

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012619\
 Data File : VX007241.D
 Acq On : 25 Jan 2019 20:41
 Operator : JC/SP
 Sample : PB116609ZHE#07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 28 00:18:05 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	534271	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	832304	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	798423	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	380893	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	291674	52.24	ug/l	0.00
Spiked Amount			Recovery	=	104.48%	
35) Dibromofluoromethane	5.51	113	262300	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	
50) Toluene-d8	8.71	98	1016824	52.12	ug/l	0.00
Spiked Amount			Recovery	=	104.24%	
62) 4-Bromofluorobenzene	11.13	95	353117	51.92	ug/l	0.00
Spiked Amount			Recovery	=	103.84%	

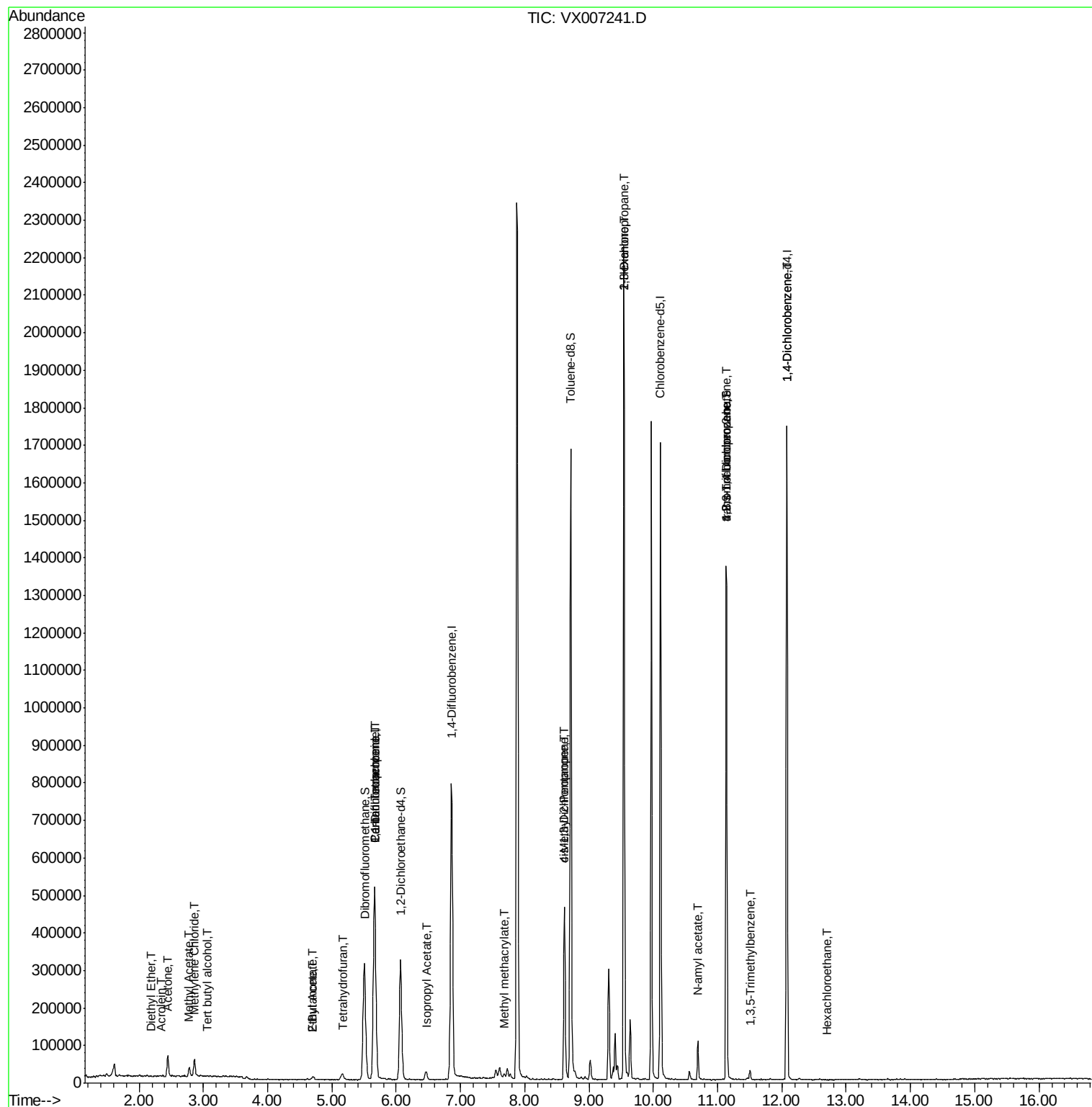
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.20	74	1098	0.311	ug/l	62
11) Tert butyl alcohol	3.06	59	1687	1.281	ug/l #	89
13) Acrolein	2.34	56	244	3.508	ug/l #	1
16) Acetone	2.45	43	60615	21.959	ug/l	98
18) Methyl Acetate	2.78	43	33239	4.158	ug/l	96
20) Methylene Chloride	2.86	84	21789	3.625	ug/l	90
25) 2-Butanone	4.70	43	13933	3.528	ug/l #	88
29) Tetrahydrofuran	5.16	42	14531	5.661	ug/l	99
36) 1,1-Dichloropropene	5.67	75	34095	4.712	ug/l #	50
37) Ethyl Acetate	4.70	43	13933	1.796	ug/l #	69
38) Carbon Tetrachloride	5.67	117	47092	6.468	ug/l #	14
43) Isopropyl Acetate	6.46	43	29228	2.388	ug/l	98
48) Methyl methacrylate	7.68	41	14053	2.236	ug/l #	13
49) 1,4-Dioxane	7.76	88	154	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	151614	19.279	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	74977	9.220	ug/l #	63
57) 1,3-Dichloropropane	9.54	76	17553	1.886	ug/l #	42
59) 2-Hexanone	9.54	43	239321	39.934	ug/l #	51
74) N-amyl acetate	10.69	43	23862	2.207	ug/l #	54
76) 1,2,3-Trichloropropane	11.13	75	171190	22.179	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	10933	0.487	ug/l	100
81) trans-1,4-Dichloro-2-buten	11.13	75	171190	65.651	ug/l #	10
88) 1,4-Dichlorobenzene	12.08	146	869	0.213	ug/l #	1
90) Hexachloroethane	12.70	117	83	2.929	ug/l	91

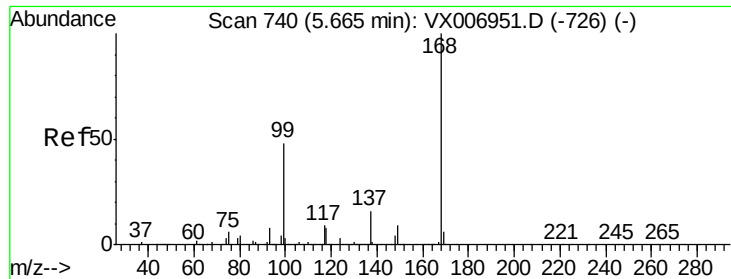
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX007241.D

Acq: 25 Jan 2019 20:41

Instrument :

MSVOA_X

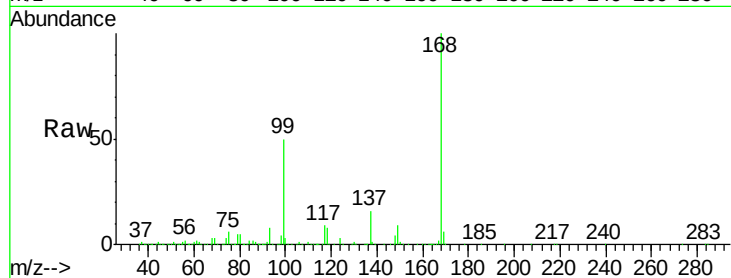
ClientSampleId :

Tot Ion:168 Resp: 534271

Ion Ratio Lower Upper

168 100

99 50.1 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

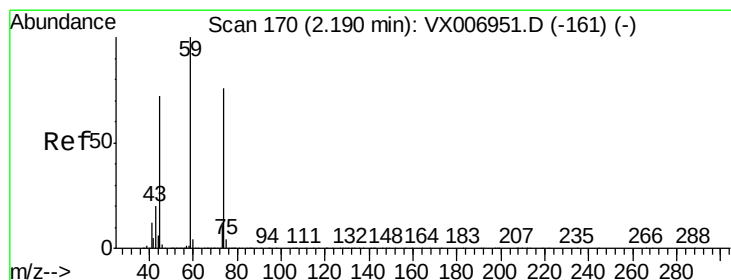
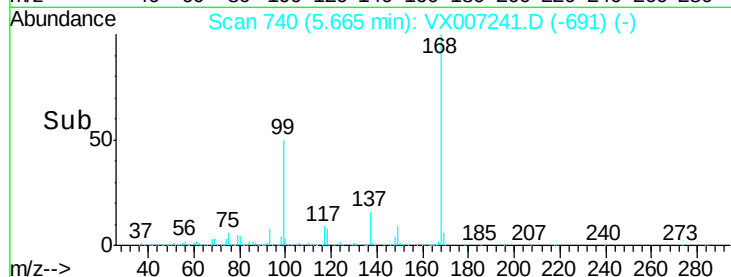
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 0.311 ug/l

