

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX013019\
 Data File : VX007319.D
 Acq On : 30 Jan 2019 17:11
 Operator : JC/SP
 Sample : K1282-20
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-5

Quant Time: Jan 31 00:25:11 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	512466	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	799453	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	774972	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	375182	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	275024	51.35	ug/l	0.00
Spiked Amount			Recovery	=	102.70%	
35) Dibromofluoromethane	5.50	113	248646	48.57	ug/l	0.00
Spiked Amount			Recovery	=	97.14%	
50) Toluene-d8	8.71	98	969931	51.76	ug/l	0.00
Spiked Amount			Recovery	=	103.52%	
62) 4-Bromofluorobenzene	11.13	95	346588	53.05	ug/l	0.00
Spiked Amount			Recovery	=	106.10%	

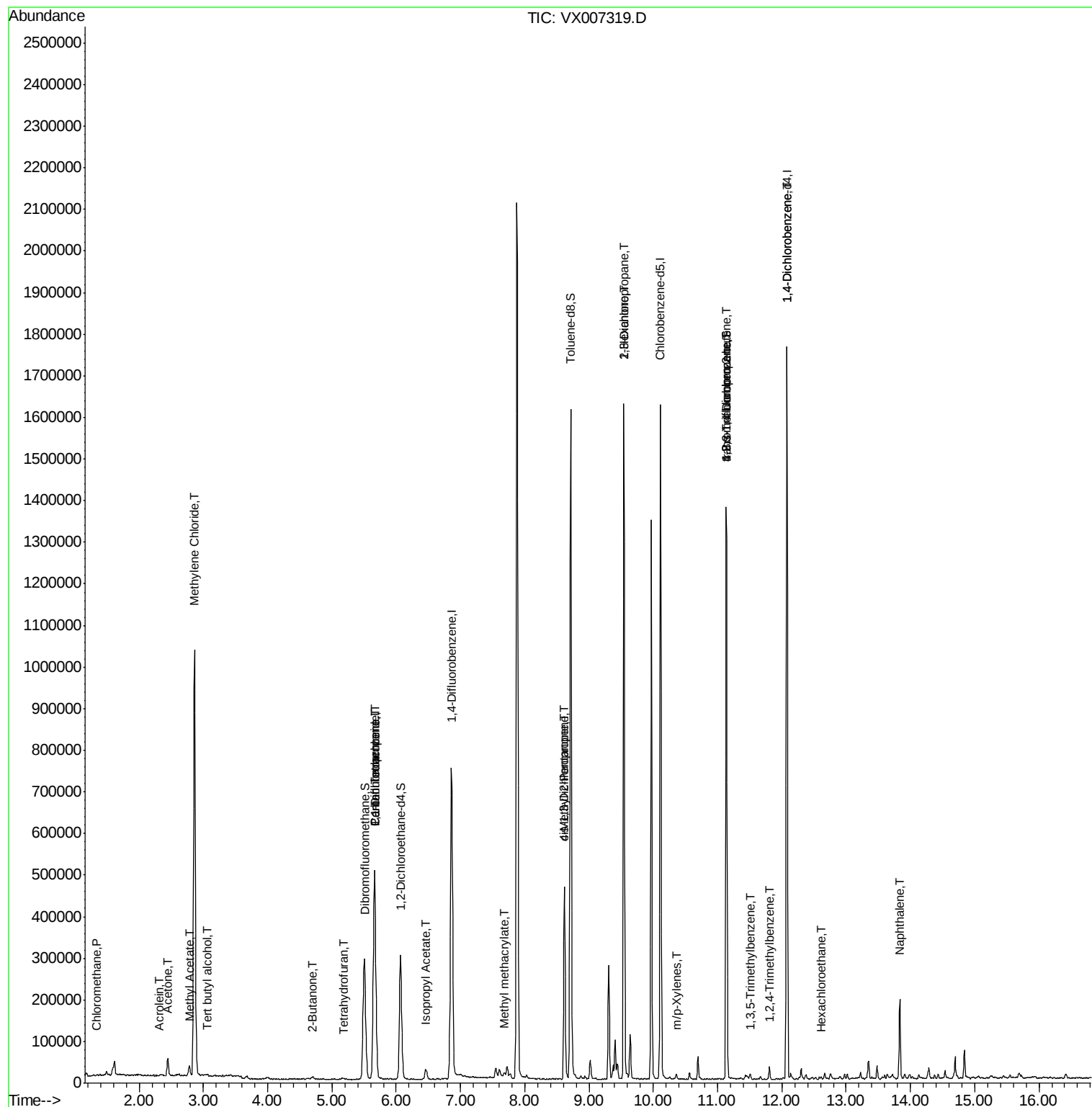
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1300	0.265	ug/l #	67
11) Tert butyl alcohol	3.07	59	3258	2.579	ug/l	99
13) Acrolein	2.31	56	1098	5.074	ug/l #	13
16) Acetone	2.45	43	44779	16.912	ug/l	98
18) Methyl Acetate	2.78	43	30041	3.918	ug/l	97
20) Methylene Chloride	2.86	84	479088	95.651	ug/l	95
25) 2-Butanone	4.71	43	10616	2.802	ug/l #	86
29) Tetrahydrofuran	5.18	42	3225	1.310	ug/l #	84
36) 1,1-Dichloropropene	5.67	75	31899	4.589	ug/l #	50
38) Carbon Tetrachloride	5.66	117	45891	6.562	ug/l #	14
43) Isopropyl Acetate	6.46	43	31905	2.714	ug/l	98
48) Methyl methacrylate	7.68	41	16777	2.779	ug/l #	13
49) 1,4-Dioxane	7.76	88	55	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	149577	19.802	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	72841	9.326	ug/l #	63
57) 1,3-Dichloropropane	9.54	76	13121	1.468	ug/l #	44
59) 2-Hexanone	9.54	43	173816	30.195	ug/l #	51
68) m/p-Xylenes	10.35	106	2885	0.262	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	164804	21.676	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	5233	0.237	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.13	75	164804	64.250	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	12726	0.572	ug/l	96
88) 1,4-Dichlorobenzene	12.07	146	948	0.221	ug/l #	1
90) Hexachloroethane	12.60	117	856	3.123	ug/l #	6
95) Naphthalene	13.83	128	122714	4.540	ug/l	98

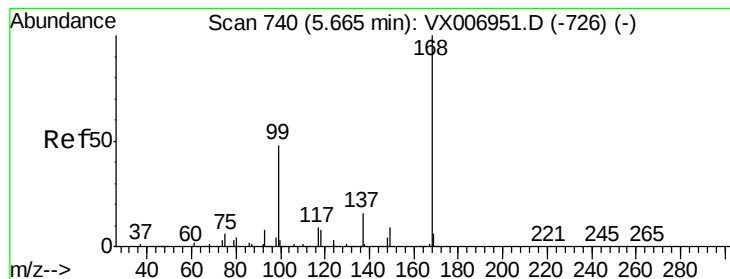
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 31 00:25:11 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007319.D

Acq: 30 Jan 2019 17:11

Instrument :

MSVOA_X

ClientSampleId :

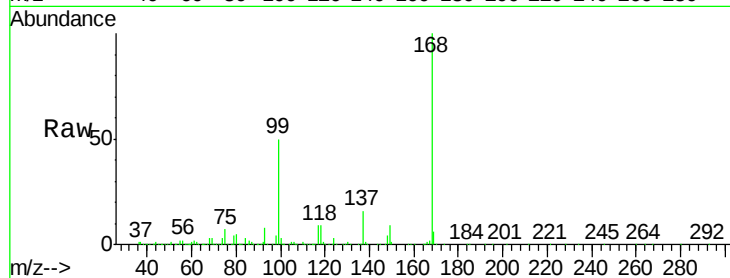
TP-5

Tot Ion:168 Resp: 512466

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

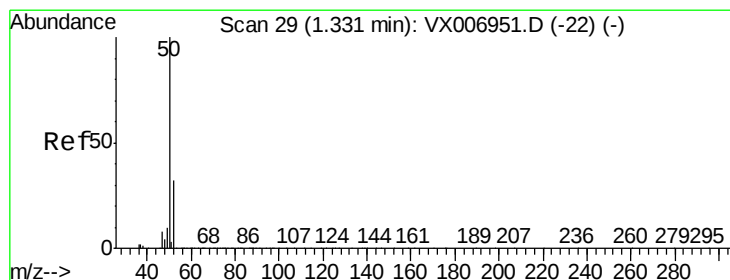
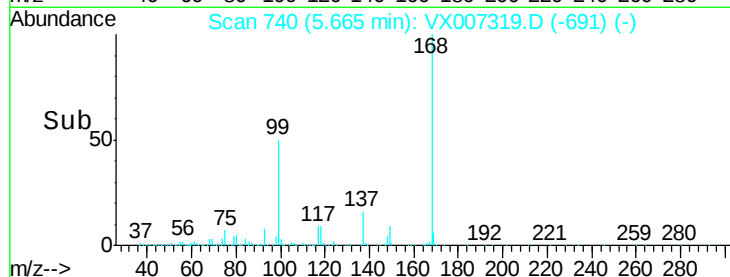
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.265 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX007319.D

