

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010919\
 Data File : VX006976.D
 Acq On : 09 Jan 2019 20:06
 Operator : JC/MD
 Sample : K1006-20
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 10 00:59:27 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	5.67	168	616872	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	949901	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	895806	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	427809	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	330528	51.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.54%	
35) Dibromofluoromethane	5.51	113	295558	48.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.18%	
50) Toluene-d8	8.71	98	1144703	51.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.82%	
62) 4-Bromofluorobenzene	11.13	95	401419	51.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.42%	

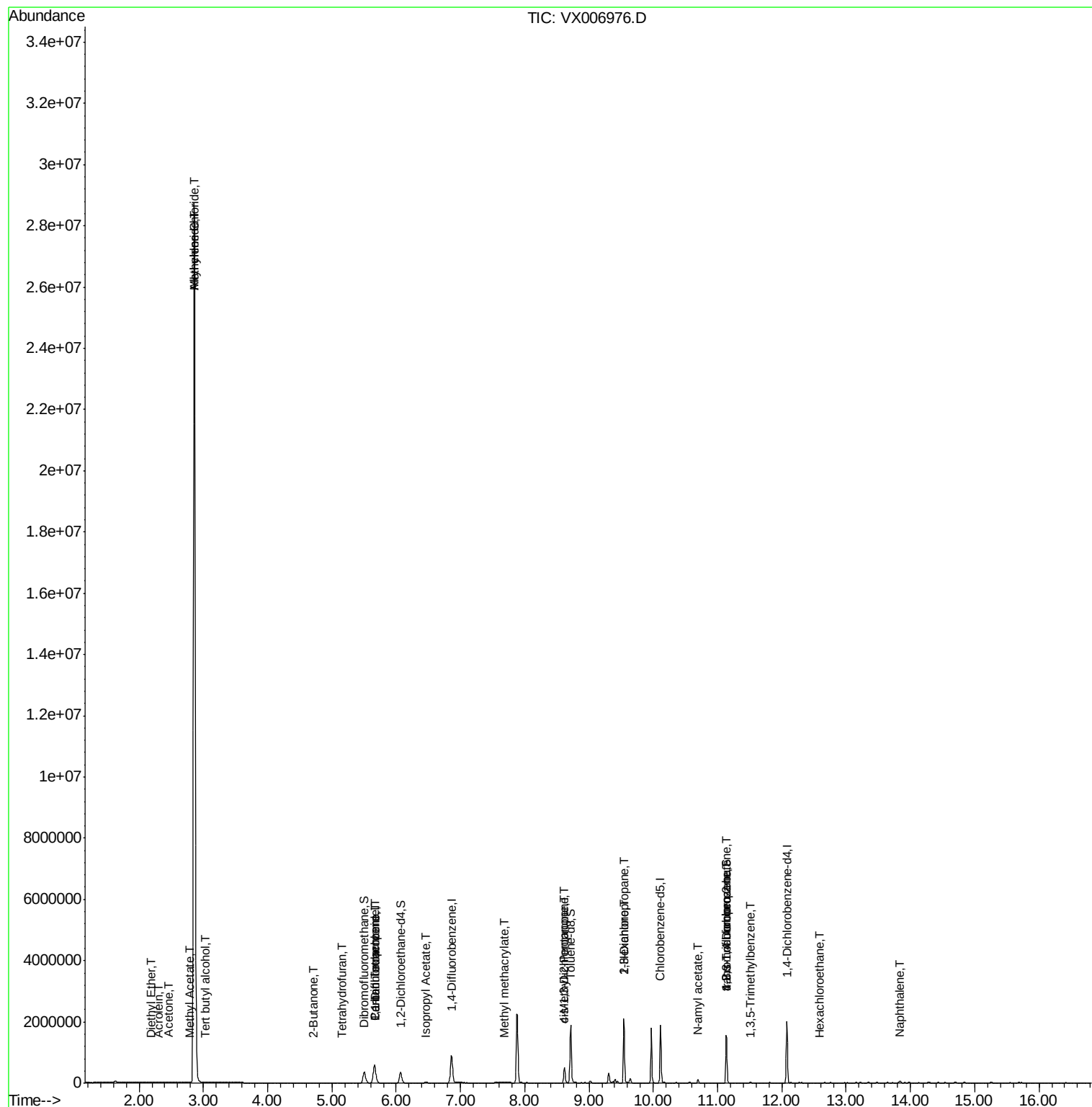
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.20	74	2916	0.715	ug/l	91
11) Tert butyl alcohol	3.03	59	5420	3.564	ug/l #	78
13) Acrolein	2.31	56	206	3.394	ug/l #	1
14) Allyl chloride	2.85	41	467454	48.109	ug/l #	26
16) Acetone	2.45	43	25586	8.028	ug/l	99
18) Methyl Acetate	2.78	43	22062	2.390	ug/l	96
20) Methylene Chloride	2.86	84	13145339	2192.768	ug/l	96
25) 2-Butanone	4.70	43	3670	0.805	ug/l	90
29) Tetrahydrofuran	5.17	42	1424	0.480	ug/l #	34
36) 1,1-Dichloropropene	5.66	75	39439	4.776	ug/l #	44
38) Carbon Tetrachloride	5.66	117	56628	6.815	ug/l #	13
43) Isopropyl Acetate	6.46	43	31296	2.241	ug/l	95
48) Methyl methacrylate	7.68	41	17283	2.410	ug/l #	12
49) 1,4-Dioxane	7.75	88	120	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	160352	17.866	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	80801	8.706	ug/l #	60
57) 1,3-Dichloropropane	9.54	76	17850	1.681	ug/l #	45
59) 2-Hexanone	9.54	43	230106	33.643	ug/l #	50
74) N-amyl acetate	10.69	43	22649	1.865	ug/l #	54
76) 1,2,3-Trichloropropane	11.13	75	188828	21.781	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	6739	0.267	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.13	75	188828	64.542	ug/l #	10
90) Hexachloroethane	12.59	117	131	2.937	ug/l #	6
95) Naphthalene	13.83	128	36398	1.181	ug/l	95

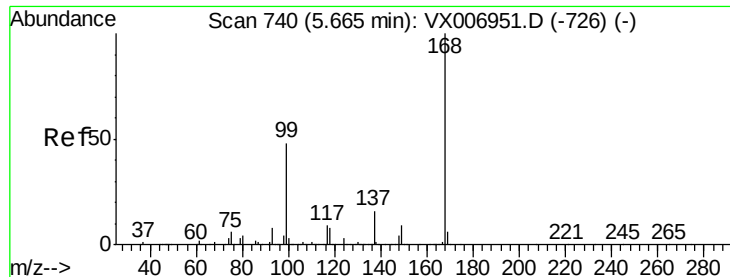
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX006976.D

Acq: 09 Jan 2019 20:06

Instrument :

MSVOA_X

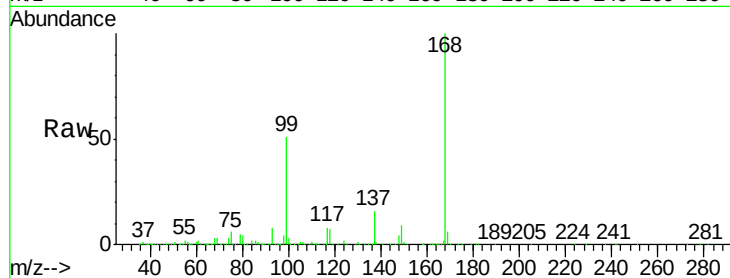
ClientSampleId :

Tot Ion:168 Resp: 616872

Ion Ratio Lower Upper

168 100

99 50.5 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

200000

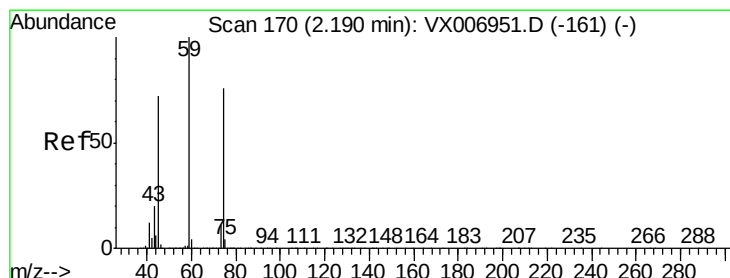
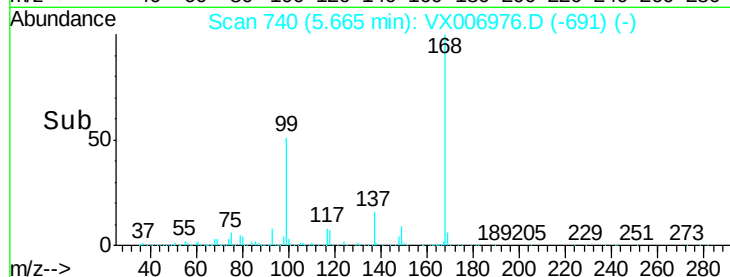
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#8