RT: 2.20 min Scan# 171

Delta R.T. 0.01 min

Lab File: VX007241.D

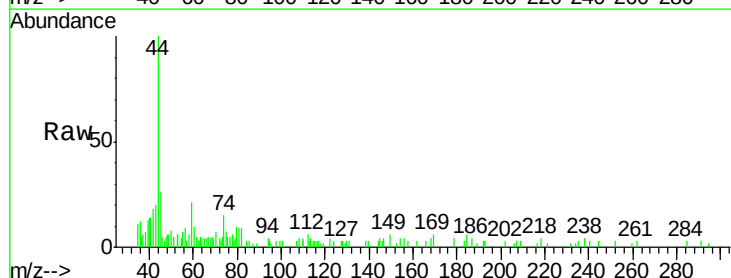
Acq: 25 Jan 2019 20:41

Tgt Ion: 74 Resp: 1098

Ion Ratio Lower Upper

74 100

45 55.8 46.3 138.9



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.20

800

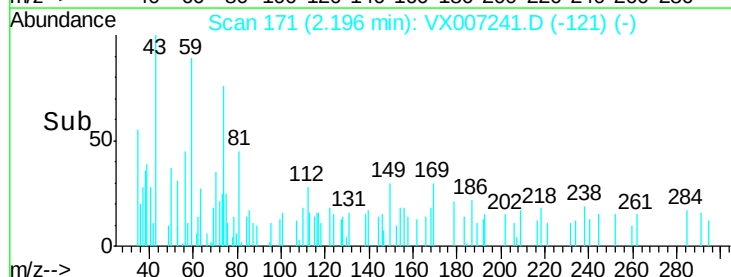
600

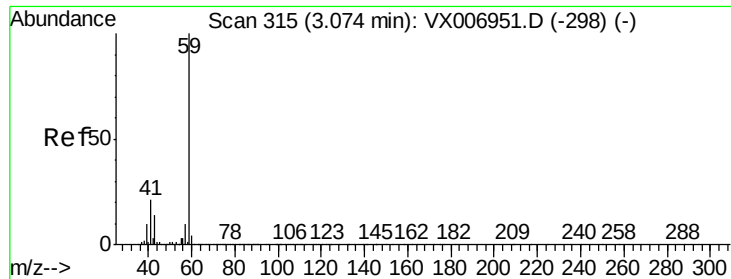
400

200

0

Time-->



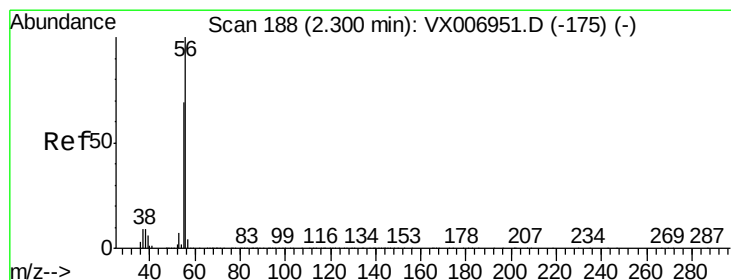
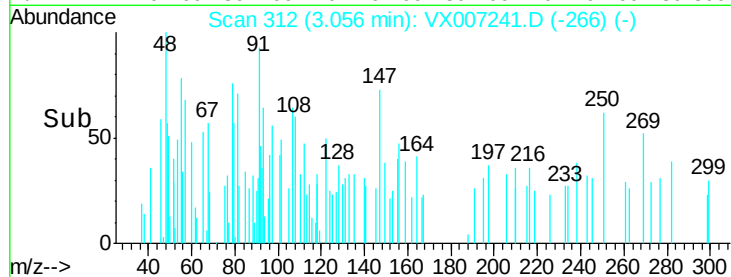
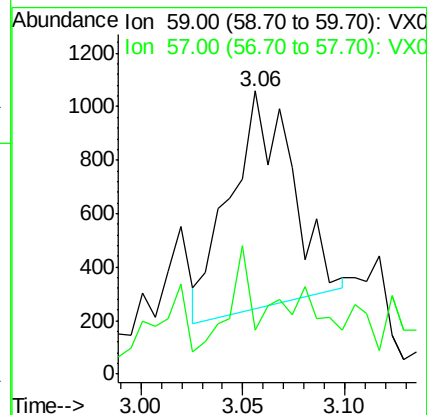
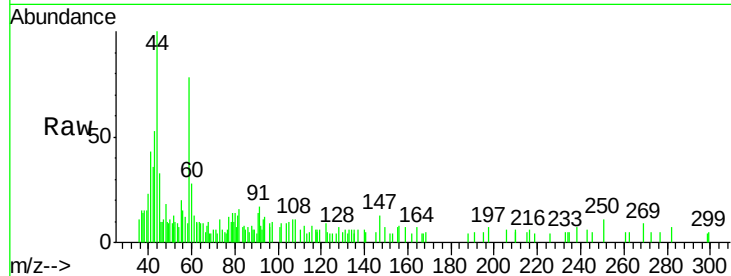


#11

Tert butyl alcohol
Concen: 1.281 ug/l
RT: 3.06 min Scan# 312
Delta R.T. -0.02 min
Lab File: VX007241.D
Acq: 25 Jan 2019 20:41

Instrument :
MSVOA_X
ClientSampled :

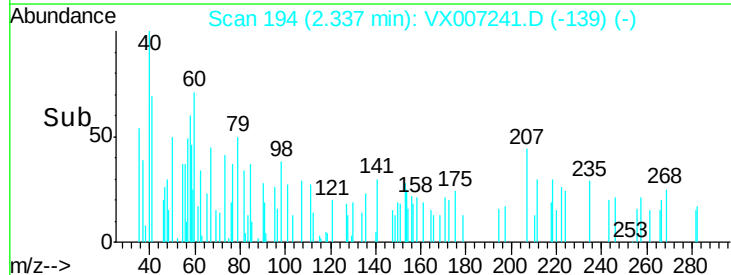
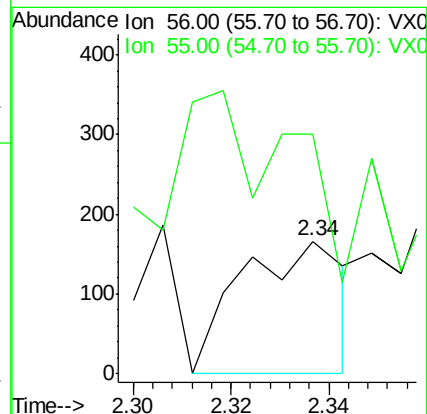
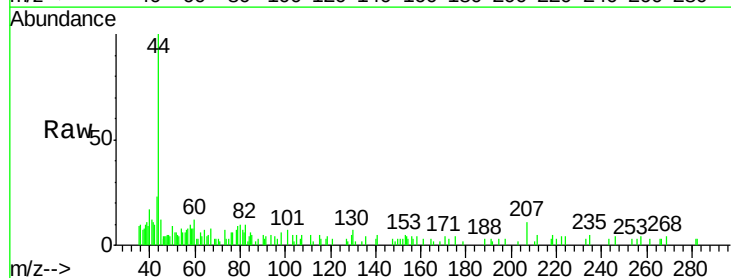
Tot Ion: 59 Resp: 1687
Ion Ratio Lower Upper
59 100
57 14.9 8.5 12.7#

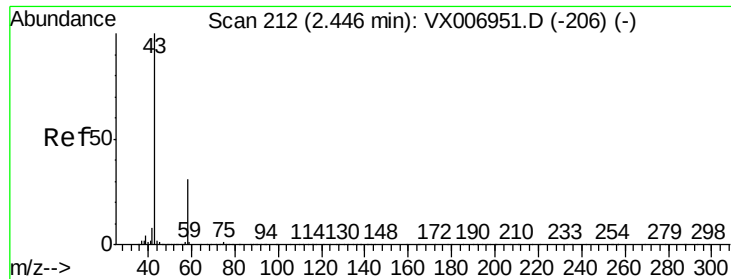


#13

Acrolein
Concen: 3.508 ug/l
RT: 2.34 min Scan# 194
Delta R.T. 0.04 min
Lab File: VX007241.D
Acq: 25 Jan 2019 20:41

Tgt Ion: 56 Resp: 244
Ion Ratio Lower Upper
56 100
55 157.8 58.2 87.4#

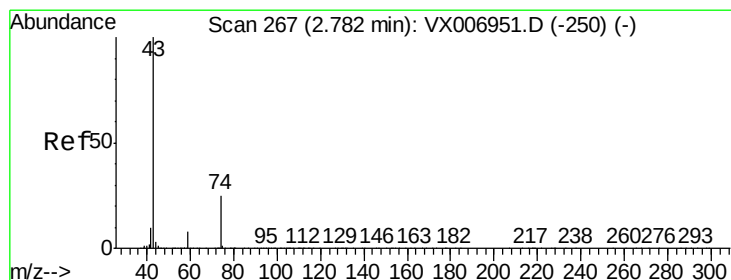
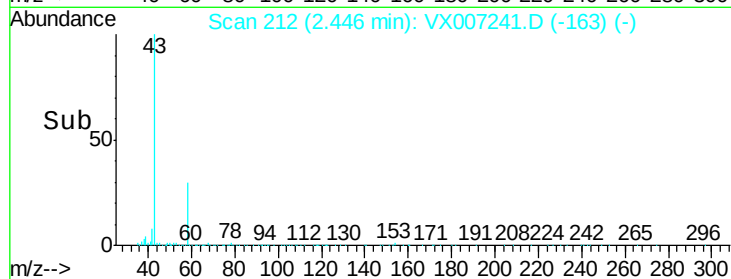
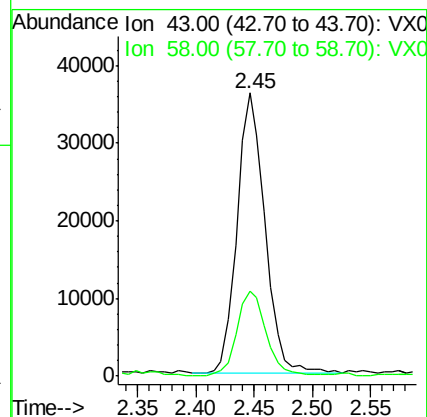
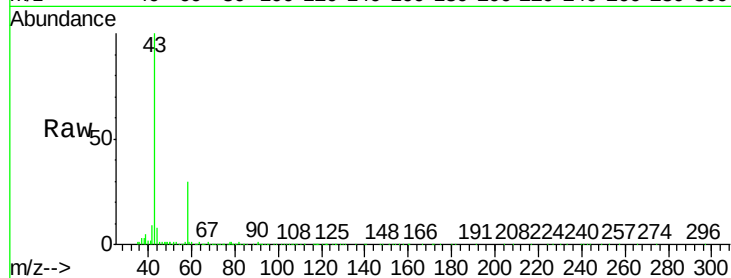




#16
Acetone
Concen: 21.959 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX007241.D
Acq: 25 Jan 2019 20:41

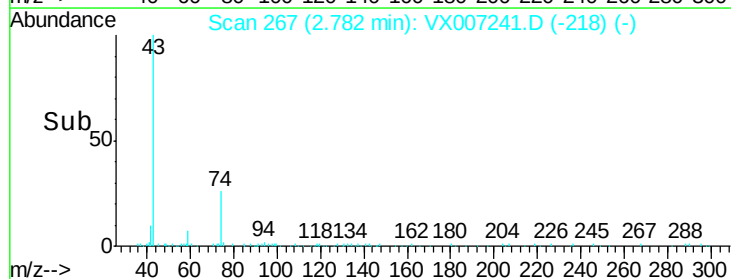
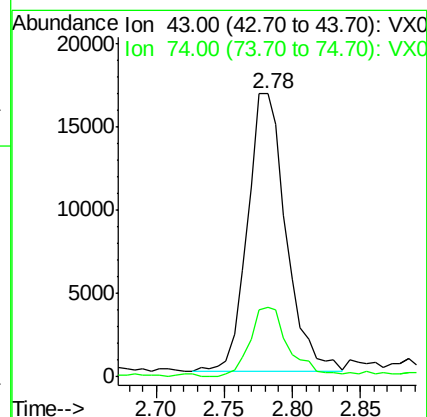
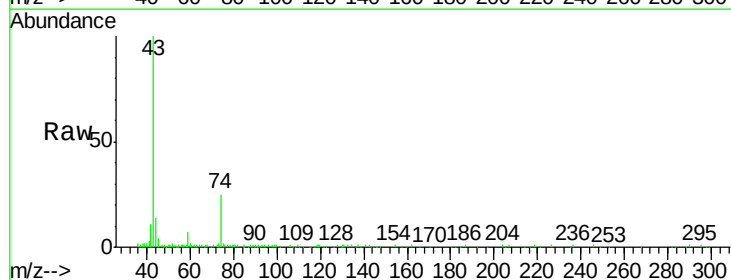
Instrument :
MSVOA_X
ClientSampleId :

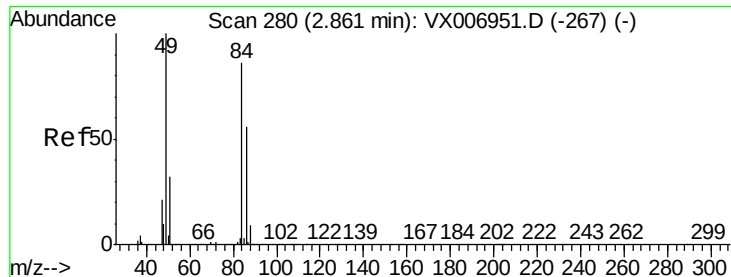
Tot Ion: 43 Resp: 60615
Ion Ratio Lower Upper
43 100
58 30.4 25.0 37.6



#18
Methyl Acetate
Concen: 4.158 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX007241.D
Acq: 25 Jan 2019 20:41