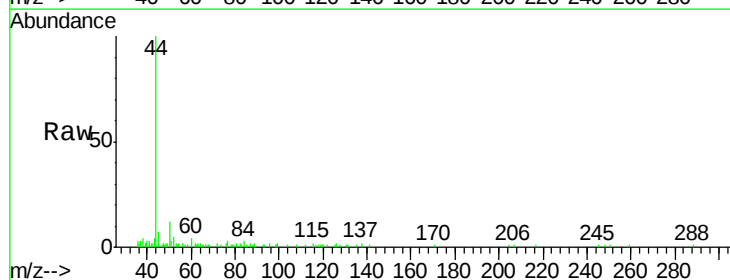
Acq: 30 Jan 2019 17:11

Tgt Ion: 50 Resp: 1300

Ion Ratio Lower Upper

50 100

52 13.4 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

800

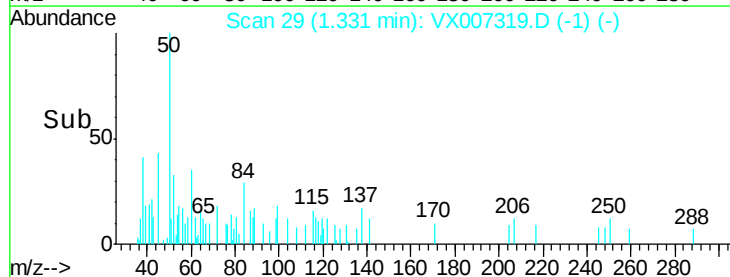
600

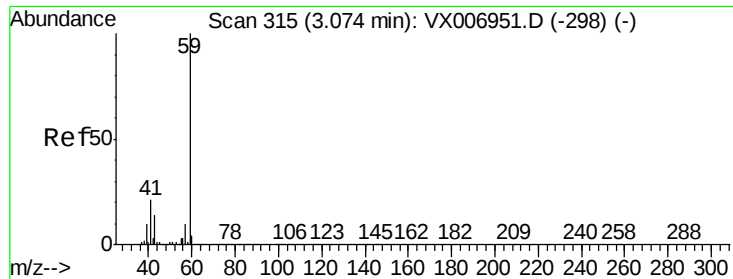
400

200

0

Time--> 1.25 1.30 1.35



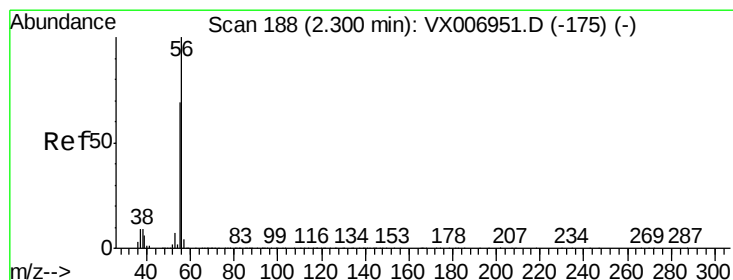
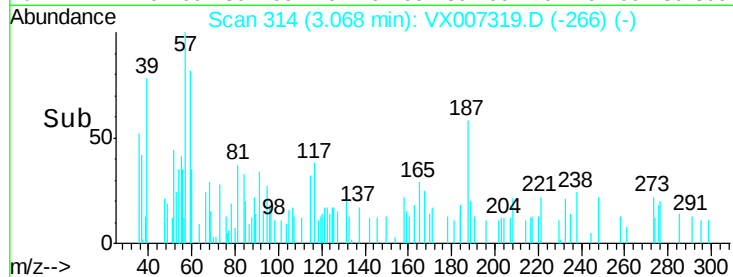
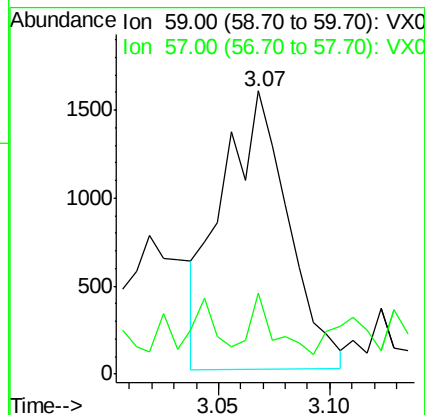
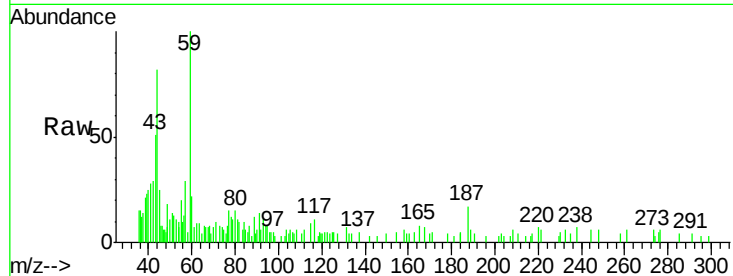


#11

Tert butyl alcohol
Concen: 2.579 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX007319.D
Acq: 30 Jan 2019 17:11

Instrument :
MSVOA_X
ClientSampled :
TP-5

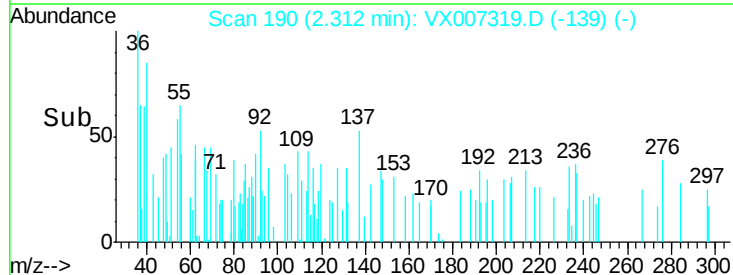
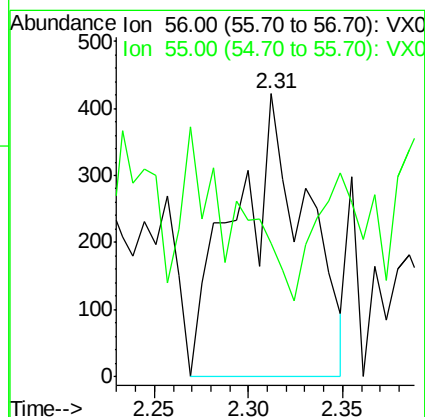
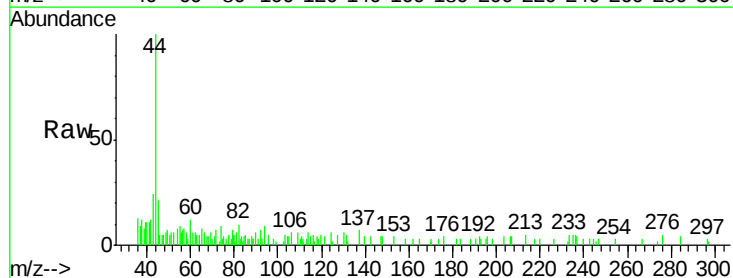
Tot Ion: 59 Resp: 3258
Ion Ratio Lower Upper
59 100
57 10.2 8.5 12.7

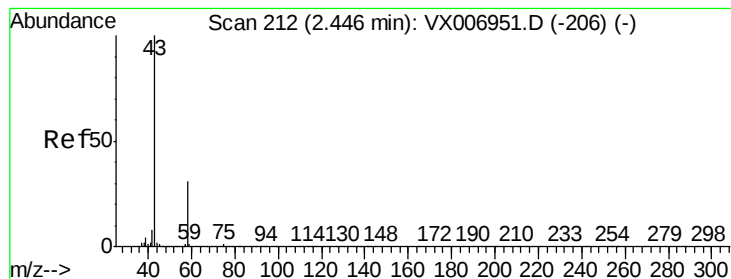


#13

Acrolein
Concen: 5.074 ug/l
RT: 2.31 min Scan# 190
Delta R.T. 0.01 min
Lab File: VX007319.D
Acq: 30 Jan 2019 17:11

Tgt Ion: 56 Resp: 1098
Ion Ratio Lower Upper
56 100
55 0.0 58.2 87.4#





#16

Acetone

Concen: 16.912 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007319.D

Acq: 30 Jan 2019 17:11

Instrument :

MSVOA_X

ClientSampleId :

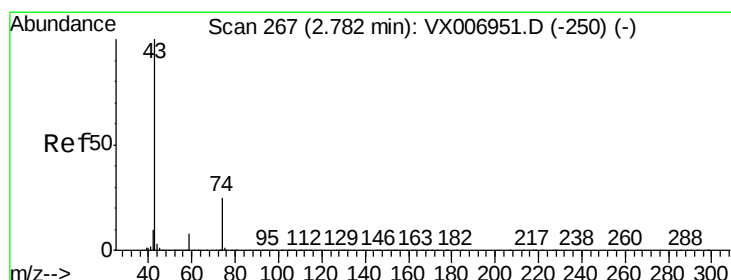
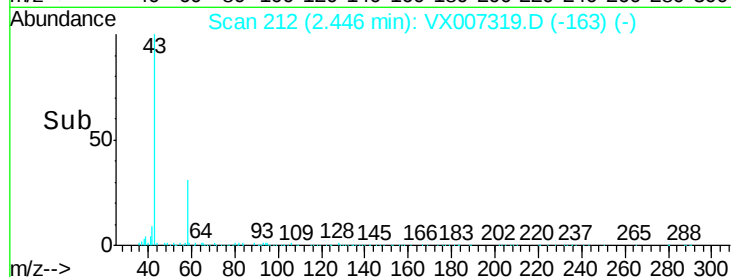
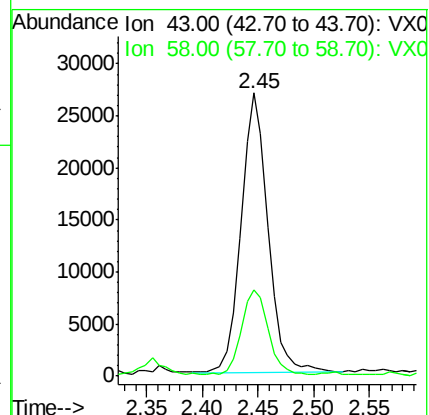
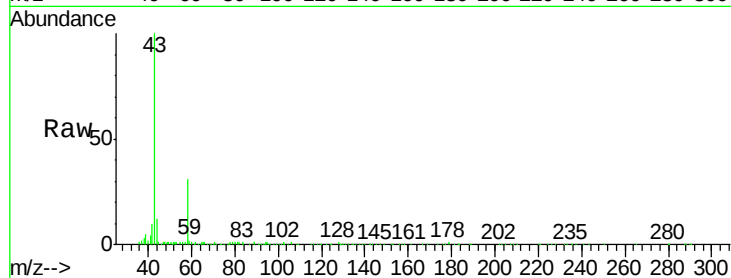
TP-5