Diethyl Ether

Concen: 0.715 ug/l

RT: 2.20 min Scan# 171

Delta R.T. 0.01 min

Lab File: VX006976.D

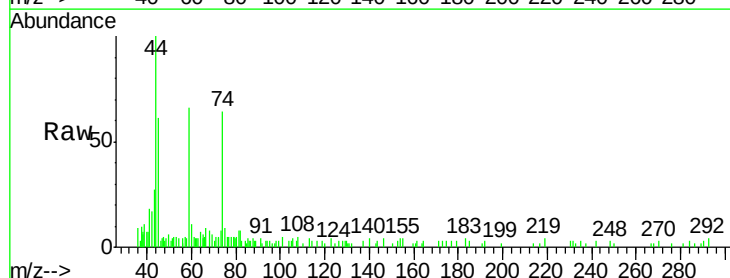
Acq: 09 Jan 2019 20:06

Tgt Ion: 74 Resp: 2916

Ion Ratio Lower Upper

74 100

45 100.8 46.3 138.9



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

3000

2500

2000

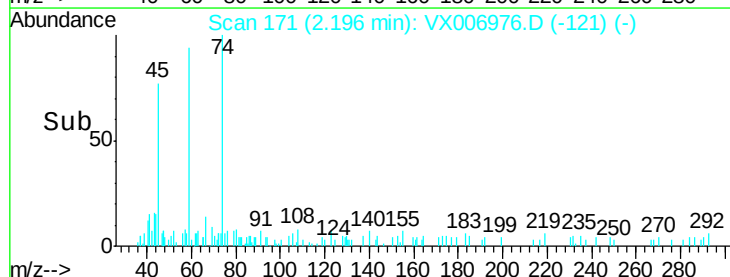
1500

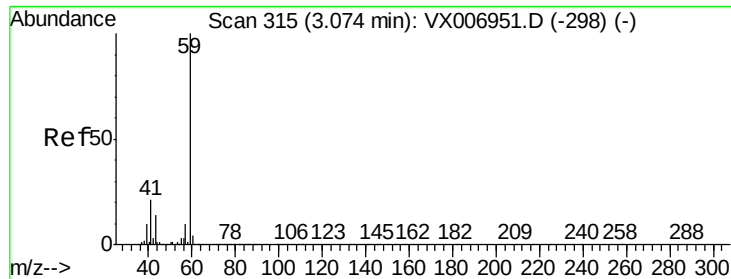
1000

500

0

Time--> 2.15 2.20 2.25



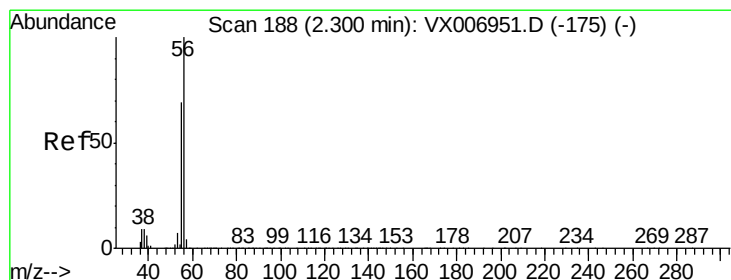
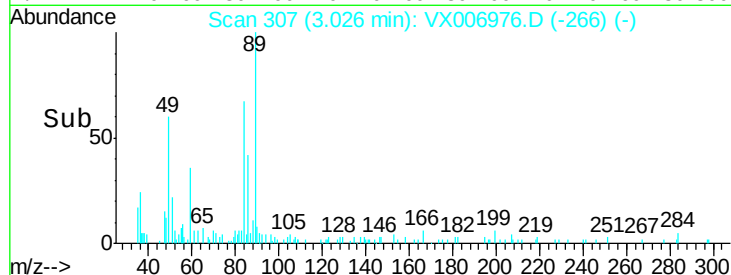
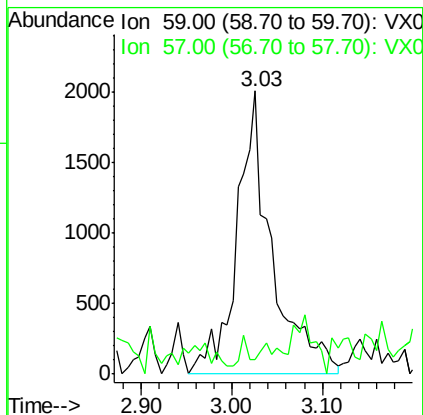
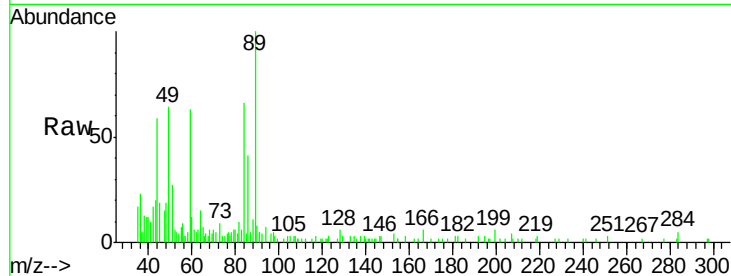


#11

Tert butyl alcohol
Concen: 3.564 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX006976.D
Acq: 09 Jan 2019 20:06

Instrument :
MSVOA_X
ClientSampleId :

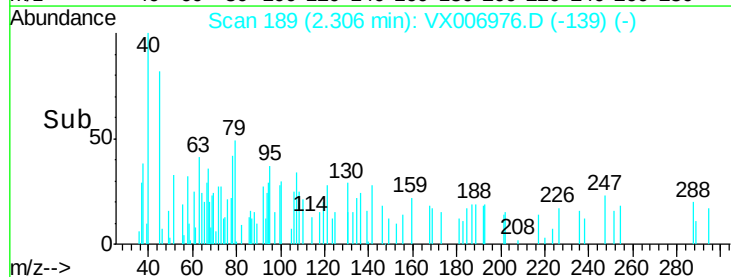
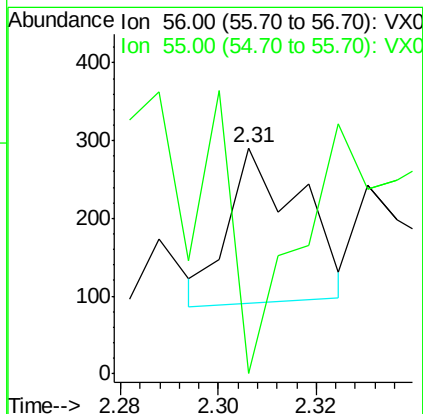
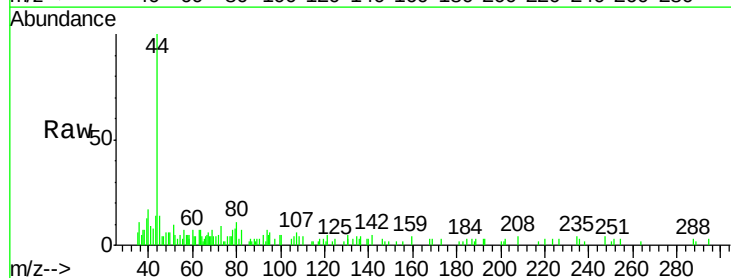
Tot Ion: 59 Resp: 5420
Ion Ratio Lower Upper
59 100
57 2.5 8.5 12.7#

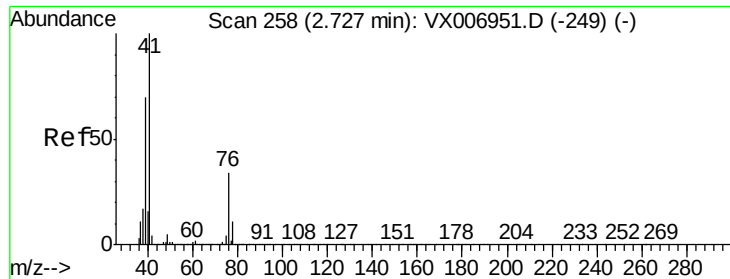


#13

Acrolein
Concen: 3.394 ug/l
RT: 2.31 min Scan# 189
Delta R.T. 0.01 min
Lab File: VX006976.D
Acq: 09 Jan 2019 20:06

Tgt Ion: 56 Resp: 206
Ion Ratio Lower Upper
56 100
55 200.0 58.2 87.4#

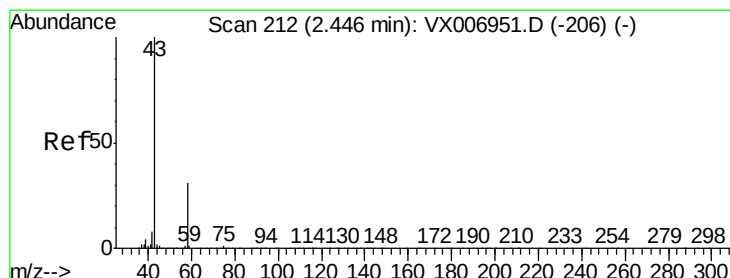
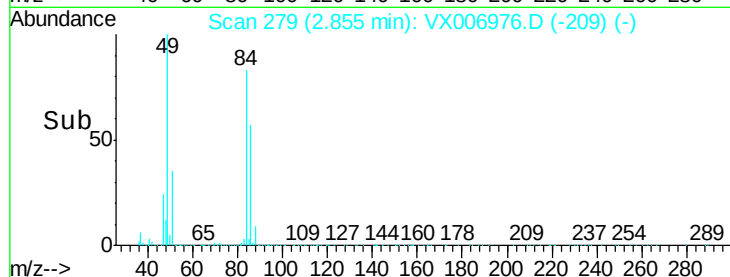
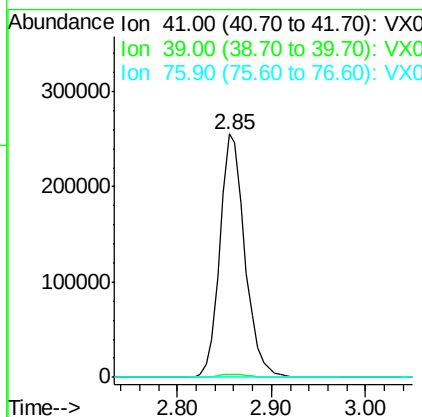
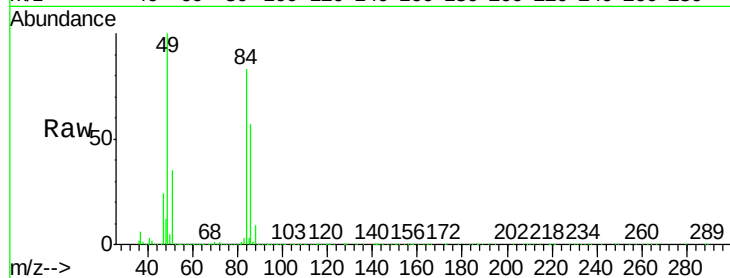




#14
Allvl chloride
Concen: 48.109 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.13 min
Lab File: VX006976.D
Acq: 09 Jan 2019 20:06

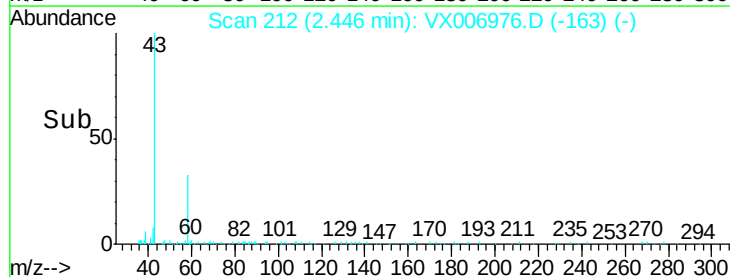
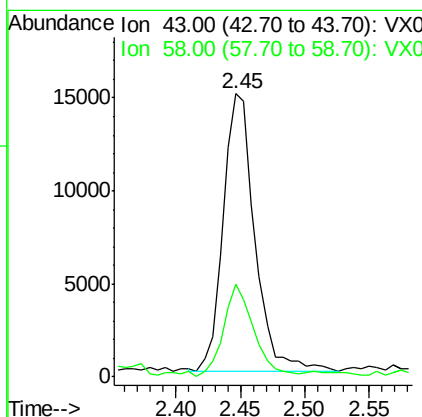
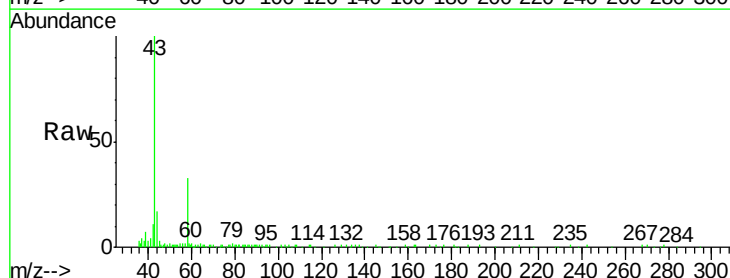
Instrument :
MSVOA_X
ClientSampleId :

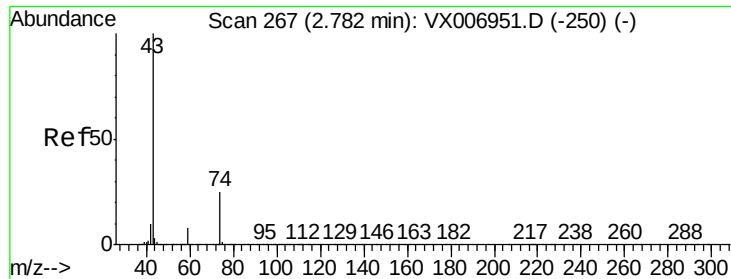
Tot Ion: 41 Resp: 467454
Ion Ratio Lower Upper
41 100
39 1.5 53.6 80.4#
76 0.0 27.4 41.2#



#16
Acetone
Concen: 8.028 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX006976.D
Acq: 09 Jan 2019 20:06