Tgt Ion: 43 Resp: 33239
Ion Ratio Lower Upper
43 100
74 25.3 18.6 28.0

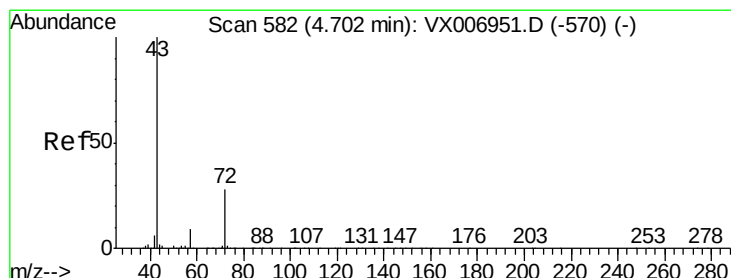
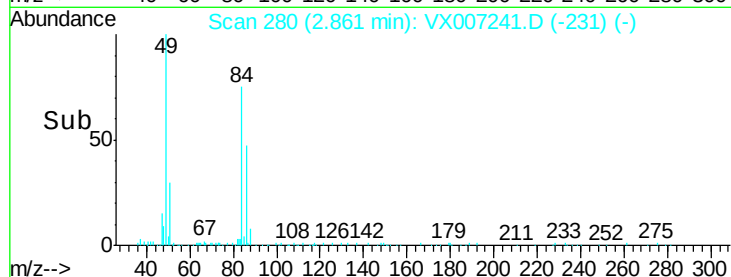
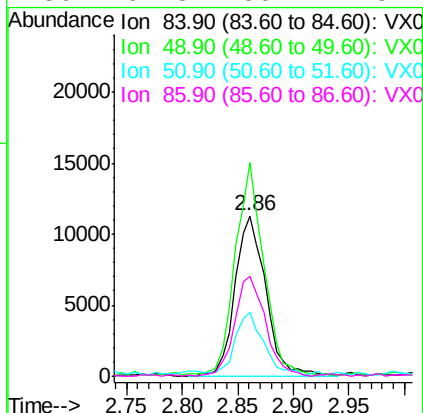
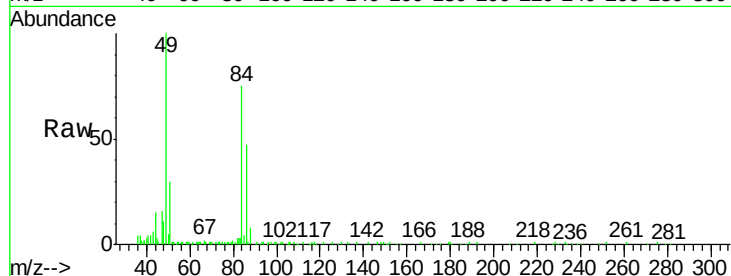




#20
Methvlene Chloride
Concen: 3.625 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007241.D
Acq: 25 Jan 2019 20:41

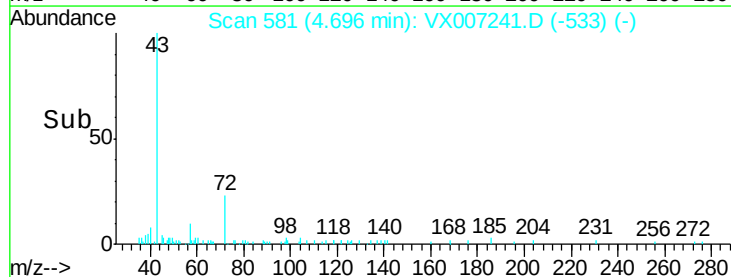
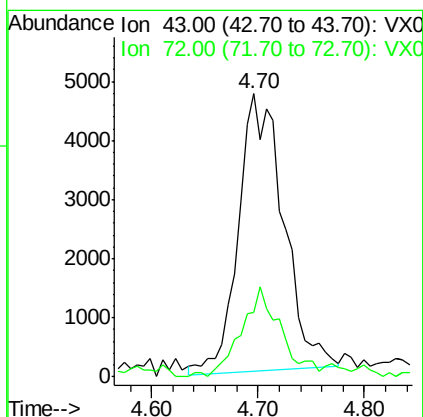
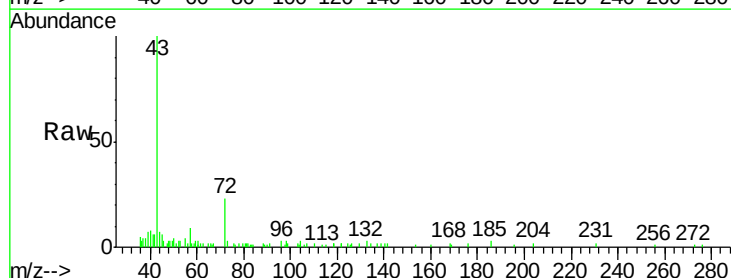
Instrument :
MSVOA_X
ClientSampleId :

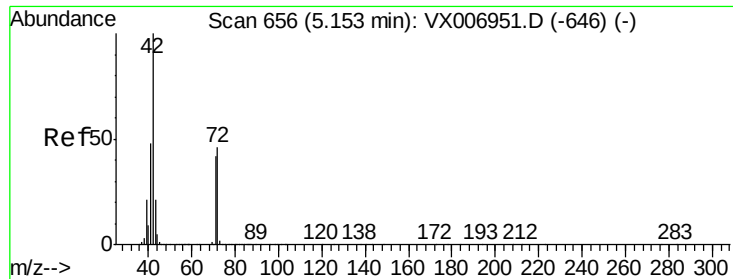
Tot Ion:	84	Resp:	21789
Ion	Ratio	Lower	Upper
84	100		
49	132.6	91.8	137.6
51	37.8	28.5	42.7
86	61.3	50.2	75.2



#25
2-Butanone
Concen: 3.528 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.01 min
Lab File: VX007241.D
Acq: 25 Jan 2019 20:41

Tgt Ion:	43	Resp:	13933
Ion	Ratio	Lower	Upper
43	100		
72	21.5	22.4	33.6#





#29

Tetrahydrofuran

Concen: 5.661 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX007241.D

Acq: 25 Jan 2019 20:41

Instrument :

MSVOA_X

ClientSampleId :

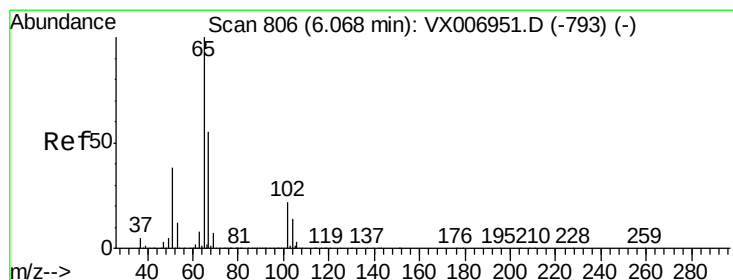
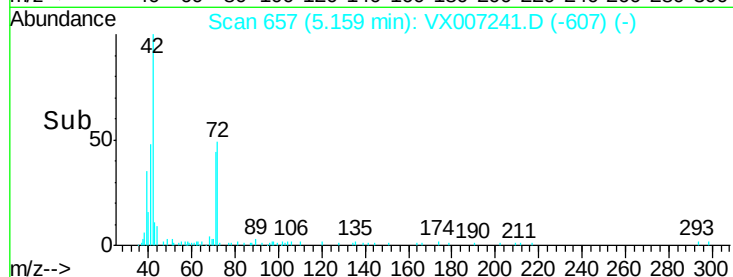
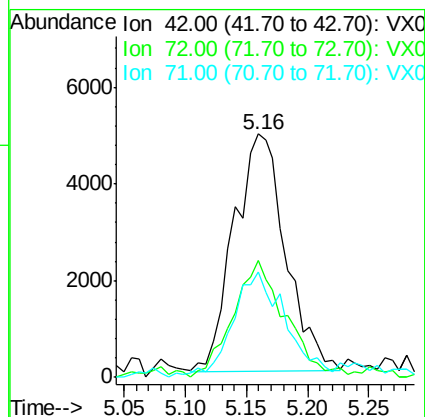
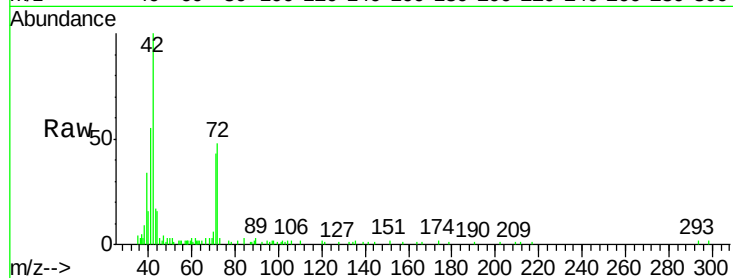
Tot Ion: 42 Resp: 14531

Ion Ratio Lower Upper

42 100

72 49.5 38.9 58.3

71 44.9 36.2 54.4



#33

1,2-Dichloroethane-d4

Concen: 52.238 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007241.D

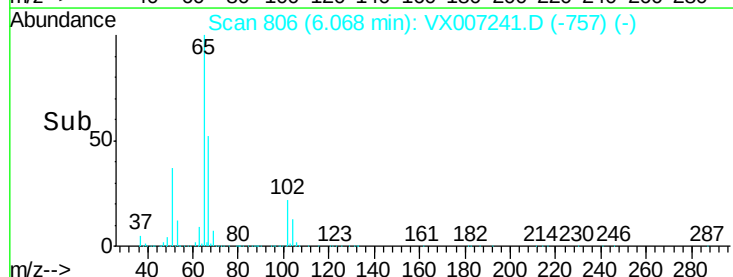
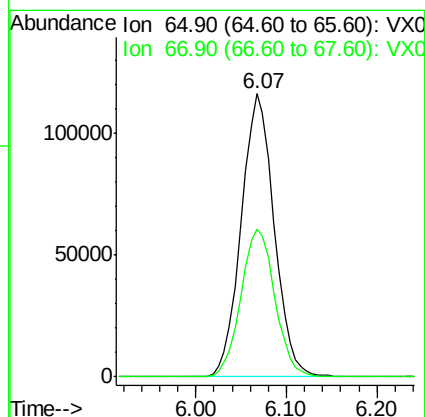
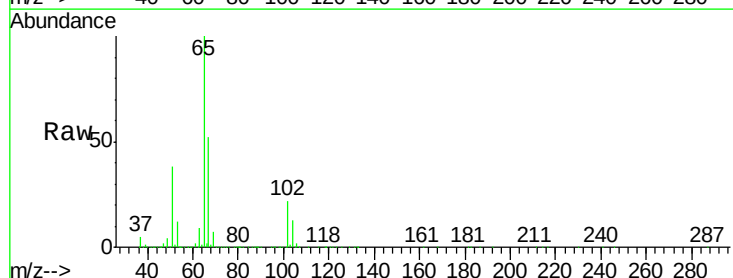
Acq: 25 Jan 2019 20:41

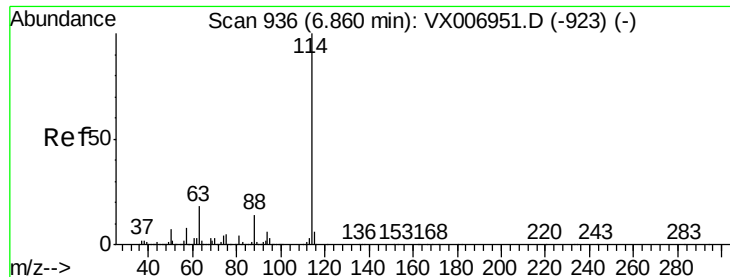
Tgt Ion: 65 Resp: 291674

Ion Ratio Lower Upper

65 100

67 53.8 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: VX007241.D

Acq: 25 Jan 2019 20:41

Instrument :

MSVOA_X

ClientSampleId :