Tot Ion: 43 Resp: 44779

Ion Ratio Lower Upper

43 100

58 30.4 25.0 37.6



#18

Methyl Acetate

Concen: 3.918 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX007319.D

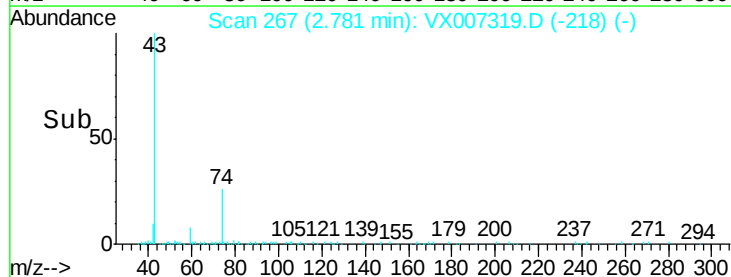
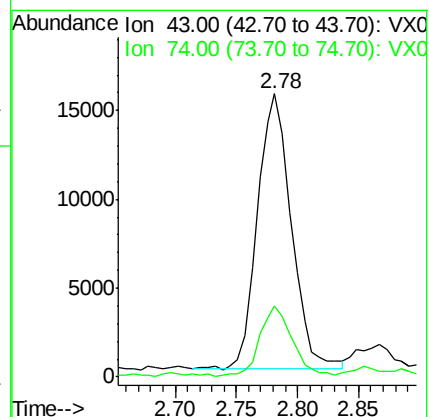
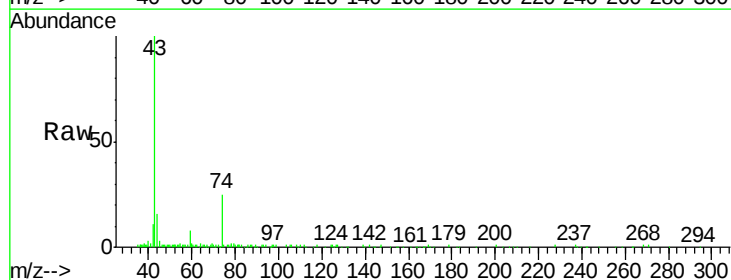
Acq: 30 Jan 2019 17:11

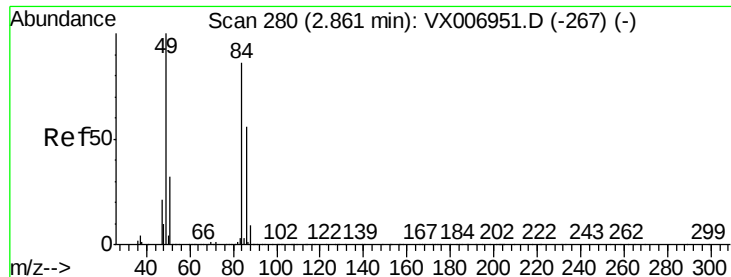
Tgt Ion: 43 Resp: 30041

Ion Ratio Lower Upper

43 100

74 24.9 18.6 28.0

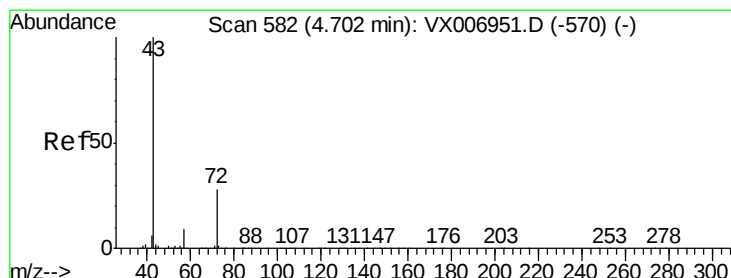
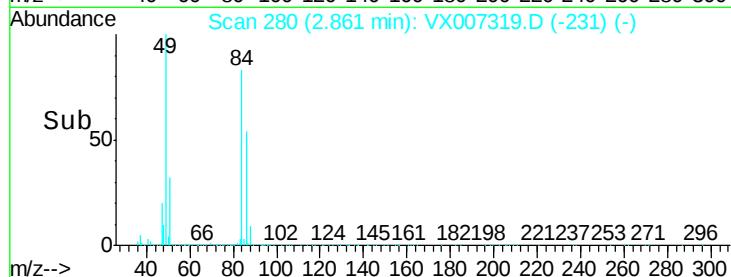
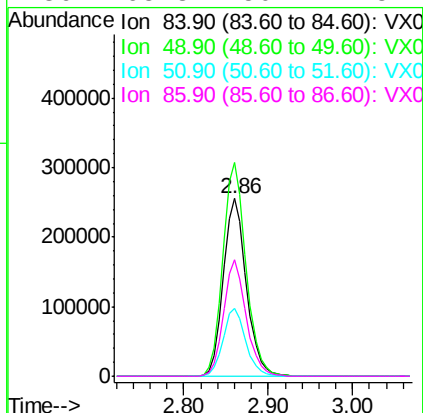
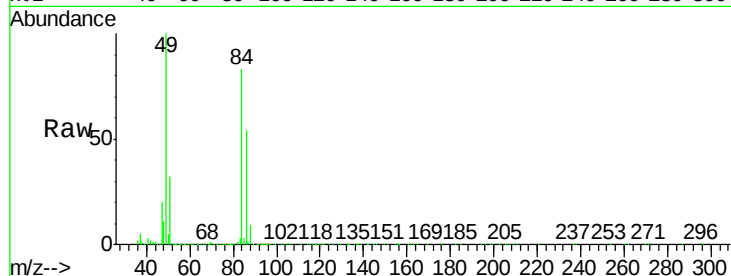




#20
Methvlene Chloride
Concen: 95.651 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007319.D
Acq: 30 Jan 2019 17:11

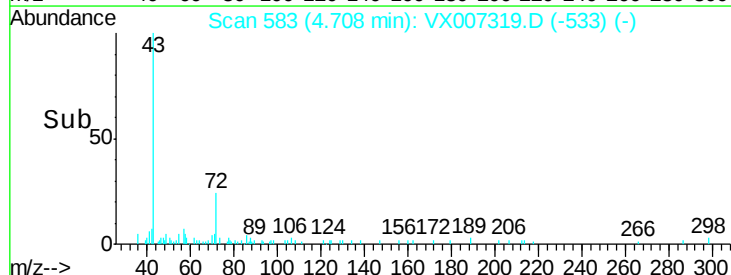
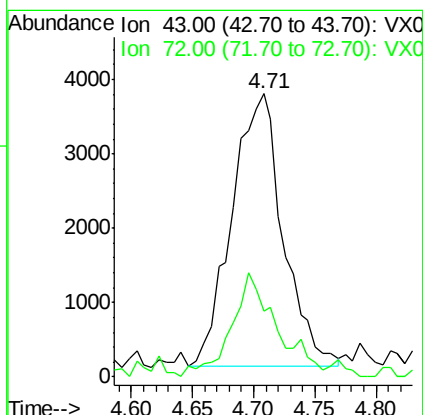
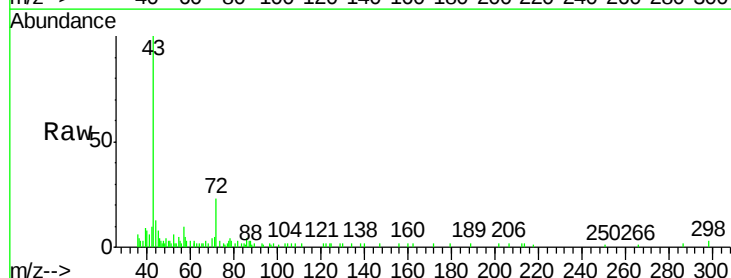
Instrument :
MSVOA_X
ClientSampleId :
TP-5

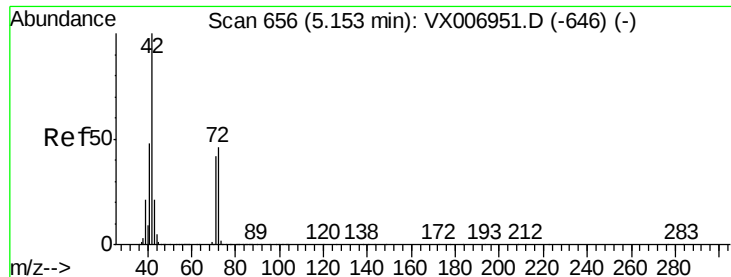
Tot Ion: 84 Resp: 479088
Ion Ratio Lower Upper
84 100
49 120.4 91.8 137.6
51 38.2 28.5 42.7
86 65.3 50.2 75.2



#25
2-Butanone
Concen: 2.802 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX007319.D
Acq: 30 Jan 2019 17:11

Tgt Ion: 43 Resp: 10616
Ion Ratio Lower Upper
43 100
72 20.4 22.4 33.6#





#29

Tetrahydrofuran

Concen: 1.310 ug/l

RT: 5.18 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX007319.D

Acq: 30 Jan 2019 17:11

Instrument :

MSVOA_X

ClientSampled :