Tgt Ion: 43 Resp: 25586
Ion Ratio Lower Upper
43 100
58 31.8 25.0 37.6

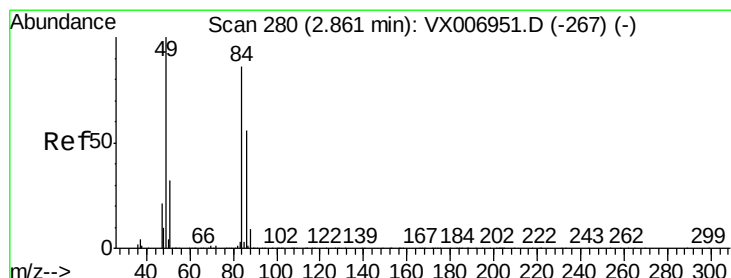
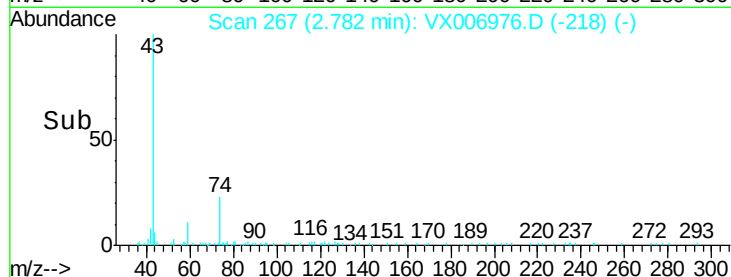
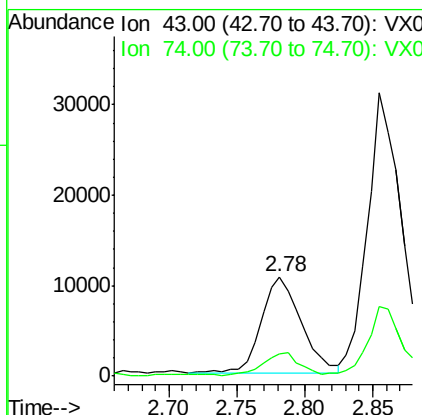
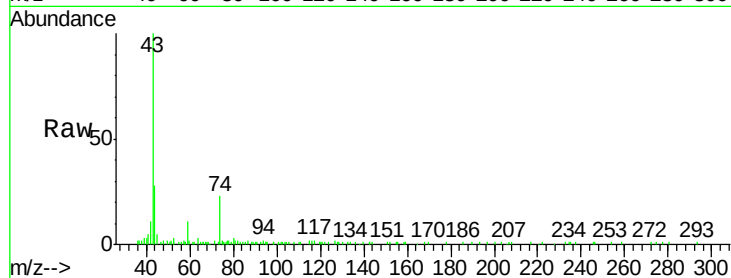




#18
Methyl Acetate
Concen: 2.390 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX006976.D
Acq: 09 Jan 2019 20:06

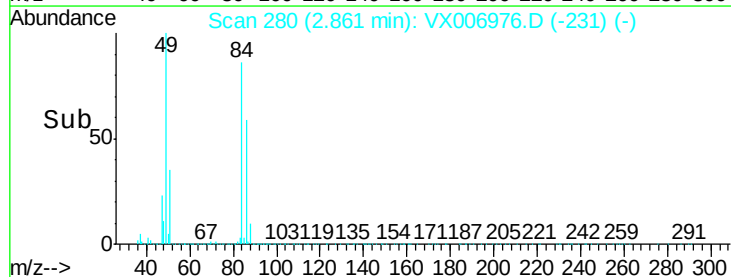
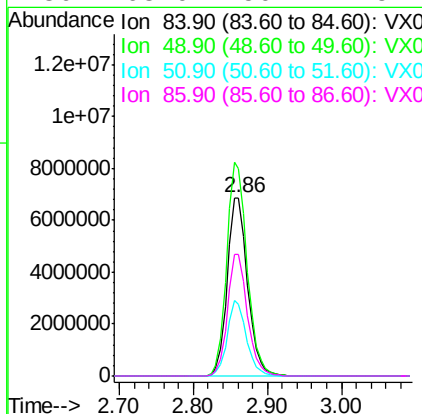
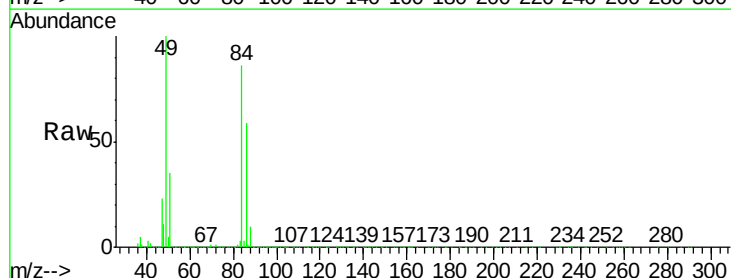
Instrument :
MSVOA_X
ClientSampleId :

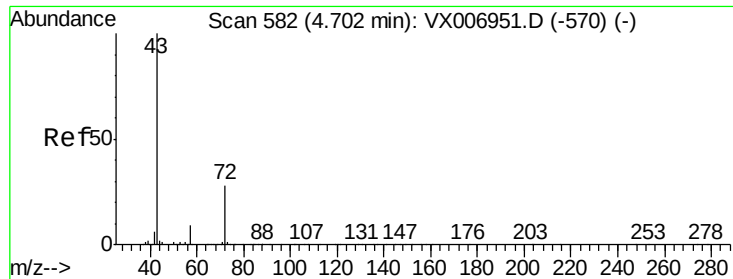
Tot Ion: 43 Resp: 22062
Ion Ratio Lower Upper
43 100
74 21.4 18.6 28.0



#20
Methylene Chloride
Concen: 2192.768 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006976.D
Acq: 09 Jan 2019 20:06

Tgt Ion: 84 Resp: 13145339
Ion Ratio Lower Upper
84 100
49 115.8 91.8 137.6
51 40.4 28.5 42.7
86 68.0 50.2 75.2





#25

2-Butanone

Concen: 0.805 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX006976.D

Acq: 09 Jan 2019 20:06

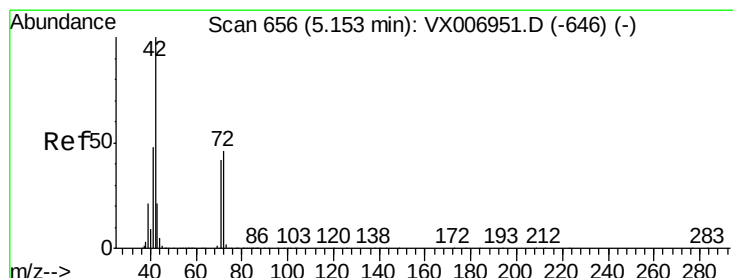
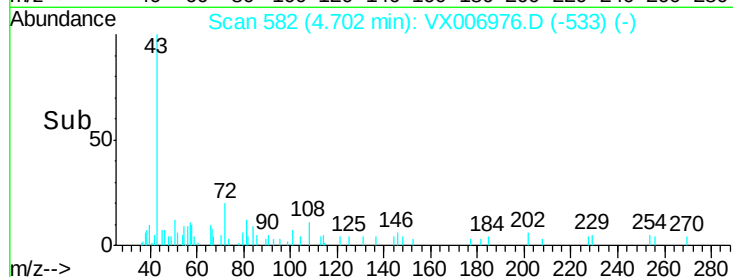
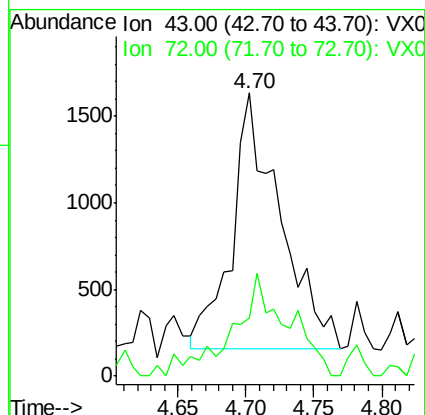
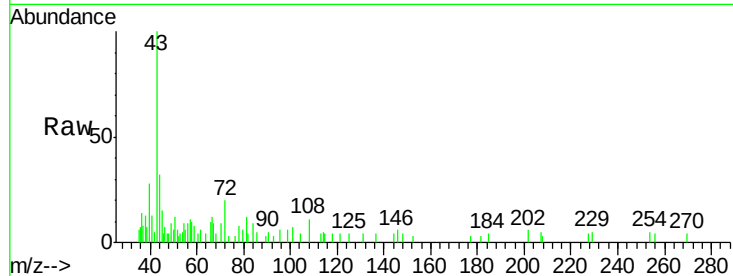
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 3670

Ion Ratio Lower Upper

43 100

72 22.6 22.4 33.6



#29

Tetrahydrofuran

Concen: 0.480 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX006976.D

Acq: 09 Jan 2019 20:06

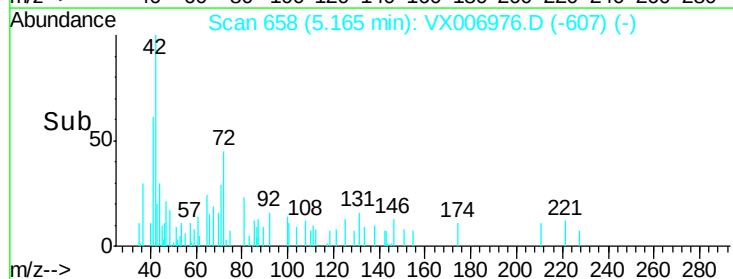
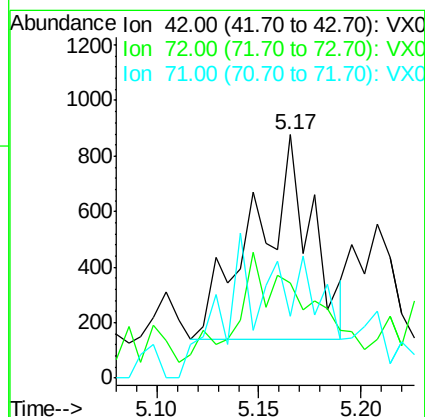
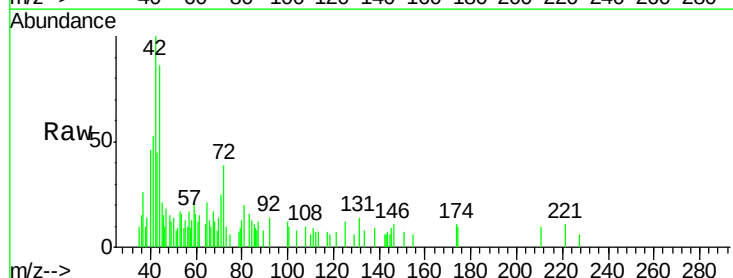
Tgt Ion: 42 Resp: 1424

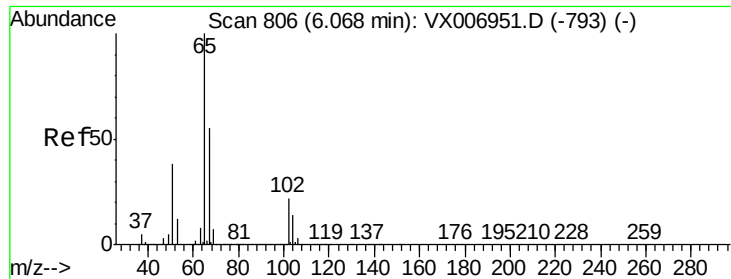
Ion Ratio Lower Upper

42 100

72 0.0 38.9 58.3#

71 5.4 36.2 54.4#

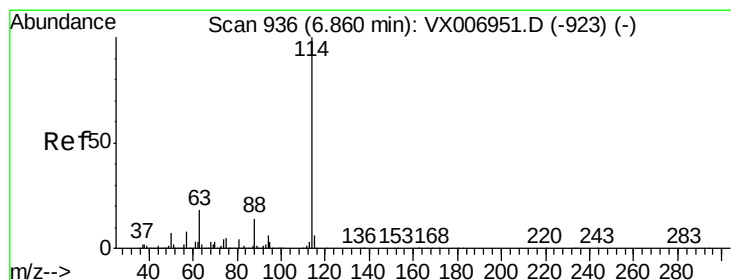
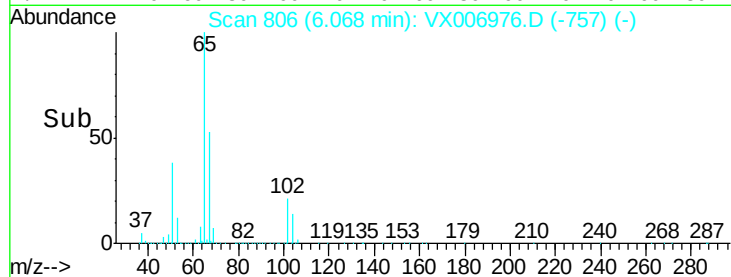
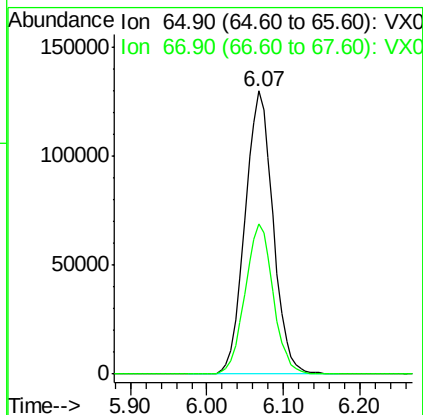
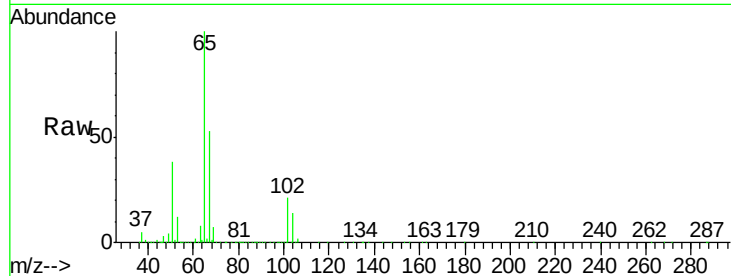