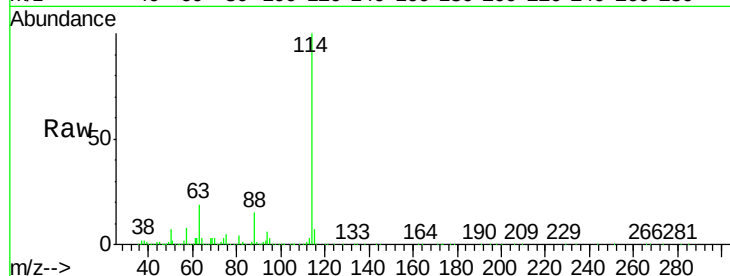
Tot Ion:114 Resp: 832304

Ion Ratio Lower Upper

114 100

63 18.8 0.0 34.8

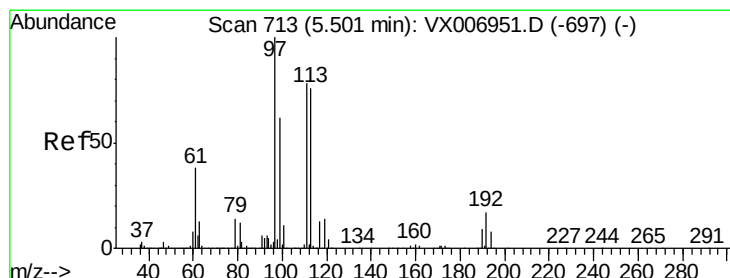
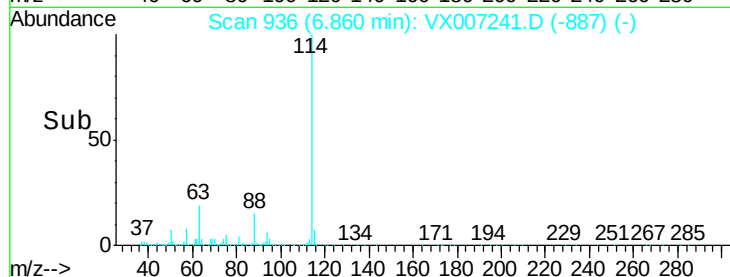
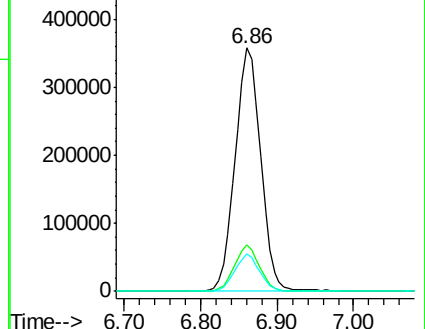
88 15.3 0.0 28.8



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: 49.212 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007241.D

Acq: 25 Jan 2019 20:41

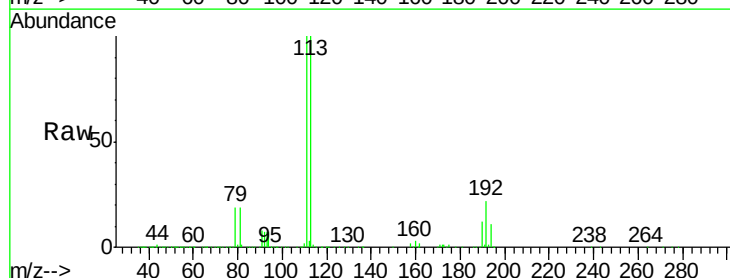
Tgt Ion:113 Resp: 262300

Ion Ratio Lower Upper

113 100

111 102.2 81.6 122.4

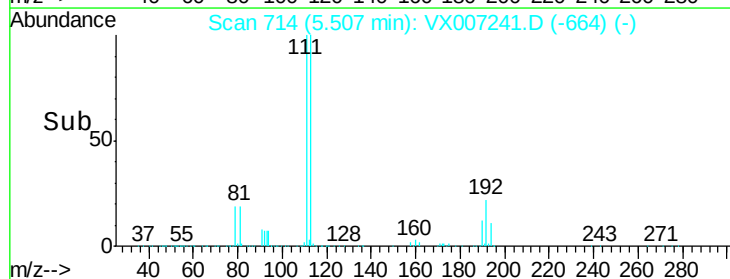
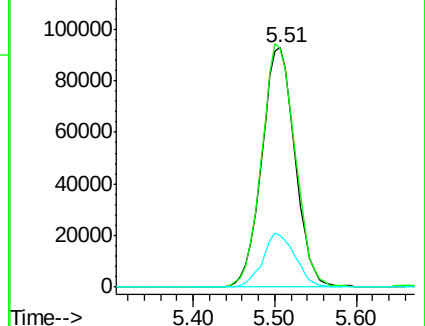
192 22.1 16.7 25.1

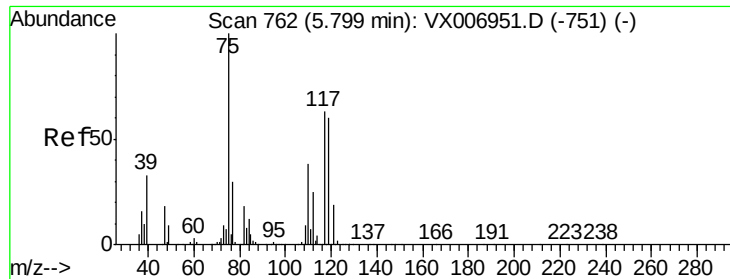


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

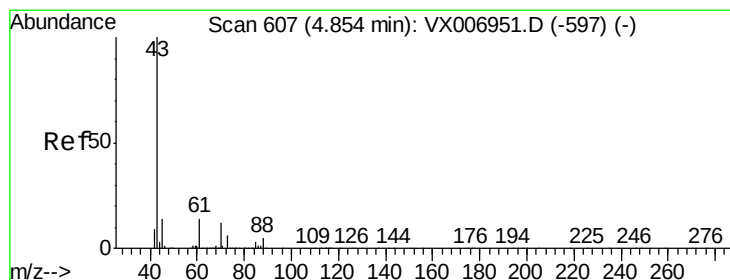
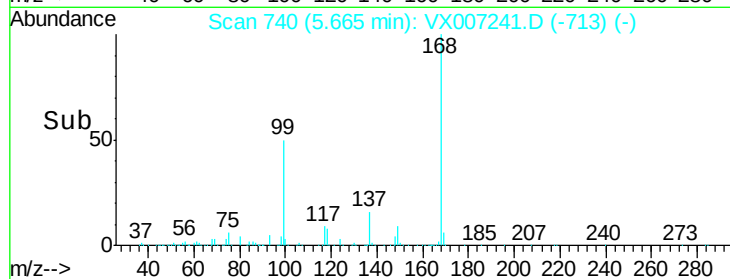
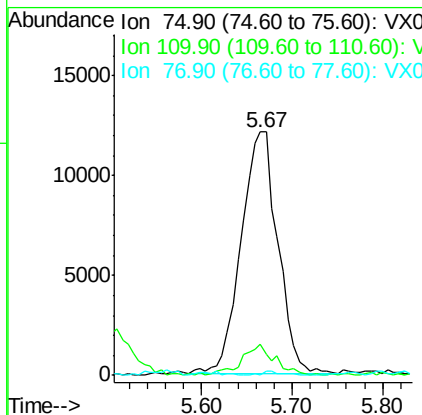
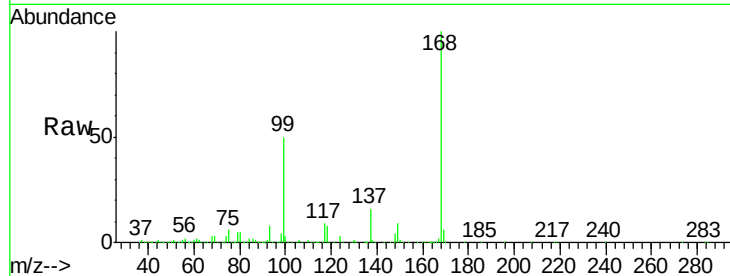




#36
 1,1-Dichloropropene
 Concen: 4.712 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX007241.D
 Acq: 25 Jan 2019 20:41

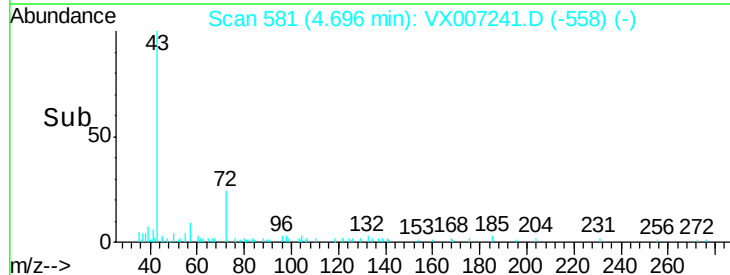
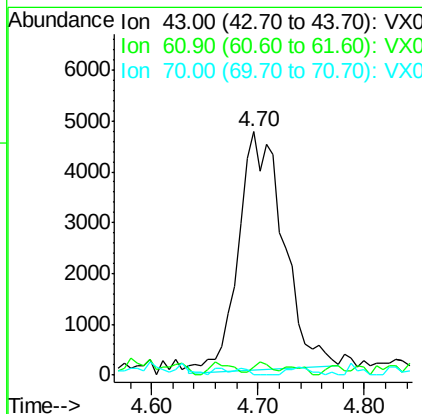
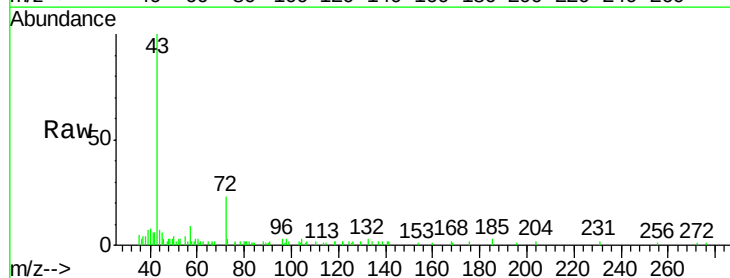
Instrument :
 MSVOA_X
 ClientSampleId :

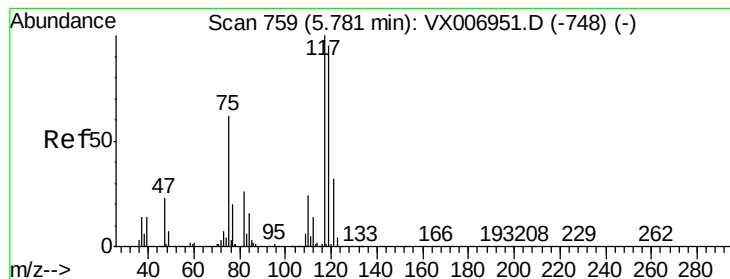
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.7	20.2	60.5#
77	1.0	24.8	37.2#



#37
 Ethyl Acetate
 Concen: 1.796 ug/l
 RT: 4.70 min Scan# 581
 Delta R.T. -0.16 min
 Lab File: VX007241.D
 Acq: 25 Jan 2019 20:41

Tgt Ion	Ratio	Lower	Upper
43	100		
61	1.4	11.9	17.9#
70	0.9	9.7	14.5#





#38

Carbon Tetrachloride

Concen: 6.468 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007241.D

Acq: 25 Jan 2019 20:41

Instrument :

MSVOA_X

ClientSampleId :

