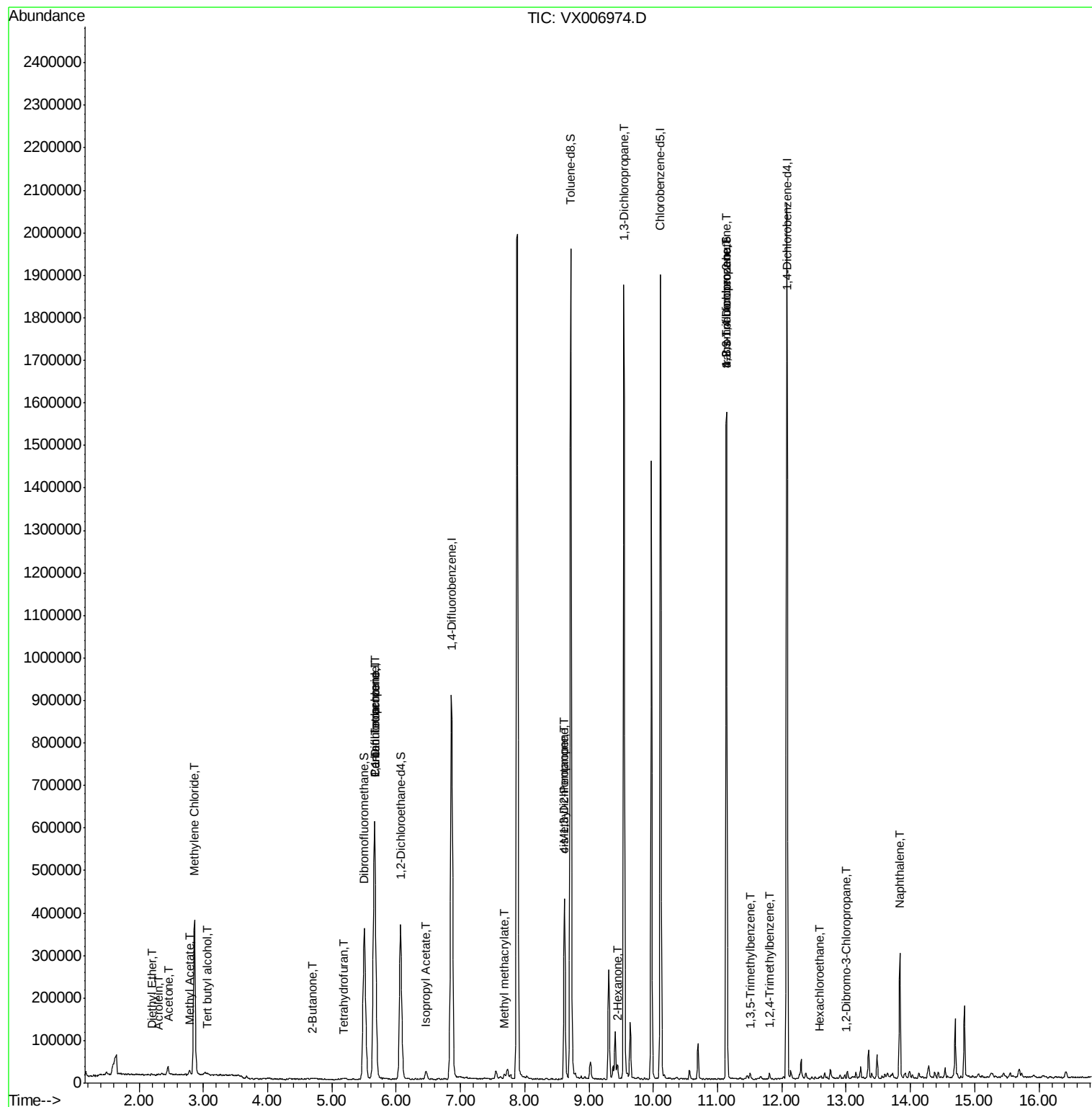
					Qvalue	
8) Diethyl Ether	2.19	74	1705	0.411	ug/l	55
11) Tert butyl alcohol	3.06	59	4783	3.090	ug/l #	74
13) Acrolein	2.29	56	365	3.624	ug/l #	1
16) Acetone	2.45	43	22913	7.064	ug/l	99
18) Methyl Acetate	2.78	43	15484	1.648	ug/l	95
20) Methylene Chloride	2.86	84	172341	27.681	ug/l	97
25) 2-Butanone	4.70	43	4682	1.009	ug/l	98
29) Tetrahydrofuran	5.17	42	1808	0.599	ug/l	88
36) 1,1-Dichloropropene	5.66	75	40465	4.759	ug/l #	49
38) Carbon Tetrachloride	5.66	117	56712	6.629	ug/l #	14
43) Isopropyl Acetate	6.46	43	26937	1.873	ug/l	100
48) Methyl methacrylate	7.68	41	12908	1.748	ug/l #	12
49) 1,4-Dioxane	7.74	88	53	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	135638	14.677	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	70123	7.338	ug/l #	65
57) 1,3-Dichloropropane	9.54	76	15726	1.438	ug/l #	44
59) 2-Hexanone	9.44	43	21047	2.989	ug/l #	24
76) 1,2,3-Trichloropropane	11.13	75	196112	22.076	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	6208	0.240	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.13	75	196112	65.365	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	6726	0.259	ug/l	97
90) Hexachloroethane	12.59	117	869	3.094	ug/l #	6
92) 1,2-Dibromo-3-Chloropropan	13.00	75	673	0.347	ug/l #	1
95) Naphthalene	13.83	128	185267	5.866	ug/l	99

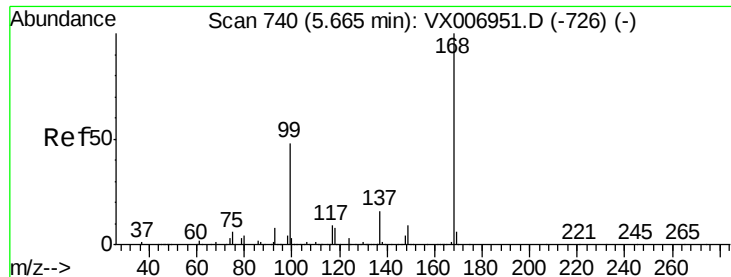
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX010919\
Data File : VX006974.D
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ClientSampleId :

Quant Time: Jan 10 00:58:51 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX006974.D

Acq: 09 Jan 2019 19:13

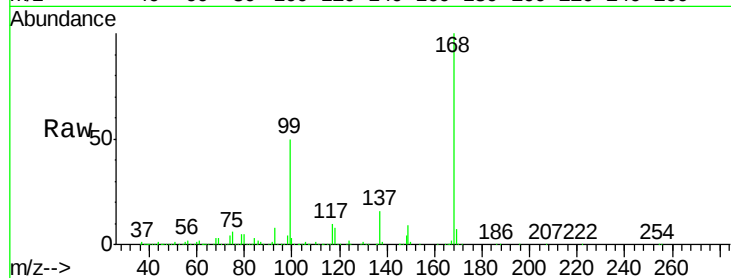
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 627836

Ion Ratio Lower Upper

168 100

99 49.5 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

100000

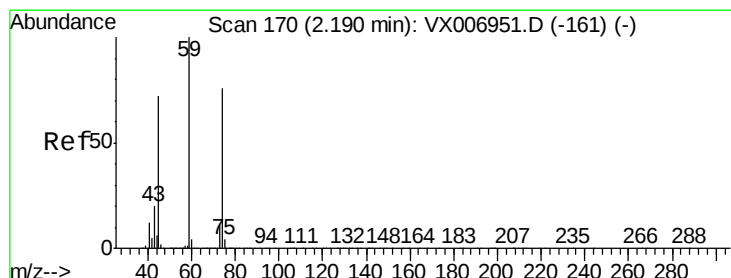
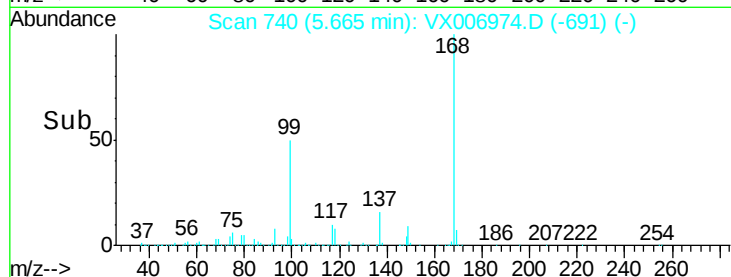
50000

0

5.66

5.50 5.60 5.70 5.80

Time-->



#8

Diethyl Ether

Concen: 0.411 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX006974.D

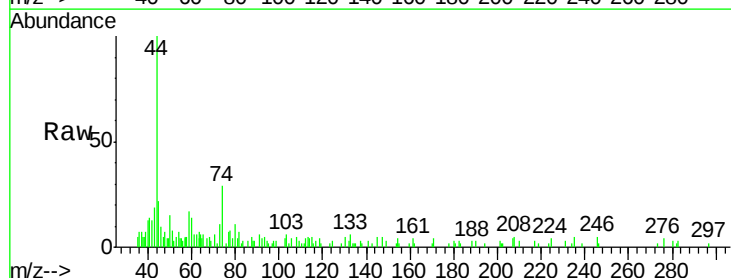
Acq: 09 Jan 2019 19:13

Tgt Ion: 74 Resp: 1705

Ion Ratio Lower Upper

74 100

45 49.4 46.3 138.9



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

1000

800

600

400

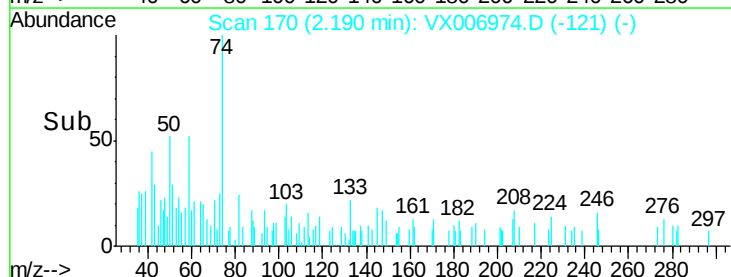
200

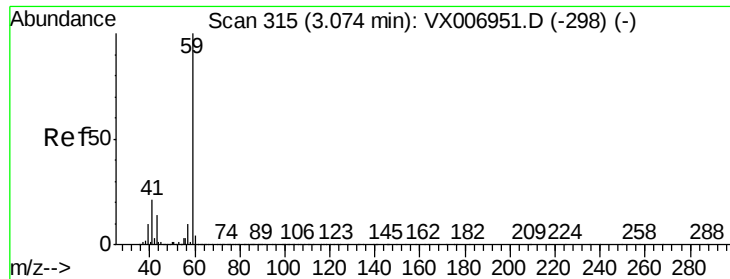
0

2.19

2.10 2.15 2.20 2.25

Time-->



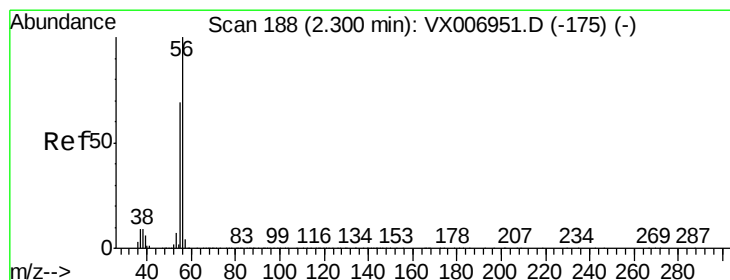
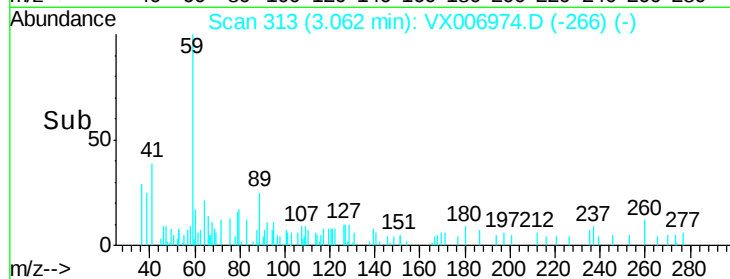
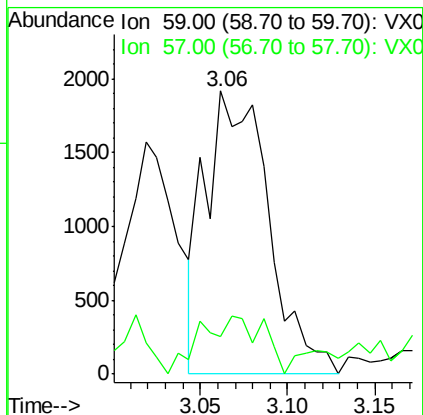
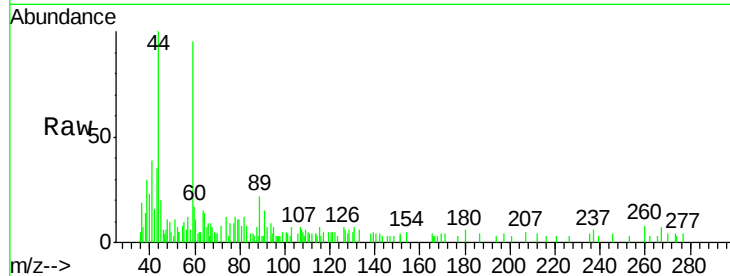