#33
 1,2-Dichloroethane-d4
 Concen: 51.270 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX006976.D
 Acq: 09 Jan 2019 20:06

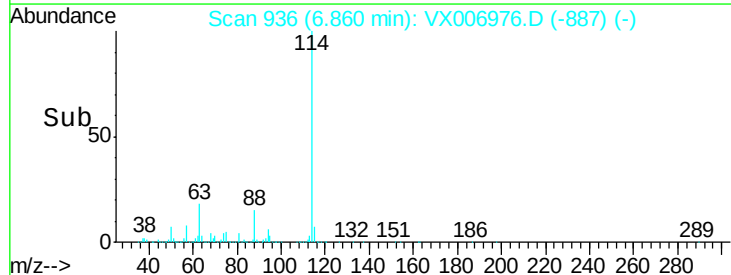
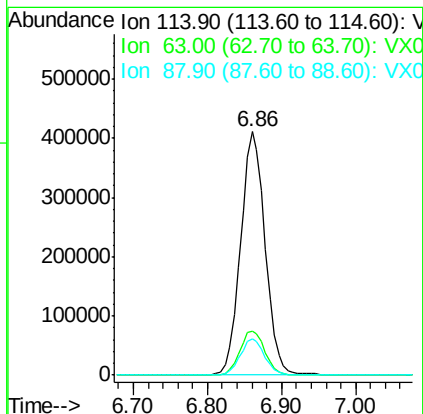
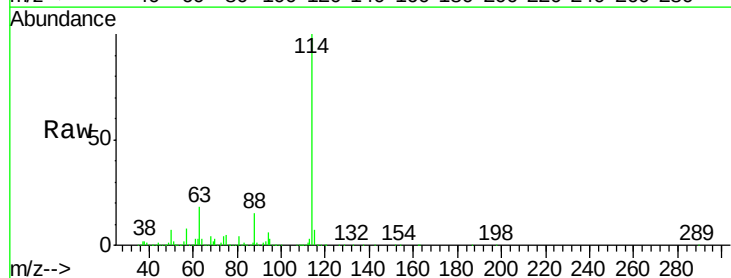
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 MSVOA_X
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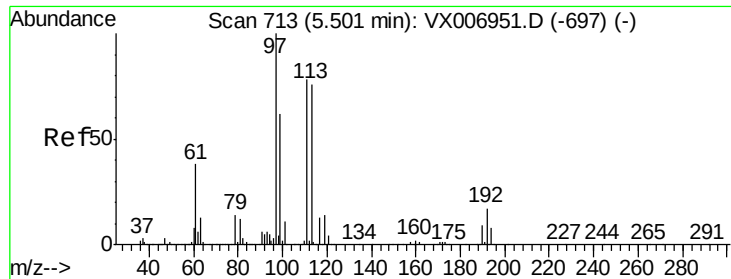
Tot Ion: 65 Resp: 330528
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX006976.D
 Acq: 09 Jan 2019 20:06

Tgt Ion: 114 Resp: 949901
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 34.8
 88 15.1 0.0 28.8





#35

Dibromofluoromethane

Concen: 48.587 ug/l

RT: 5.51 min Scan# 714

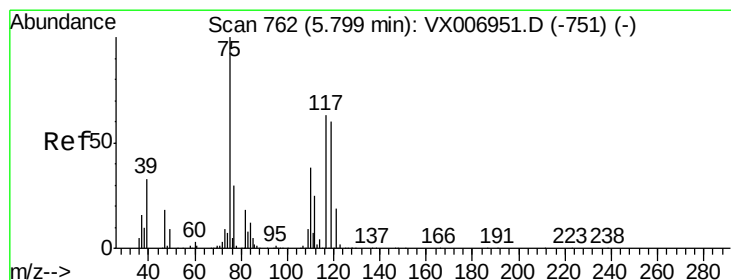
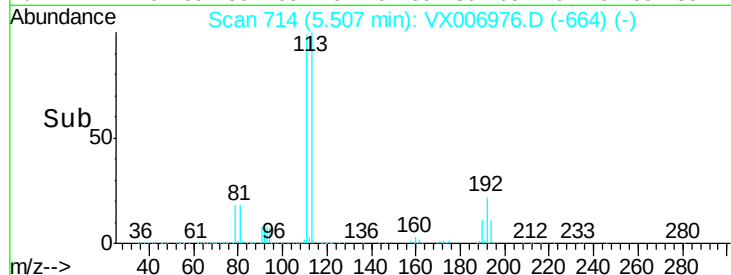
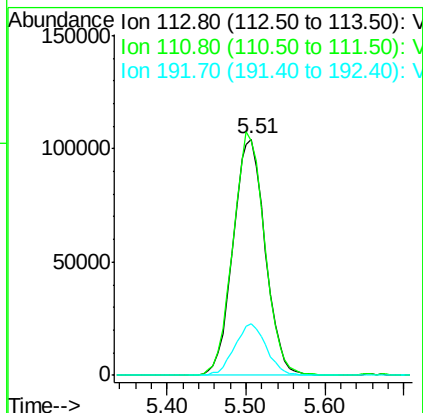
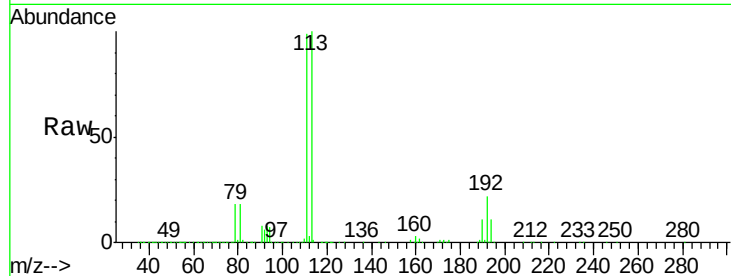
Delta R.T. 0.01 min

Lab File: VX006976.D

Acq: 09 Jan 2019 20:06

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:113	Resp:	295558
Ion Ratio	Lower	Upper
113	100	
111	101.6	81.6 122.4
192	21.7	16.7 25.1



#36

1,1-Dichloropropene

Concen: 4.776 ug/l

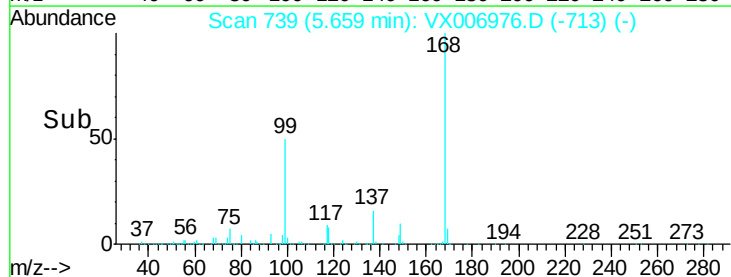
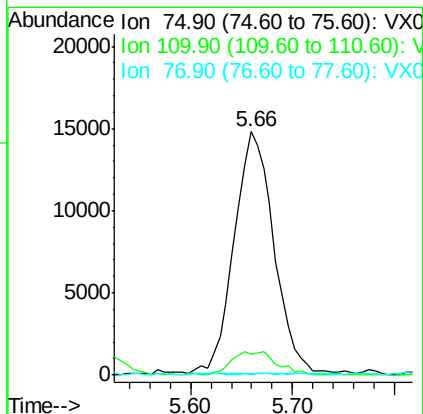
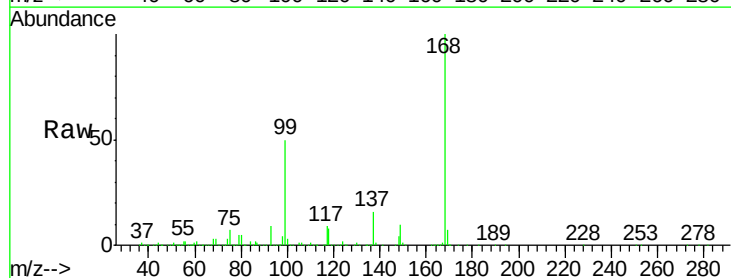
RT: 5.66 min Scan# 739

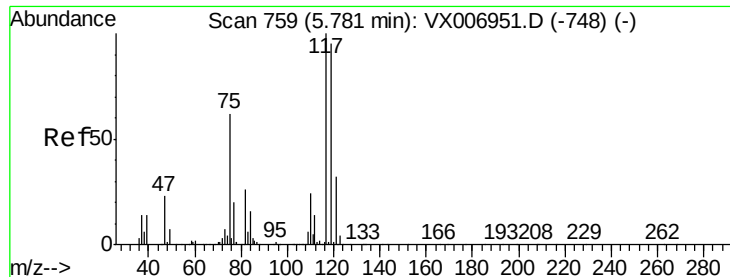
Delta R.T. -0.14 min

Lab File: VX006976.D

Acq: 09 Jan 2019 20:06

Tgt Ion: 75	Resp:	39439
Ion Ratio	Lower	Upper
75	100	
110	5.4	20.2 60.5#
77	0.0	24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.815 ug/l

RT: 5.66 min Scan# 739

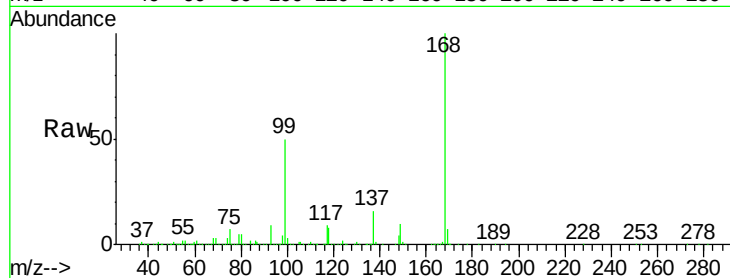
Delta R.T. -0.12 min

Lab File: VX006976.D

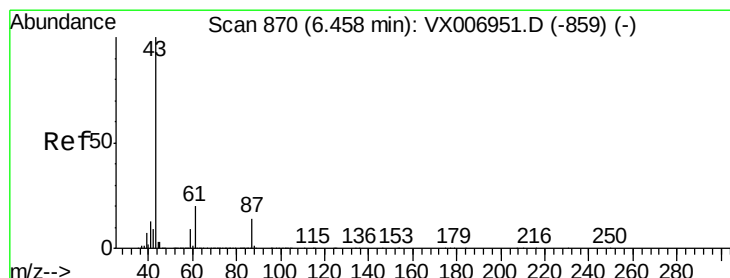
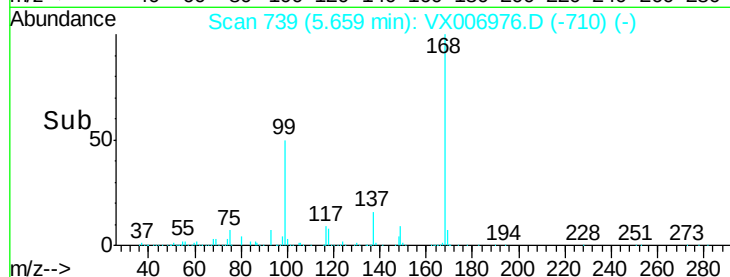
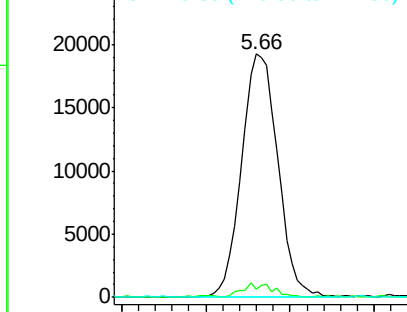
Acq: 09 Jan 2019 20:06