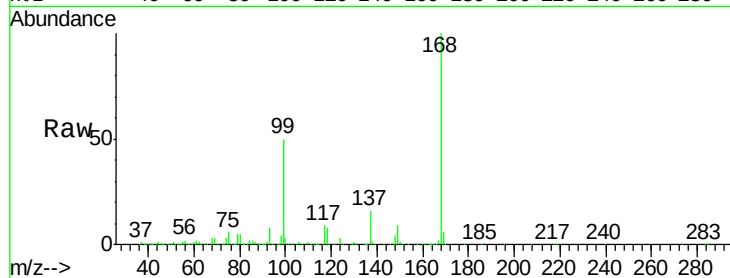
Tot Ion:117 Resp: 47092

Ion Ratio Lower Upper

117 100

119 4.6 79.4 119.2#

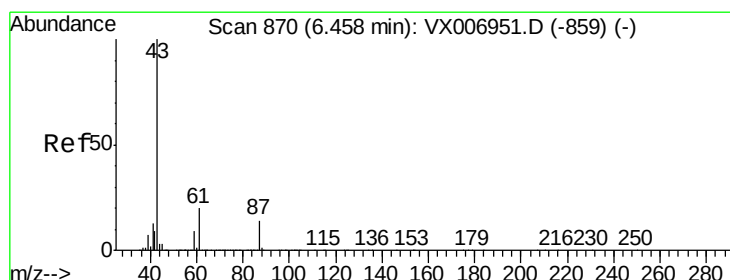
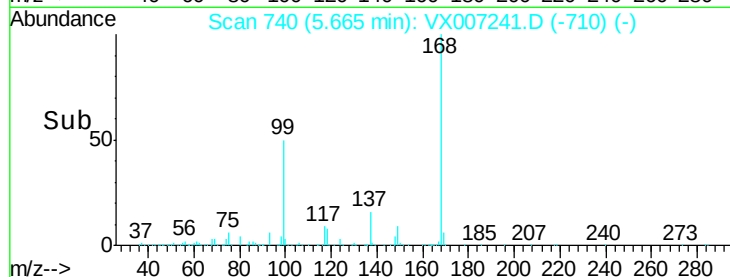
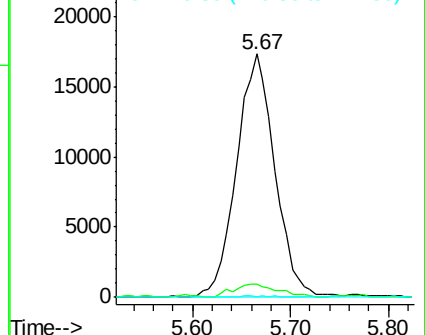
121 0.3 24.0 36.0#



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: 2.388 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX007241.D

Acq: 25 Jan 2019 20:41

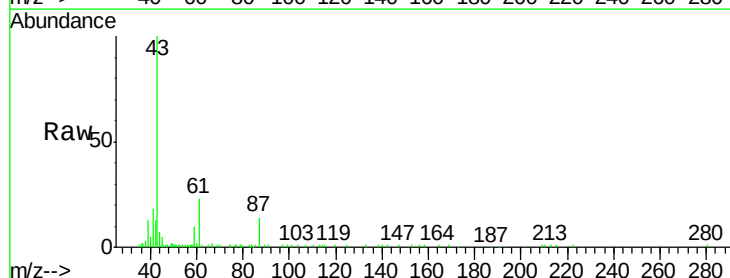
Tgt Ion: 43 Resp: 29228

Ion Ratio Lower Upper

43 100

61 22.9 16.8 25.2

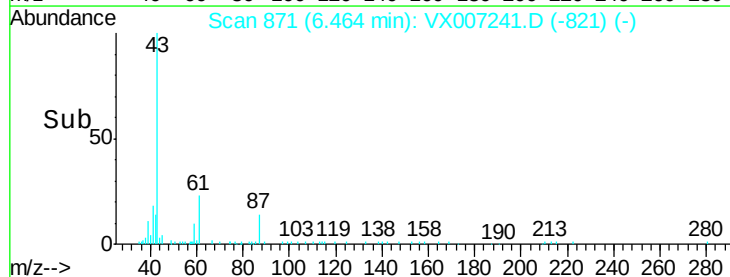
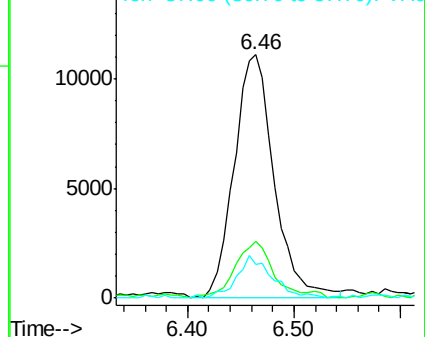
87 15.5 12.4 18.6

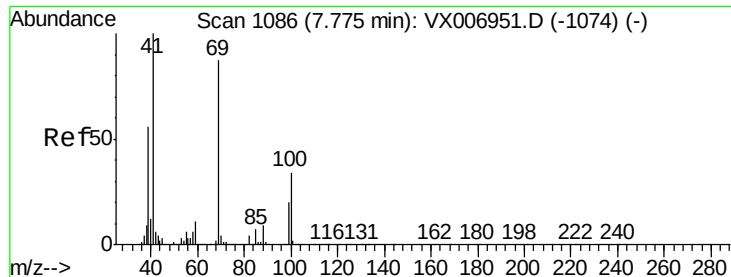


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 2.236 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007241.D

Acq: 25 Jan 2019 20:41

Instrument :

MSVOA_X

ClientSampleId :

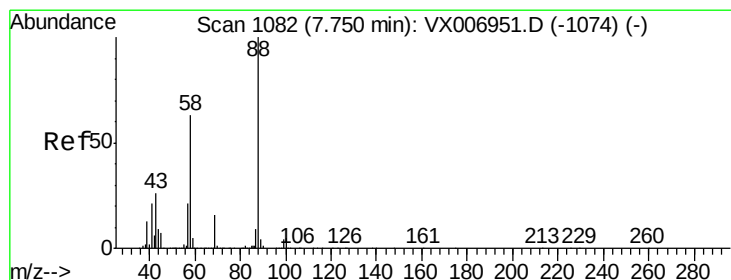
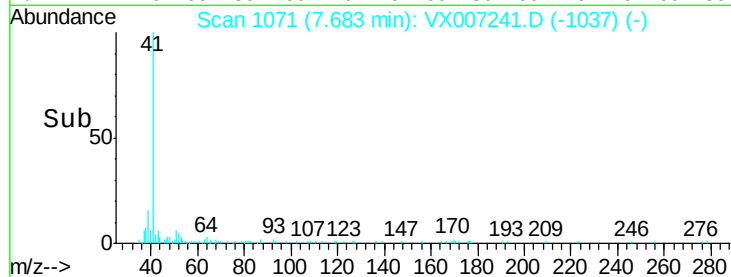
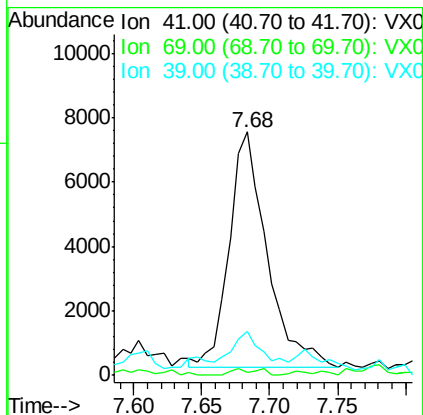
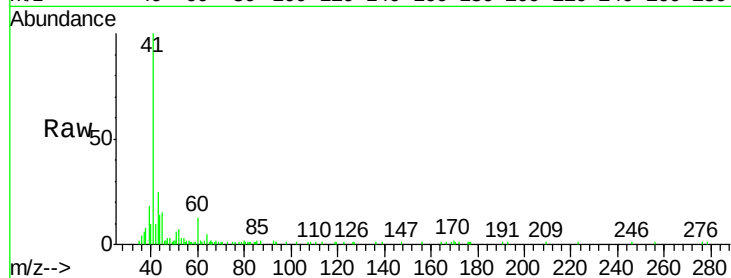
Tot Ion: 41 Resp: 14053

Ion Ratio Lower Upper

41 100

69 2.0 72.4 108.6#

39 0.0 45.8 68.8#



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX007241.D

Acq: 25 Jan 2019 20:41

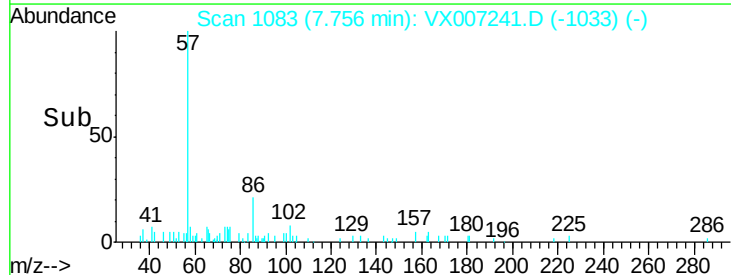
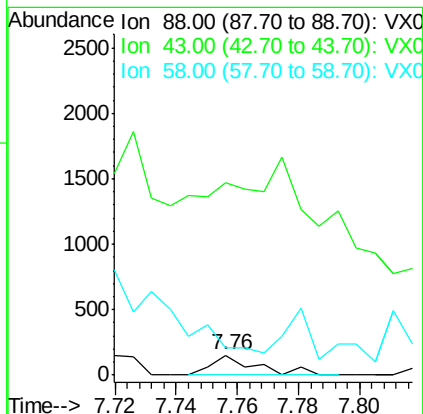
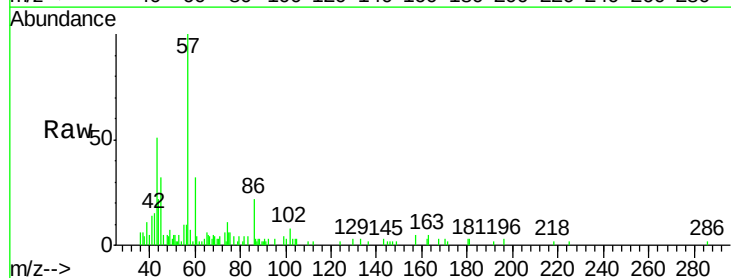
Tgt Ion: 88 Resp: 154

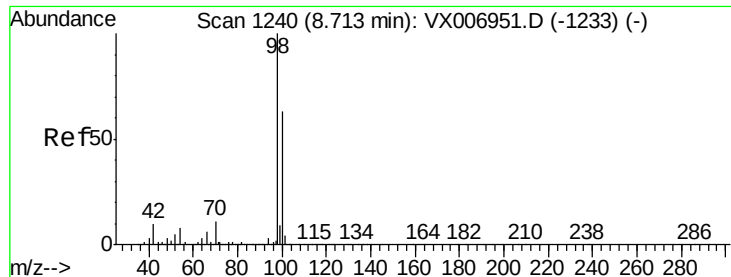
Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

58 0.0 51.0 76.4#

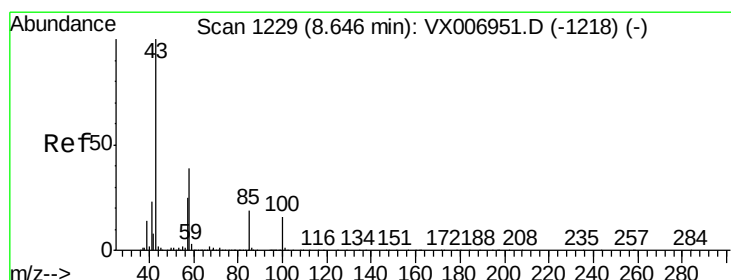
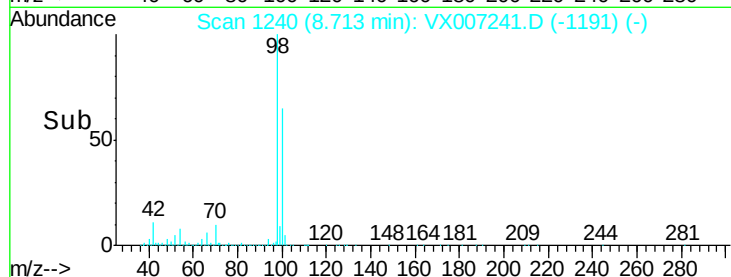
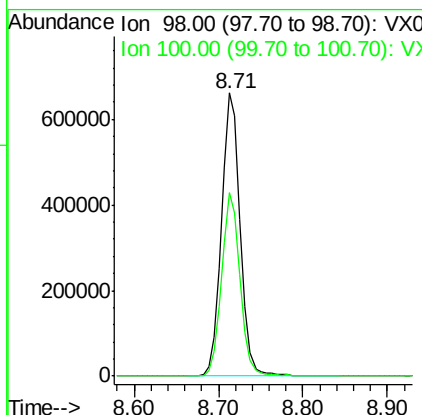
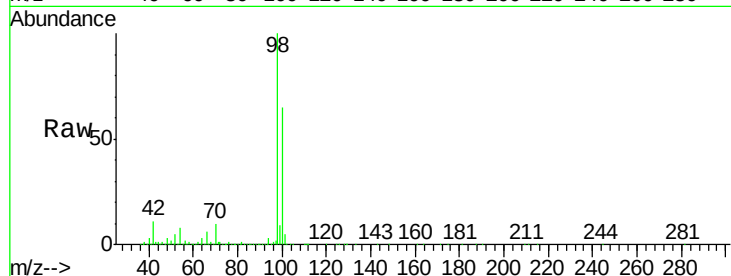