#11

Tert butvl alcohol
Concen: 3.090 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.01 min
Lab File: VX006974.D
Acq: 09 Jan 2019 19:13

Instrument :
MSVOA_X
ClientSampleId :

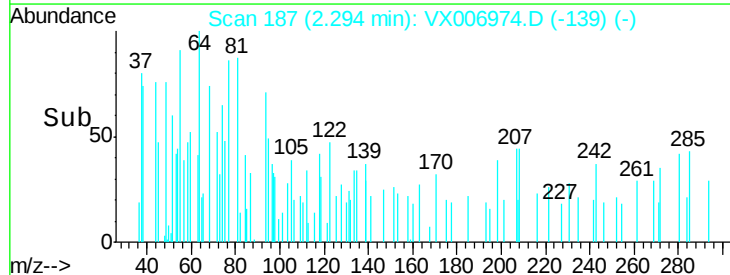
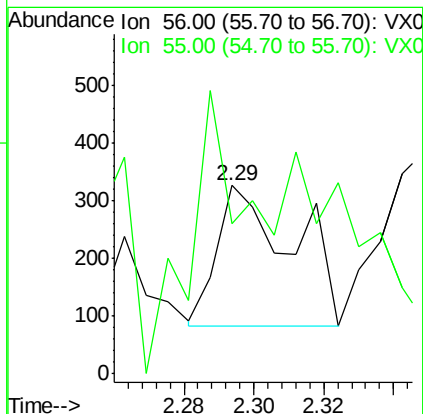
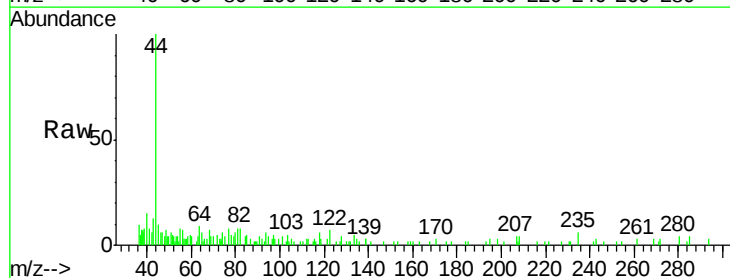
Tot Ion: 59 Resp: 4783
Ion Ratio Lower Upper
59 100
57 20.4 8.5 12.7#

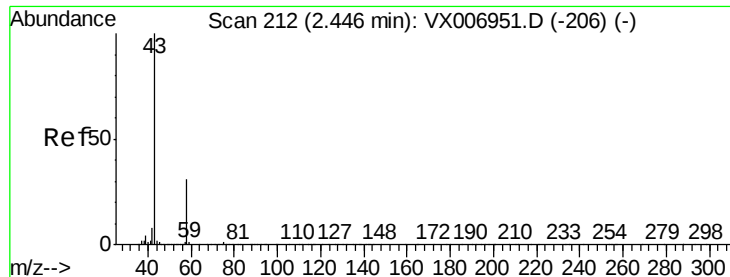


#13

Acrolein
Concen: 3.624 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.01 min
Lab File: VX006974.D
Acq: 09 Jan 2019 19:13

Tgt Ion: 56 Resp: 365
Ion Ratio Lower Upper
56 100
55 162.2 58.2 87.4#

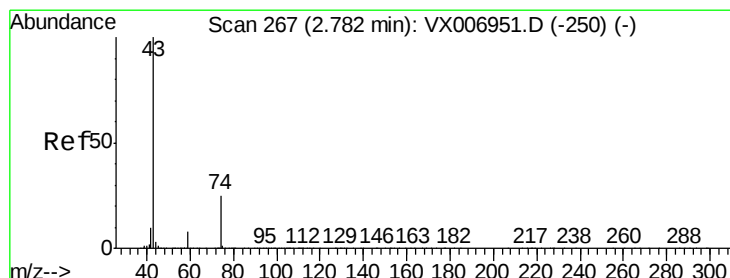
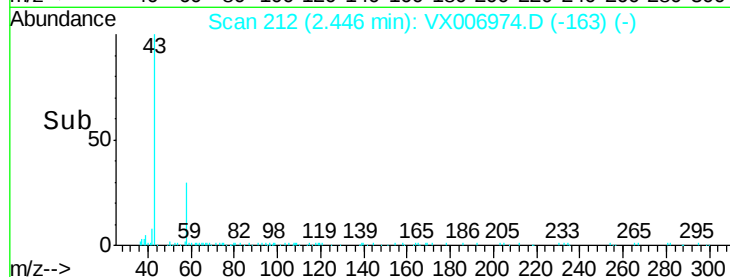
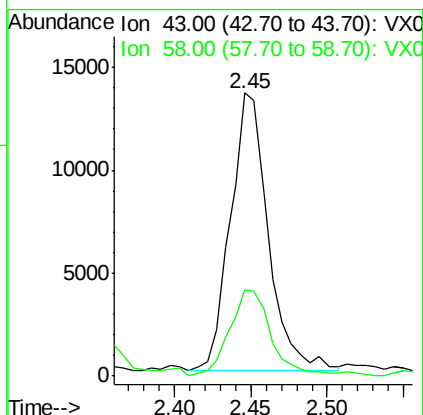
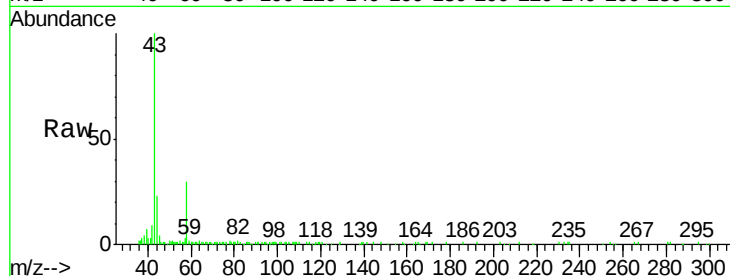




#16
Acetone
Concen: 7.064 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006974.D
Acq: 09 Jan 2019 19:13

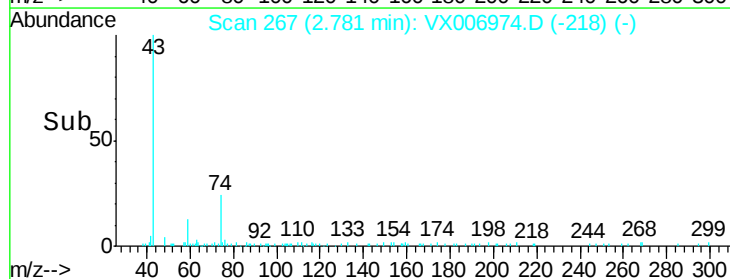
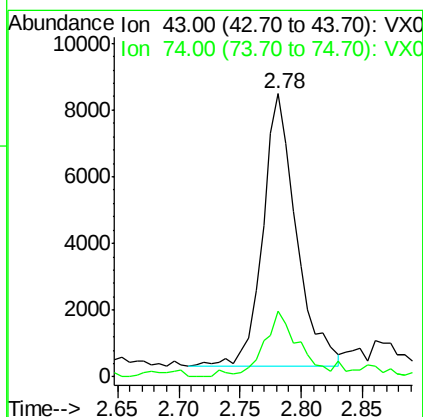
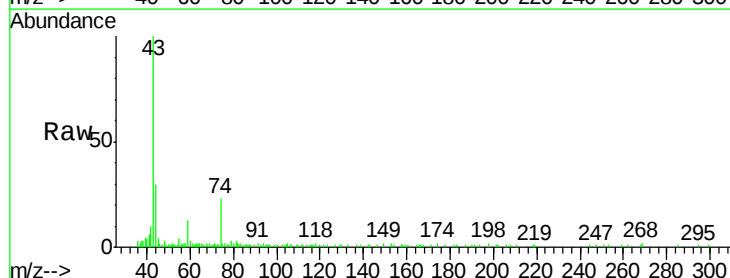
Instrument :
MSVOA_X
ClientSampleId :

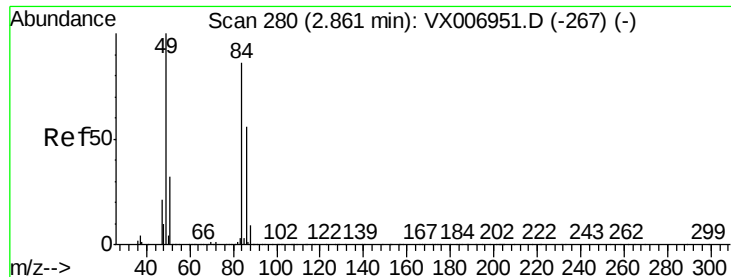
Tot Ion: 43 Resp: 22913
Ion Ratio Lower Upper
43 100
58 30.6 25.0 37.6



#18
Methyl Acetate
Concen: 1.648 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX006974.D
Acq: 09 Jan 2019 19:13