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	117	Resp:	56628
Ion	Ratio	Lower	Upper
117	100		
119	2.9	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: 2.241 ug/l

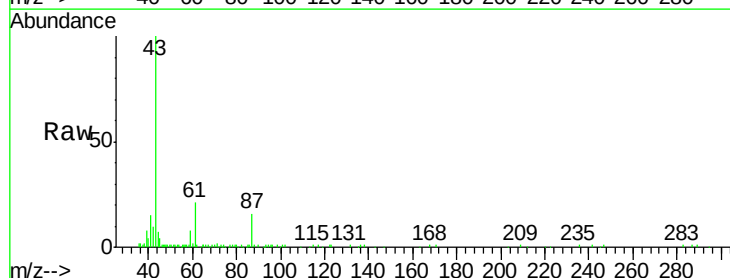
RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

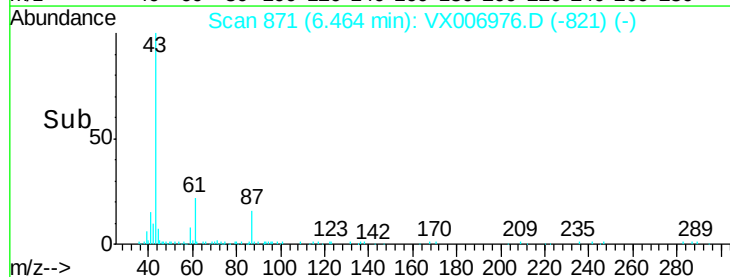
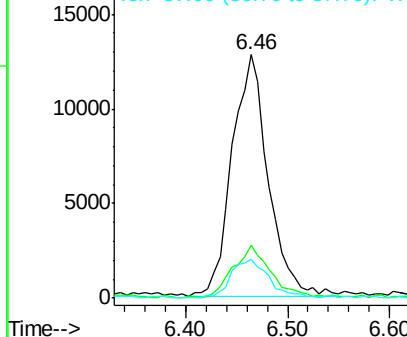
Lab File: VX006976.D

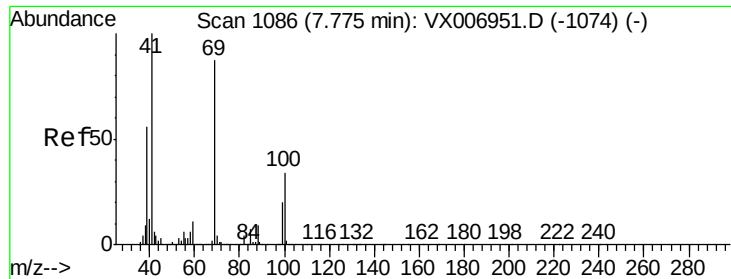
Acq: 09 Jan 2019 20:06

Tgt Ion:	43	Resp:	31296
Ion	Ratio	Lower	Upper
43	100		
61	23.6	16.8	25.2
87	17.1	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

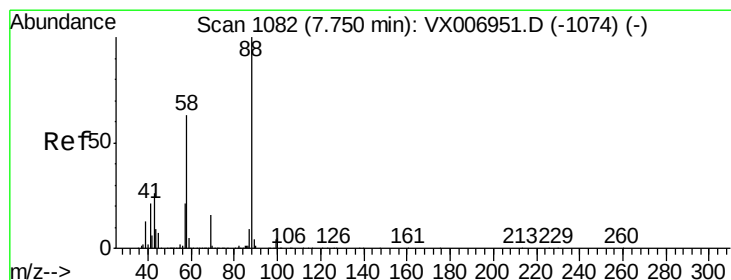
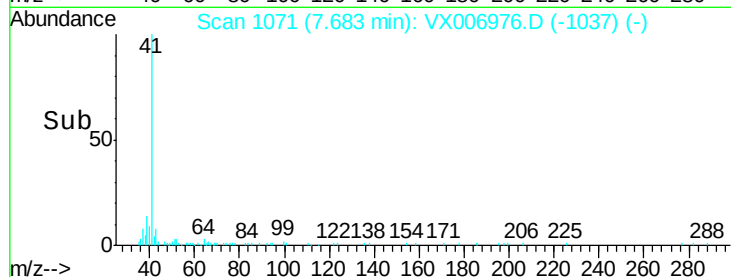
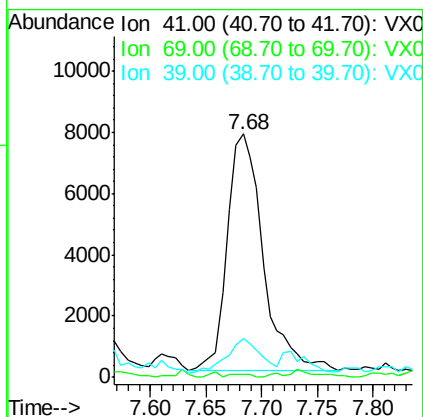
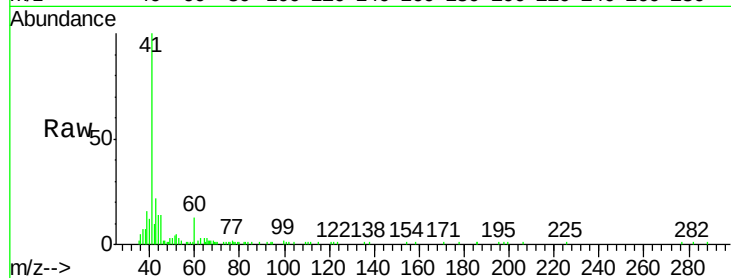




#48
Methvl methacrylate
Concen: 2.410 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX006976.D
Acq: 09 Jan 2019 20:06

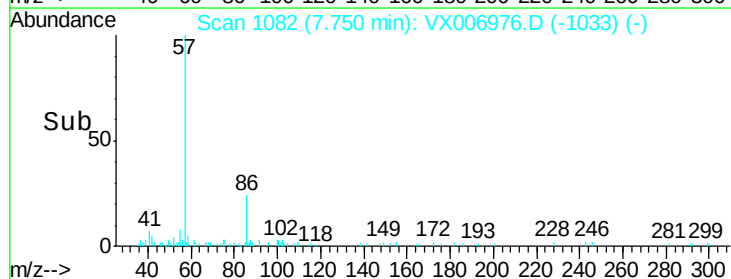
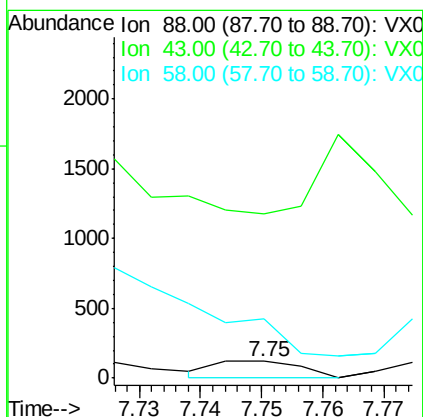
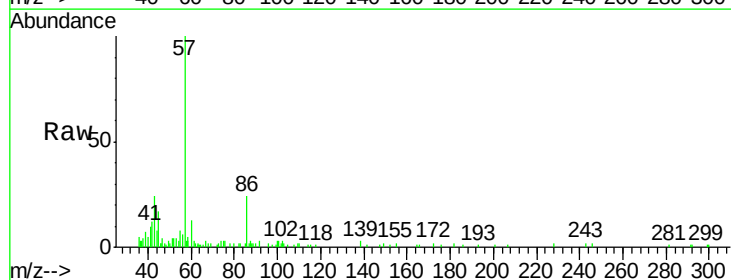
Instrument :
MSVOA_X
ClientSampled :

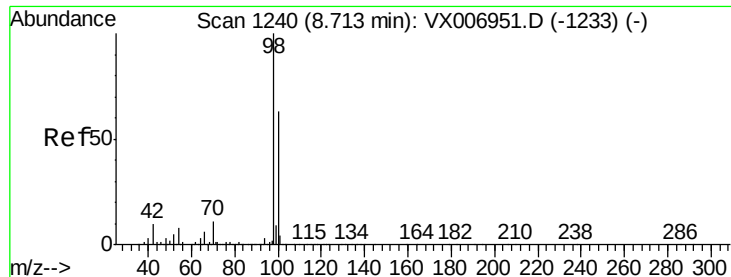
Tot Ion: 41 Resp: 17283
Ion Ratio Lower Upper
41 100
69 0.8 72.4 108.6#
39 0.0 45.8 68.8#



#49
1,4-Dioxane
Concen: Below Cal
RT: 7.75 min Scan# 1082
Delta R.T. 0.00 min
Lab File: VX006976.D
Acq: 09 Jan 2019 20:06

Tgt Ion: 88 Resp: 120
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.4#
58 0.0 51.0 76.4#

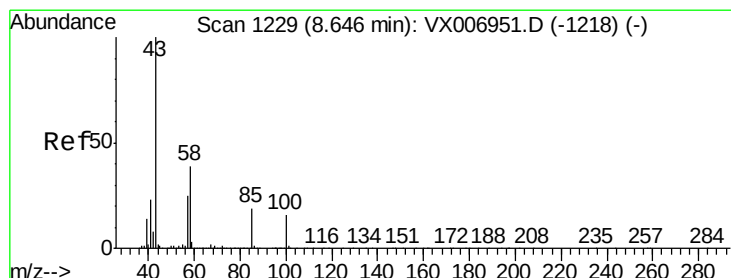
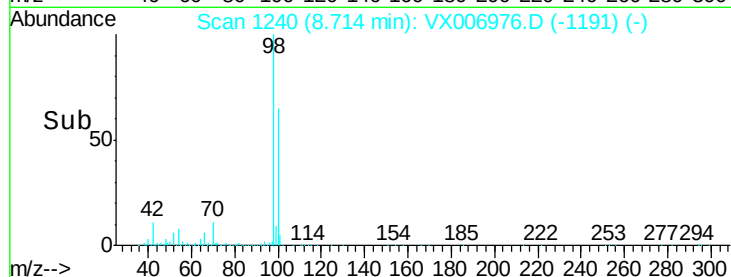
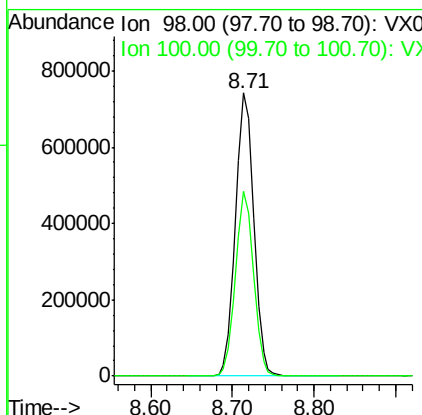
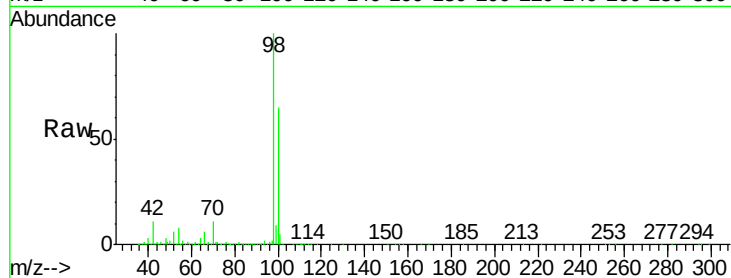