TP-5

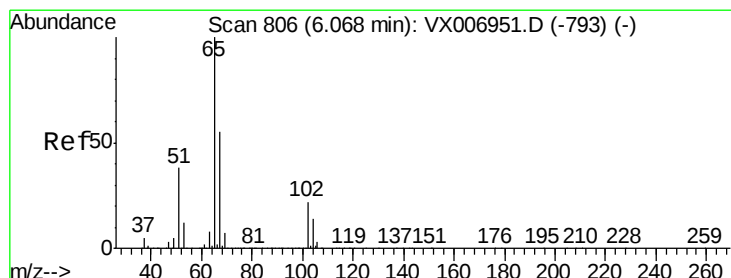
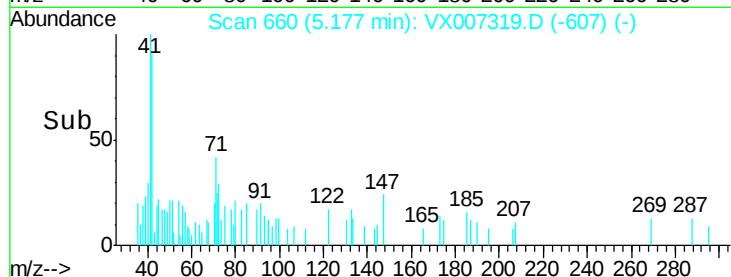
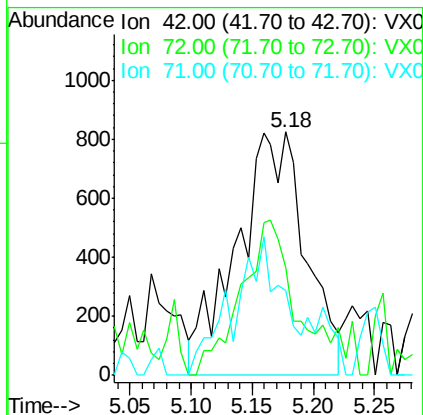
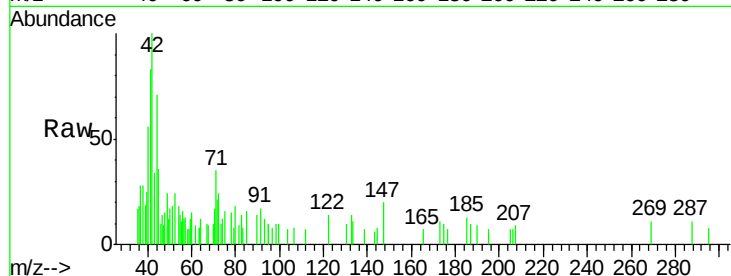
Tot Ion: 42 Resp: 3225

Ion Ratio Lower Upper

42 100

72 54.7 38.9 58.3

71 30.0 36.2 54.4#



#33

1,2-Dichloroethane-d4

Concen: 51.352 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007319.D

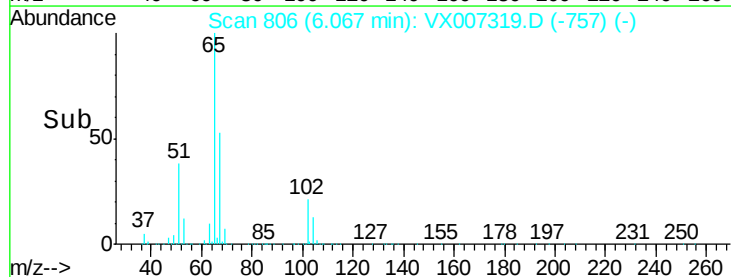
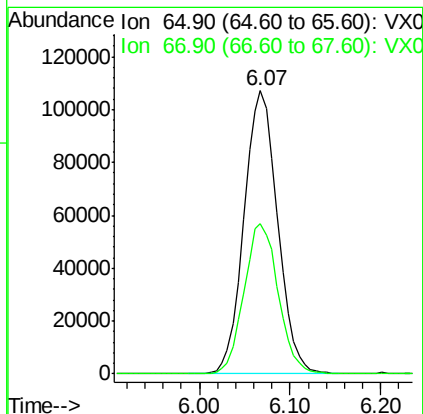
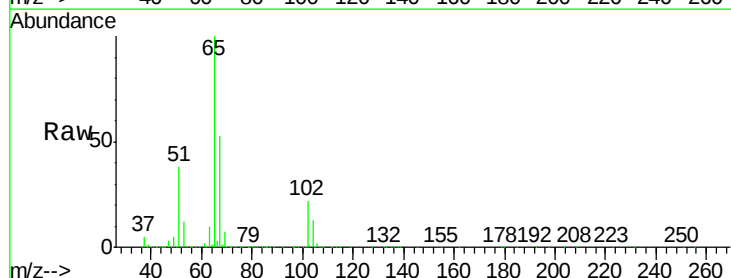
Acq: 30 Jan 2019 17:11

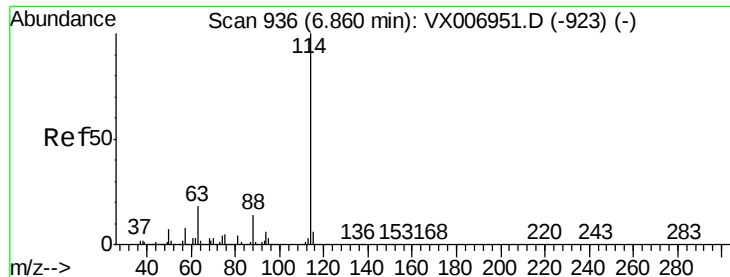
Tgt Ion: 65 Resp: 275024

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: VX007319.D

Acq: 30 Jan 2019 17:11

Instrument :

MSVOA_X

ClientSampleId :

TP-5

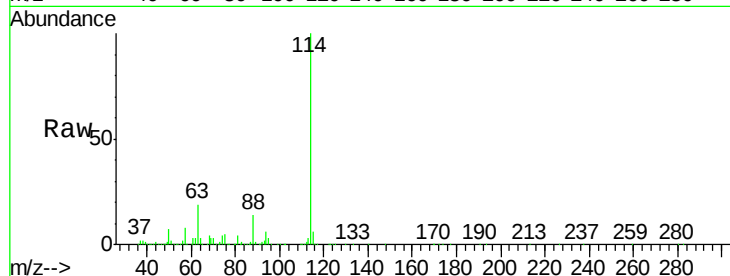
Tot Ion:114 Resp: 799453

Ion Ratio Lower Upper

114 100

63 18.6 0.0 34.8

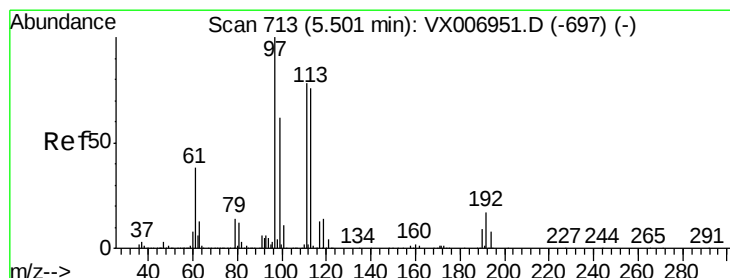
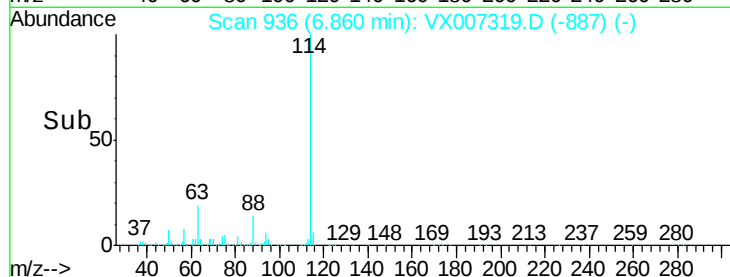
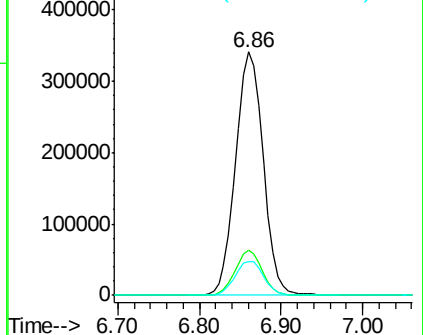
88 14.0 0.0 28.8



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: 48.567 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX007319.D

Acq: 30 Jan 2019 17:11

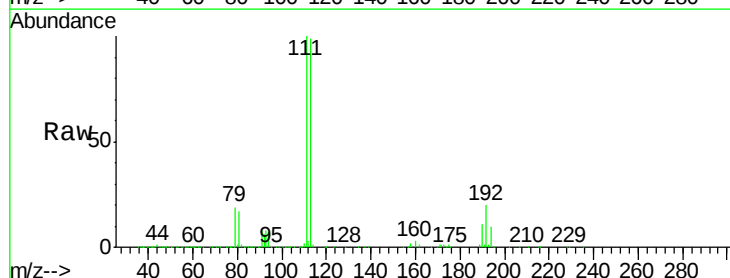
Tgt Ion:113 Resp: 248646

Ion Ratio Lower Upper

113 100

111 102.1 81.6 122.4

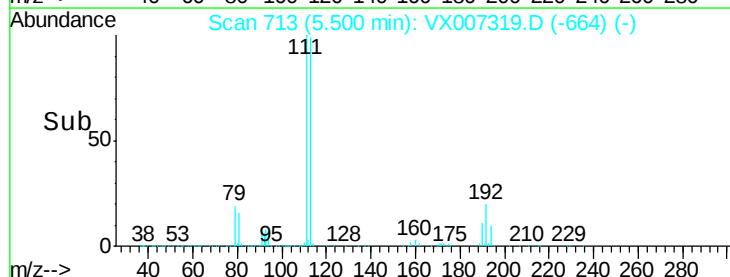
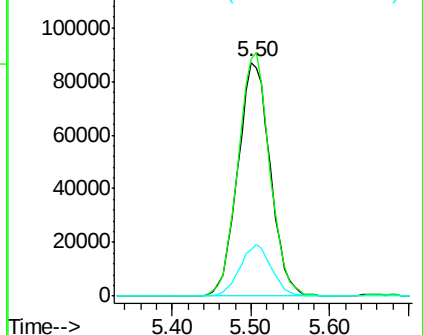
192 21.6 16.7 25.1

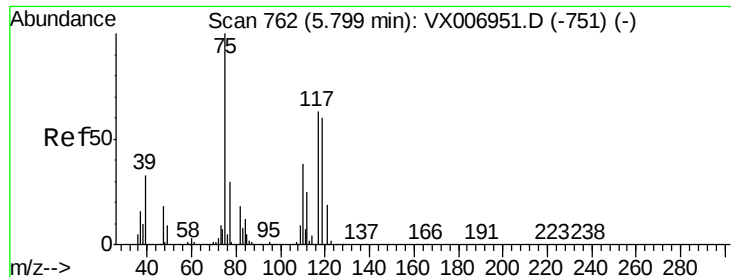


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.589 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007319.D

Acq: 30 Jan 2019 17:11

Instrument :

MSVOA_X

ClientSampleId :