Tgt Ion: 43 Resp: 15484
Ion Ratio Lower Upper
43 100
74 25.6 18.6 28.0

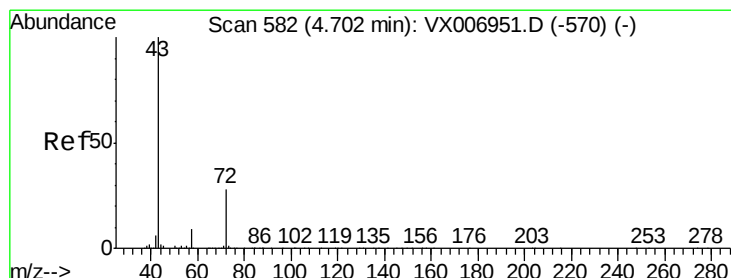
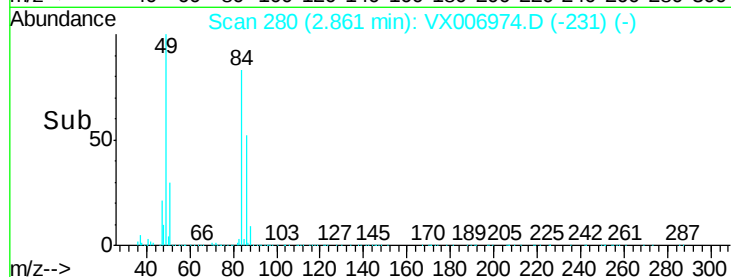
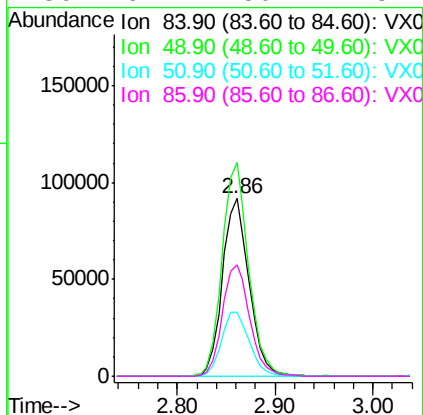
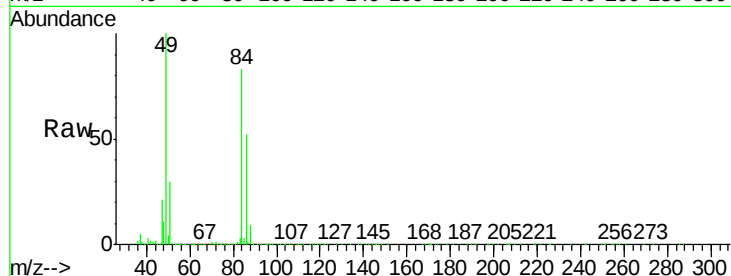




#20
Methvlene Chloride
Concen: 27.681 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006974.D
Acq: 09 Jan 2019 19:13

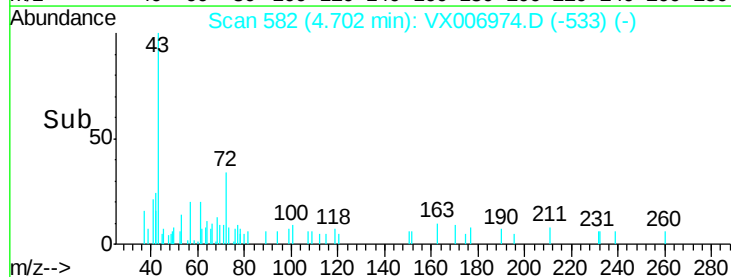
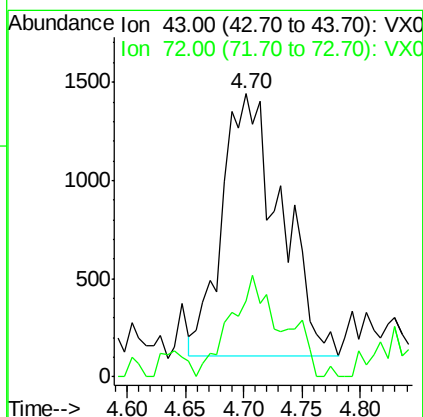
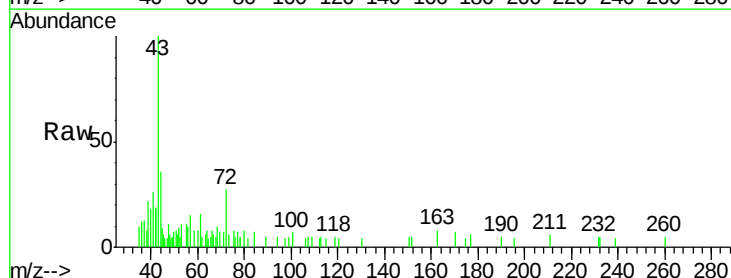
Instrument :
MSVOA_X
ClientSampleId :

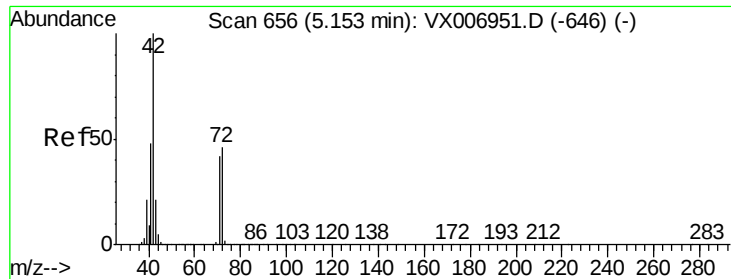
Tot Ion:	84	Resp:	172341
Ion	Ratio	Lower	Upper
84	100		
49	120.3	91.8	137.6
51	36.0	28.5	42.7
86	62.4	50.2	75.2



#25
2-Butanone
Concen: 1.009 ug/l
RT: 4.70 min Scan# 582
Delta R.T. -0.00 min
Lab File: VX006974.D
Acq: 09 Jan 2019 19:13

Tgt Ion:	43	Resp:	4682
Ion	Ratio	Lower	Upper
43	100		
72	29.1	22.4	33.6

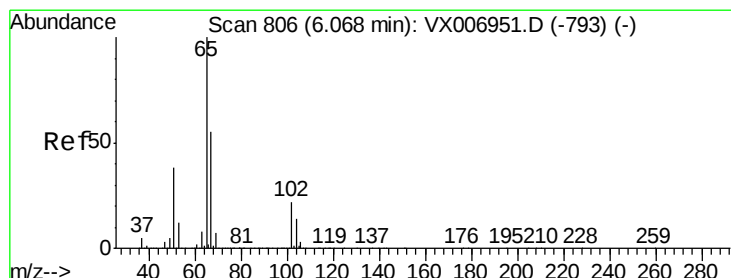
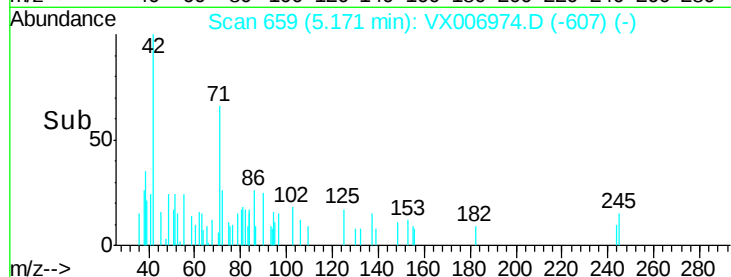
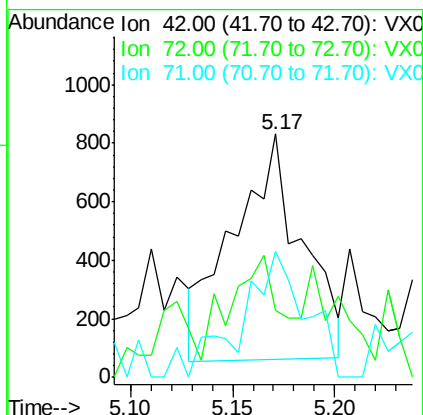
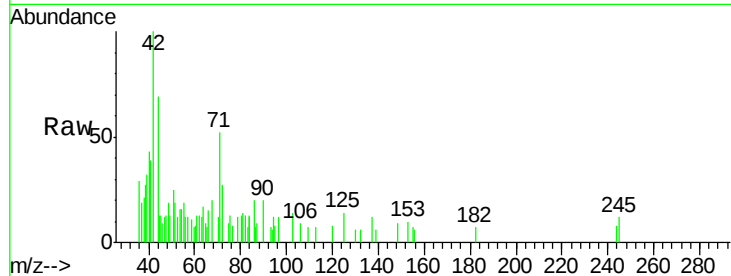




#29
Tetrahydrofuran
Concen: 0.599 ug/l
RT: 5.17 min Scan# 659
Delta R.T. 0.02 min
Lab File: VX006974.D
Acq: 09 Jan 2019 19:13

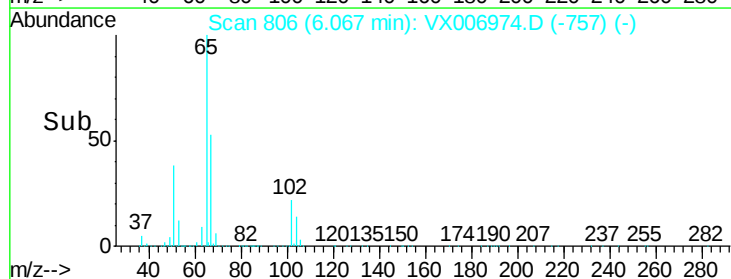
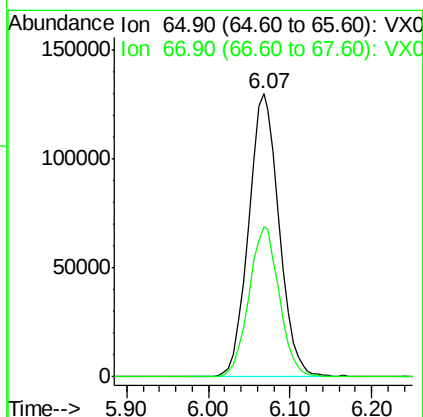
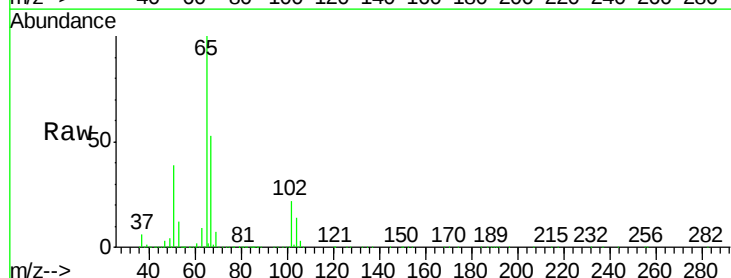
Instrument :
MSVOA_X
ClientSampleId :

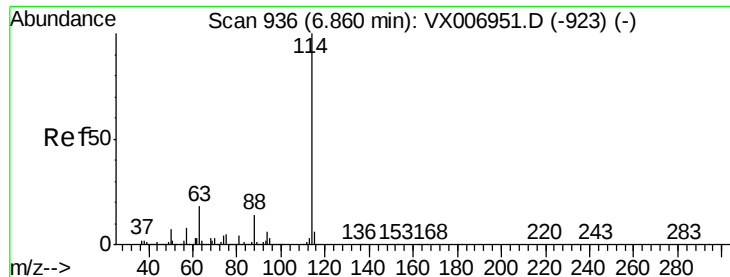
Tot Ion	Ratio	Lower	Upper
42	100		
72	39.6	38.9	58.3
71	52.6	36.2	54.4



#33
1,2-Dichloroethane-d4
Concen: 51.389 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX006974.D
Acq: 09 Jan 2019 19:13

Tgt Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006974.D

Acq: 09 Jan 2019 19:13

Instrument :

MSVOA_X

ClientSampled :