#50
Toluene-d8
Concen: 51.410 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006976.D
Acq: 09 Jan 2019 20:06

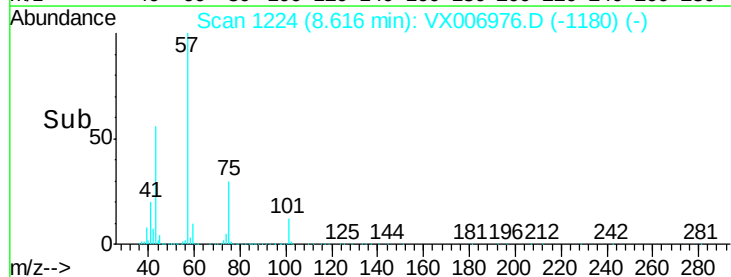
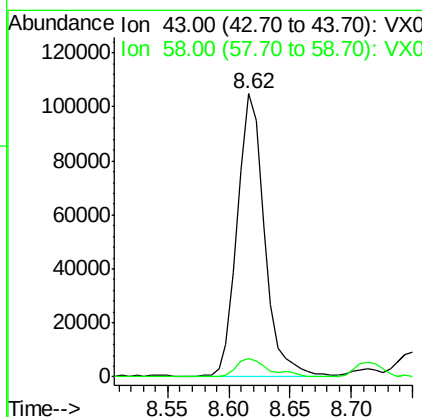
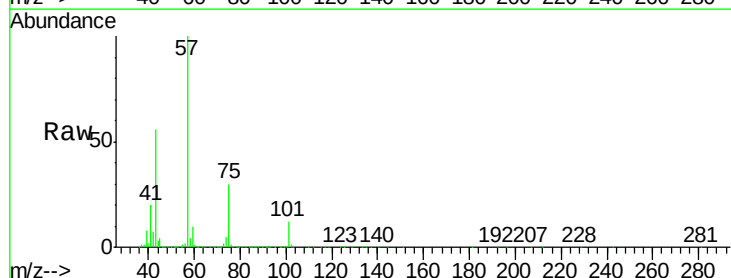
Instrument :
MSVOA_X
ClientSampleId :

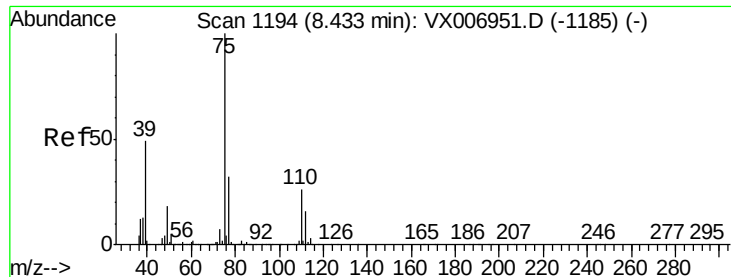
Tot Ion: 98 Resp: 1144703
Ion Ratio Lower Upper
98 100
100 64.0 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 17.866 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.03 min
Lab File: VX006976.D
Acq: 09 Jan 2019 20:06

Tgt Ion: 43 Resp: 160352
Ion Ratio Lower Upper
43 100
58 8.0 31.8 47.6#





#54

cis-1,3-Dichloropropene

Concen: 8.706 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX006976.D

Acq: 09 Jan 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

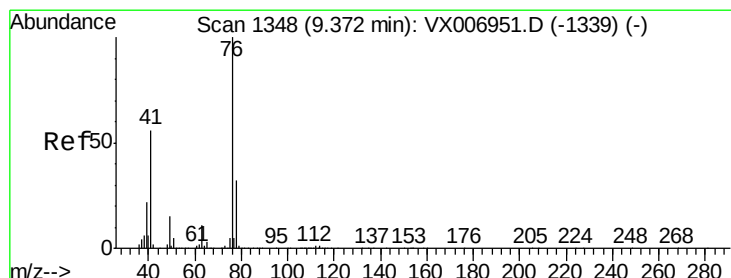
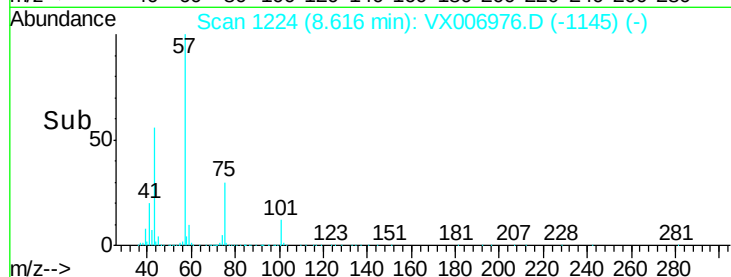
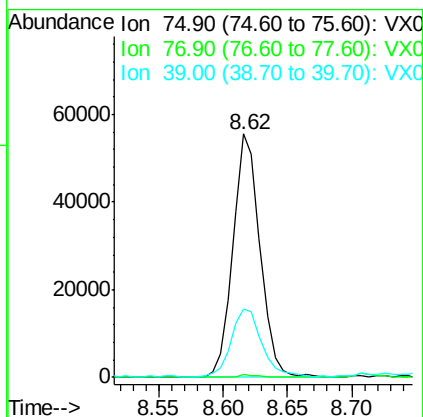
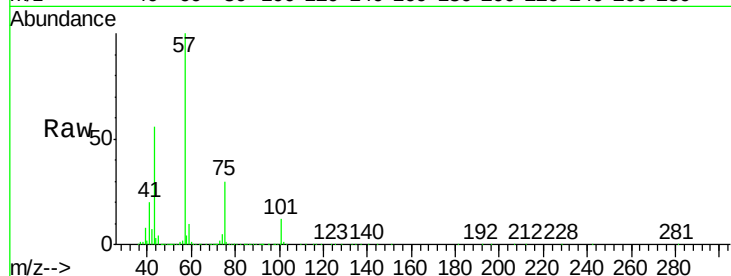
Tot Ion: 75 Resp: 80801

Ion Ratio Lower Upper

75 100

77 0.9 26.2 39.2#

39 27.7 36.7 55.1#



#57

1,3-Dichloropropane

Concen: 1.681 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX006976.D

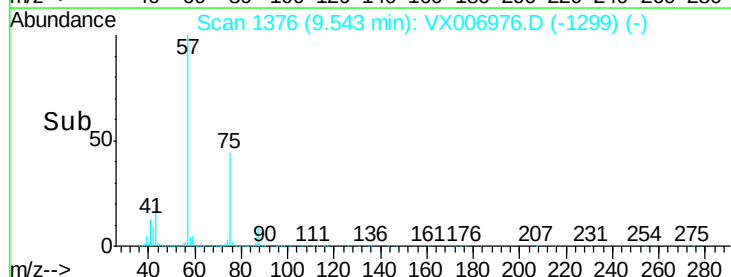
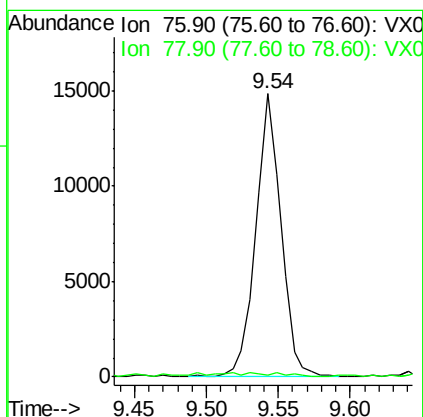
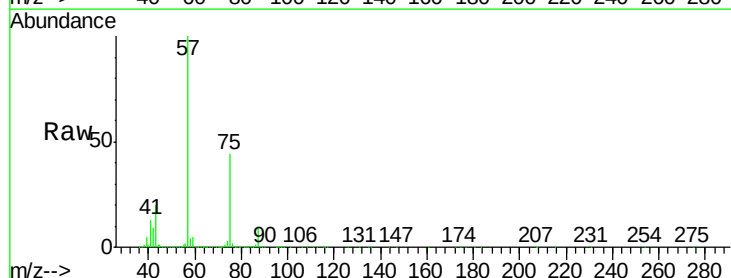
Acq: 09 Jan 2019 20:06

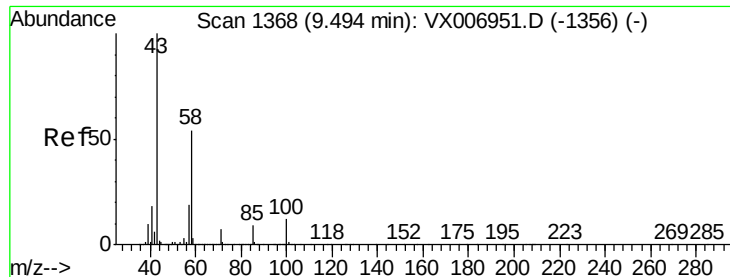
Tgt Ion: 76 Resp: 17850

Ion Ratio Lower Upper

76 100

78 1.4 26.0 39.0#

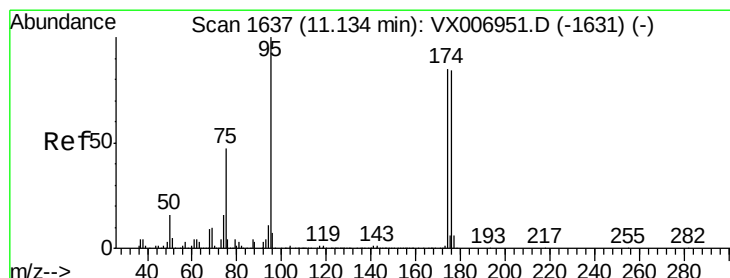
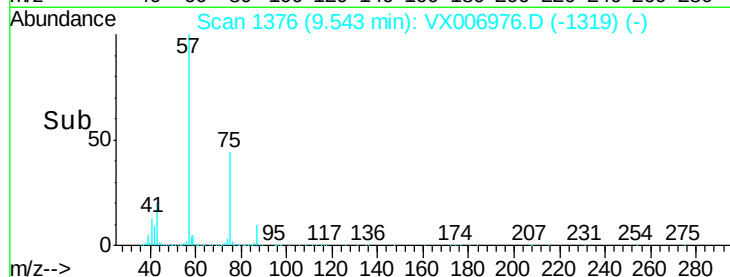
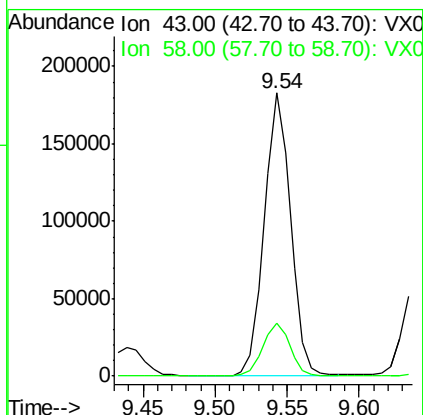
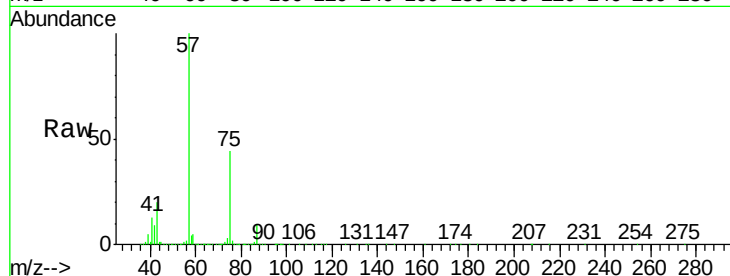




