

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010719\
 Data File : VX006933.D
 Acq On : 07 Jan 2019 14:08
 Operator : JC/MD
 Sample : PB116189ZHE#03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 08 06:33:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	632023	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	963645	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	916874	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	443026	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	329434	48.36	ug/l	0.00
Spiked Amount			Recovery	=	96.72%	
35) Dibromofluoromethane	5.50	113	300042	49.24	ug/l	0.00
Spiked Amount			Recovery	=	98.48%	
50) Toluene-d8	8.71	98	1178889	51.31	ug/l	0.00
Spiked Amount			Recovery	=	102.62%	
62) 4-Bromofluorobenzene	11.13	95	418960	49.79	ug/l	0.00
Spiked Amount			Recovery	=	99.58%	

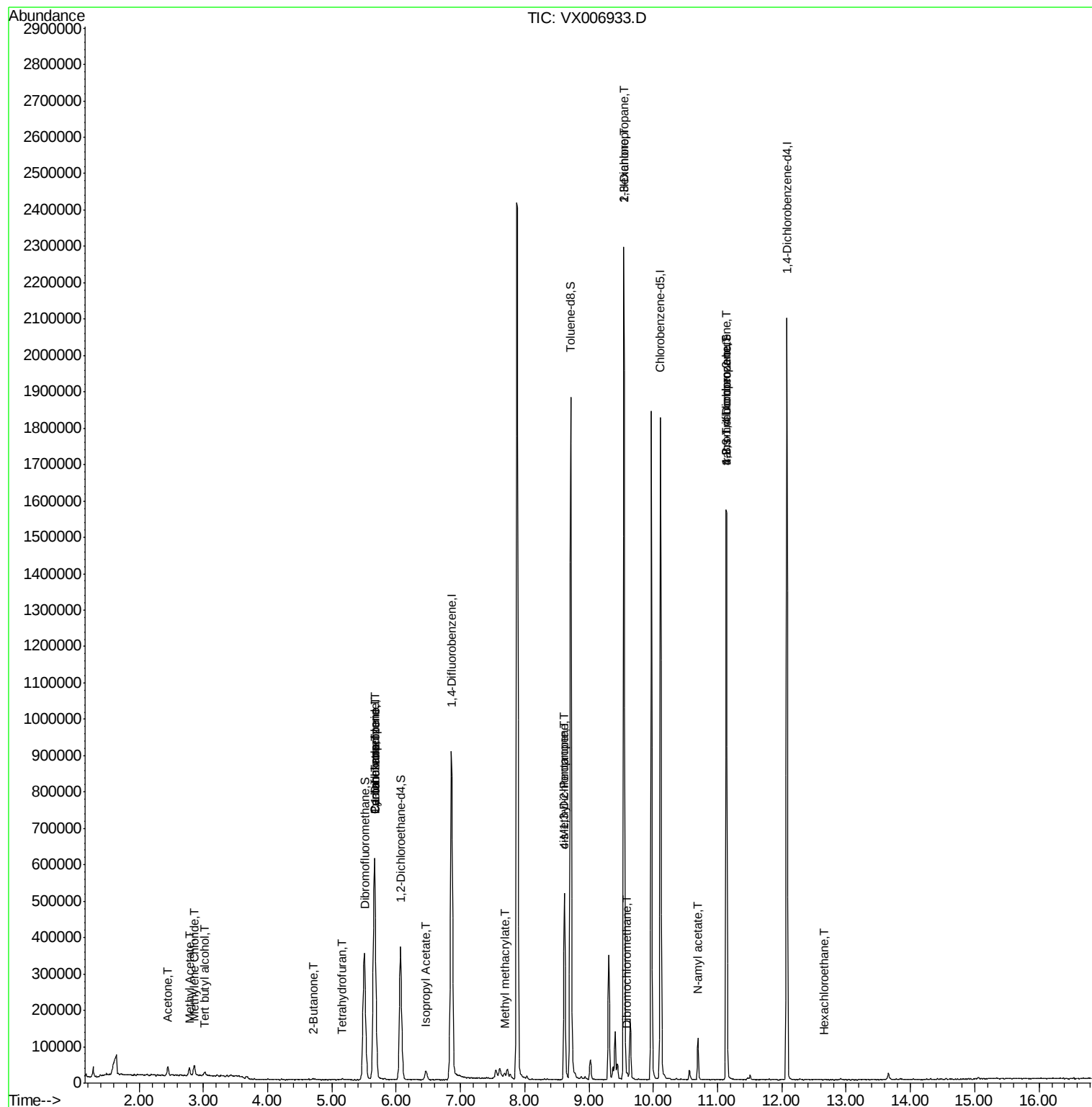
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1964	Below Cal	#	75
11) Tert butyl alcohol	3.03	59	5380	3.539	ug/l #	80
16) Acetone	2.45	43	29972	9.577	ug/l	96
18) Methyl Acetate	2.78	43	27511	2.990	ug/l	97
20) Methylene Chloride	2.85	84	13997	2.163	ug/l	89
25) 2-Butanone	4.70	43	5707	1.296	ug/l	94
28) Bromochloromethane	5.03	49	114	Below Cal	#	23
29) Tetrahydrofuran	5.16	42	3717	1.282	ug/l #	54
31) Cyclohexane	5.66	56	11057	1.172	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	40377	5.059	ug/l #	48
38) Carbon Tetrachloride	5.66	117	57144	7.367	ug/l #	15
43) Isopropyl Acetate	6.46	43	33870	2.680	ug/l	99
48) Methyl methacrylate	7.69	41	16164	2.515	ug/l #	12
49) 1,4-Dioxane	7.74	88	87	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	168405	20.940	ug/l #	48
54) cis-1,3-Dichloropropene	8.62	75	85498	10.077	ug/l #	60
57) 1,3-Dichloropropane	9.54	76	19944	1.932	ug/l #	43
59) 2-Hexanone	9.54	43	256993	41.766	ug/l #	51
60) Dibromochloromethane	9.60	129	81	2.336	ug/l	90
74) N-amyl acetate	10.69	43	26573	2.449	ug/l #	53
76) 1,2,3-Trichloropropane	11.13	75	197589	23.999	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	197589	71.085	ug/l #	10
90) Hexachloroethane	12.66	117	25	3.299	ug/l	89

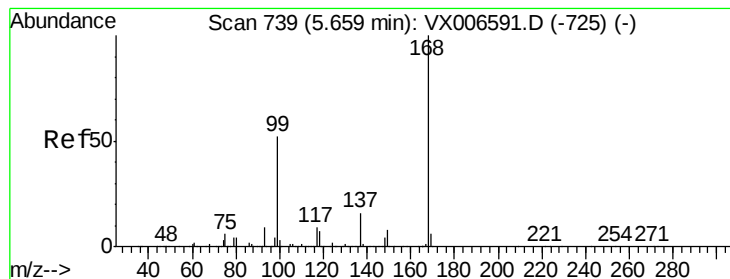
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX010719\
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ClientSampleId :

Quant Time: Jan 08 06:33:09 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006933.D

Acq: 07 Jan 2019 14:08

Instrument :

MSVOA_X

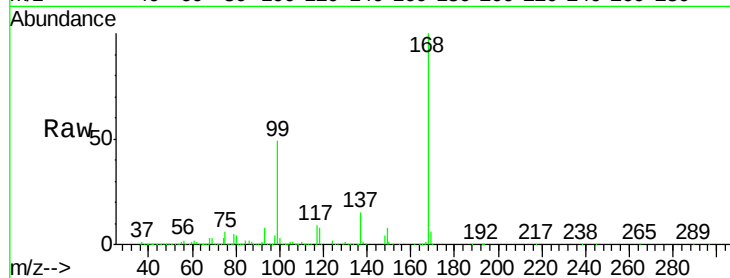
ClientSampleId :

Tot Ion:168 Resp: 632023

Ion Ratio Lower Upper

168 100

99 48.5 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

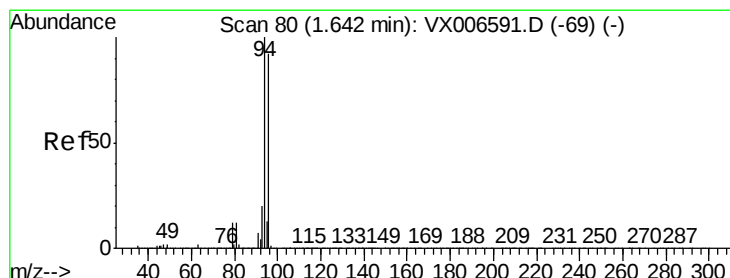
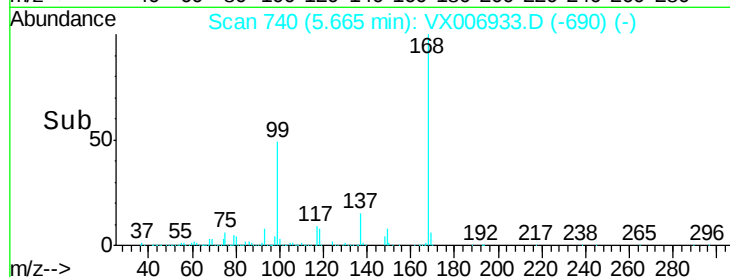
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006933.D