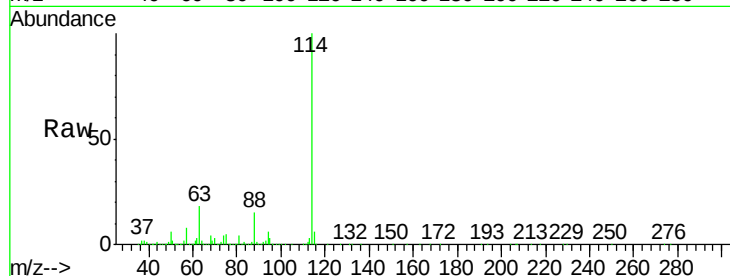
Tot Ion:114 Resp: 978073

Ion Ratio Lower Upper

114 100

63 17.8 0.0 34.8

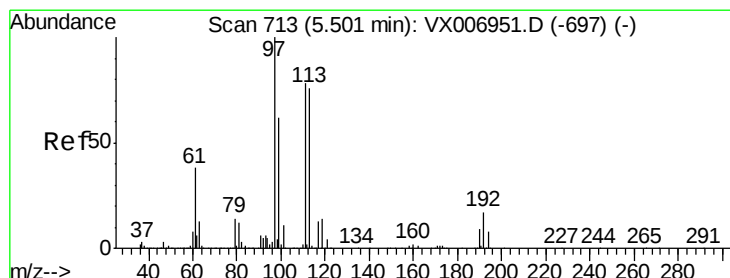
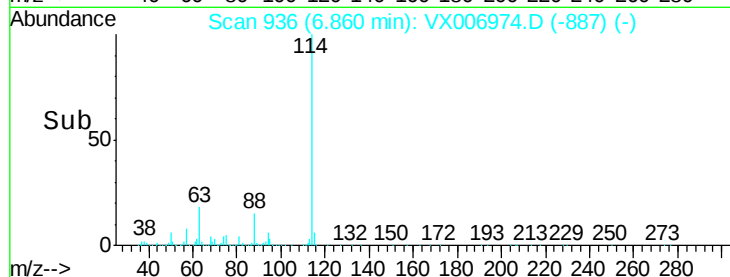
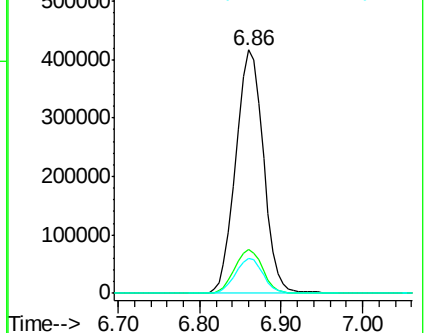
88 14.5 0.0 28.8



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: 47.797 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006974.D

Acq: 09 Jan 2019 19:13

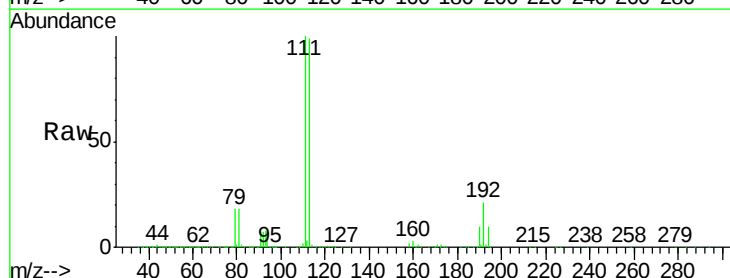
Tgt Ion:113 Resp: 299380

Ion Ratio Lower Upper

113 100

111 102.3 81.6 122.4

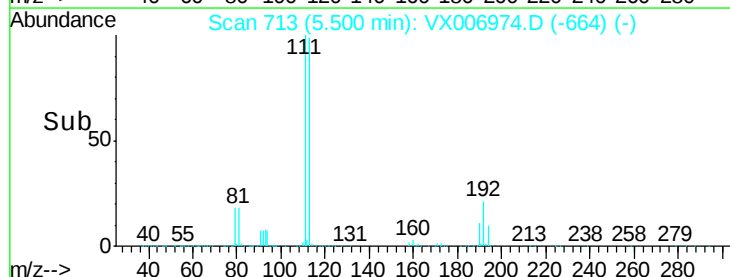
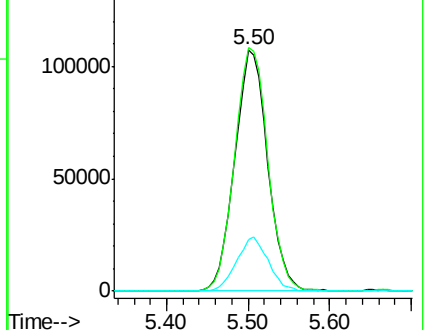
192 21.6 16.7 25.1

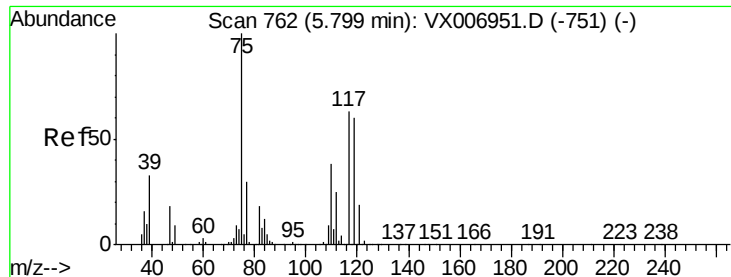


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.759 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006974.D

Acq: 09 Jan 2019 19:13

Instrument :

MSVOA_X

ClientSampleId :

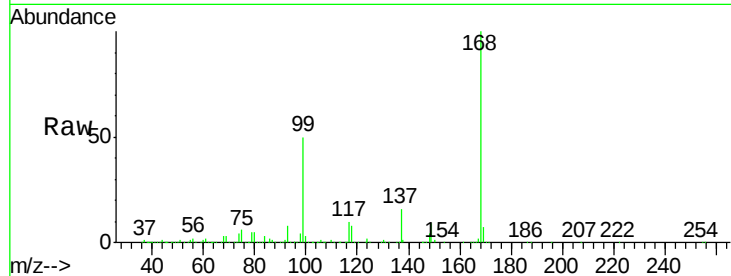
Tot Ion: 75 Resp: 40465

Ion Ratio Lower Upper

75 100

110 10.5 20.2 60.5#

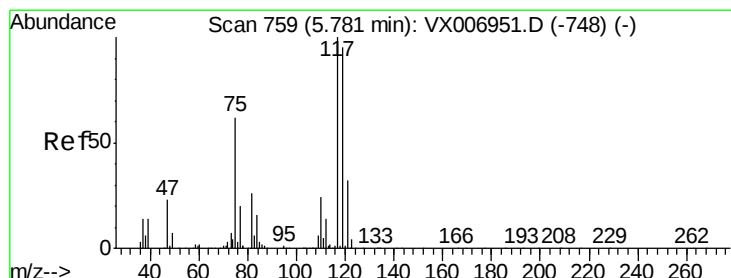
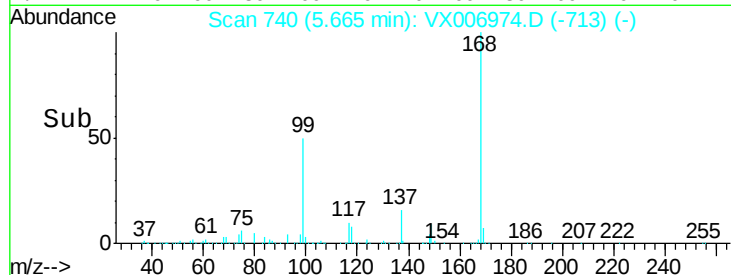
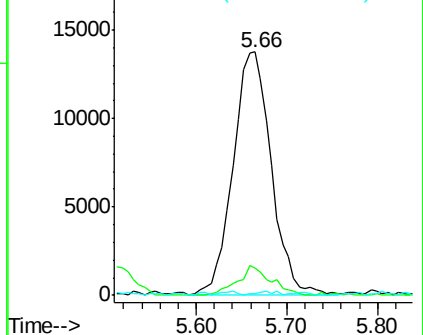
77 0.9 24.8 37.2#



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: 6.629 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006974.D

Acq: 09 Jan 2019 19:13

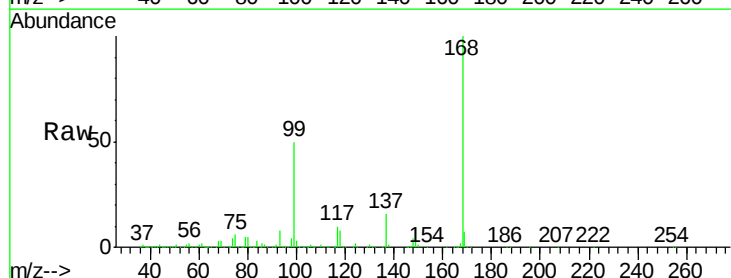
Tgt Ion: 117 Resp: 56712

Ion Ratio Lower Upper

117 100

119 3.9 79.4 119.2#

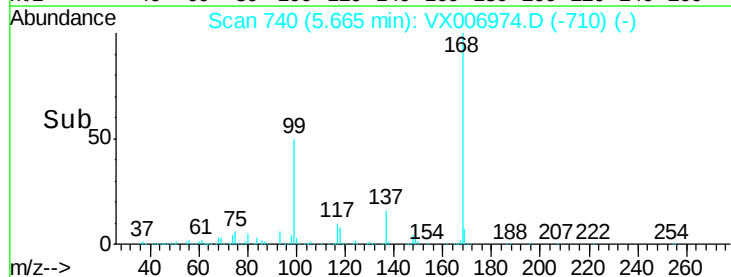
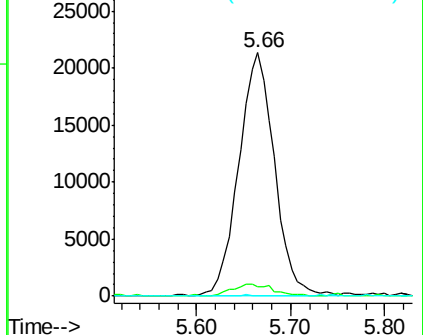
121 0.0 24.0 36.0#

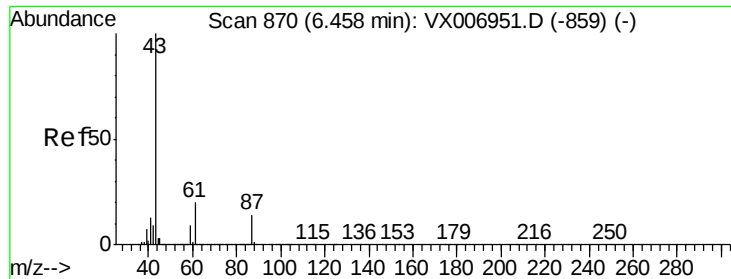


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 1.873 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.00 min

Lab File: VX006974.D

Acq: 09 Jan 2019 19:13

Instrument :

MSVOA_X

ClientSampleId :

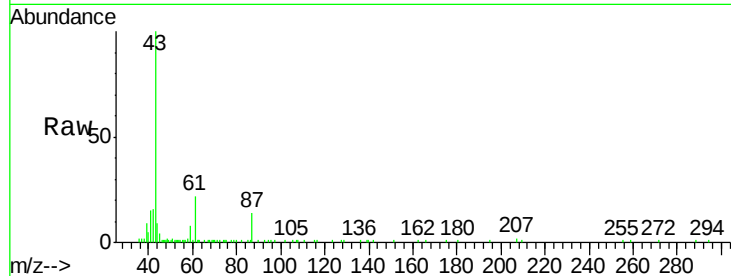
Tot Ion: 43 Resp: 26937

Ion Ratio Lower Upper

43 100

61 21.2 16.8 25.2

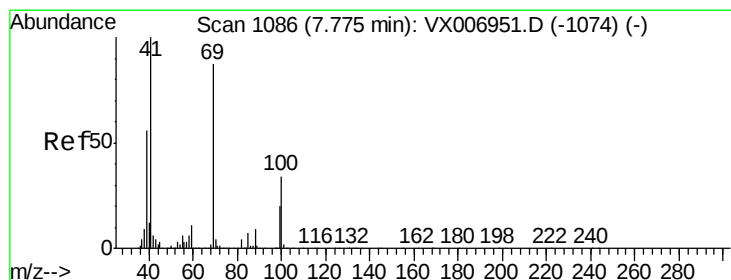
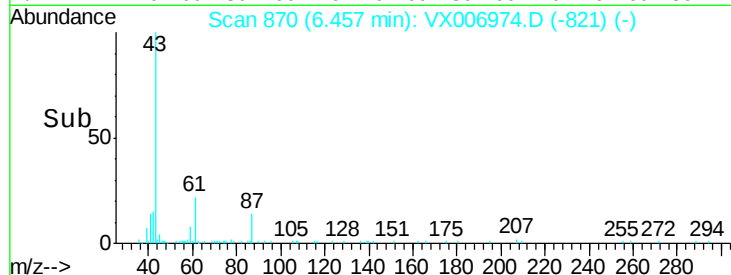
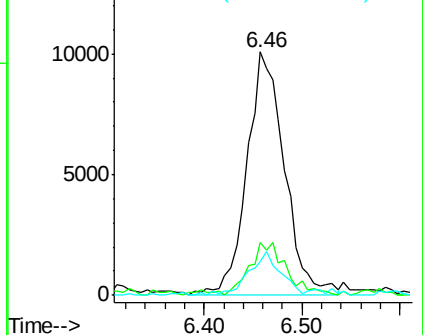
87 15.4 12.4 18.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.748 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX006974.D