#50
Toluene-d8
Concen: 52.119 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX007241.D
Acq: 25 Jan 2019 20:41

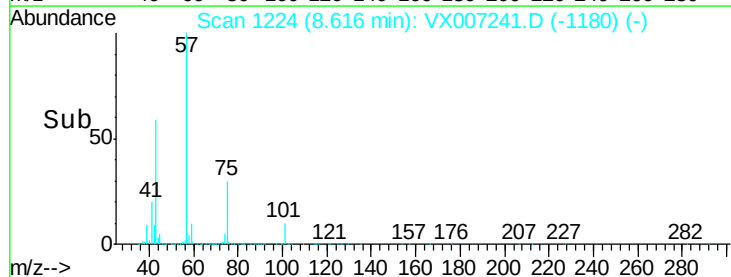
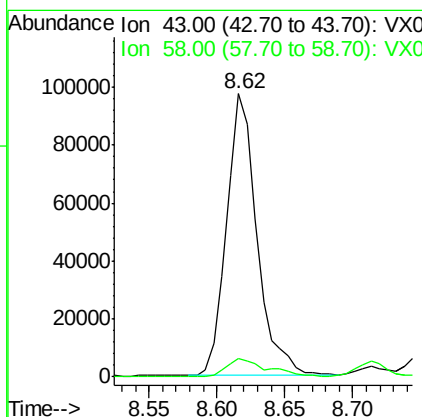
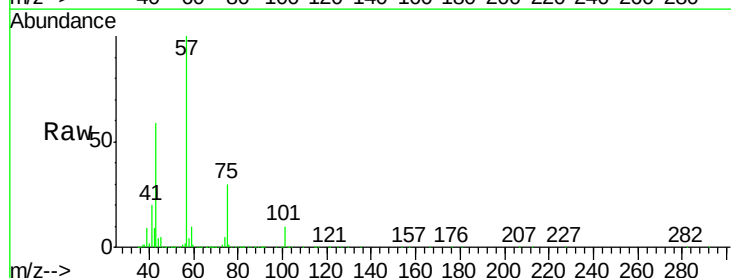
Instrument :
MSVOA_X
ClientSampleId :

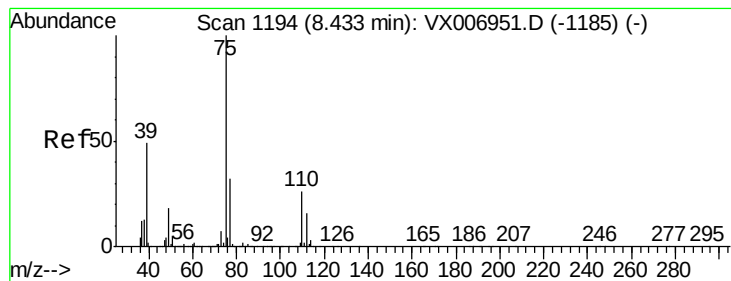
Tot Ion: 98 Resp: 1016824
Ion Ratio Lower Upper
98 100
100 63.8 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 19.279 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.03 min
Lab File: VX007241.D
Acq: 25 Jan 2019 20:41

Tgt Ion: 43 Resp: 151614
Ion Ratio Lower Upper
43 100
58 9.0 31.8 47.6#



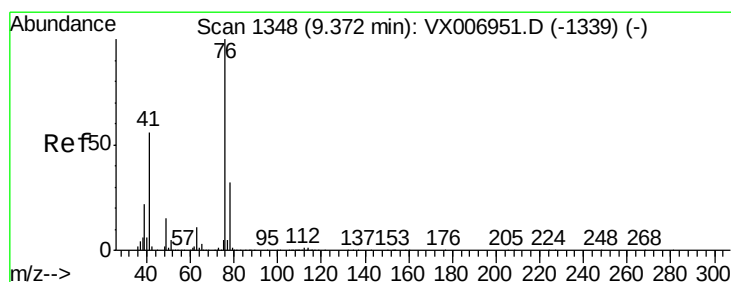
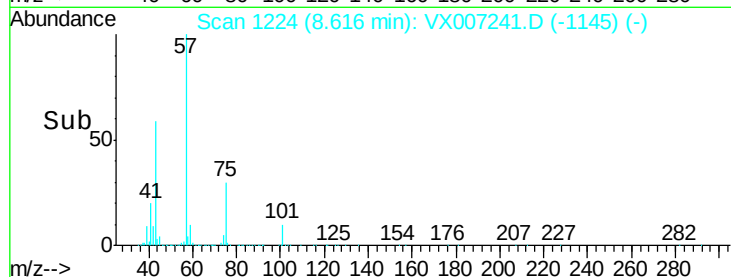
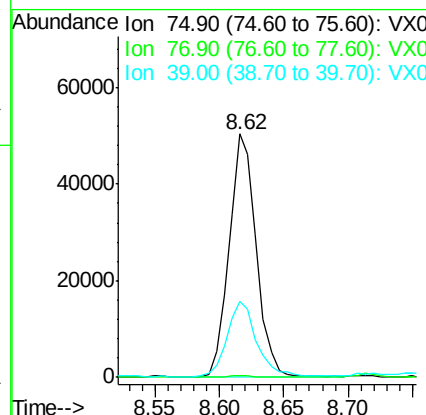
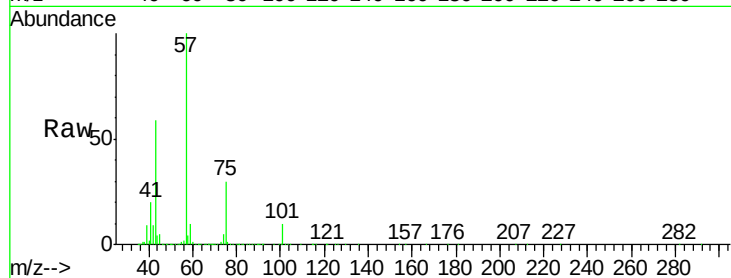


#54

cis-1,3-Dichloropropene
 Concen: 9.220 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX007241.D
 Acq: 25 Jan 2019 20:41

Instrument :
 MSVOA_X
 ClientSampleId :

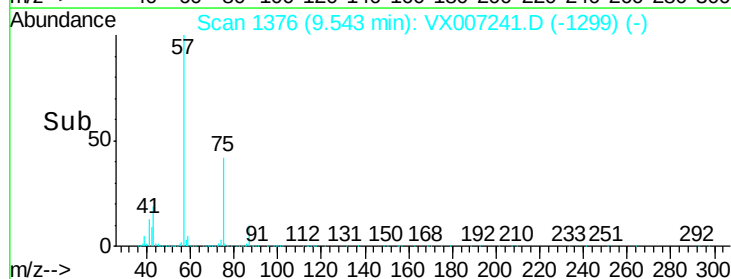
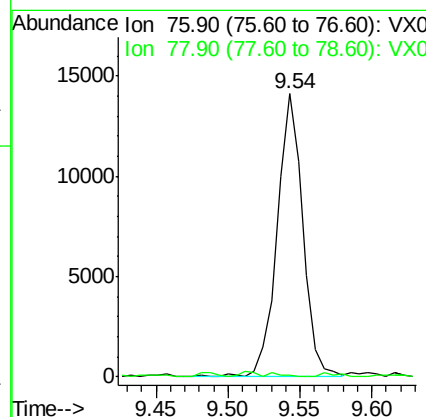
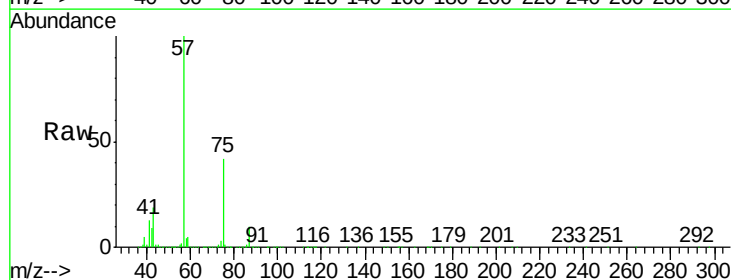
Tot Ion: 75 Resp: 74977
 Ion Ratio Lower Upper
 75 100
 77 0.7 26.2 39.2#
 39 30.7 36.7 55.1#

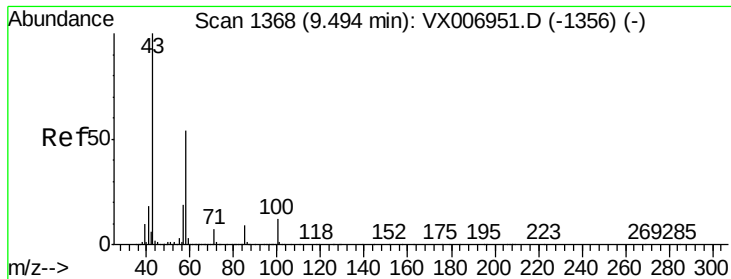


#57

1,3-Dichloropropane
 Concen: 1.886 ug/l
 RT: 9.54 min Scan# 1376
 Delta R.T. 0.17 min
 Lab File: VX007241.D
 Acq: 25 Jan 2019 20:41

Tgt Ion: 76 Resp: 17553
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#





#59

2-Hexanone

Concen: 39.934 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007241.D

Acq: 25 Jan 2019 20:41

Instrument :

MSVOA_X

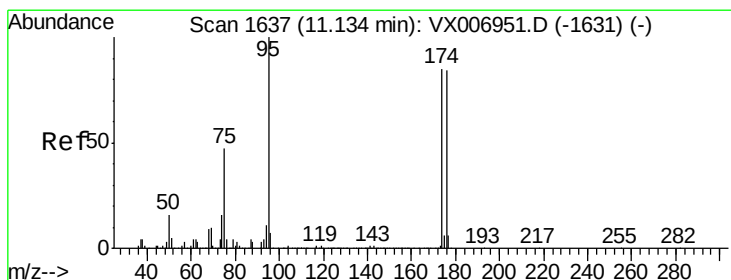
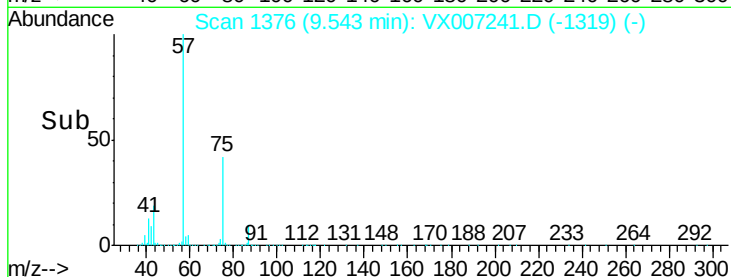
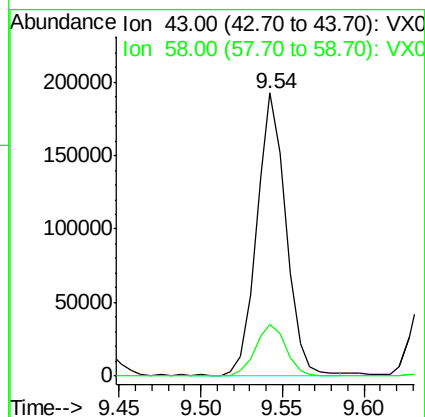
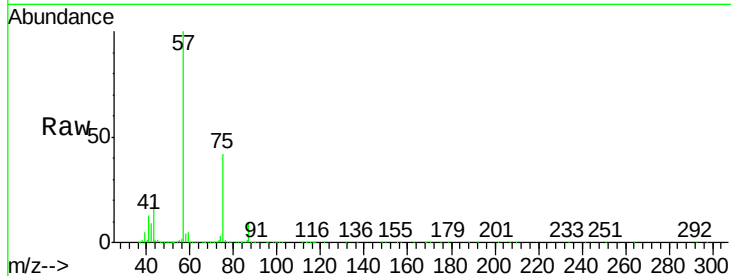
ClientSampled :