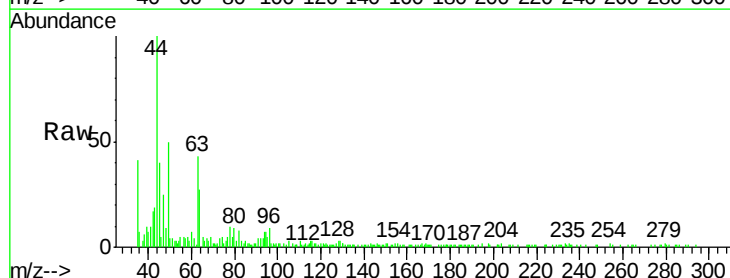
Acq: 07 Jan 2019 14:08

Tgt Ion: 94 Resp: 1964

Ion Ratio Lower Upper

94 100

96 68.4 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

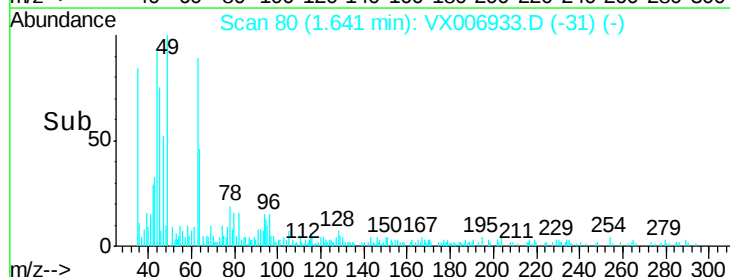
1500

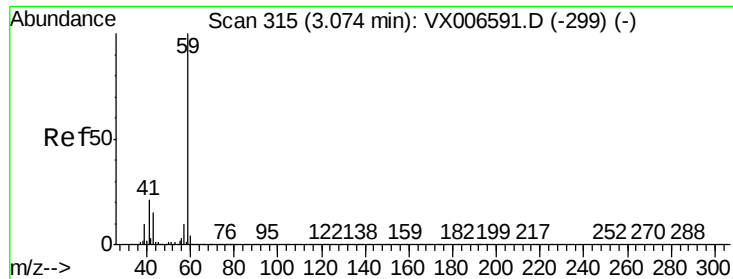
1000

500

0

Time-->

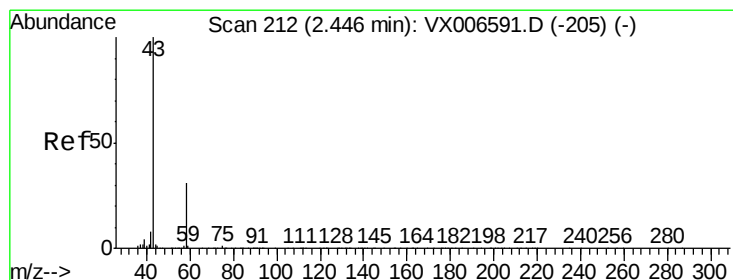
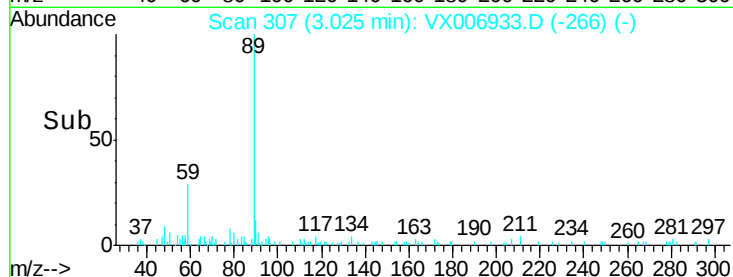
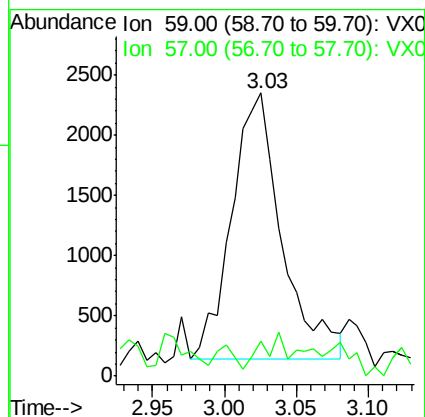
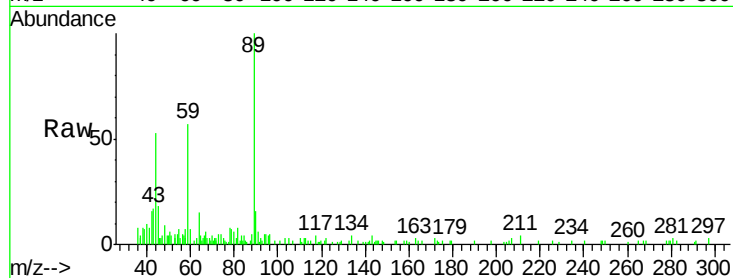




#11
Tert butyl alcohol
Concen: 3.539 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX006933.D
Acq: 07 Jan 2019 14:08

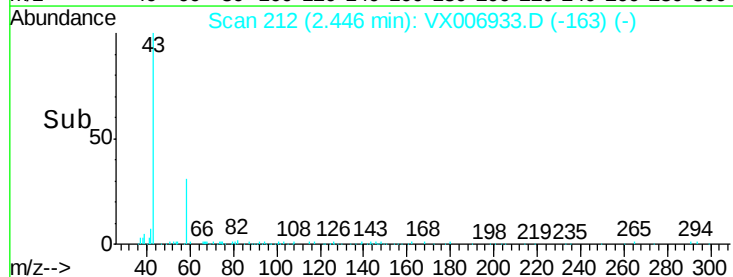
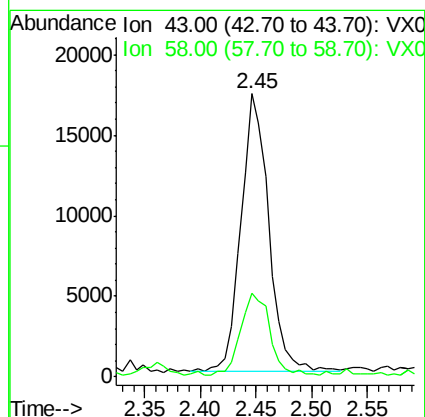
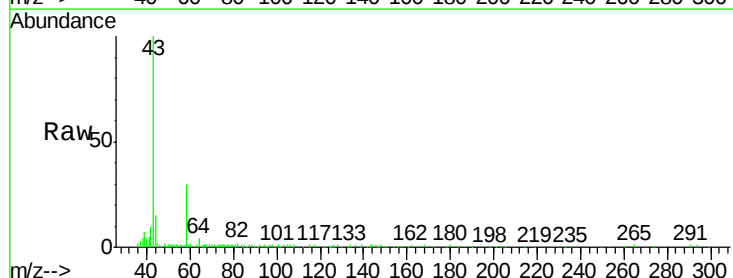
Instrument :
MSVOA_X
ClientSampled :

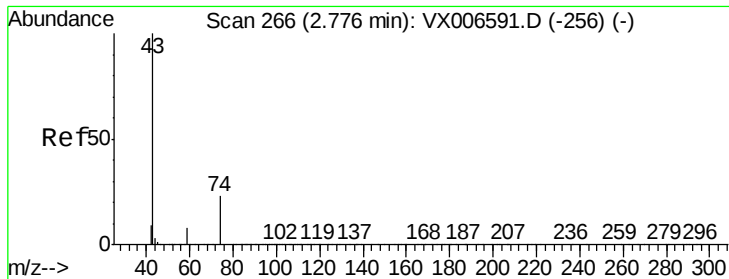
Tot Ion: 59 Resp: 5380
Ion Ratio Lower Upper
59 100
57 3.0 8.5 12.7#



#16
Acetone
Concen: 9.577 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006933.D
Acq: 07 Jan 2019 14:08

Tgt Ion: 43 Resp: 29972
Ion Ratio Lower Upper
43 100
58 29.4 25.0 37.6

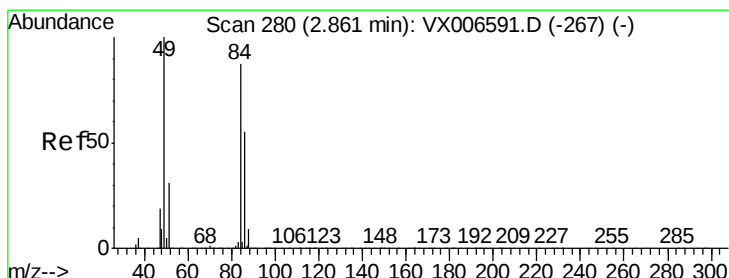
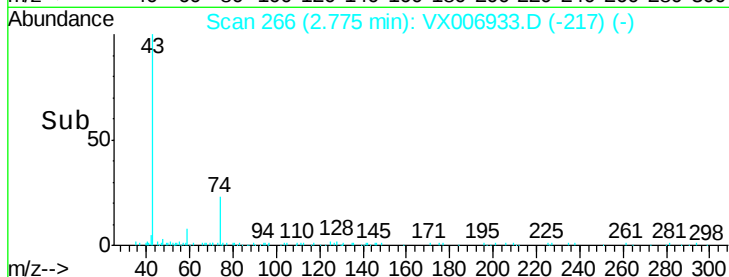
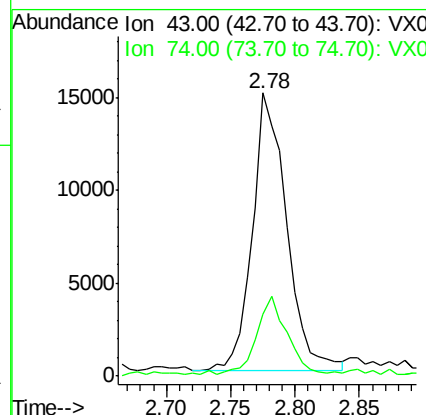
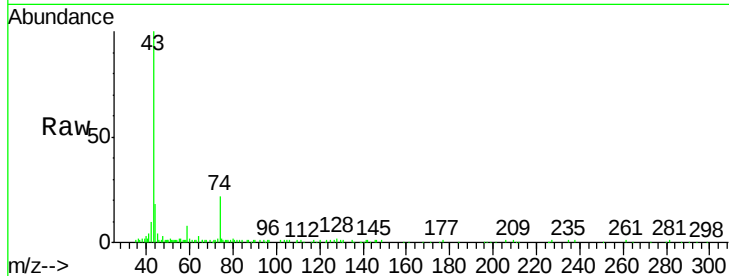




#18
Methvl Acetate
Concen: 2.990 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX006933.D
Acq: 07 Jan 2019 14:08

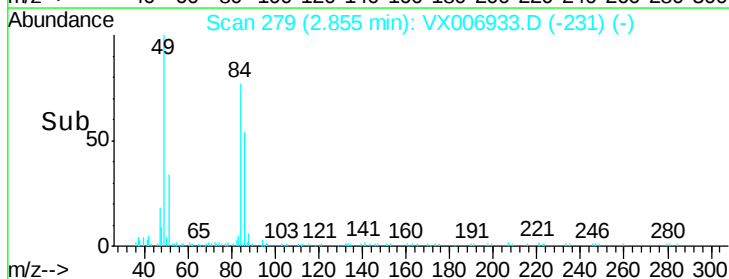
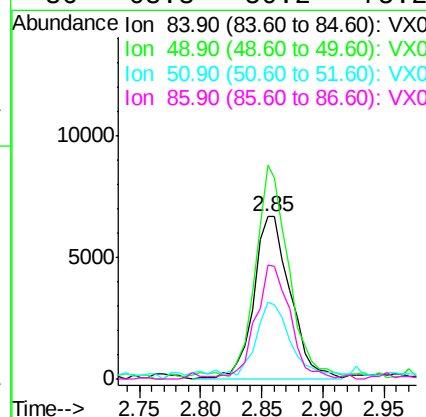
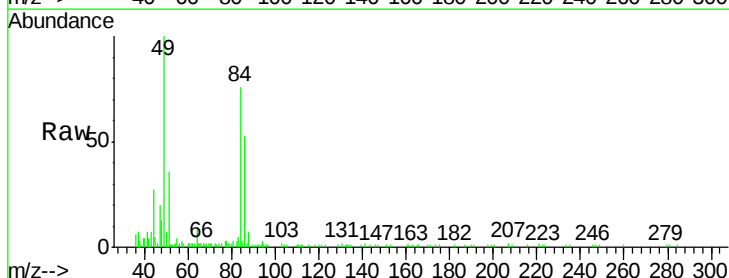
Instrument :
MSVOA_X
ClientSampleId :

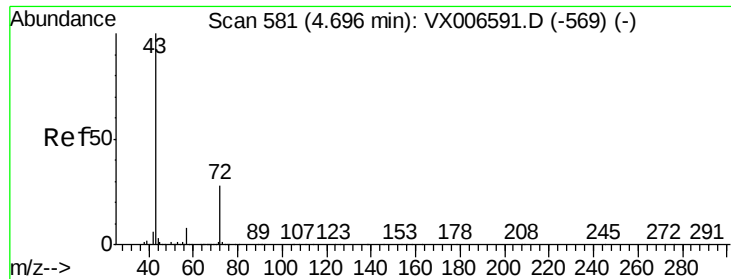
Tot Ion: 43 Resp: 27511
Ion Ratio Lower Upper
43 100
74 24.8 18.6 28.0