Acq: 09 Jan 2019 19:13

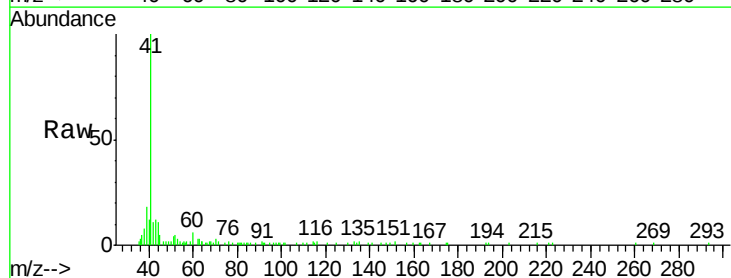
Tgt Ion: 41 Resp: 12908

Ion Ratio Lower Upper

41 100

69 0.8 72.4 108.6#

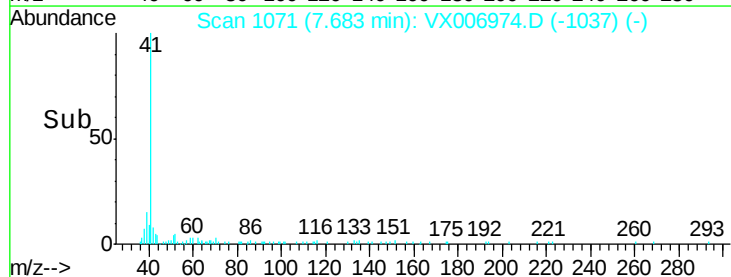
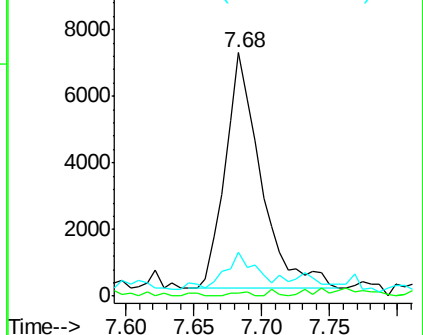
39 0.0 45.8 68.8#

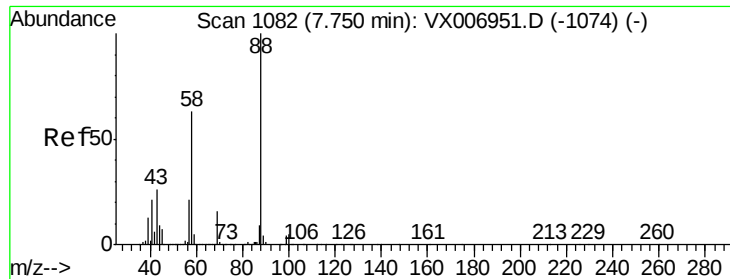


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.74 min Scan# 1080

Delta R.T. -0.01 min

Lab File: VX006974.D

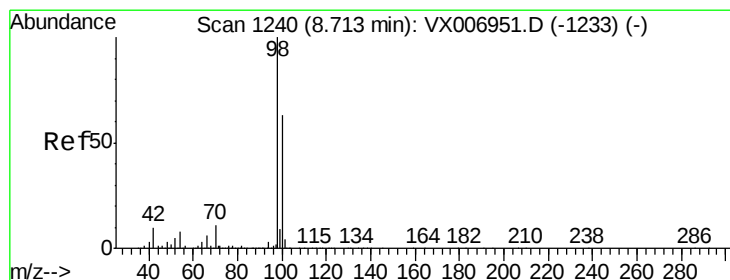
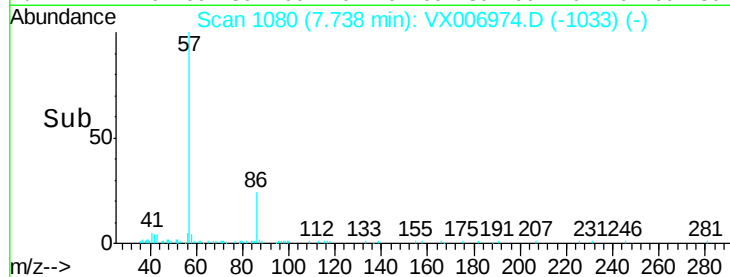
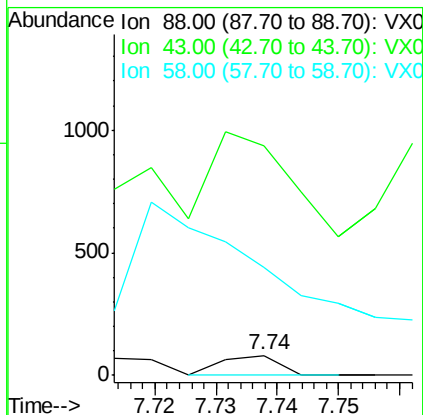
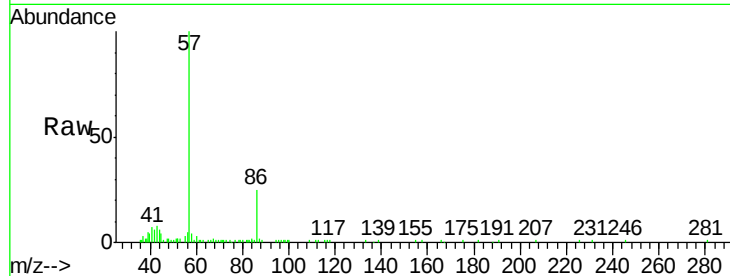
Acq: 09 Jan 2019 19:13

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	88	Resp:	53
Ion	Ratio	Lower	Upper
88	100		
43	0.0	22.2	33.4#
58	0.0	51.0	76.4#



#50

Toluene-d8

Concen: 51.056 ug/l

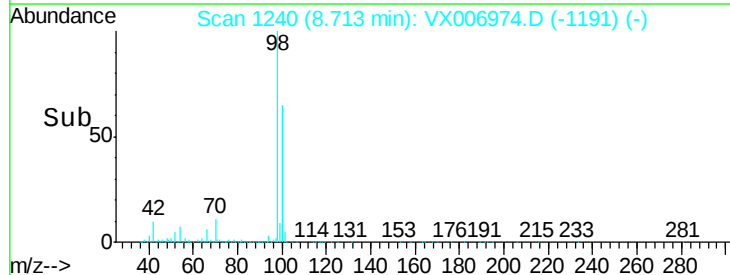
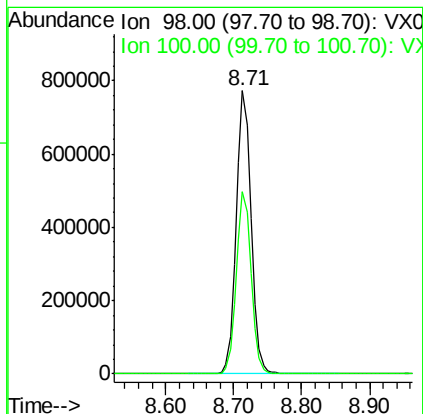
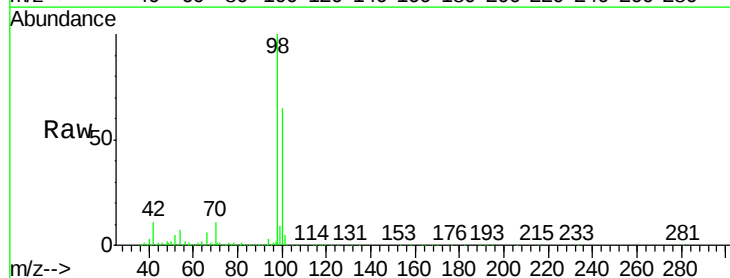
RT: 8.71 min Scan# 1240

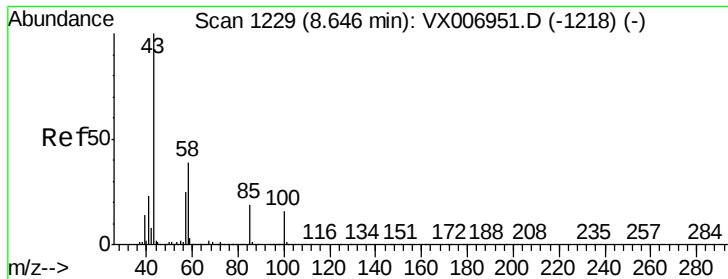
Delta R.T. -0.00 min

Lab File: VX006974.D

Acq: 09 Jan 2019 19:13

Tgt Ion:	98	Resp:	1170537
Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.0	78.0





#51

4-Methyl-2-Pentanone

Concen: 14.677 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX006974.D

Acq: 09 Jan 2019 19:13

Instrument :

MSVOA_X

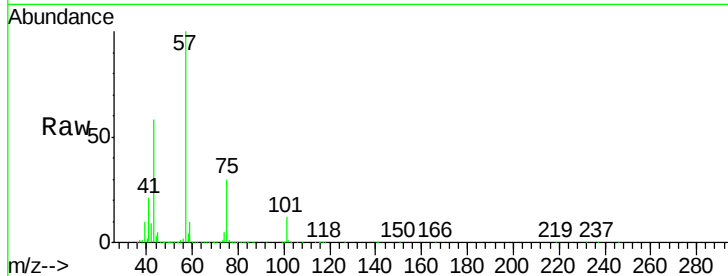
ClientSampleId :

Tot Ion: 43 Resp: 135638

Ion Ratio Lower Upper

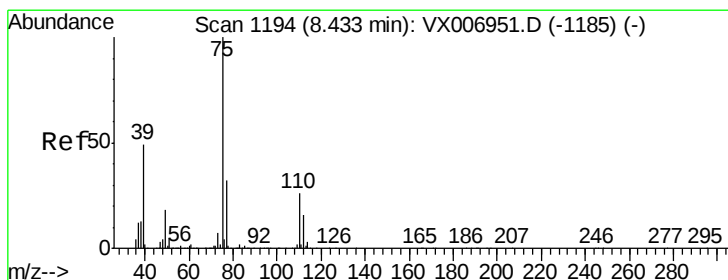
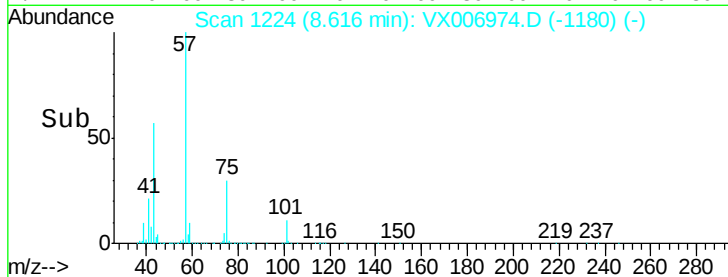
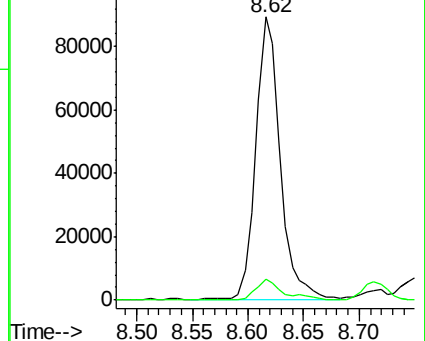
43 100