#59
2-Hexanone
Concen: 33.643 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX006976.D
Acq: 09 Jan 2019 20:06

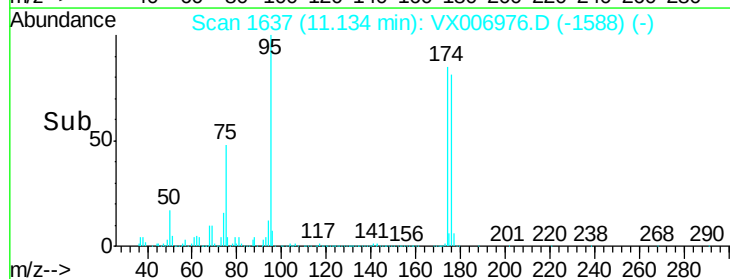
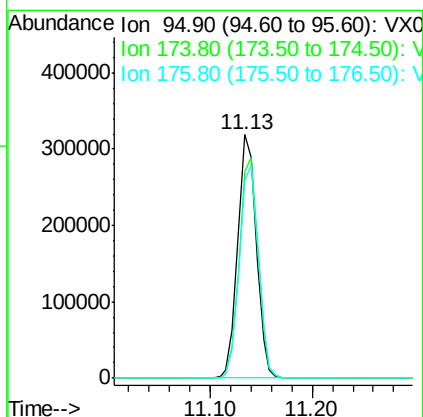
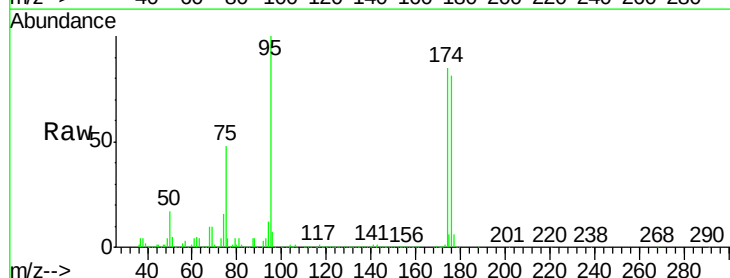
Instrument :
MSVOA_X
ClientSampleId :

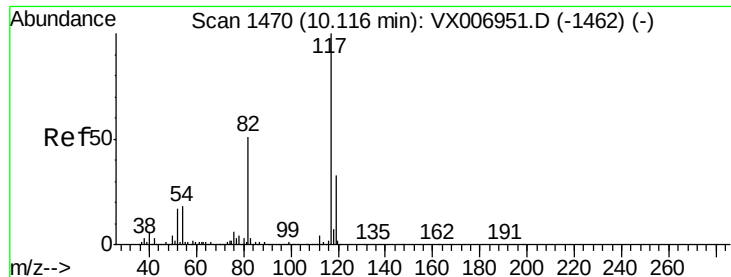
Tot Ion: 43 Resp: 230106
Ion Ratio Lower Upper
43 100
58 19.2 27.7 83.1#



#62
4-Bromofluorobenzene
Concen: 51.713 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX006976.D
Acq: 09 Jan 2019 20:06

Tgt Ion: 95 Resp: 401419
Ion Ratio Lower Upper
95 100
174 91.9 0.0 182.2
176 89.1 0.0 178.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VX006976.D

Acq: 09 Jan 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

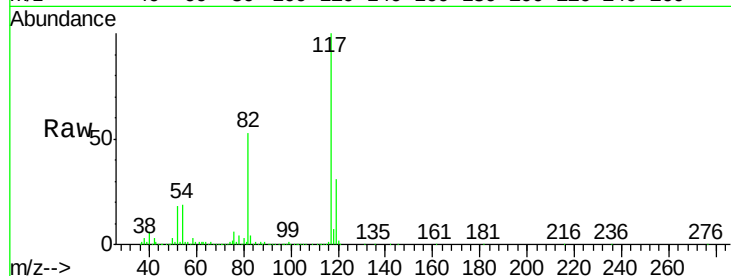
Tot Ion:117 Resp: 895806

Ion Ratio Lower Upper

117 100

82 53.1 41.0 61.6

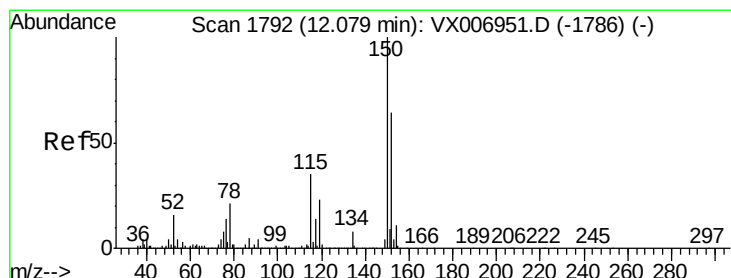
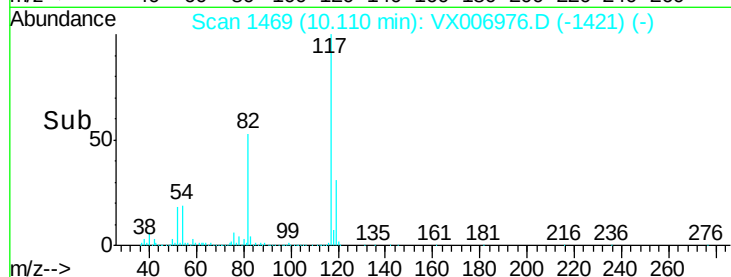
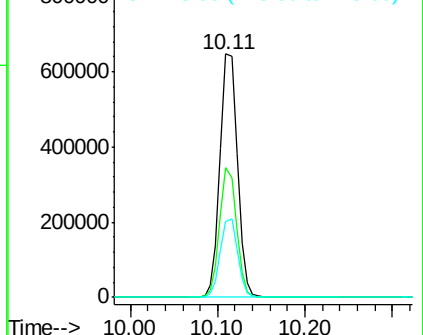
119 31.1 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006976.D

Acq: 09 Jan 2019 20:06

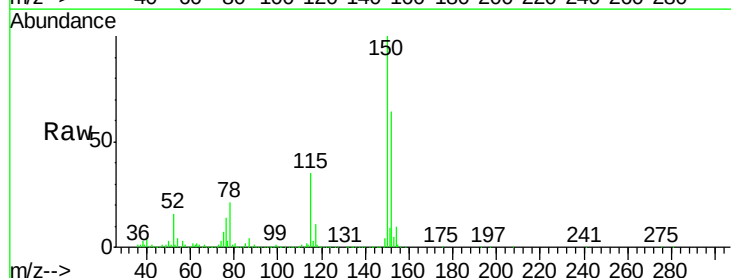
Tgt Ion:152 Resp: 427809

Ion Ratio Lower Upper

152 100

115 54.0 39.1 117.2

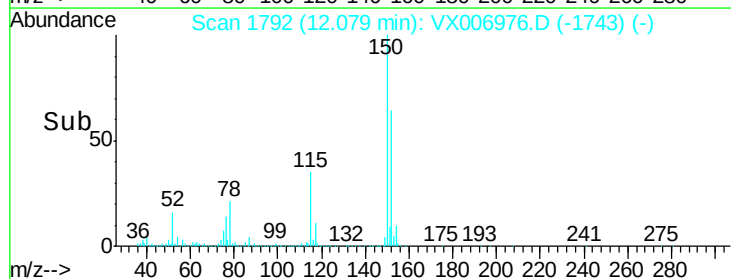
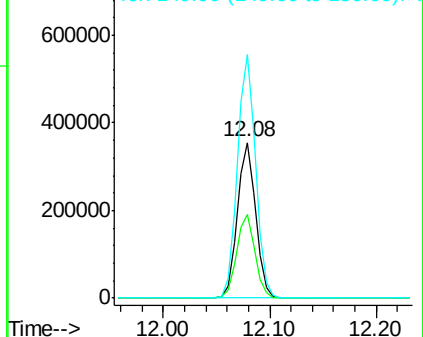
150 156.1 0.0 344.8

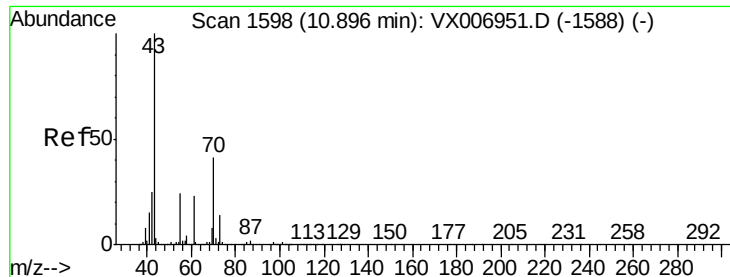


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

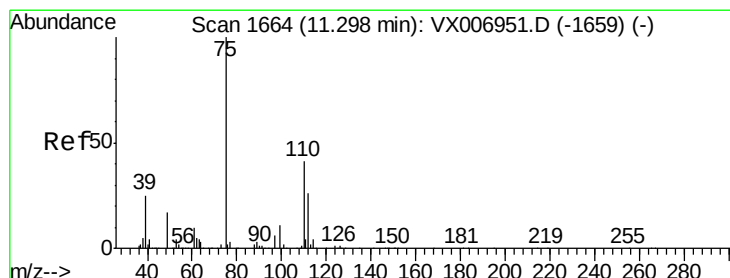
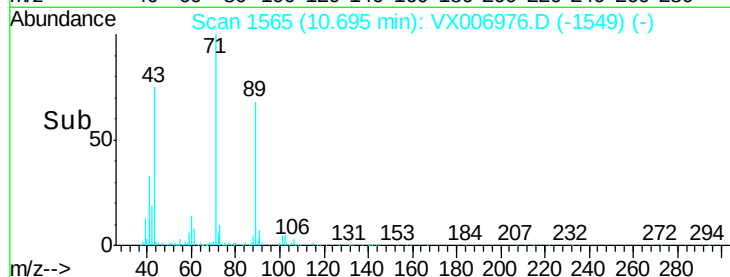
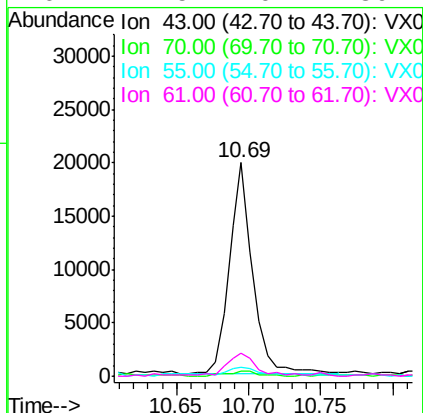
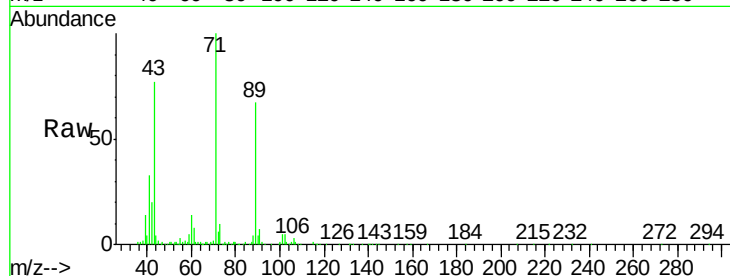




#74
N-amvl acetate
Concen: 1.865 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.20 min
Lab File: VX006976.D
Acq: 09 Jan 2019 20:06