#20
Methylene Chloride
Concen: 2.163 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX006933.D
Acq: 07 Jan 2019 14:08

Tgt Ion: 84 Resp: 13997
Ion Ratio Lower Upper
84 100
49 129.3 91.8 137.6
51 40.6 28.5 42.7
86 68.3 50.2 75.2





#25

2-Butanone

Concen: 1.296 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX006933.D

Acq: 07 Jan 2019 14:08

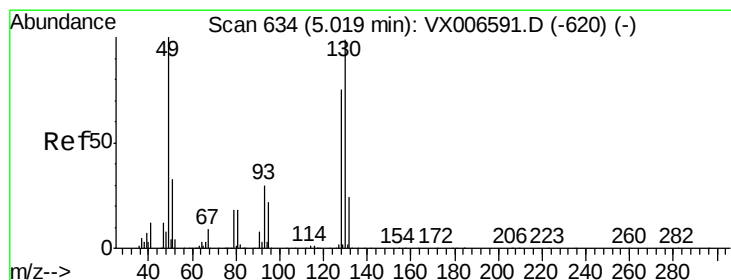
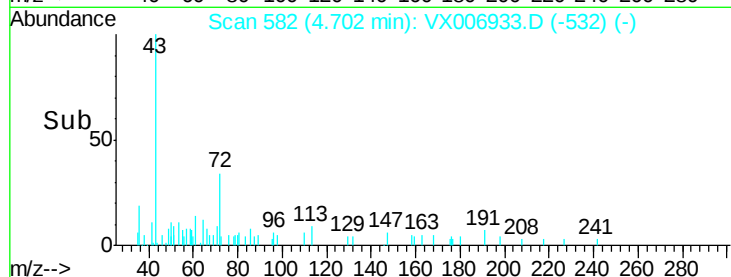
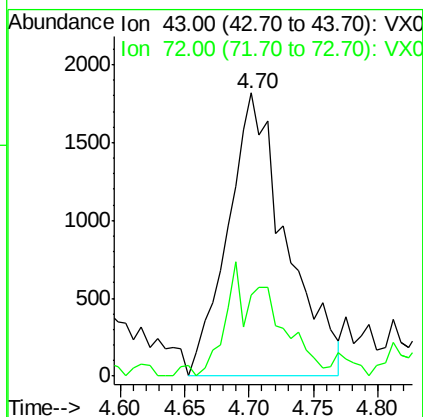
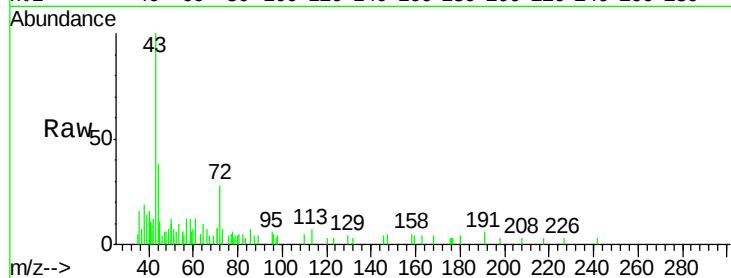
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 5707

Ion Ratio Lower Upper

43 100

72 24.6 22.4 33.6



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX006933.D

Acq: 07 Jan 2019 14:08

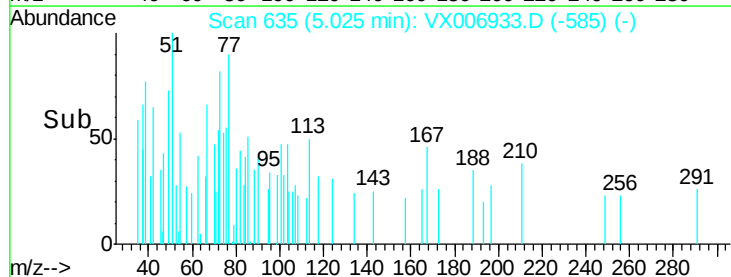
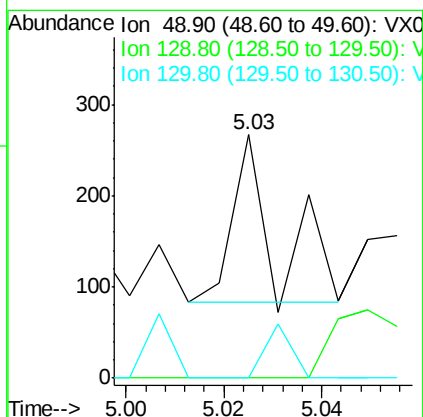
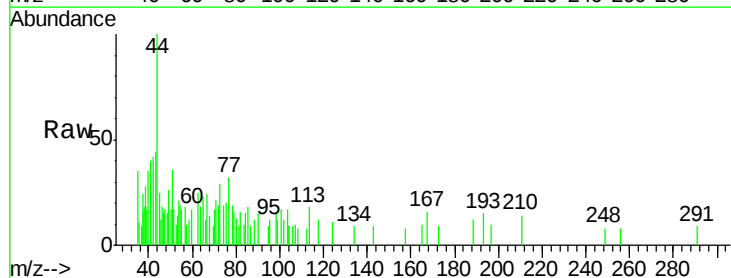
Tgt Ion: 49 Resp: 114

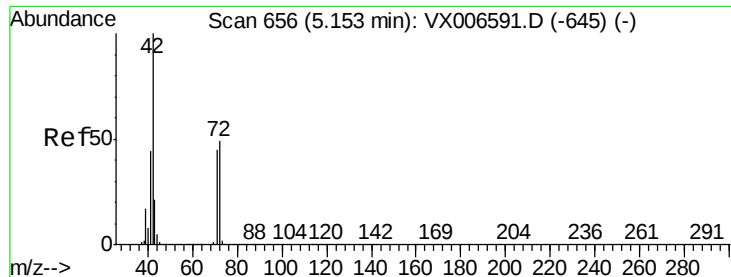
Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

130 19.3 77.7 116.5#





#29

Tetrahydrofuran

Concen: 1.282 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX006933.D

Acq: 07 Jan 2019 14:08

Instrument :

MSVOA_X

ClientSampleId :

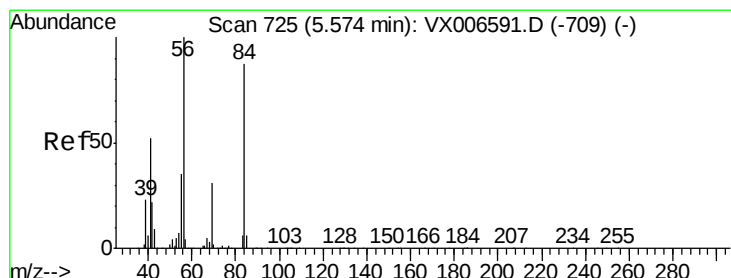
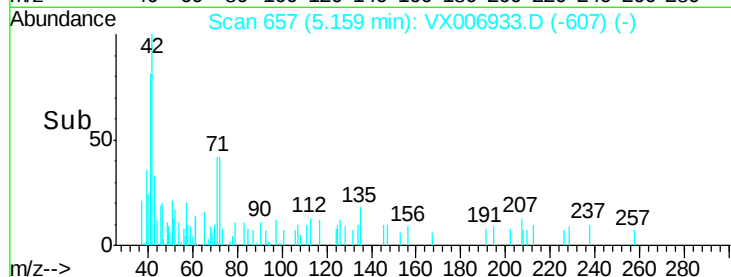
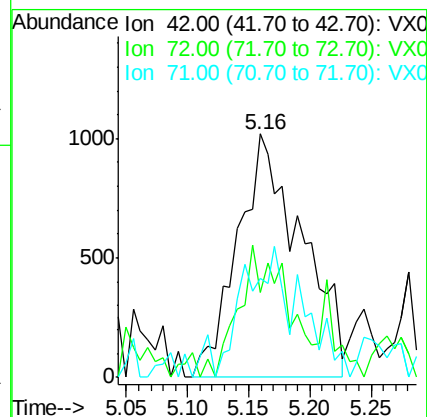
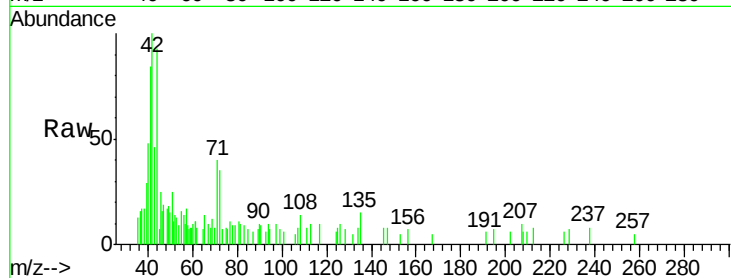
Tot Ion: 42 Resp: 3717

Ion Ratio Lower Upper

42 100

72 19.0 38.9 58.3#

71 13.6 36.2 54.4#



#31

Cyclohexane

Concen: 1.172 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX006933.D

Acq: 07 Jan 2019 14:08

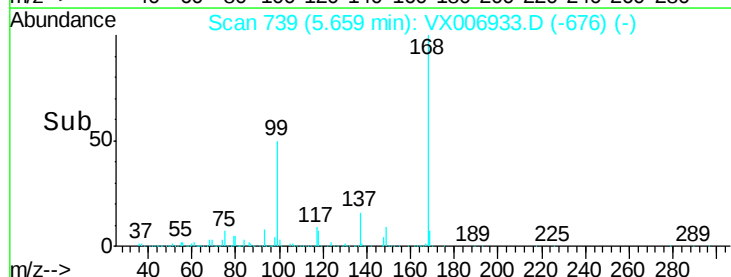
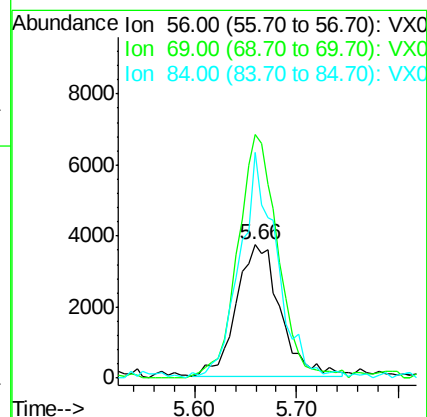
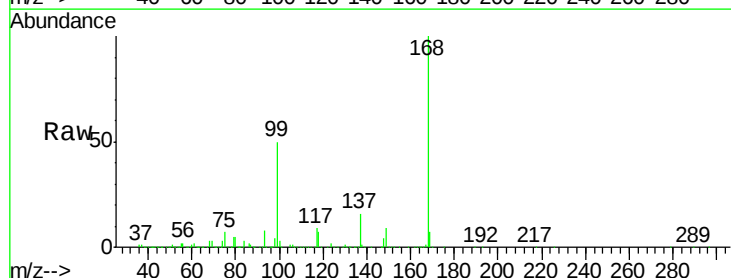
Tgt Ion: 56 Resp: 11057