TP-5

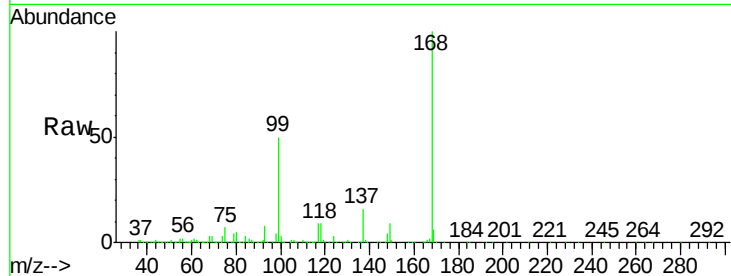
Tot Ion: 75 Resp: 31899

Ion Ratio Lower Upper

75 100

110 11.6 20.2 60.5#

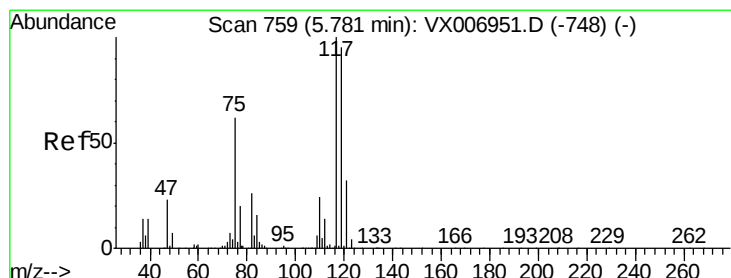
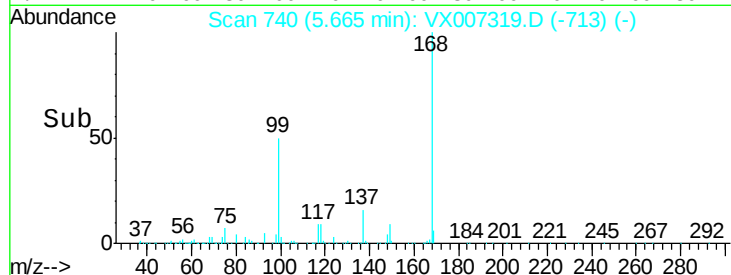
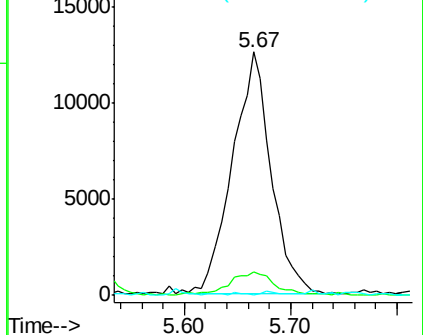
77 0.9 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.562 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007319.D

Acq: 30 Jan 2019 17:11

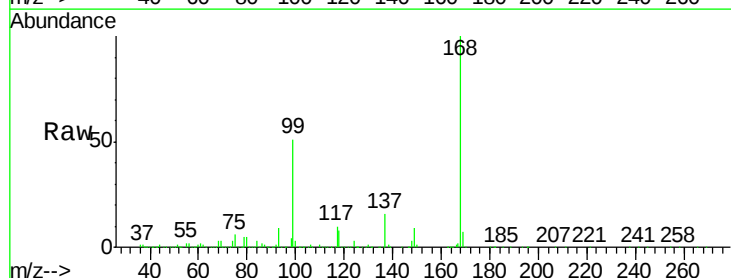
Tgt Ion: 117 Resp: 45891

Ion Ratio Lower Upper

117 100

119 4.1 79.4 119.2#

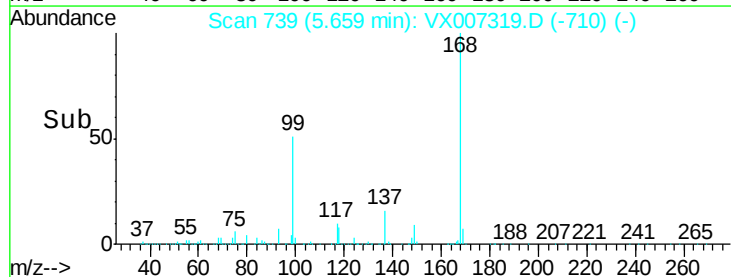
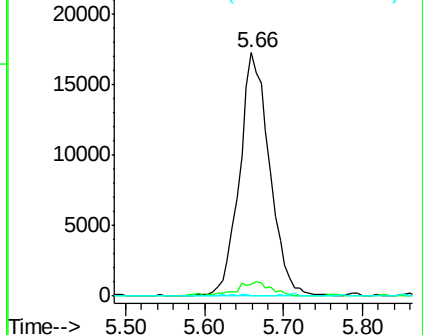
121 0.3 24.0 36.0#

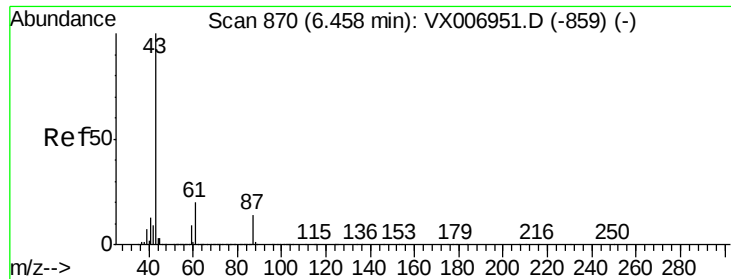


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 2.714 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.00 min

Lab File: VX007319.D

Acq: 30 Jan 2019 17:11

Instrument :

MSVOA_X

ClientSampleId :

TP-5

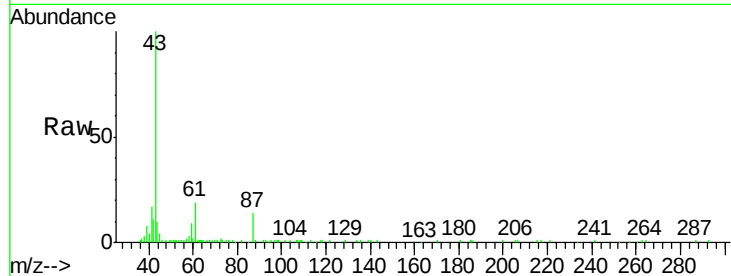
Tot Ion: 43 Resp: 31905

Ion Ratio Lower Upper

43 100

61 22.4 16.8 25.2

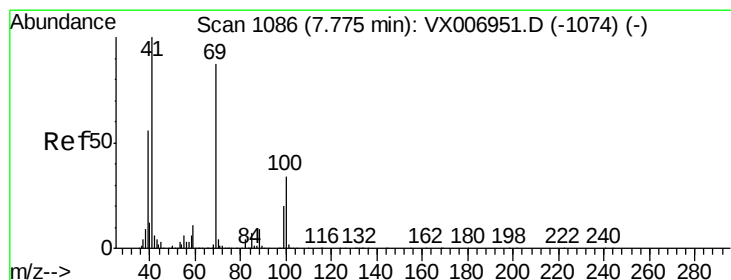
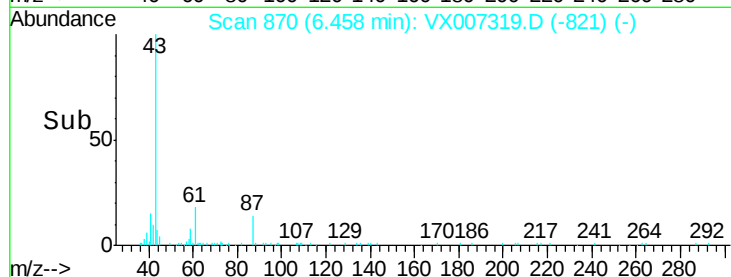
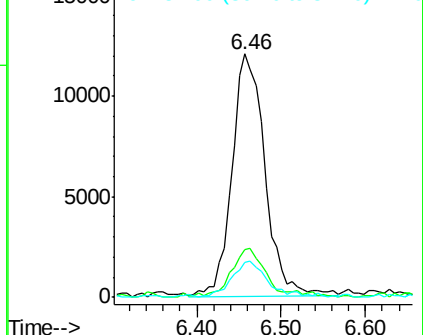
87 16.0 12.4 18.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 2.779 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007319.D

Acq: 30 Jan 2019 17:11

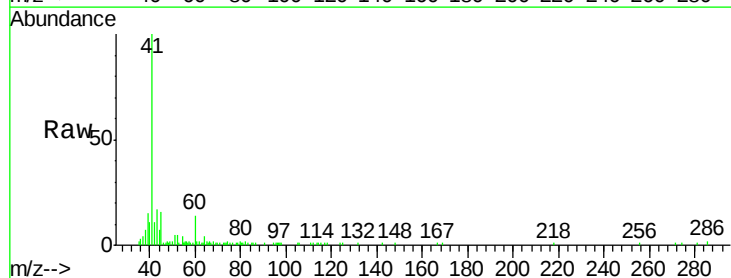
Tgt Ion: 41 Resp: 16777

Ion Ratio Lower Upper

41 100

69 2.0 72.4 108.6#

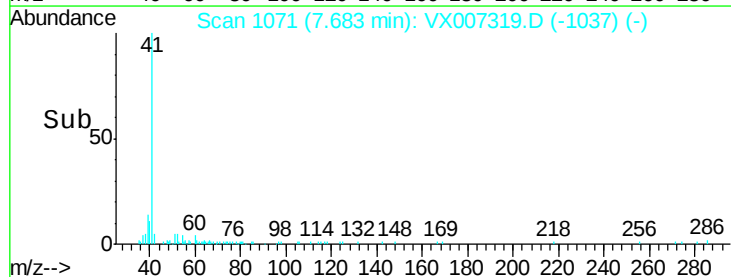
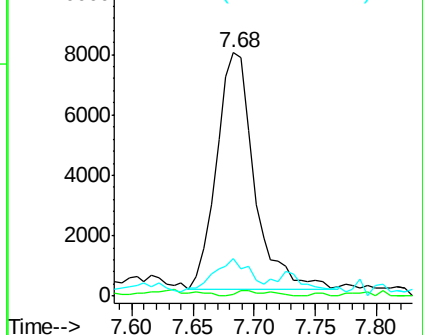
39 0.0 45.8 68.8#