58 8.1 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: 7.338 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX006974.D

Acq: 09 Jan 2019 19:13

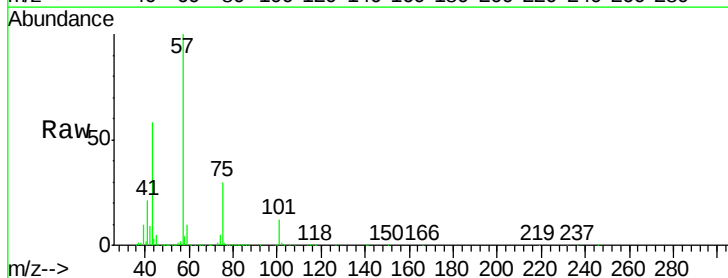
Tgt Ion: 75 Resp: 70123

Ion Ratio Lower Upper

75 100

77 0.4 26.2 39.2#

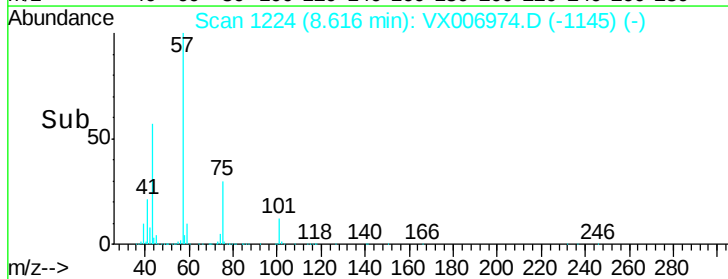
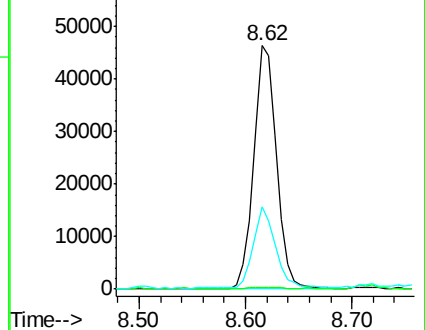
39 33.0 36.7 55.1#

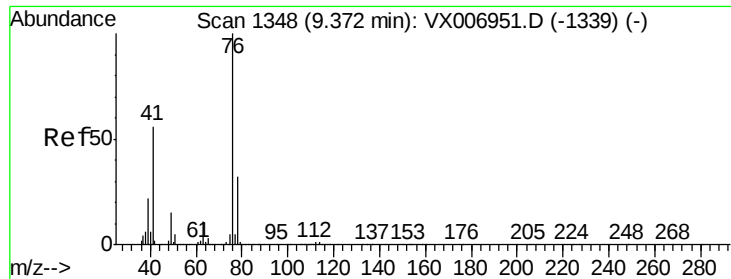


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#57

1,3-Dichloropropane

Concen: 1.438 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX006974.D

Acq: 09 Jan 2019 19:13

Instrument :

MSVOA_X

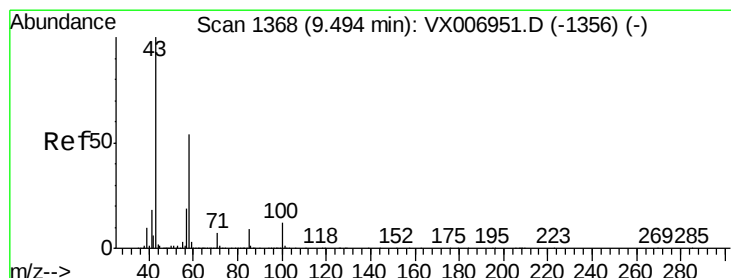
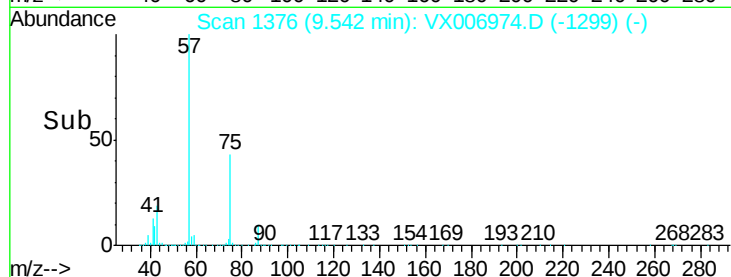
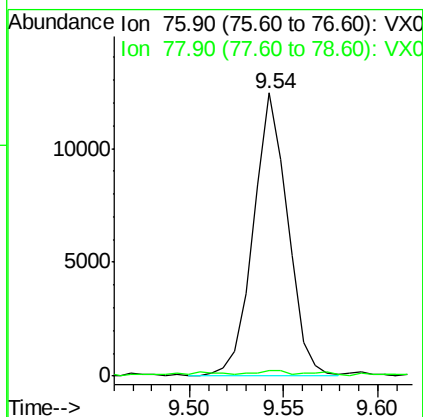
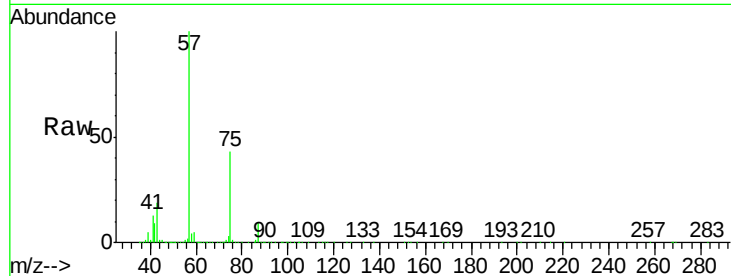
ClientSampled :

Tot Ion: 76 Resp: 15726

Ion Ratio Lower Upper

76 100

78 1.2 26.0 39.0#



#59

2-Hexanone

Concen: 2.989 ug/l

RT: 9.44 min Scan# 1360

Delta R.T. -0.05 min

Lab File: VX006974.D

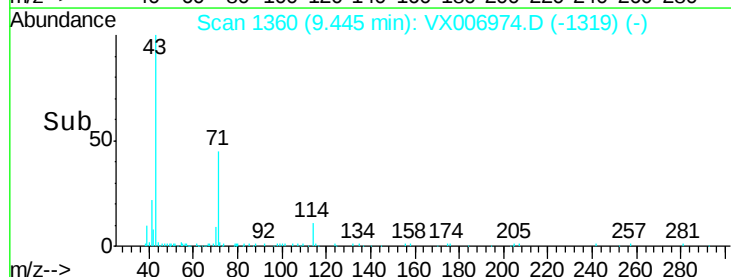
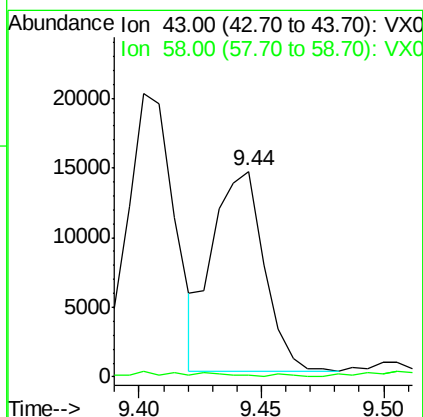
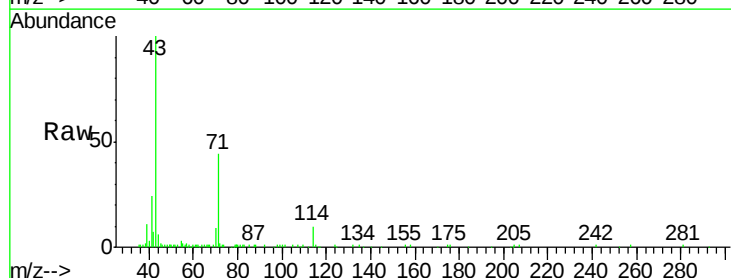
Acq: 09 Jan 2019 19:13

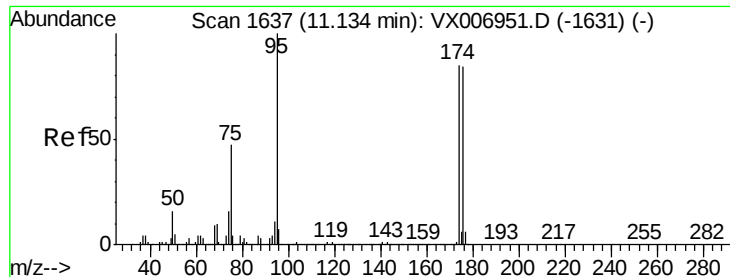
Tgt Ion: 43 Resp: 21047

Ion Ratio Lower Upper

43 100

58 0.0 27.7 83.1#

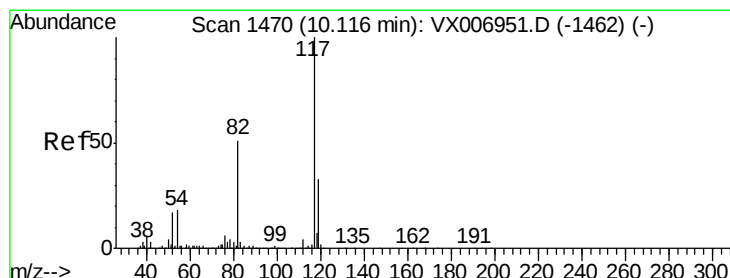
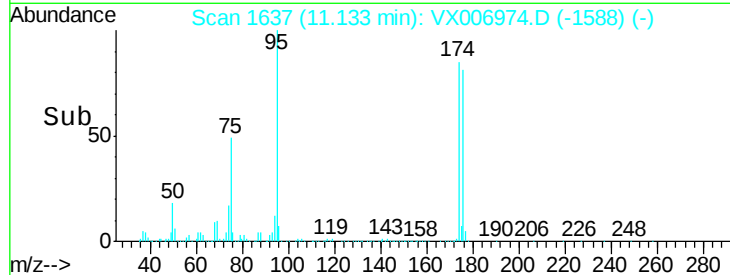
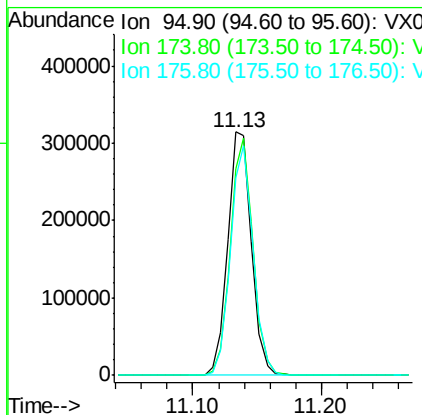
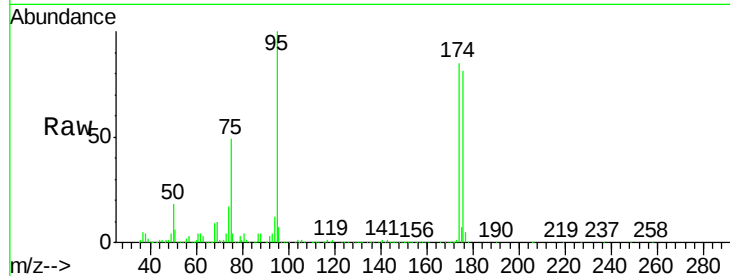




#62
4-Bromofluorobenzene
Concen: 50.911 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX006974.D
Acq: 09 Jan 2019 19:13