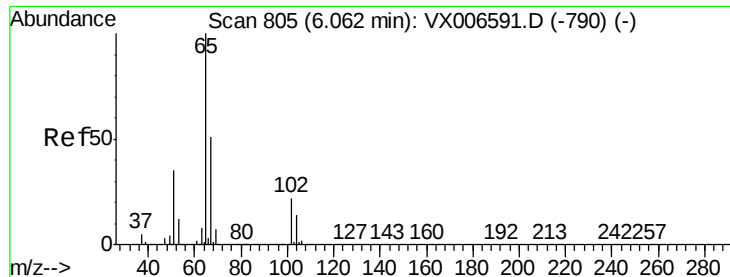
Ion Ratio Lower Upper

56 100

69 183.5 24.4 36.6#

84 168.2 70.0 105.0#





#33

1,2-Dichloroethane-d4

Concen: 48.363 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006933.D

Acq: 07 Jan 2019 14:08

Instrument :

MSVOA_X

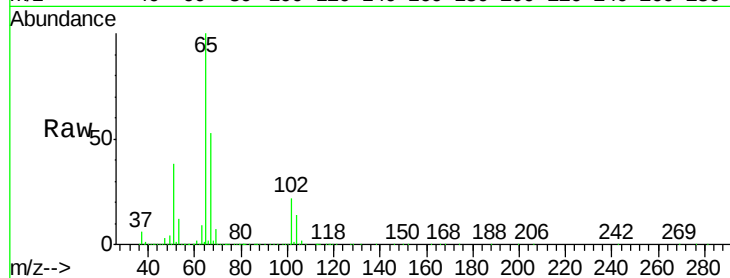
ClientSampled :

Tot Ion: 65 Resp: 329434

Ion Ratio Lower Upper

65 100

67 52.9 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

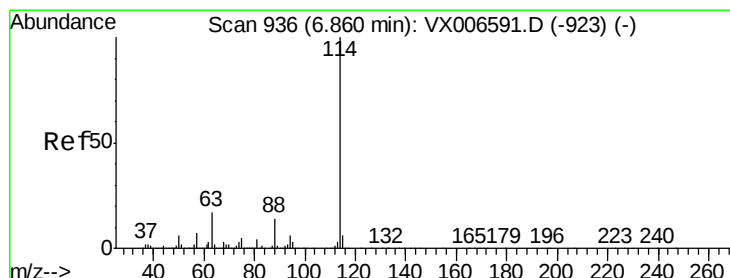
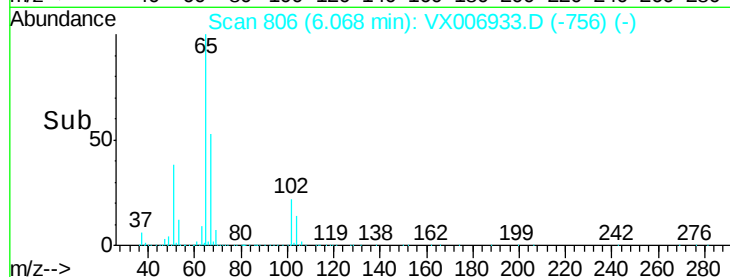
150000

100000

50000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006933.D

Acq: 07 Jan 2019 14:08

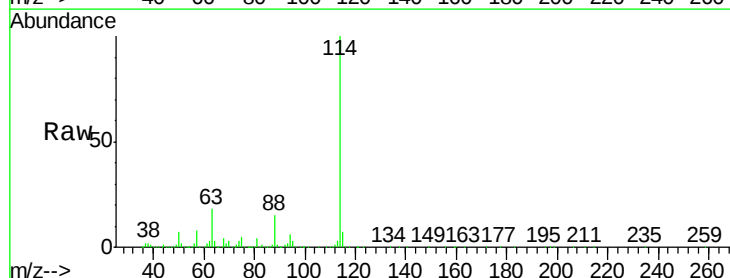
Tgt Ion: 114 Resp: 963645

Ion Ratio Lower Upper

114 100

63 18.0 0.0 34.8

88 14.7 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

6.86

500000

400000

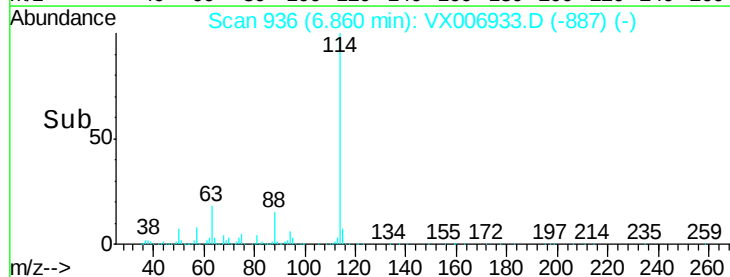
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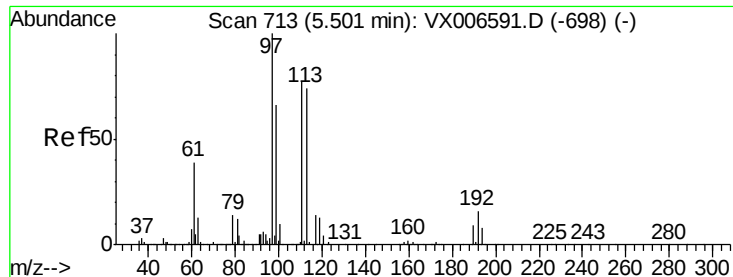
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 49.236 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006933.D

Acq: 07 Jan 2019 14:08

Instrument :
MSVOA_X
ClientSampled :

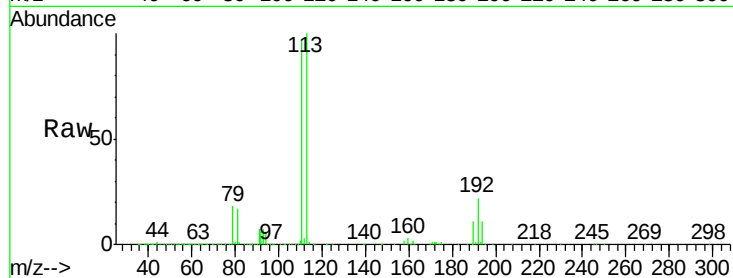
Tot Ion:113 Resp: 300042

Ion Ratio Lower Upper

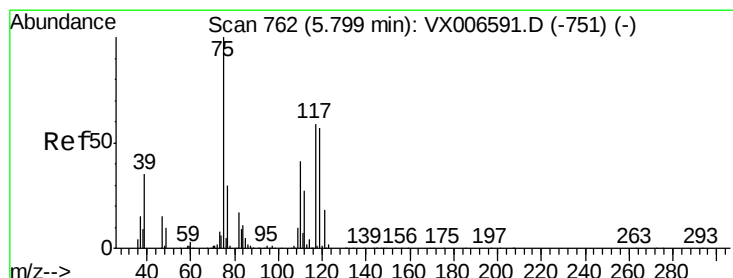
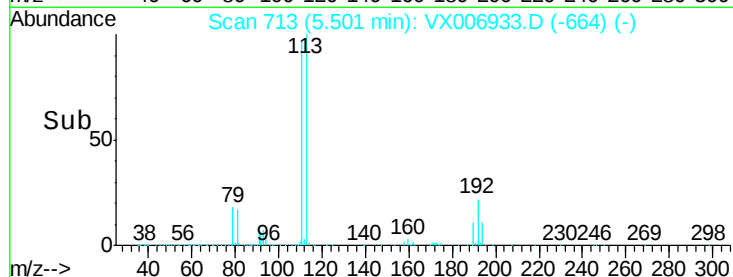
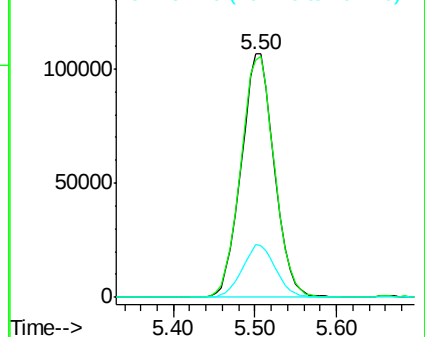
113 100

111 100.9 81.6 122.4

192 21.8 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: 5.059 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006933.D

Acq: 07 Jan 2019 14:08

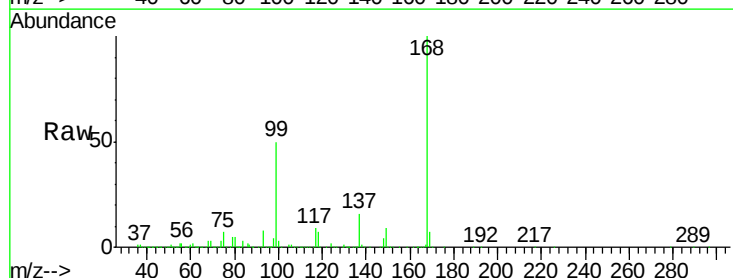
Tgt Ion: 75 Resp: 40377

Ion Ratio Lower Upper

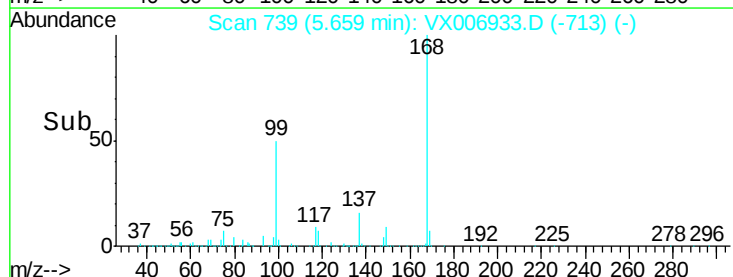
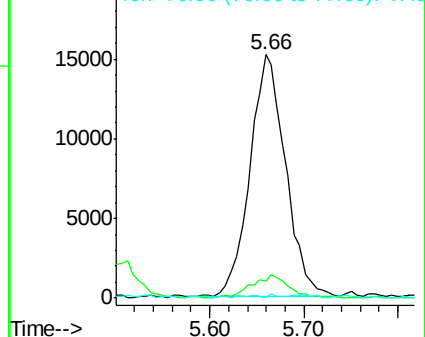
75 100

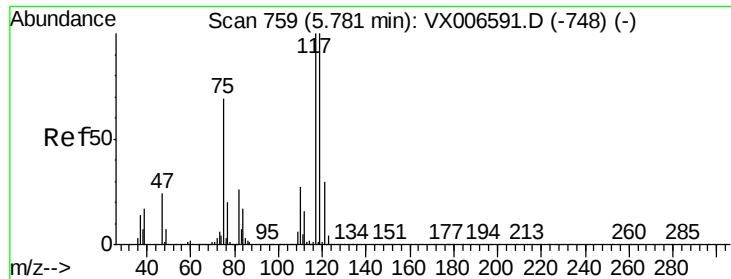
110 10.2 20.2 60.5#

77 0.4 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: 7.367 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006933.D

Acq: 07 Jan 2019 14:08

Instrument :

MSVOA_X

ClientSampleId :