Tot Ion: 43 Resp: 239321

Ion Ratio Lower Upper

43 100

58 19.6 27.7 83.1#



#62

4-Bromofluorobenzene

Concen: 51.918 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007241.D

Acq: 25 Jan 2019 20:41

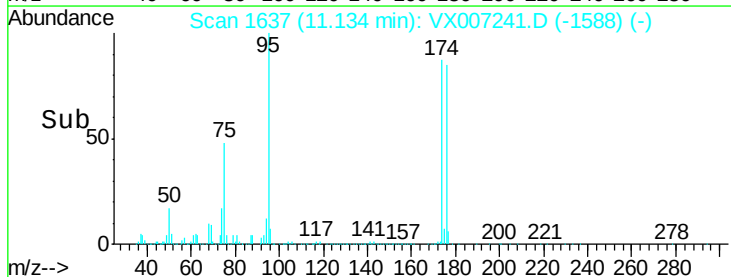
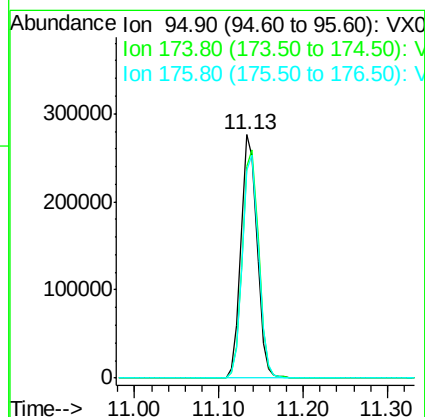
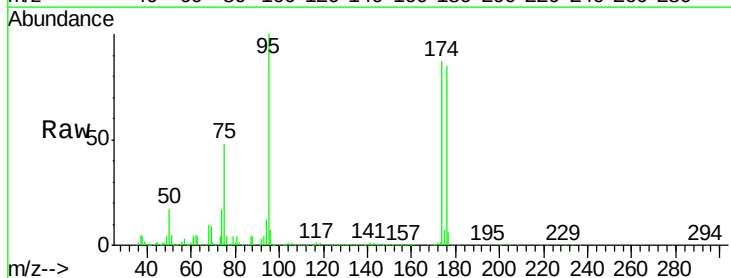
Tgt Ion: 95 Resp: 353117

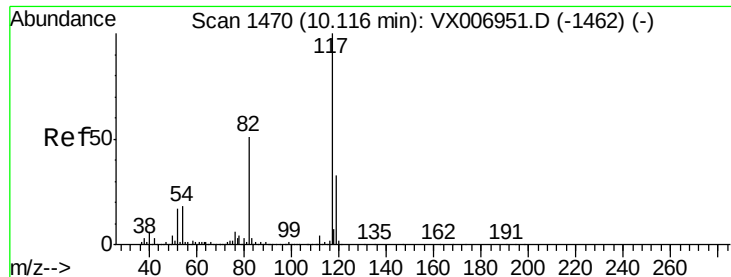
Ion Ratio Lower Upper

95 100

174 93.9 0.0 182.2

176 91.4 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: VX007241.D

Acq: 25 Jan 2019 20:41

Instrument :

MSVOA_X

ClientSampleId :

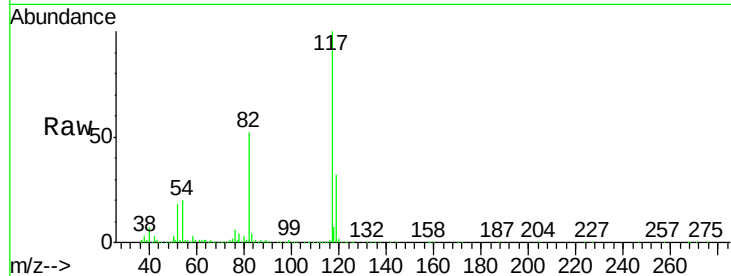
Tot Ion:117 Resp: 798423

Ion Ratio Lower Upper

117 100

82 52.3 41.0 61.6

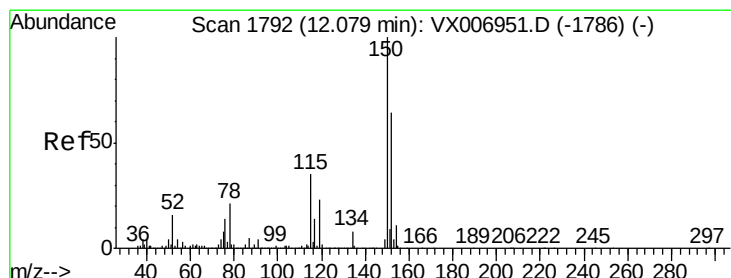
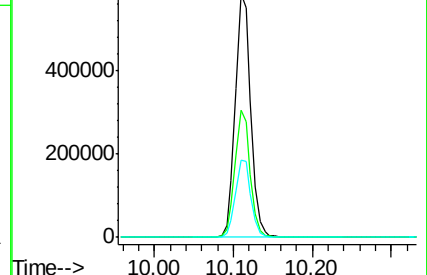
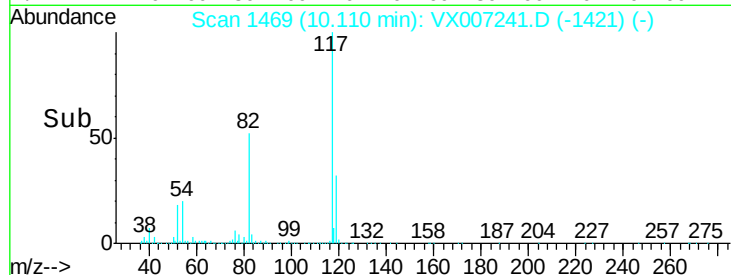
119 31.9 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

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: VX007241.D

Acq: 25 Jan 2019 20:41

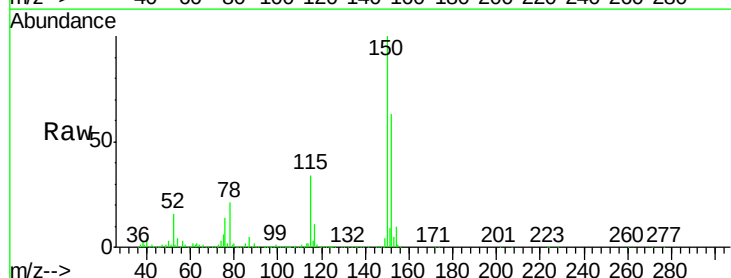
Tgt Ion:152 Resp: 380893

Ion Ratio Lower Upper

152 100

115 54.4 39.1 117.2

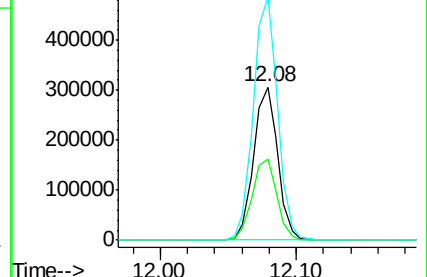
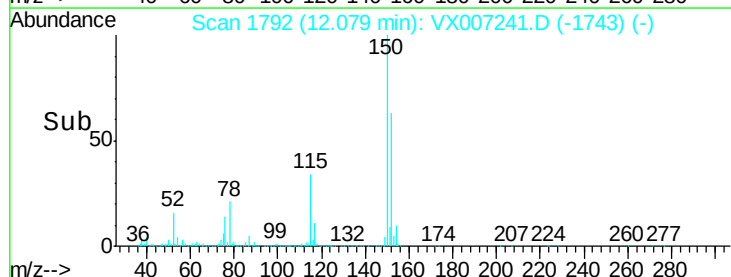
150 159.4 0.0 344.8

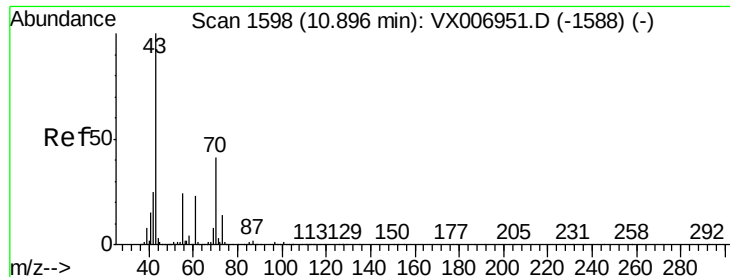


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.207 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX007241.D

Acq: 25 Jan 2019 20:41

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 43 Resp: 23862

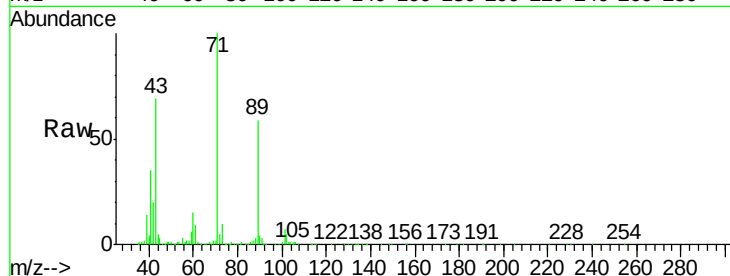
Ion Ratio Lower Upper

43 100

70 3.9 35.8 53.8#

55 5.3 19.4 29.0#

61 12.5 20.1 30.1#

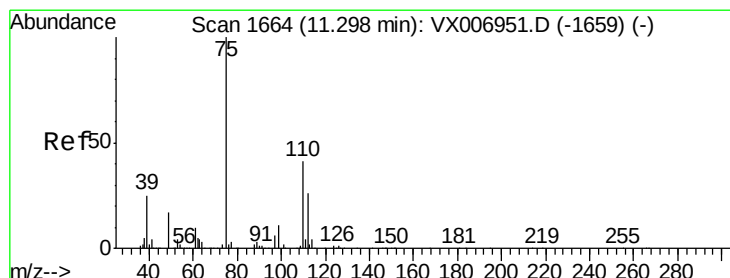
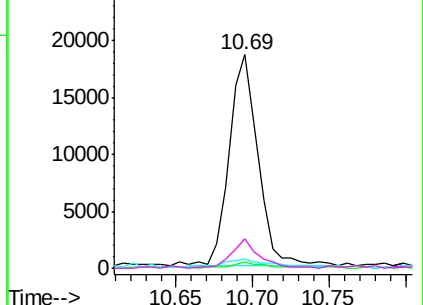
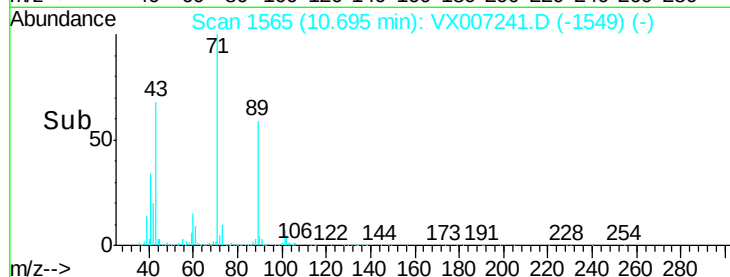


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 22.179 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007241.D