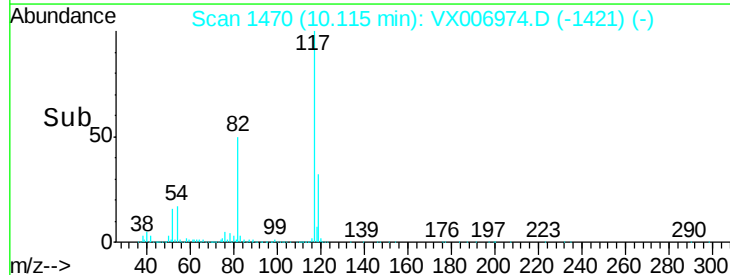
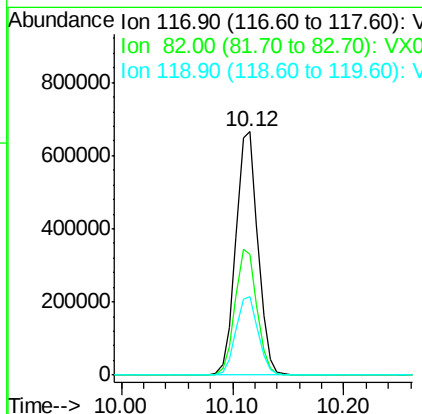
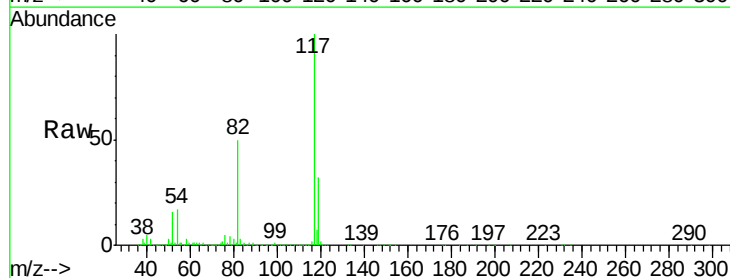
Instrument :
MSVOA_X
ClientSampleId :

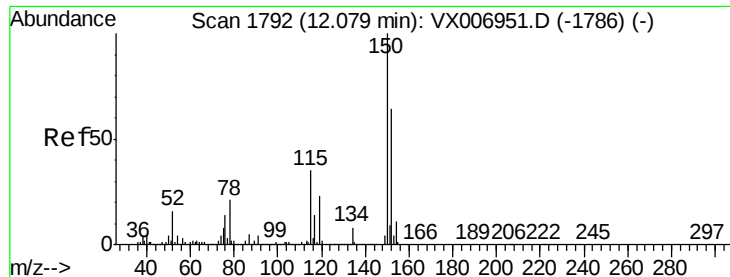
Tot Ion	Ratio	Lower	Upper
95	100		
174	93.2	0.0	182.2
176	90.2	0.0	178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX006974.D
Acq: 09 Jan 2019 19:13

Tgt Ion	Ratio	Lower	Upper
117	100		
82	49.7	41.0	61.6
119	32.4	25.4	38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006974.D

Acq: 09 Jan 2019 19:13

Instrument :

MSVOA_X

ClientSampleId :

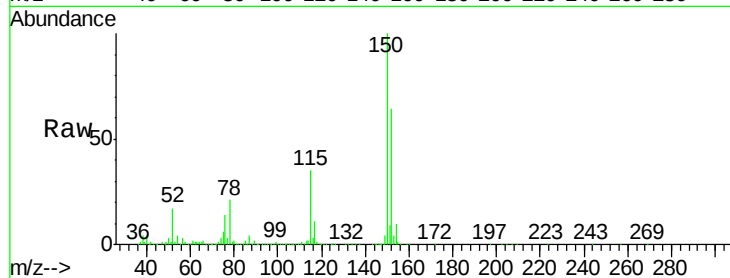
Tot Ion:152 Resp: 438370

Ion Ratio Lower Upper

152 100

115 54.5 39.1 117.2

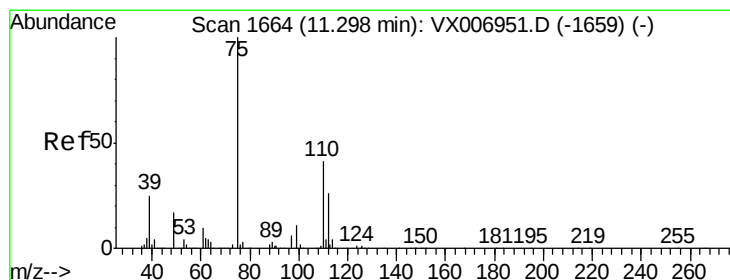
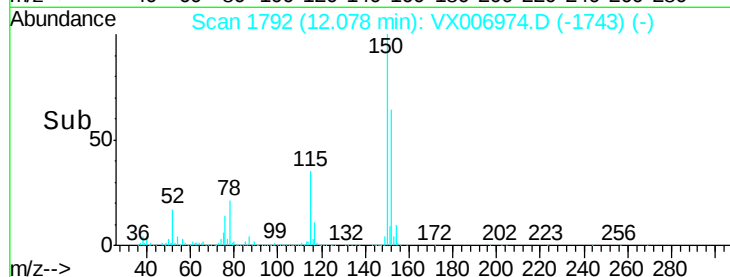
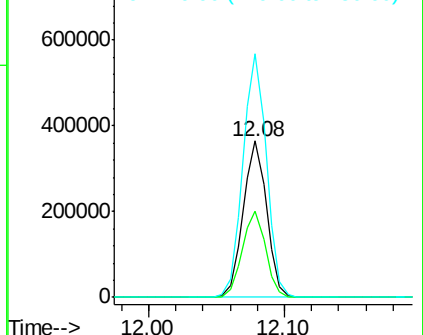
150 156.7 0.0 344.8



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: 22.076 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006974.D

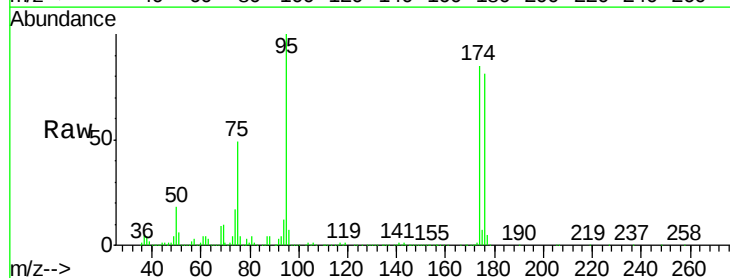
Acq: 09 Jan 2019 19:13

Tgt Ion: 75 Resp: 196112

Ion Ratio Lower Upper

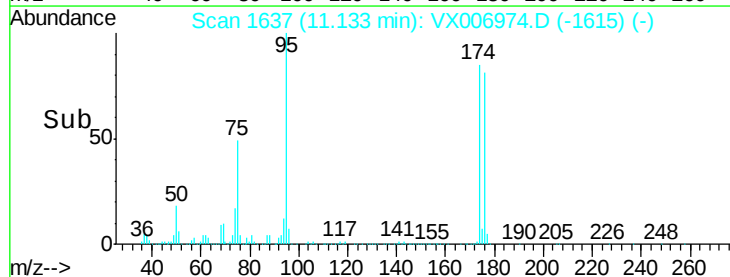
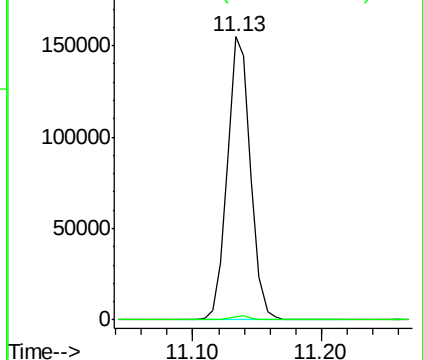
75 100

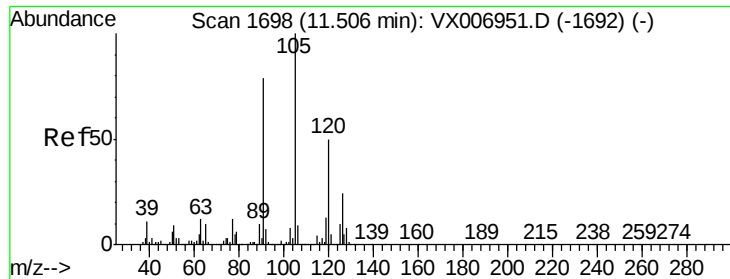
77 1.3 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.240 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX006974.D

Acq: 09 Jan 2019 19:13

Instrument :

MSVOA_X

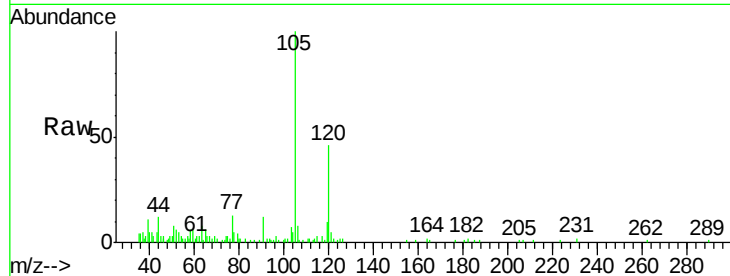
ClientSampled :

Tot Ion:105 Resp: 6208

Ion Ratio Lower Upper

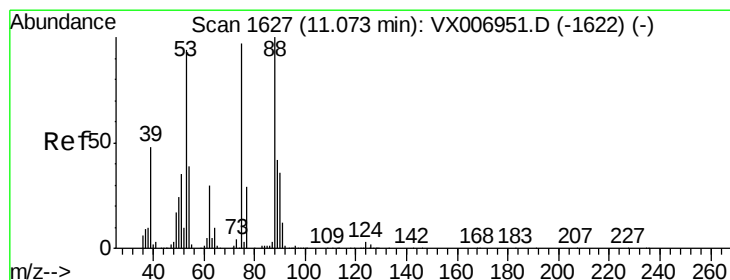
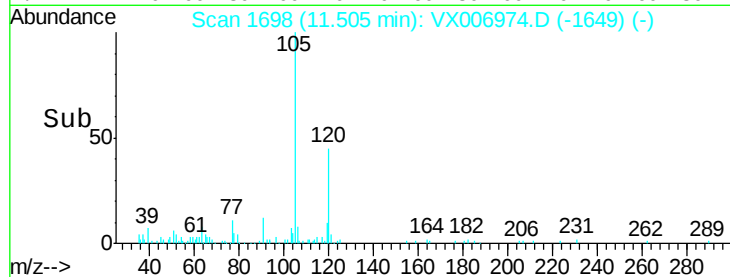
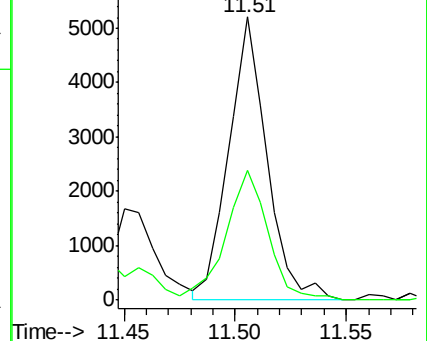
105 100

120 51.1 25.1 75.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 65.365 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006974.D

Acq: 09 Jan 2019 19:13

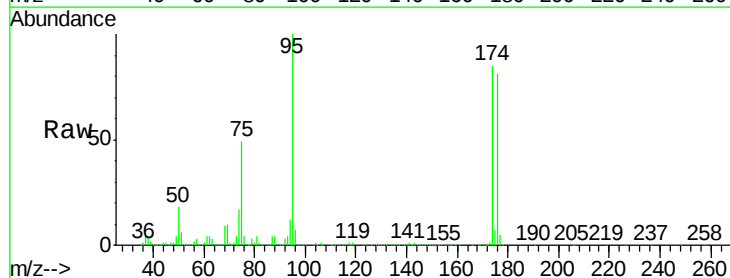
Tgt Ion: 75 Resp: 196112

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

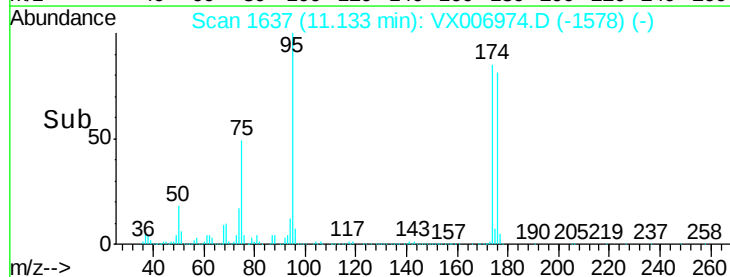
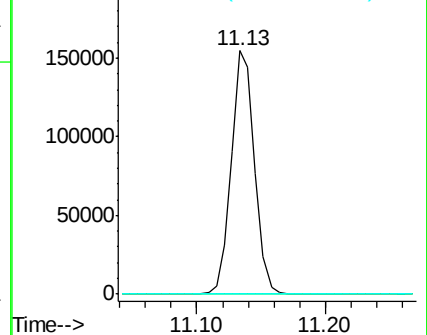
89 0.1 38.0 57.0#