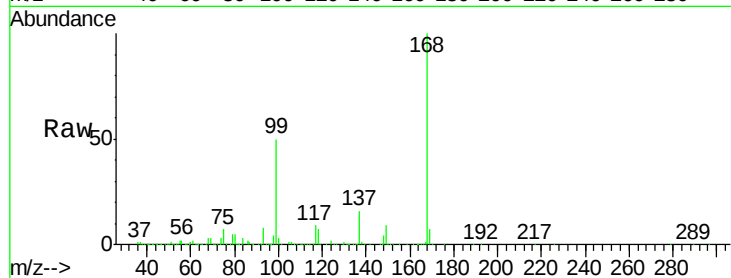
Tot Ion:117 Resp: 57144

Ion Ratio Lower Upper

117 100

119 5.4 79.4 119.2#

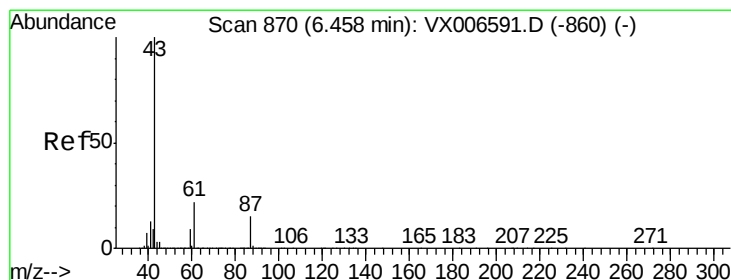
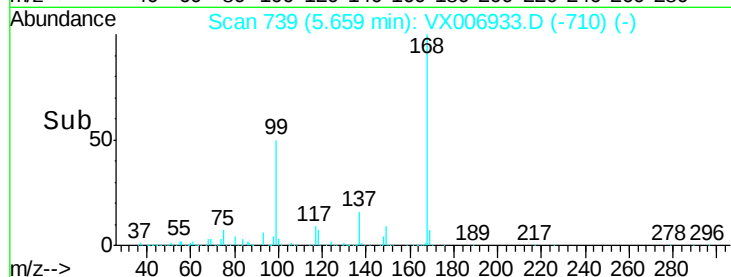
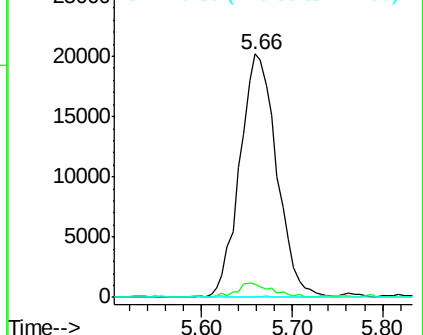
121 0.0 24.0 36.0#



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: 2.680 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.00 min

Lab File: VX006933.D

Acq: 07 Jan 2019 14:08

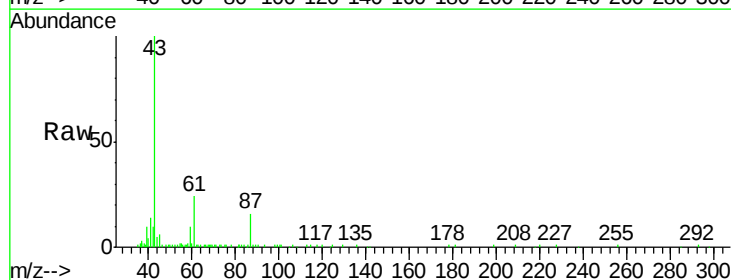
Tgt Ion: 43 Resp: 33870

Ion Ratio Lower Upper

43 100

61 21.8 16.8 25.2

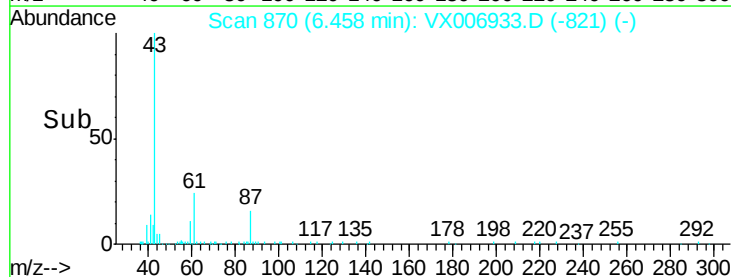
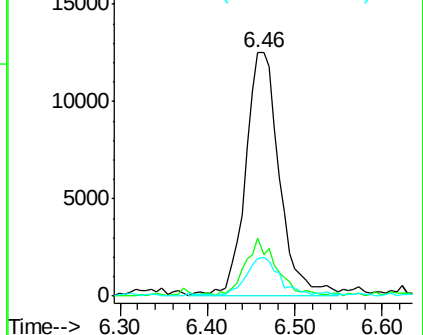
87 15.6 12.4 18.6

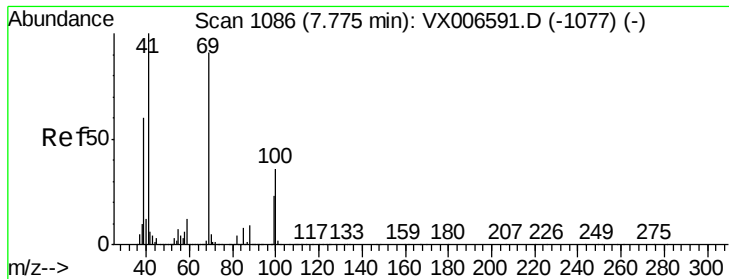


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 2.515 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX006933.D

Acq: 07 Jan 2019 14:08

Instrument :

MSVOA_X

ClientSampleId :

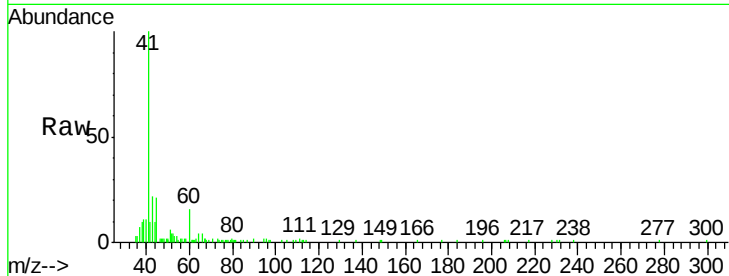
Tot Ion: 41 Resp: 16164

Ion Ratio Lower Upper

41 100

69 0.6 72.4 108.6#

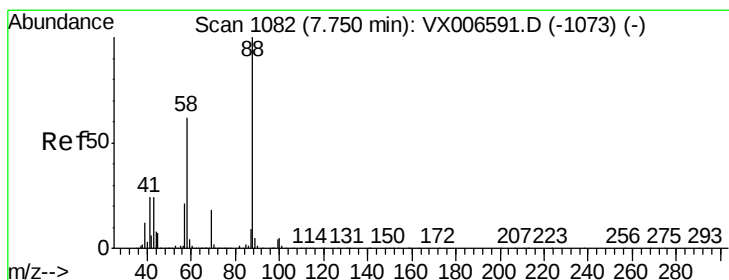
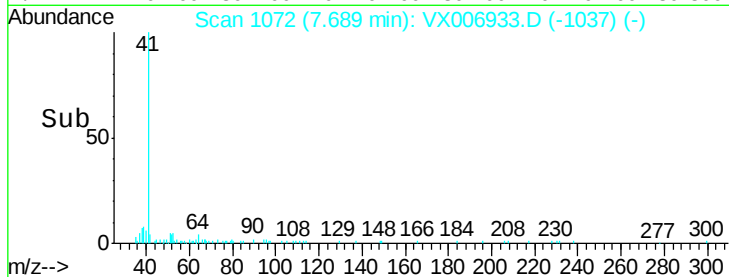
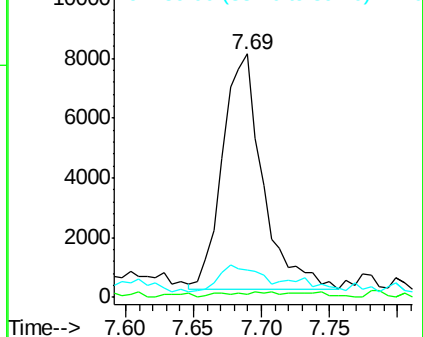
39 0.0 45.8 68.8#



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: VX006933.D

Acq: 07 Jan 2019 14:08

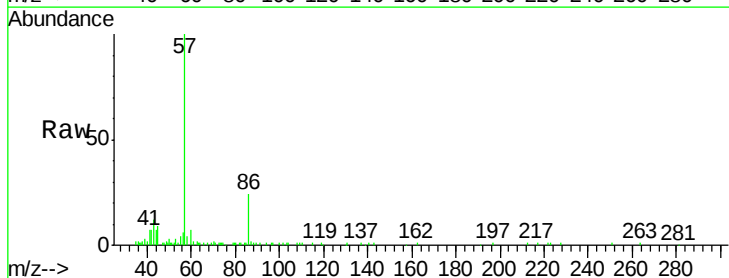
Tgt Ion: 88 Resp: 87

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

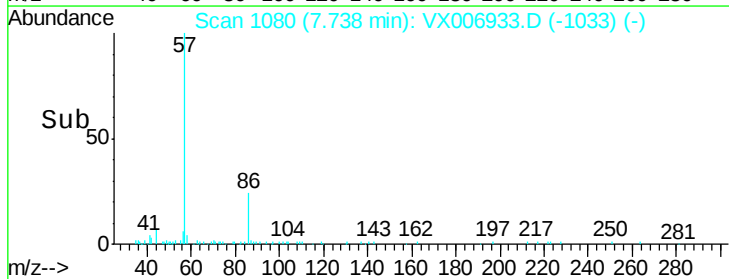
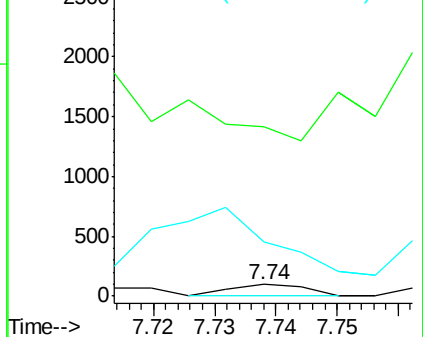
58 1118.4 51.0 76.4#

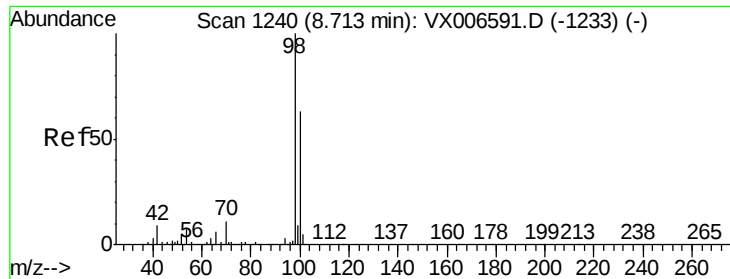


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

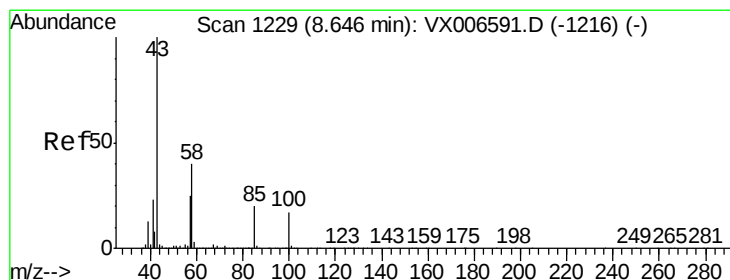
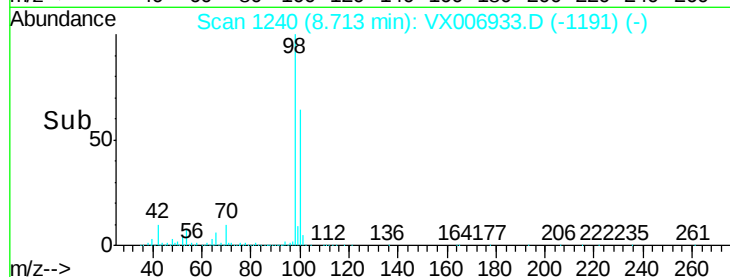
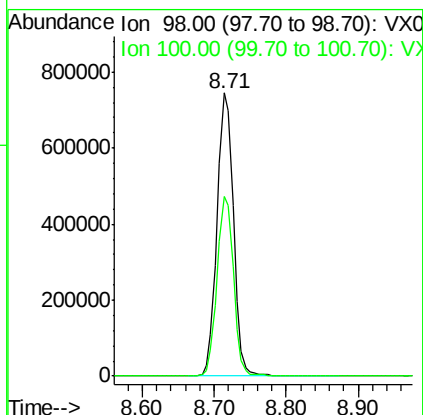
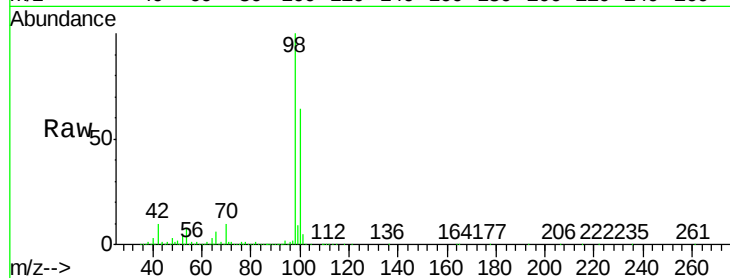