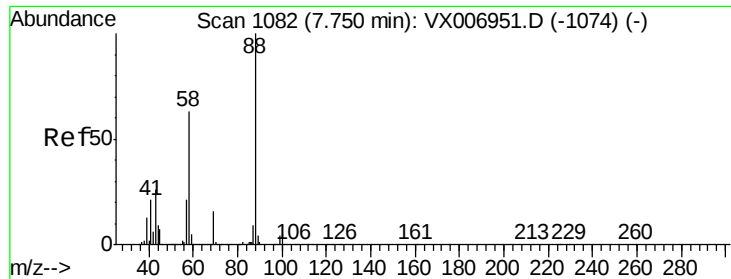


Abundance Ion 41.00 (40.70 to 41.70): VX0

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: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX007319.D

Acq: 30 Jan 2019 17:11

Instrument :

MSVOA_X

ClientSampleId :

TP-5

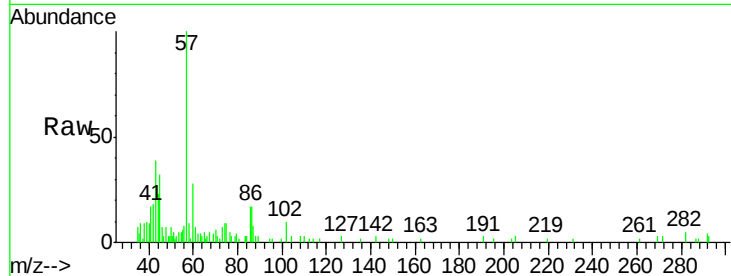
Tot Ion: 88 Resp: 55

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

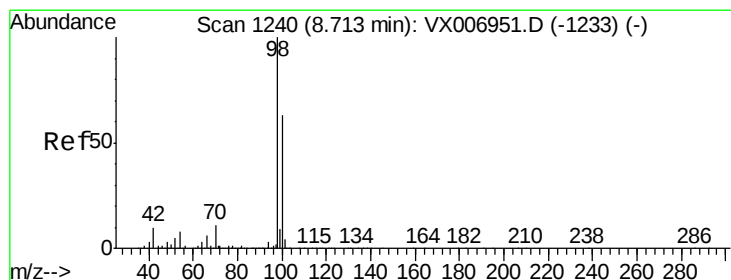
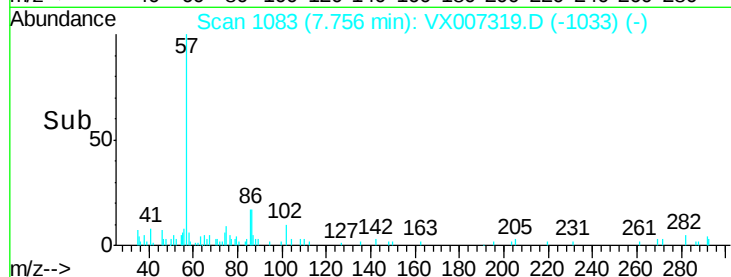
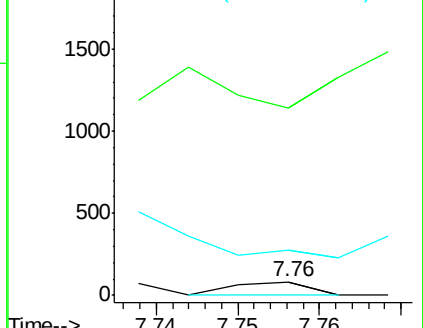
58 0.0 51.0 76.4#



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: 51.759 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007319.D

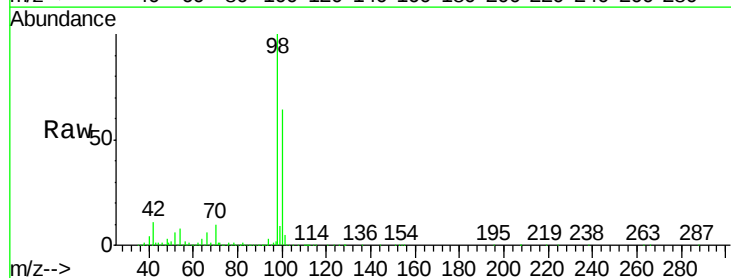
Acq: 30 Jan 2019 17:11

Tgt Ion: 98 Resp: 969931

Ion Ratio Lower Upper

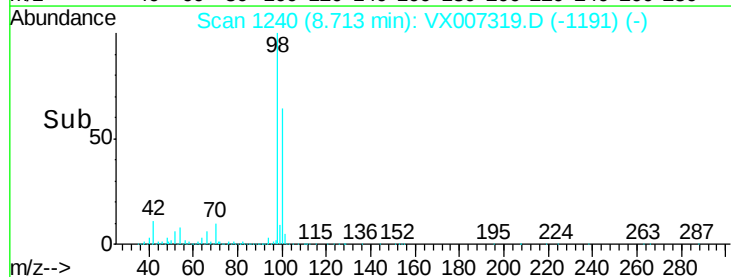
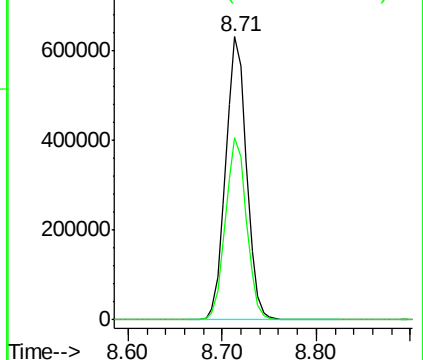
98 100

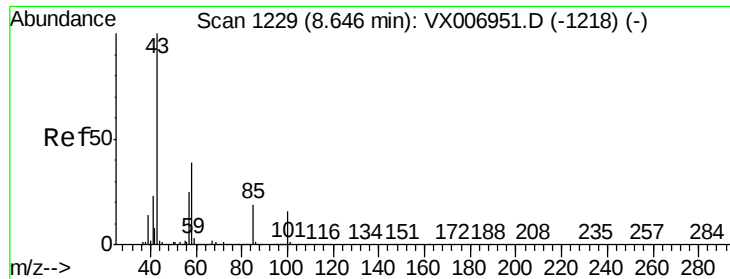
100 64.7 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 19.802 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007319.D

Acq: 30 Jan 2019 17:11

Instrument :

MSVOA_X

ClientSampled :

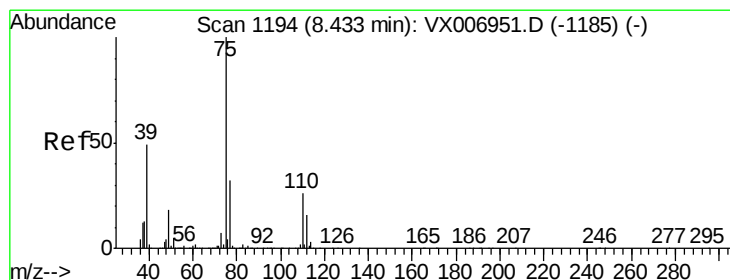
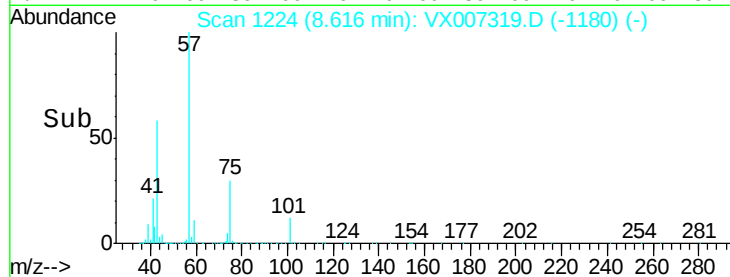
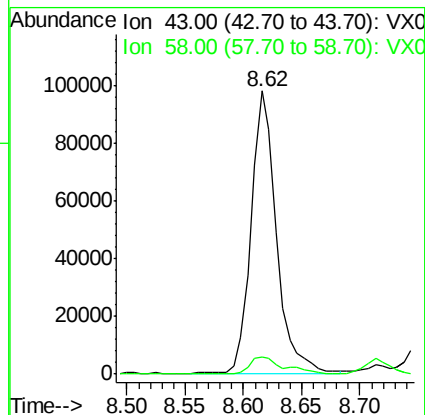
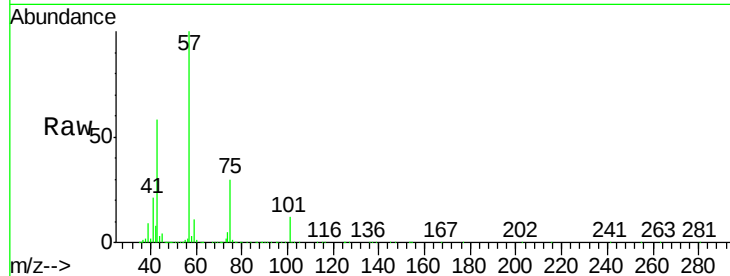
TP-5

Tot Ion: 43 Resp: 149577

Ion Ratio Lower Upper

43 100

58 8.3 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 9.326 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007319.D

Acq: 30 Jan 2019 17:11

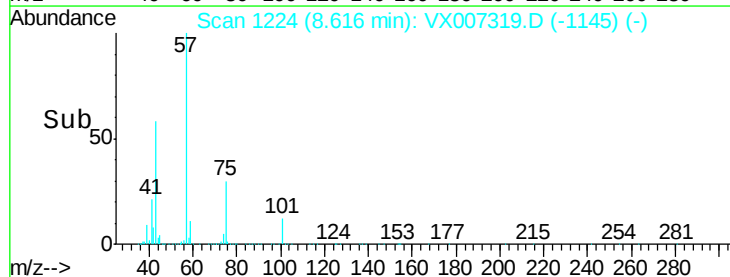
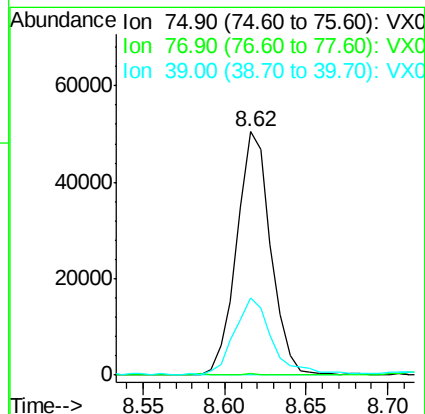
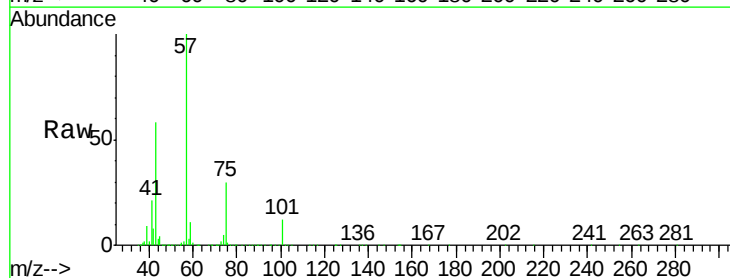
Tgt Ion: 75 Resp: 72841