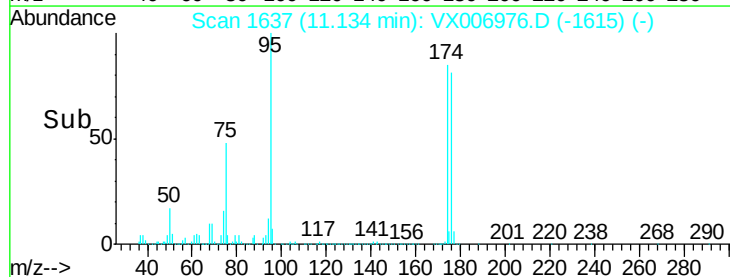
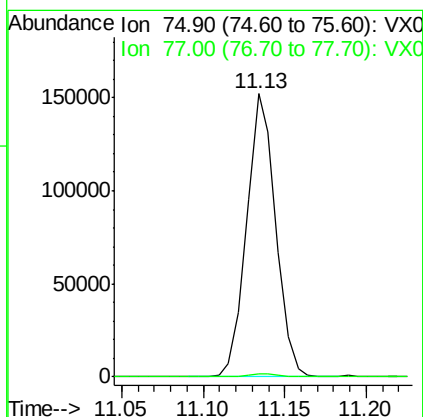
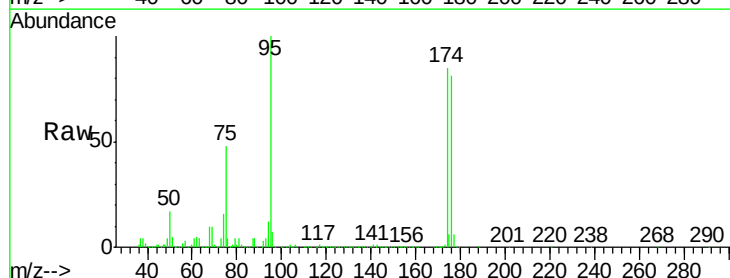
Instrument :
MSVOA_X
ClientSampleId :

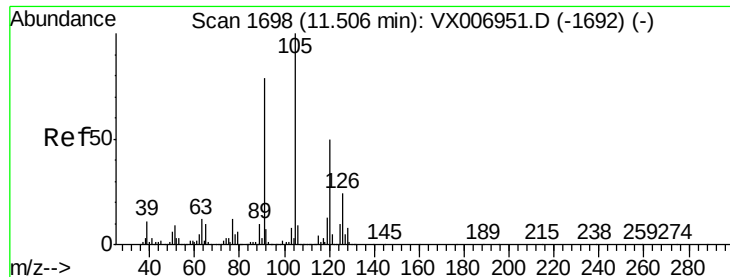
Tot Ion: 43 Resp: 22649
Ion Ratio Lower Upper
43 100
70 3.4 35.8 53.8#
55 6.4 19.4 29.0#
61 12.5 20.1 30.1#



#76
1,2,3-Trichloropropane
Concen: 21.781 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX006976.D
Acq: 09 Jan 2019 20:06

Tgt Ion: 75 Resp: 188828
Ion Ratio Lower Upper
75 100
77 1.3 18.5 55.5#





#80

1,3,5-Trimethylbenzene

Concen: 0.267 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX006976.D

Acq: 09 Jan 2019 20:06

Instrument :

MSVOA_X

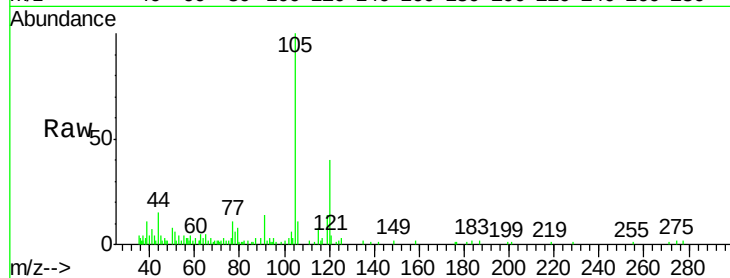
ClientSampled :

Tot Ion:105 Resp: 6739

Ion Ratio Lower Upper

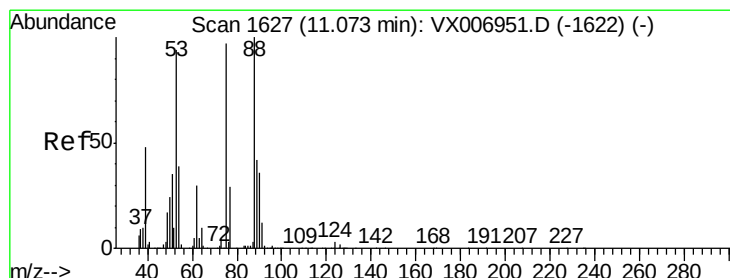
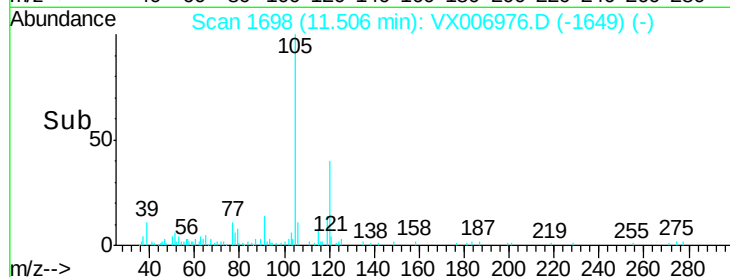
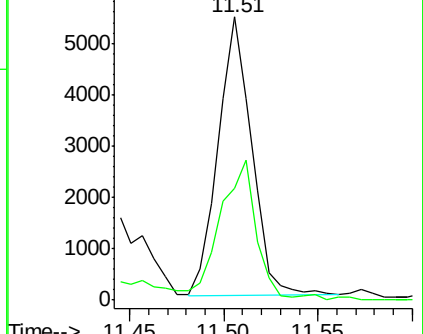
105 100

120 55.3 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: 64.542 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006976.D

Acq: 09 Jan 2019 20:06

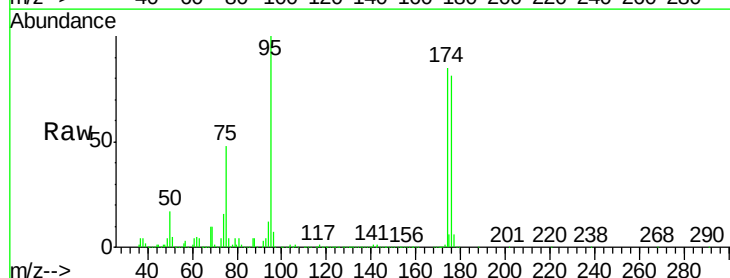
Tgt Ion: 75 Resp: 188828

Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

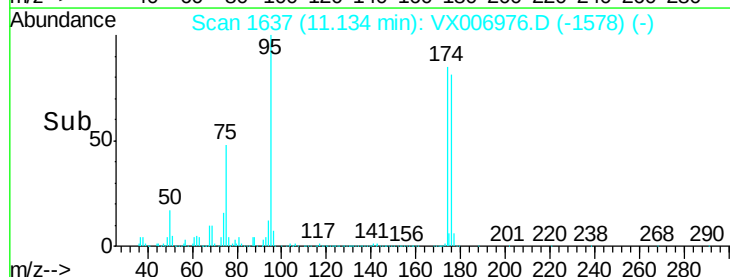
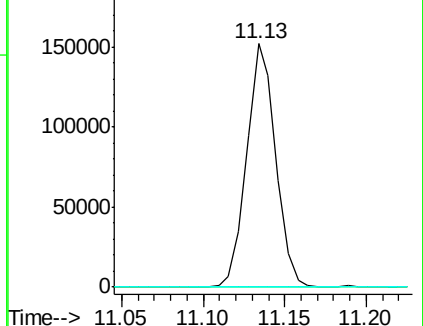
89 0.2 38.0 57.0#

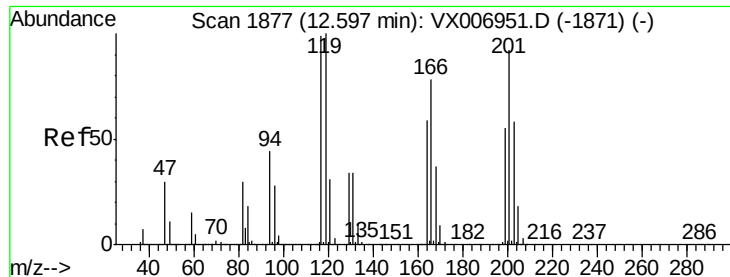


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 2.937 ug/l

RT: 12.59 min Scan# 1876

Delta R.T. -0.01 min

Lab File: VX006976.D

Acq: 09 Jan 2019 20:06

Instrument :

MSVOA_X

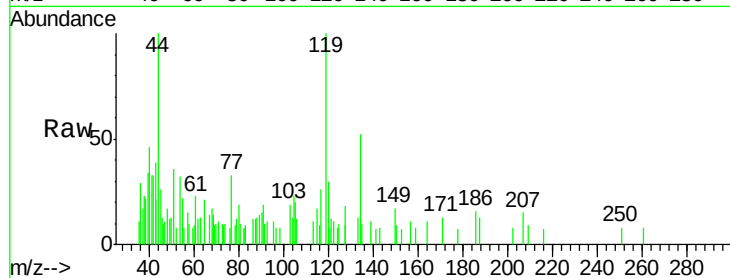
ClientSampleId :

Tot Ion:117 Resp: 131

Ion Ratio Lower Upper

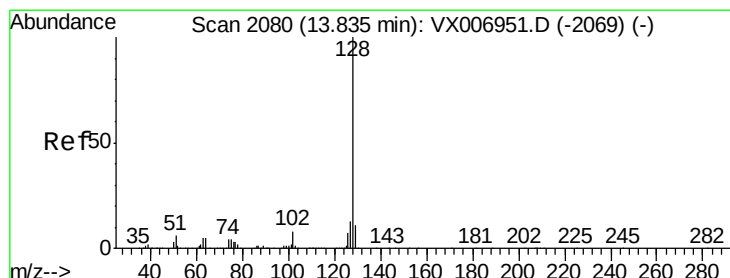
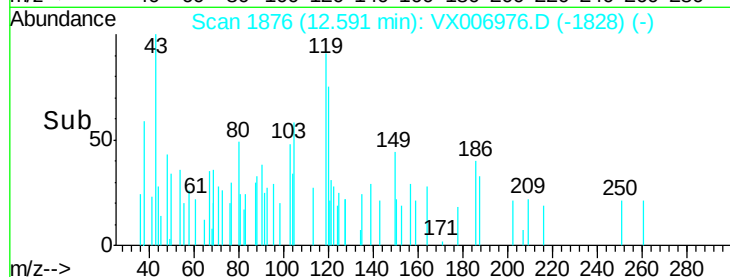
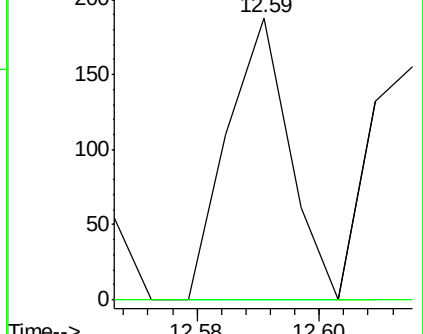
117 100

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



#95

Naphthalene

Concen: 1.181 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX006976.D

Acq: 09 Jan 2019 20:06

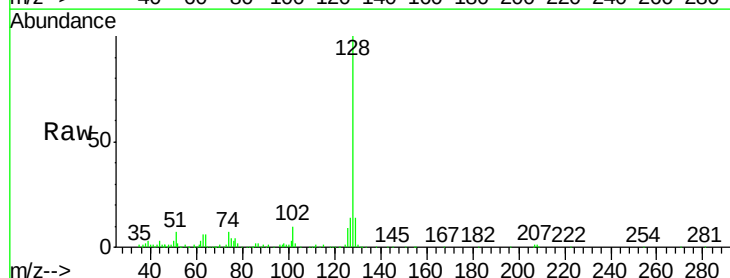
Tgt Ion:128 Resp: 36398

Ion Ratio Lower Upper

128 100

127 15.0 10.1 15.1

129 12.1 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