#50
Toluene-d8
Concen: 51.313 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006933.D
Acq: 07 Jan 2019 14:08

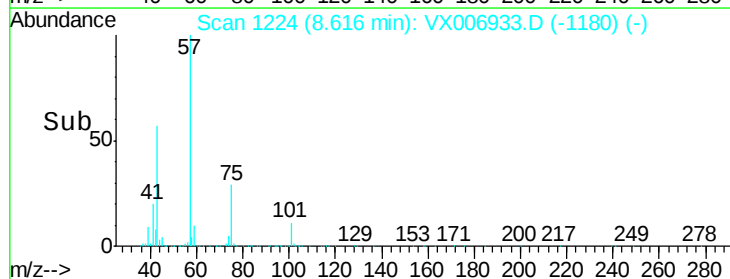
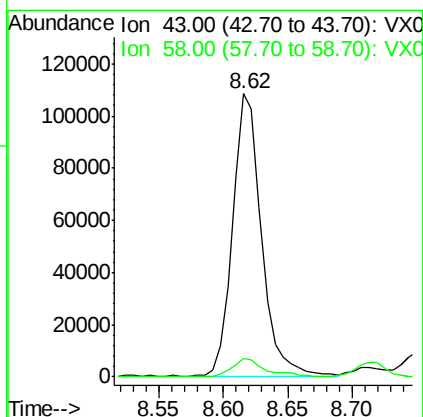
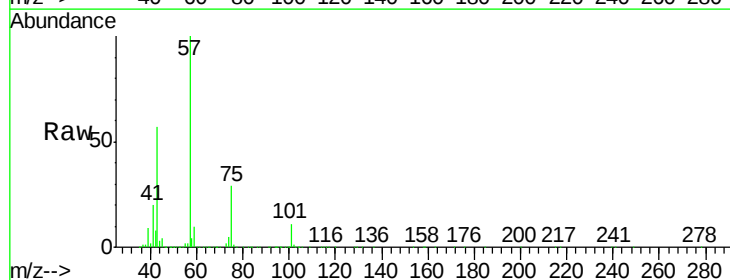
Instrument :
MSVOA_X
ClientSampleId :

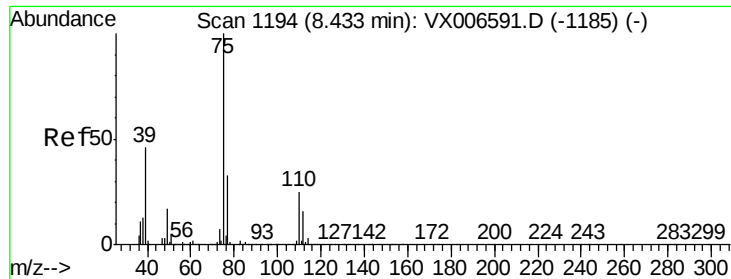
Tot Ion: 98 Resp: 1178889
Ion Ratio Lower Upper
98 100
100 63.3 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 20.940 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.03 min
Lab File: VX006933.D
Acq: 07 Jan 2019 14:08

Tgt Ion: 43 Resp: 168405
Ion Ratio Lower Upper
43 100
58 7.8 31.8 47.6#

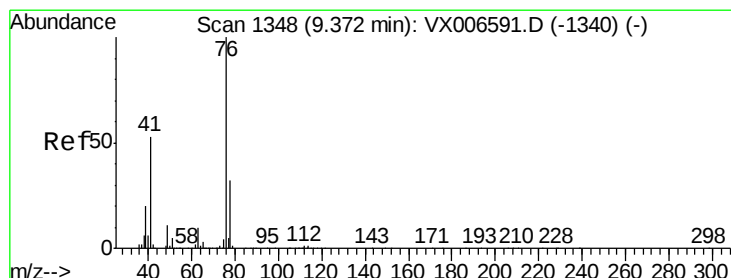
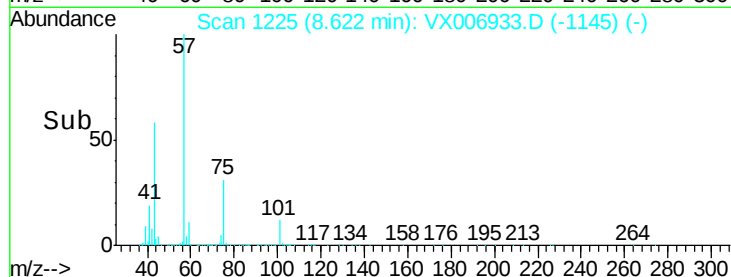
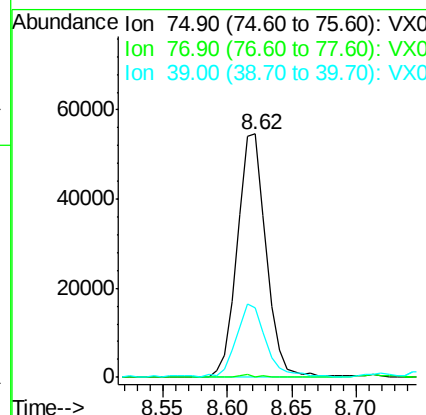
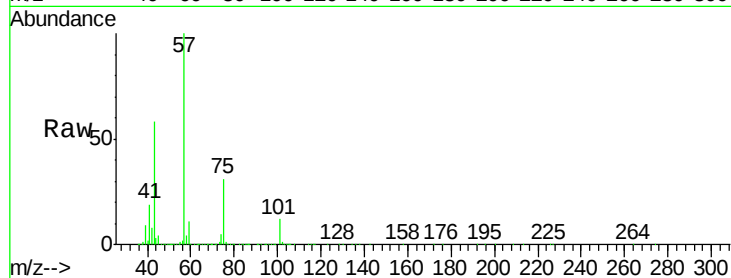




#54
 cis-1,3-Dichloropropene
 Concen: 10.077 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.19 min
 Lab File: VX006933.D
 Acq: 07 Jan 2019 14:08

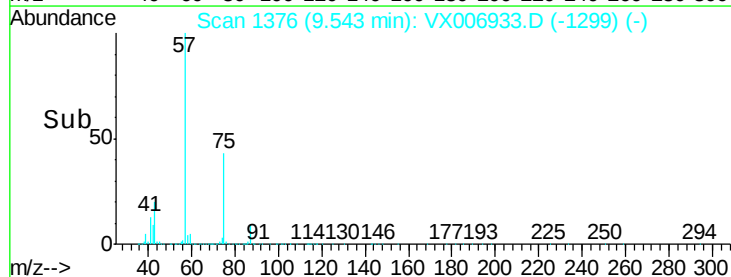
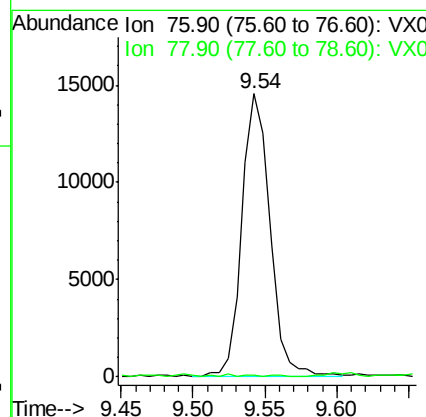
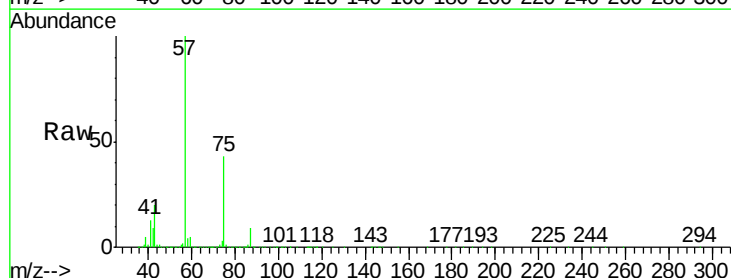
Instrument :
 MSVOA_X
 ClientSampleId :

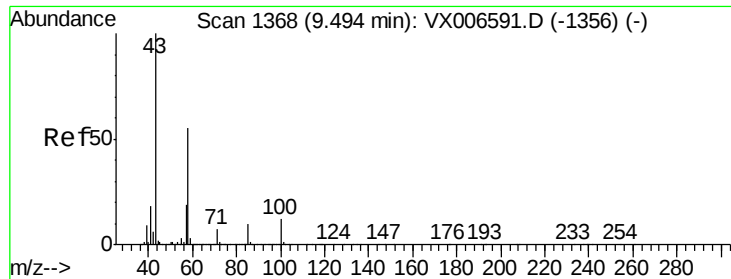
Tot Ion: 75 Resp: 85498
 Ion Ratio Lower Upper
 75 100
 77 0.4 26.2 39.2#
 39 28.0 36.7 55.1#



#57
 1,3-Dichloropropane
 Concen: 1.932 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.17 min
 Lab File: VX006933.D
 Acq: 07 Jan 2019 14:08