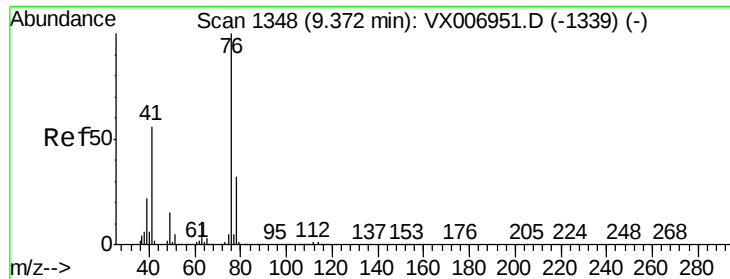
Ion Ratio Lower Upper

75 100

77 0.6 26.2 39.2#

39 30.9 36.7 55.1#





#57

1,3-Dichloropropane

Concen: 1.468 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007319.D

Acq: 30 Jan 2019 17:11

Instrument :

MSVOA_X

ClientSampleId :

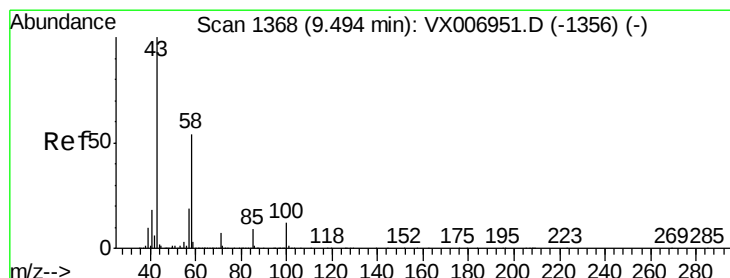
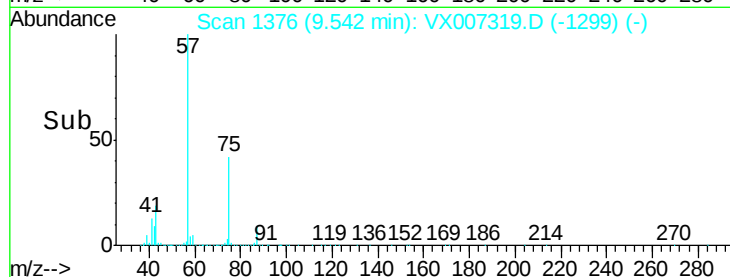
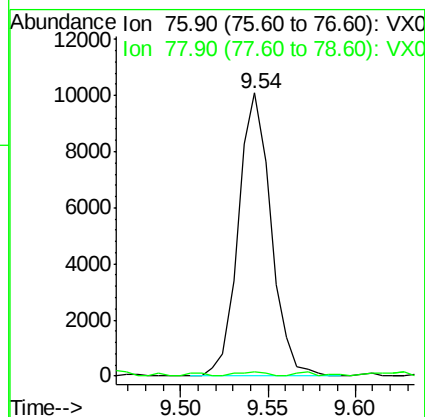
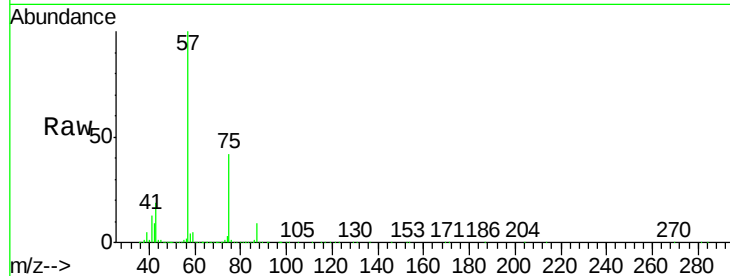
TP-5

Tot Ion: 76 Resp: 13121

Ion Ratio Lower Upper

76 100

78 1.3 26.0 39.0#



#59

2-Hexanone

Concen: 30.195 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007319.D

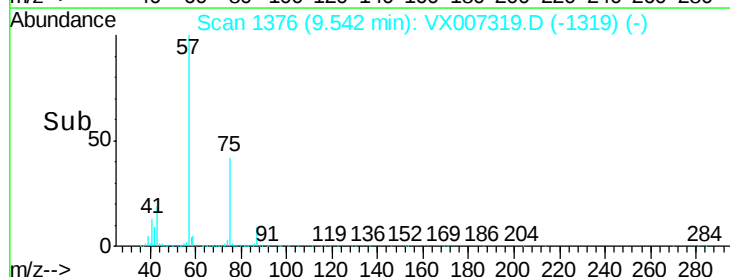
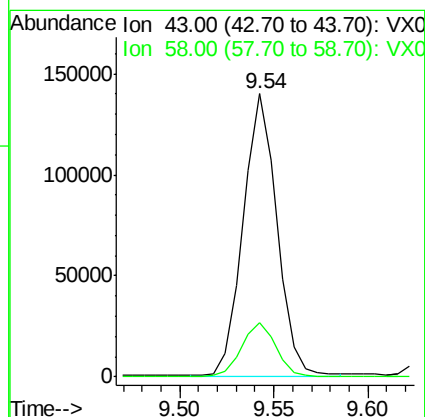
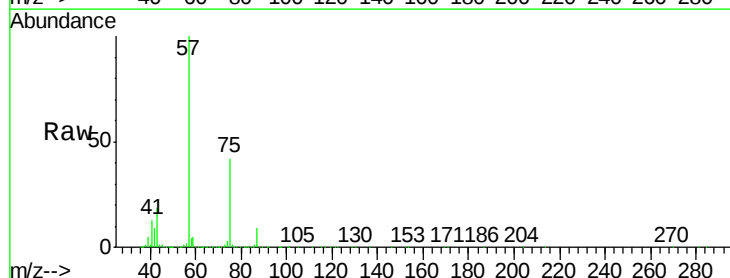
Acq: 30 Jan 2019 17:11

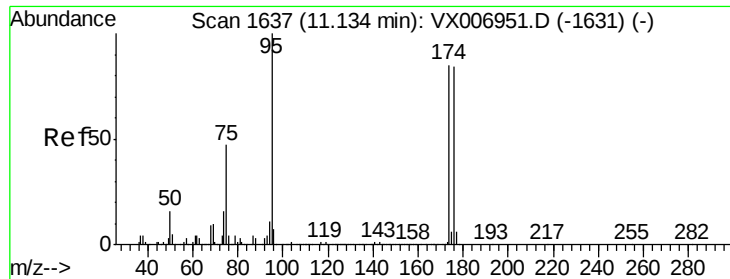
Tgt Ion: 43 Resp: 173816

Ion Ratio Lower Upper

43 100

58 20.0 27.7 83.1#

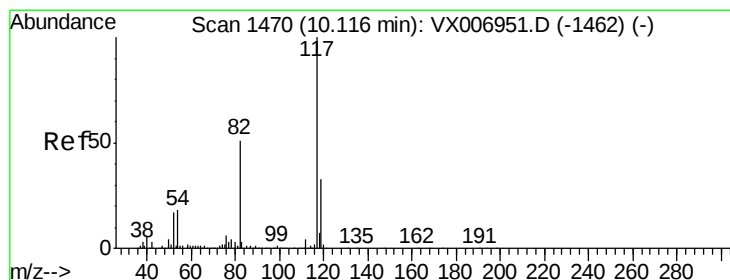
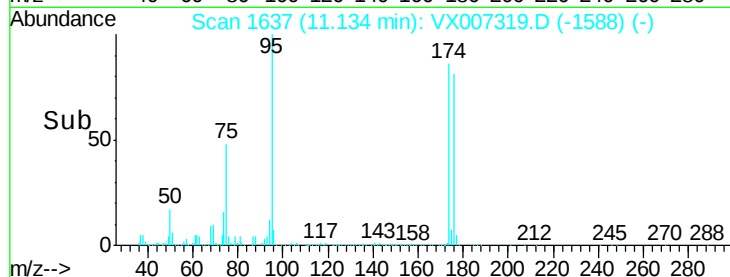
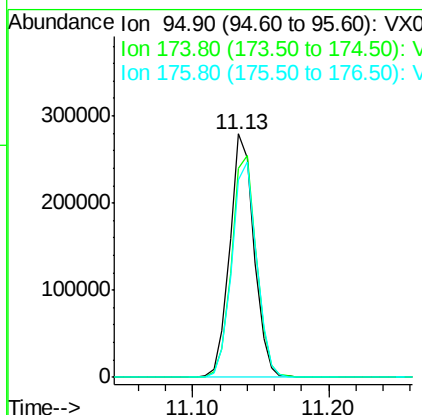
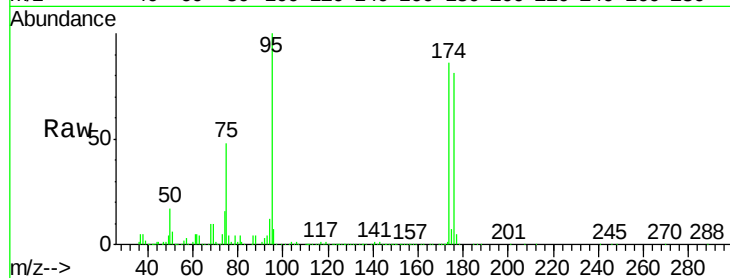