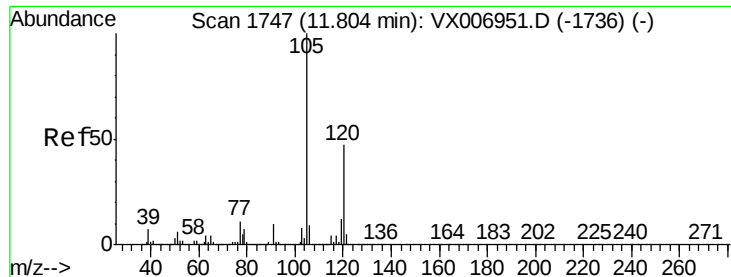


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#84

1,2,4-Trimethylbenzene

Concen: 0.259 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.01 min

Lab File: VX006974.D

Acq: 09 Jan 2019 19:13

Instrument :

MSVOA_X

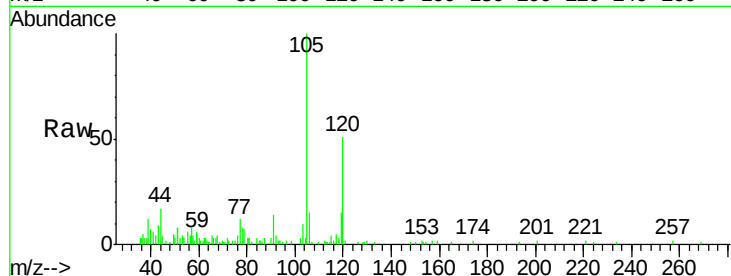
ClientSampled :

Tot Ion:105 Resp: 6726

Ion Ratio Lower Upper

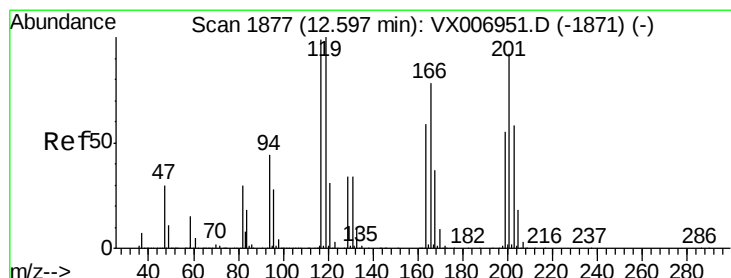
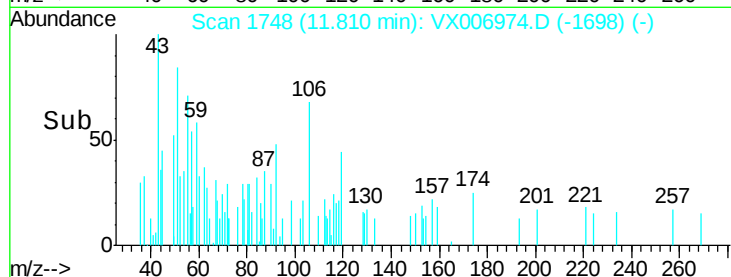
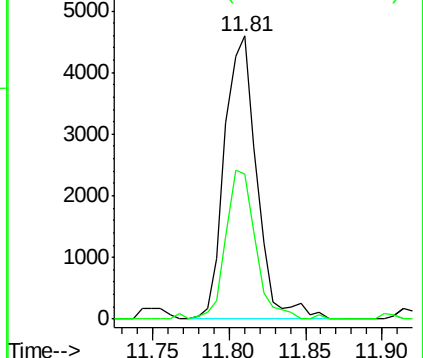
105 100

120 48.2 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#90

Hexachloroethane

Concen: 3.094 ug/l

RT: 12.59 min Scan# 1876

Delta R.T. -0.01 min

Lab File: VX006974.D

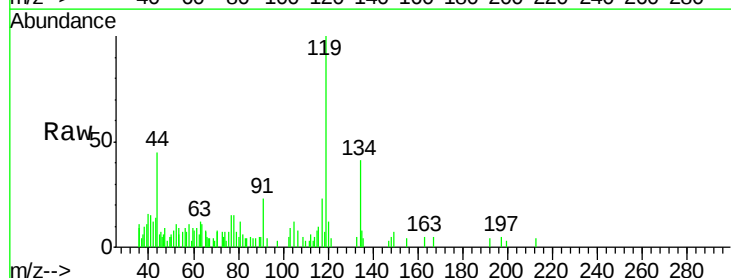
Acq: 09 Jan 2019 19:13

Tgt Ion:117 Resp: 869

Ion Ratio Lower Upper

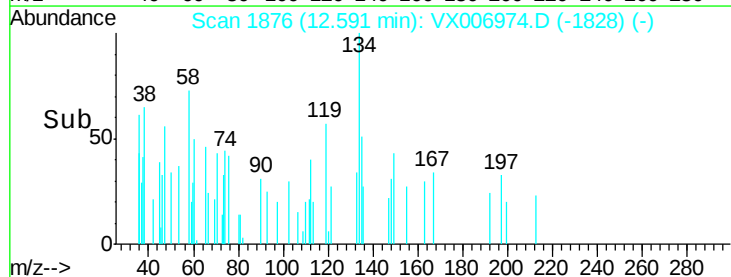
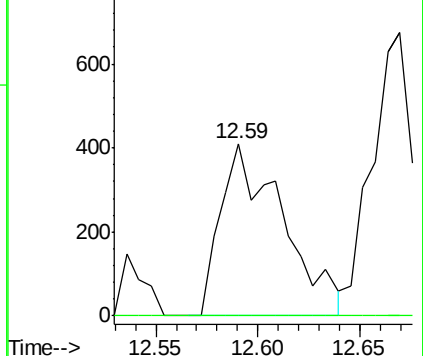
117 100

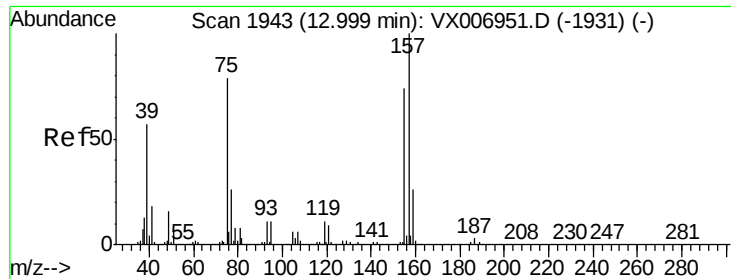
201 0.0 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.347 ug/l

RT: 13.00 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VX006974.D

Acq: 09 Jan 2019 19:13

Instrument :

MSVOA_X

ClientSampled :

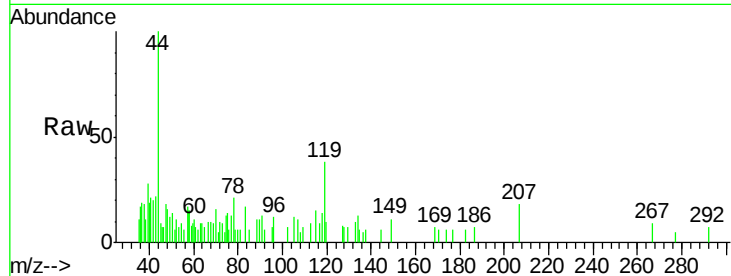
Tot Ion: 75 Resp: 673

Ion Ratio Lower Upper

75 100

155 3.3 50.6 151.8#

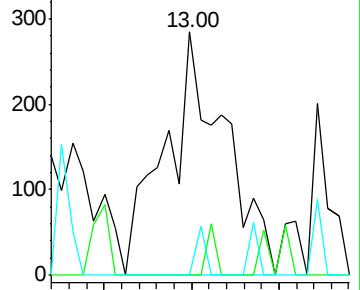
157 3.1 64.6 193.8#



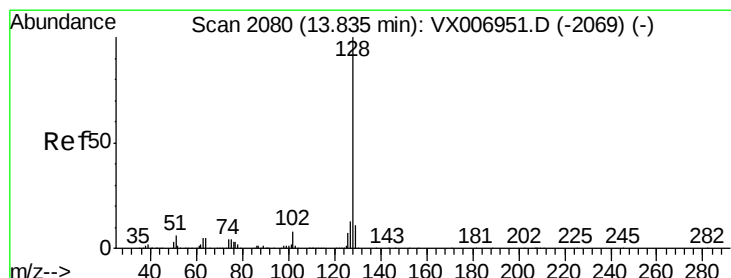
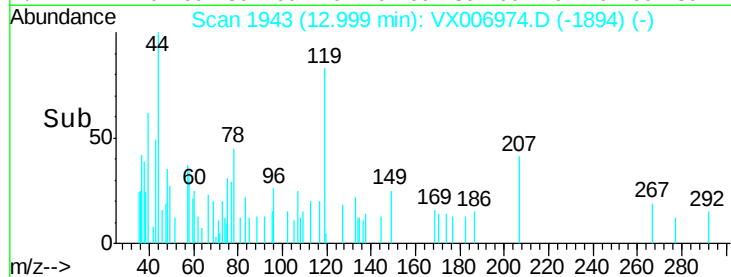
Abundance Ion 74.90 (74.60 to 75.60): VX006951.D (-1931) (-)

Ion 154.80 (154.50 to 155.50): VX006951.D (-1931) (-)

Ion 156.80 (156.50 to 157.50): VX006951.D (-1931) (-)



Time-->



#95

Naphthalene

Concen: 5.866 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX006974.D

Acq: 09 Jan 2019 19:13

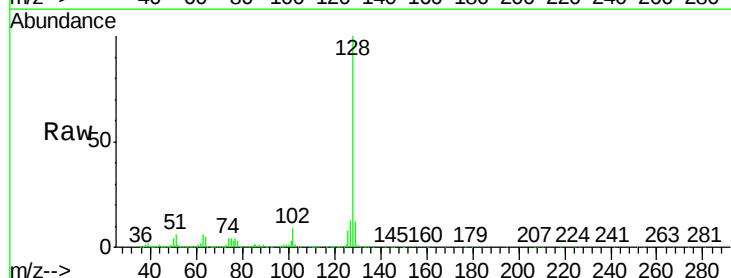
Tgt Ion: 128 Resp: 185267

Ion Ratio Lower Upper

128 100

127 13.0 10.1 15.1

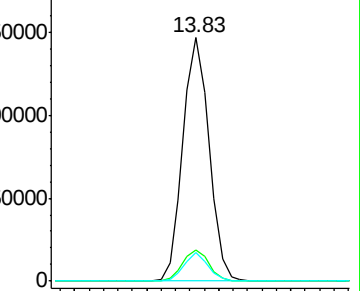
129 11.1 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): VX006951.D (-2069) (-)

Ion 127.00 (126.70 to 127.70): VX006951.D (-2069) (-)

Ion 129.00 (128.70 to 129.70): VX006951.D (-2069) (-)



Time-->