Tgt Ion: 76 Resp: 19944
 Ion Ratio Lower Upper
 76 100
 78 0.7 26.0 39.0#

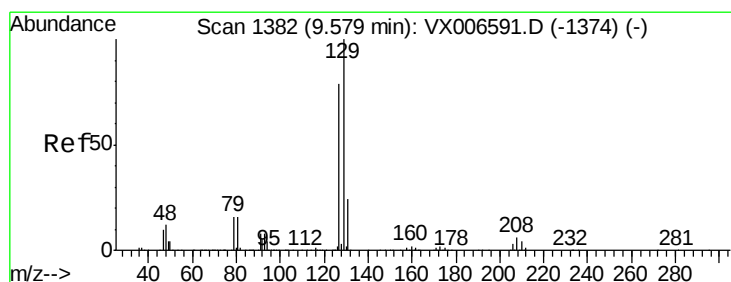
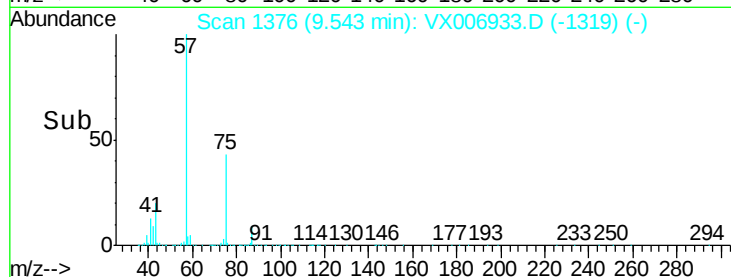
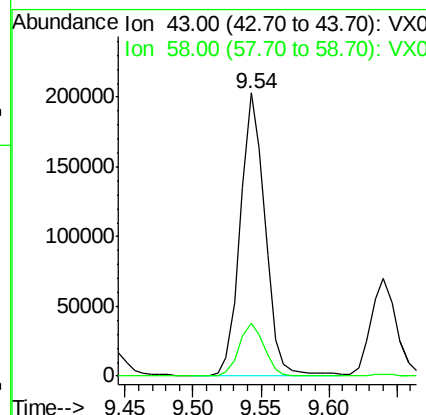
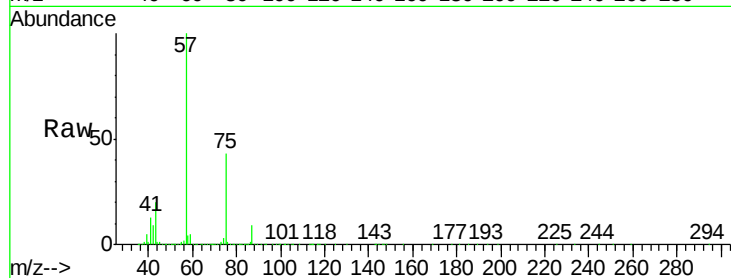




#59
2-Hexanone
Concen: 41.766 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX006933.D
Acq: 07 Jan 2019 14:08

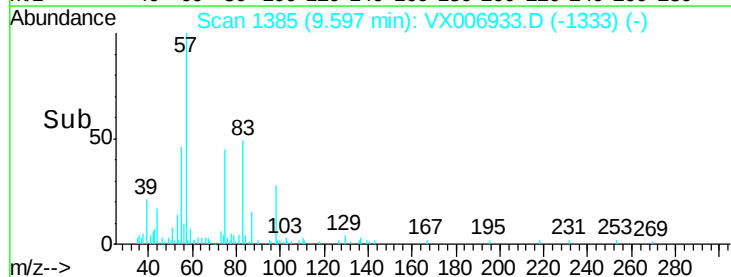
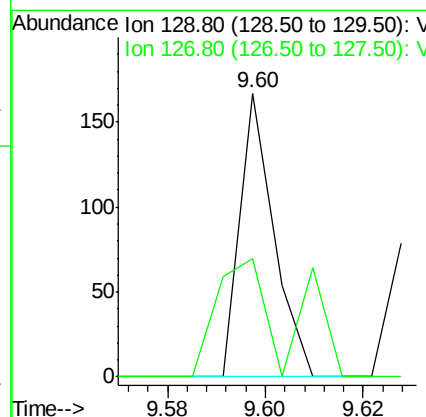
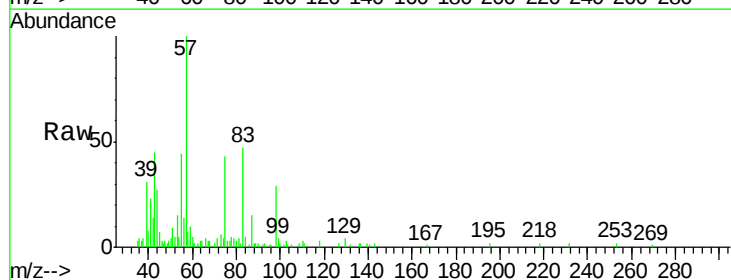
Instrument :
MSVOA_X
ClientSampleId :

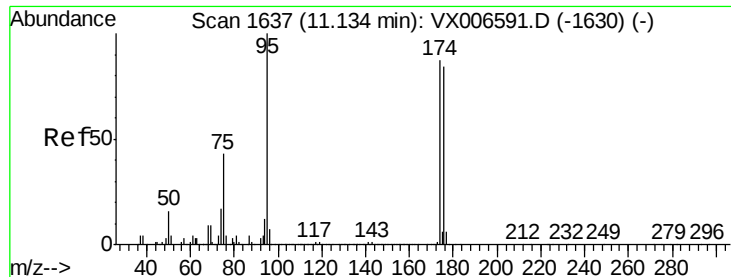
Tot Ion: 43 Resp: 256993
Ion Ratio Lower Upper
43 100
58 19.6 27.7 83.1#



#60
Dibromochloromethane
Concen: 2.336 ug/l
RT: 9.60 min Scan# 1385
Delta R.T. 0.02 min
Lab File: VX006933.D
Acq: 07 Jan 2019 14:08

Tgt Ion:129 Resp: 81
Ion Ratio Lower Upper
129 100
127 87.7 39.3 117.8





#62

4-Bromofluorobenzene

Concen: 49.792 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006933.D

Acq: 07 Jan 2019 14:08

Instrument :

MSVOA_X

ClientSampleId :

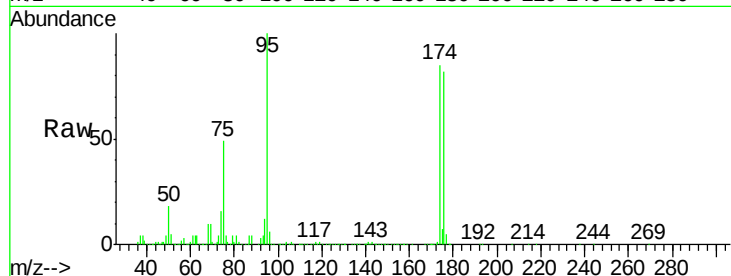
Tot Ion: 95 Resp: 418960

Ion Ratio Lower Upper

95 100

174 92.4 0.0 182.2

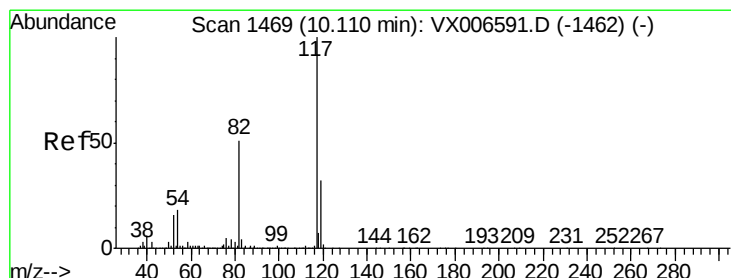
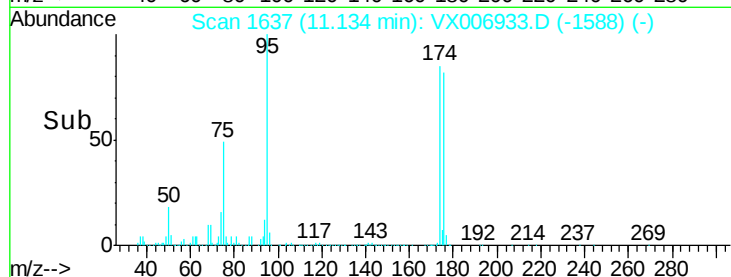
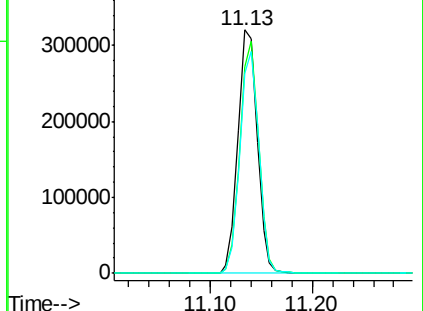
176 89.6 0.0 178.8



Abundance Ion 94.90 (94.60 to 95.60): VX006933.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX006933.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX006933.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX006933.D

Acq: 07 Jan 2019 14:08

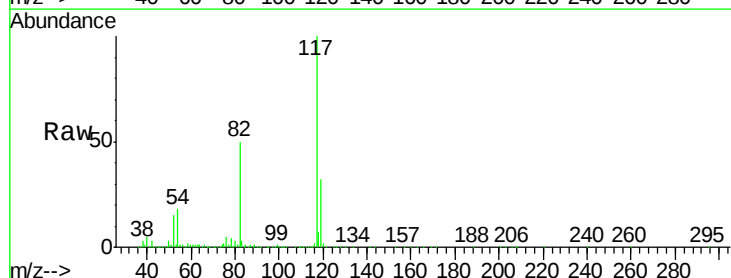
Tgt Ion: 117 Resp: 916874

Ion Ratio Lower Upper

117 100

82 49.7 41.0 61.6

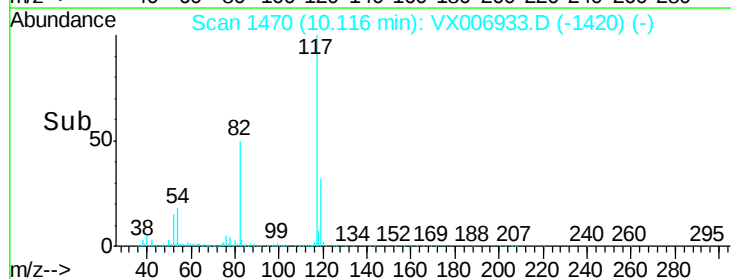
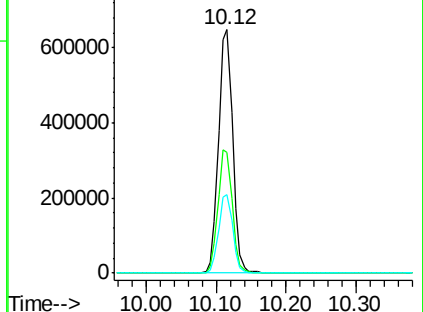
119 32.2 25.4 38.0

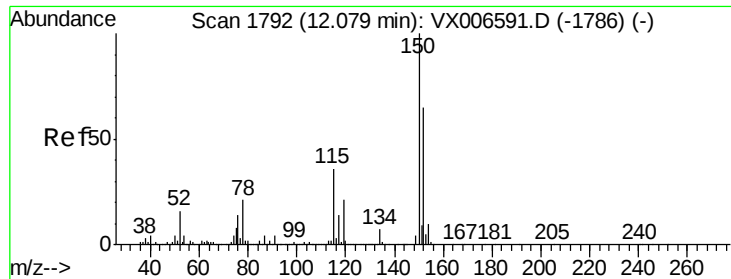


Abundance Ion 116.90 (116.60 to 117.60): VX006933.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX006933.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX006933.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006933.D

Acq: 07 Jan 2019 14:08

Instrument :

MSVOA_X

ClientSampleId :