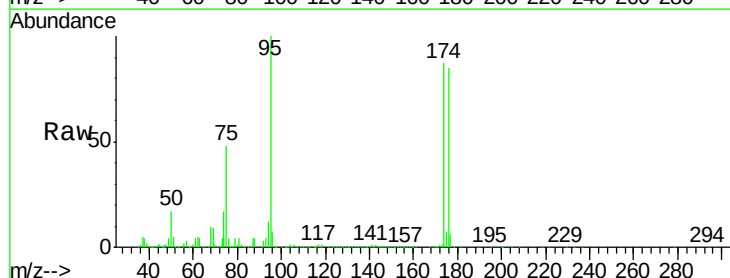
Acq: 25 Jan 2019 20:41

Tgt Ion: 75 Resp: 171190

Ion Ratio Lower Upper

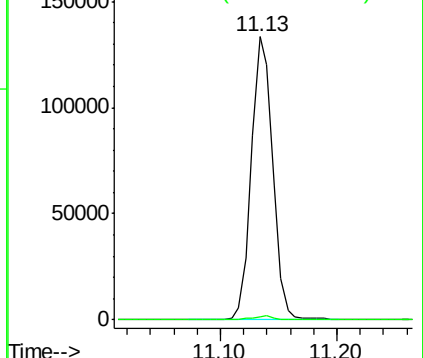
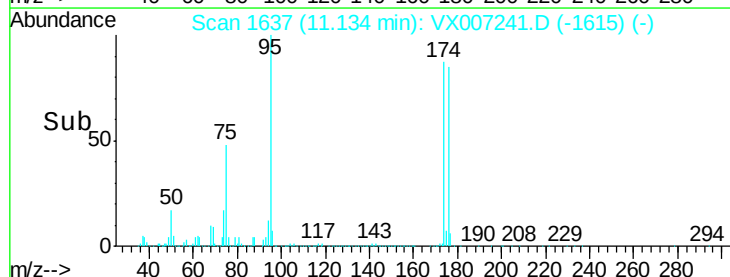
75 100

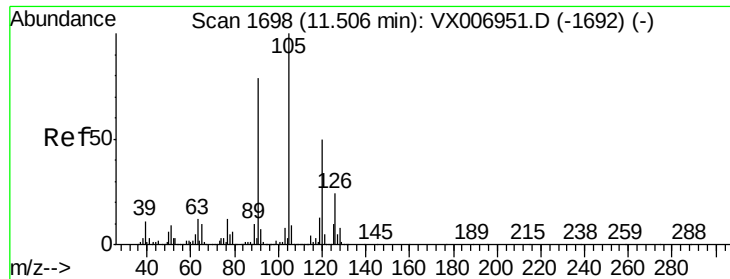
77 1.5 18.5 55.5#



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: 0.487 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX007241.D

Acq: 25 Jan 2019 20:41

Instrument :

MSVOA_X

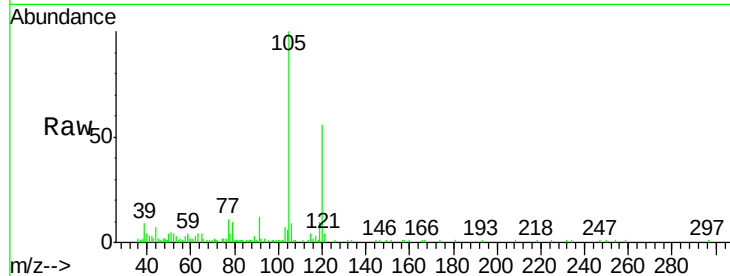
ClientSampleId :

Tot Ion:105 Resp: 10933

Ion Ratio Lower Upper

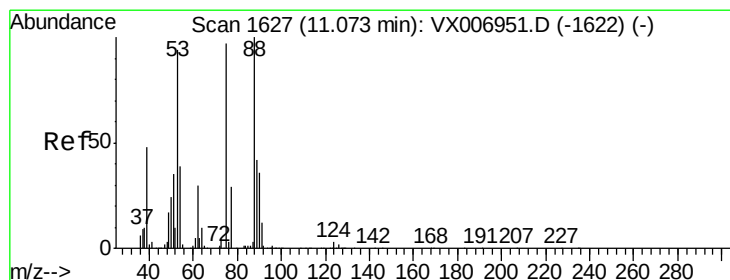
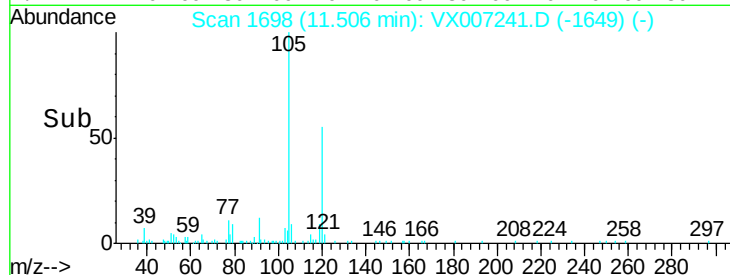
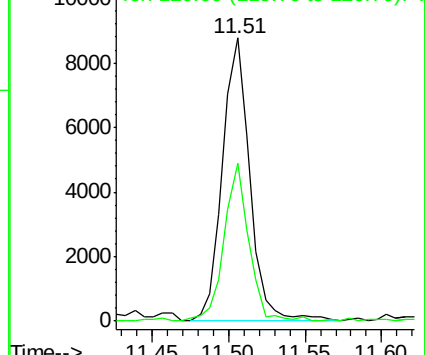
105 100

120 50.5 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: 65.651 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007241.D

Acq: 25 Jan 2019 20:41

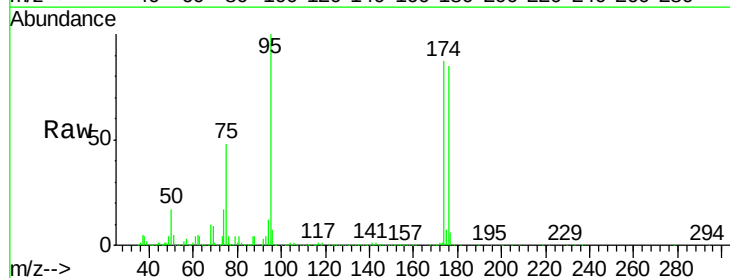
Tgt Ion: 75 Resp: 171190

Ion Ratio Lower Upper

75 100

53 0.2 79.7 119.5#

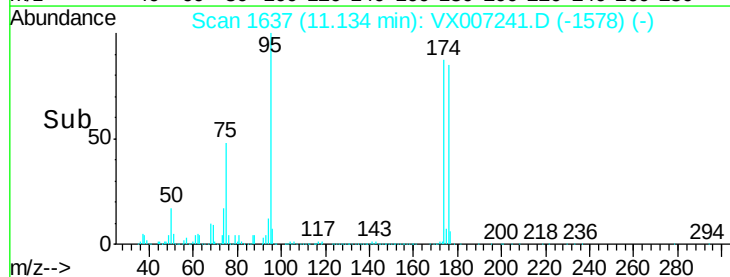
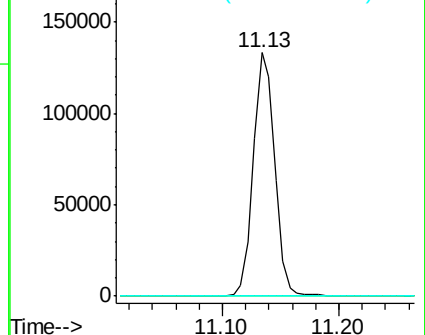
89 0.0 38.0 57.0#

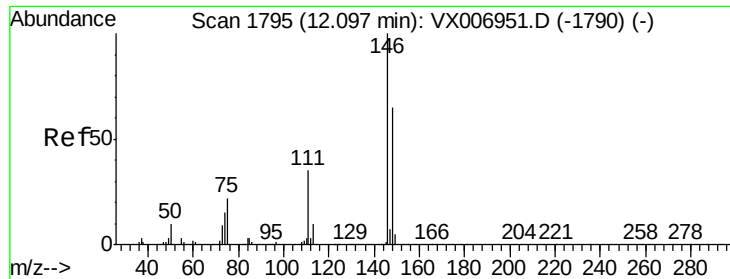


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#88

1,4-Dichlorobenzene

Concen: 0.213 ug/l

RT: 12.08 min Scan# 1793

Delta R.T. -0.01 min

Lab File: VX007241.D

Acq: 25 Jan 2019 20:41

Instrument :

MSVOA_X

ClientSampleId :

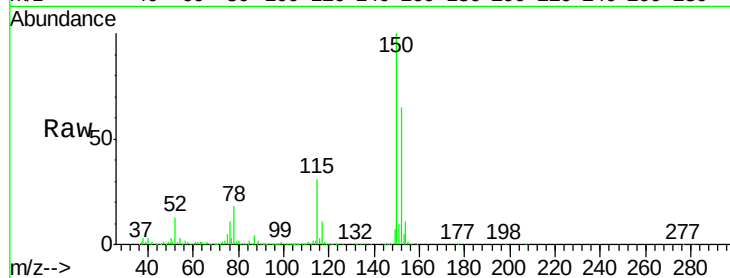
Tot Ion:146 Resp: 869

Ion Ratio Lower Upper

146 100

111 627.7 18.1 54.1#

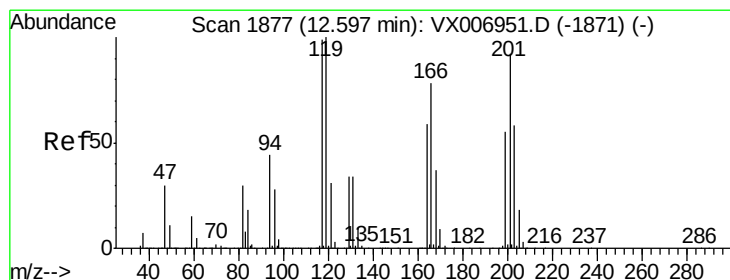
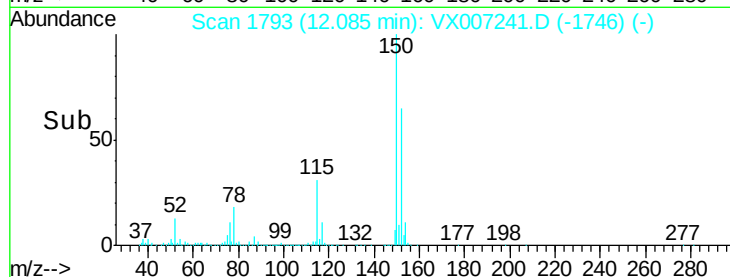
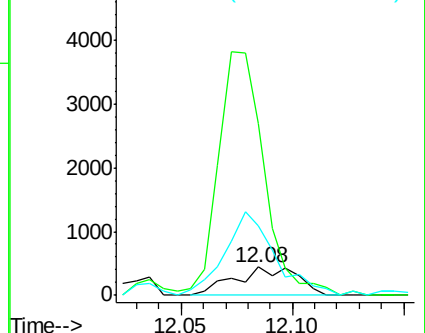
148 239.2 31.9 95.9#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#90

Hexachloroethane

Concen: 2.929 ug/l

RT: 12.70 min Scan# 1894

Delta R.T. 0.10 min

Lab File: VX007241.D

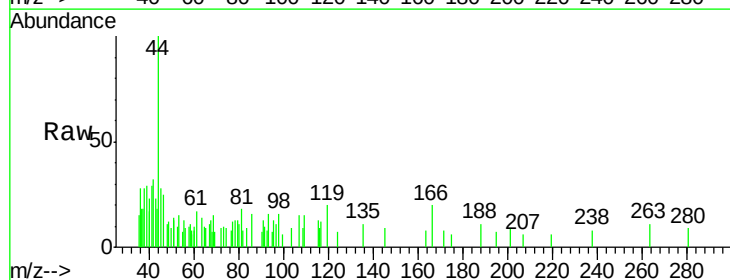
Acq: 25 Jan 2019 20:41

Tgt Ion:117 Resp: 83

Ion Ratio Lower Upper

117 100

201 94.0 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