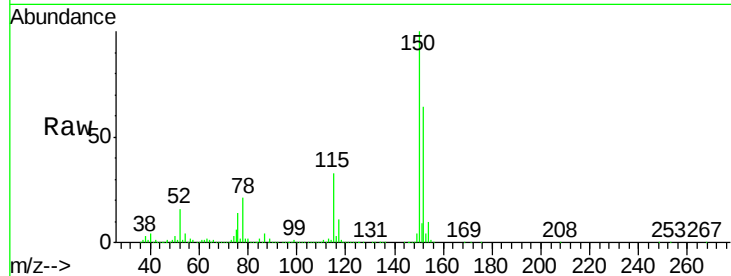
Tot Ion:152 Resp: 443026

Ion Ratio Lower Upper

152 100

115 54.6 39.1 117.2

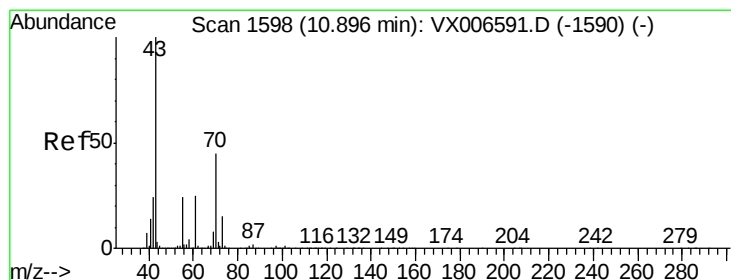
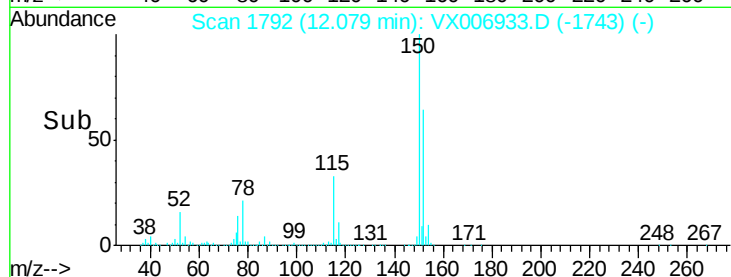
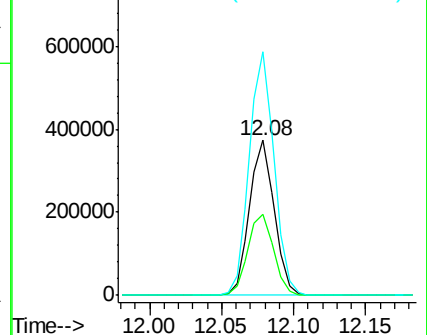
150 157.3 0.0 344.8



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



#74

N-ethyl acetate

Concen: 2.449 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX006933.D

Acq: 07 Jan 2019 14:08

Tgt Ion: 43 Resp: 26573

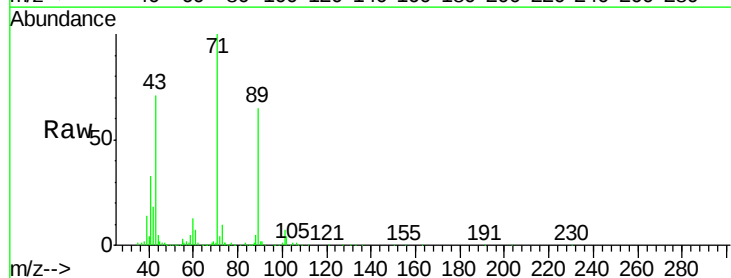
Ion Ratio Lower Upper

43 100

70 3.6 35.8 53.8#

55 6.5 19.4 29.0#

61 10.0 20.1 30.1#

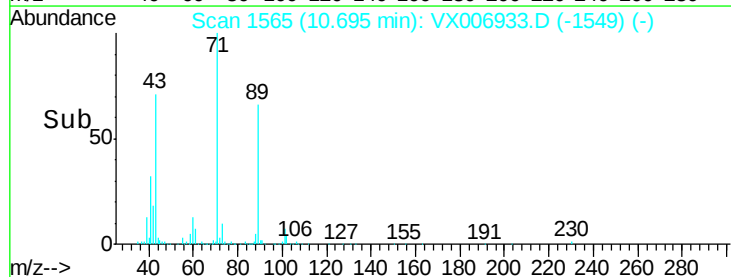
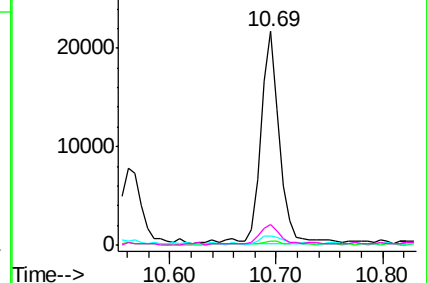


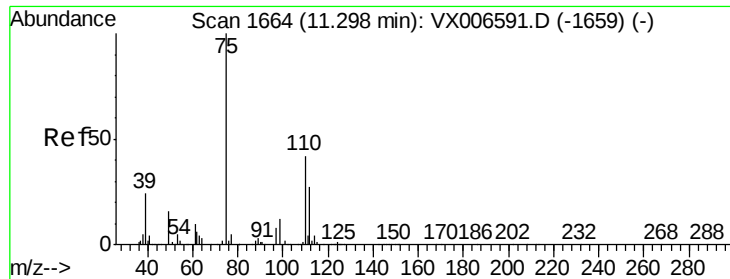
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

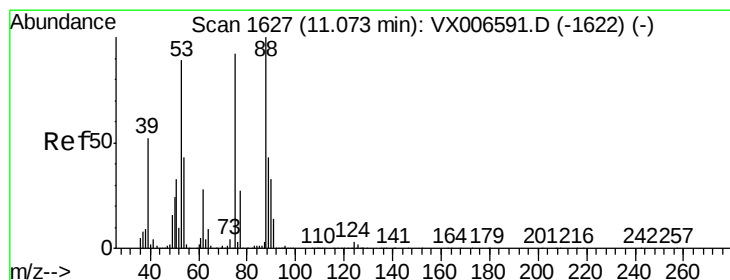
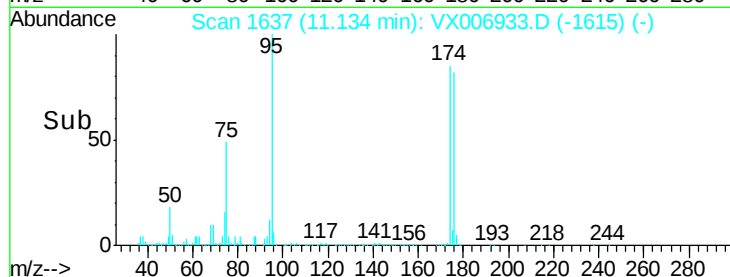
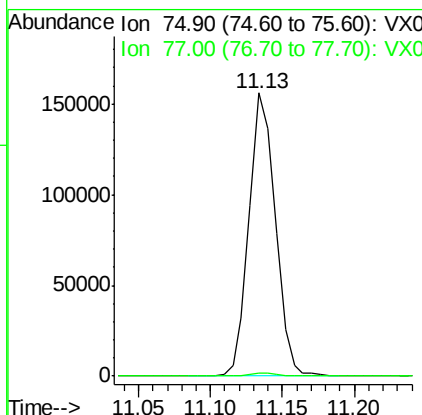
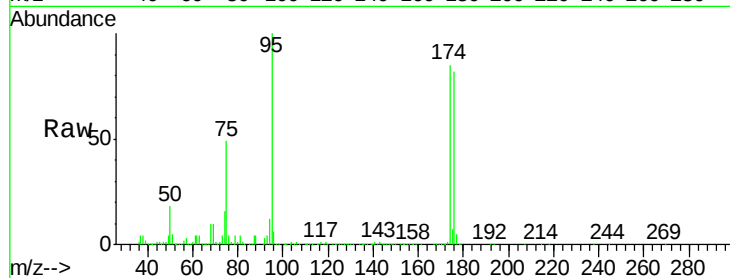




#76
 1,2,3-Trichloropropane
 Concen: 23.999 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX006933.D
 Acq: 07 Jan 2019 14:08

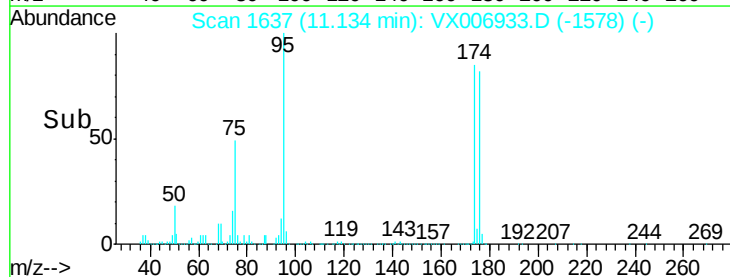
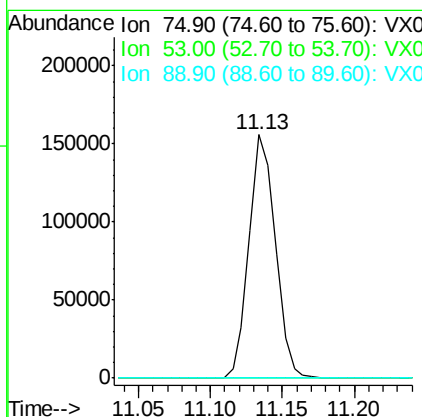
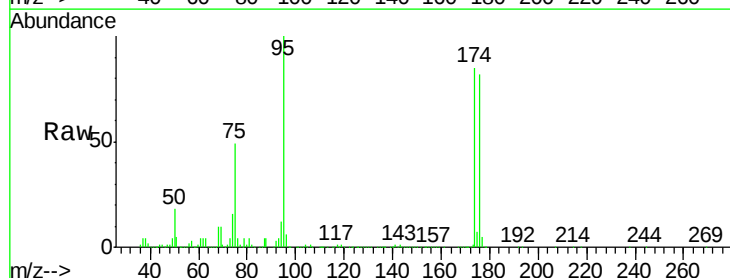
Instrument :
 MSVOA_X
 ClientSampleId :

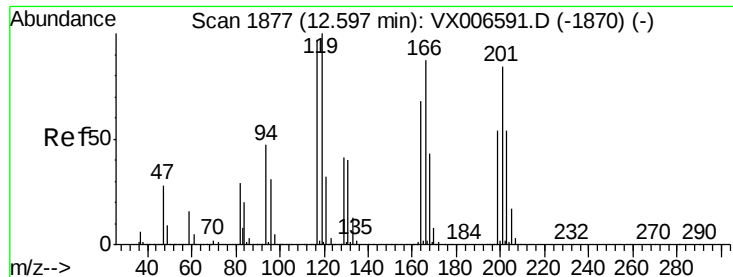
Tot Ion: 75 Resp: 197589
 Ion Ratio Lower Upper
 75 100
 77 1.4 18.5 55.5#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.085 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006933.D
 Acq: 07 Jan 2019 14:08

Tgt Ion: 75 Resp: 197589
 Ion Ratio Lower Upper
 75 100
 53 0.2 79.7 119.5#
 89 0.0 38.0 57.0#





#90

Hexachloroethane

Concen: 3.299 ug/l

RT: 12.66 min Scan# 1888

Delta R.T. 0.07 min

Lab File: VX006933.D

Acq: 07 Jan 2019 14:08

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:117 Resp: 25

Ion Ratio Lower Upper

117 100

201 96.0 42.9 128.7