#62
4-Bromofluorobenzene
Concen: 53.052 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX007319.D
Acq: 30 Jan 2019 17:11

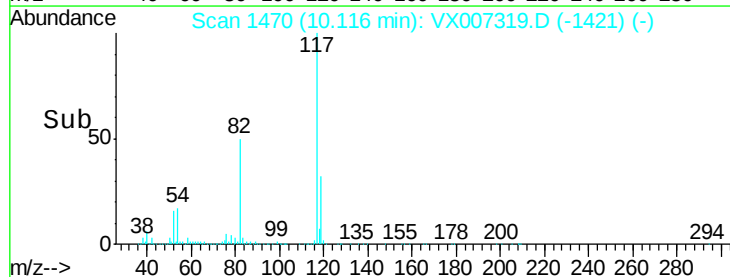
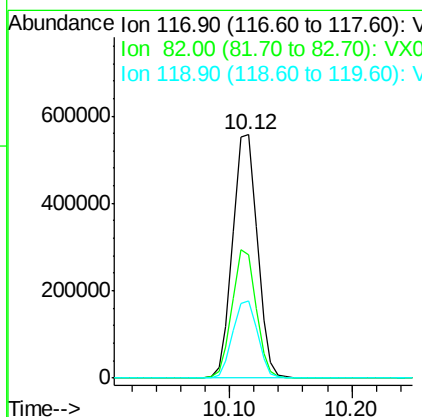
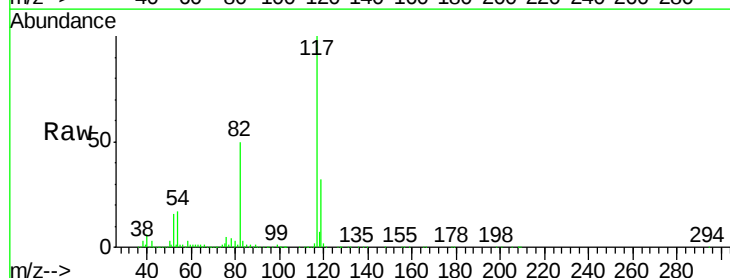
Instrument :
MSVOA_X
ClientSampleId :
TP-5

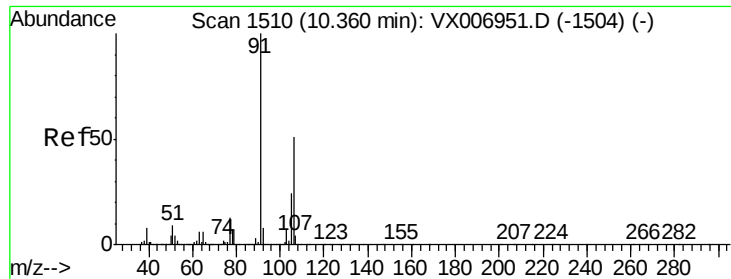
Tot Ion: 95 Resp: 346588
Ion Ratio Lower Upper
95 100
174 93.1 0.0 182.2
176 90.7 0.0 178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX007319.D
Acq: 30 Jan 2019 17:11

Tgt Ion: 117 Resp: 774972
Ion Ratio Lower Upper
117 100
82 50.4 41.0 61.6
119 31.9 25.4 38.0





#68

m/p-Xvlenes

Concen: 0.262 ug/l

RT: 10.35 min Scan# 1509

Delta R.T. -0.01 min

Lab File: VX007319.D

Acq: 30 Jan 2019 17:11

Instrument :

MSVOA_X

ClientSampleId :

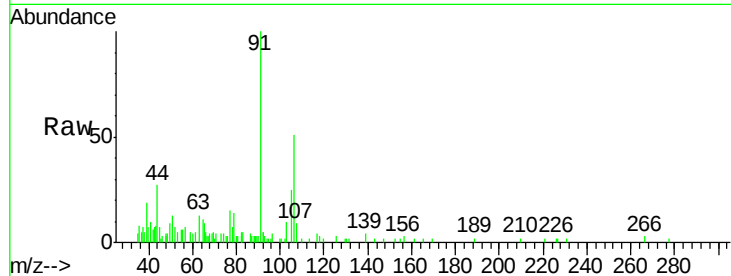
TP-5

Tot Ion:106 Resp: 2885

Ion Ratio Lower Upper

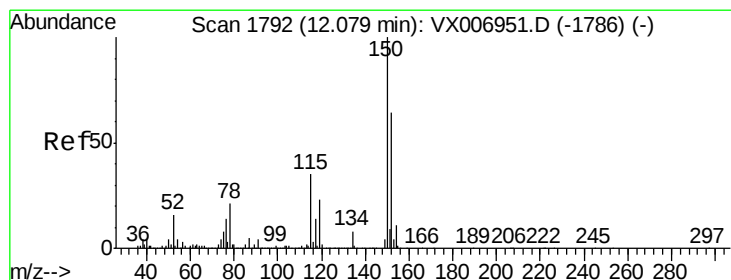
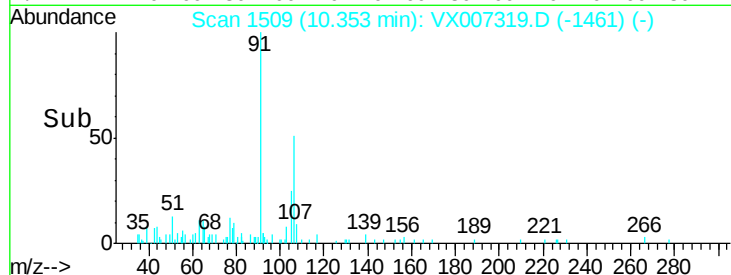
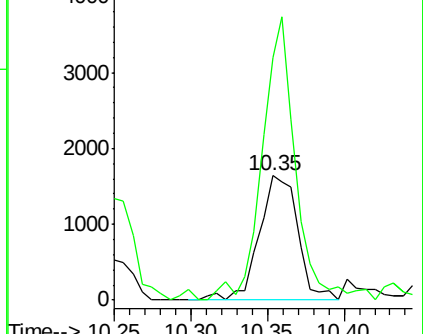
106 100

91 197.2 155.8 233.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007319.D

Acq: 30 Jan 2019 17:11

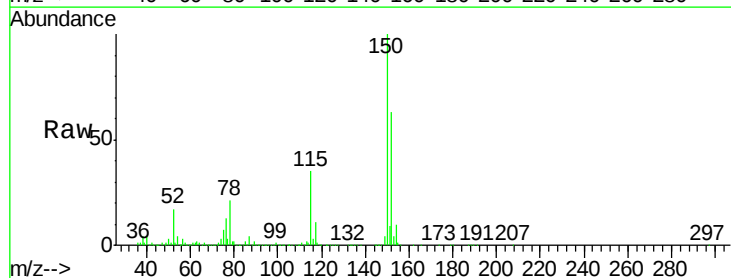
Tgt Ion:152 Resp: 375182

Ion Ratio Lower Upper

152 100

115 55.2 39.1 117.2

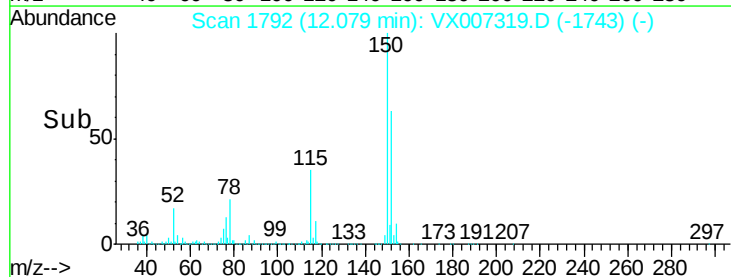
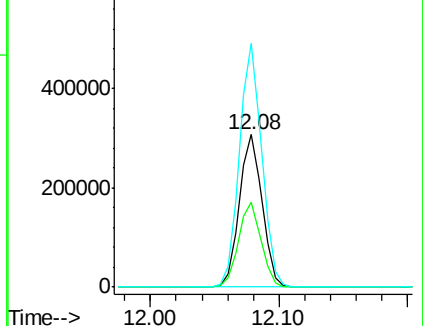
150 157.6 0.0 344.8

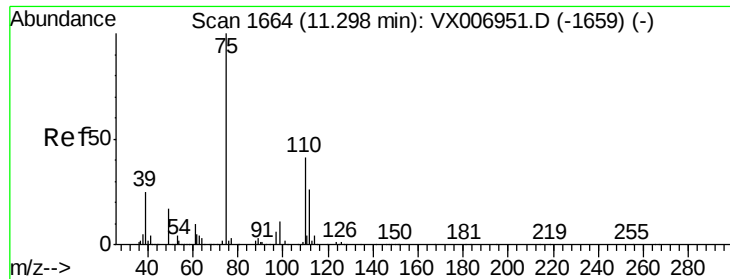


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

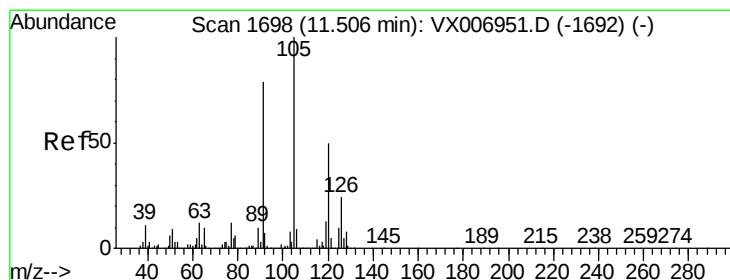
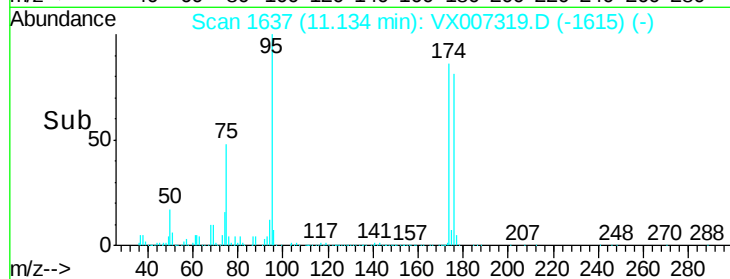
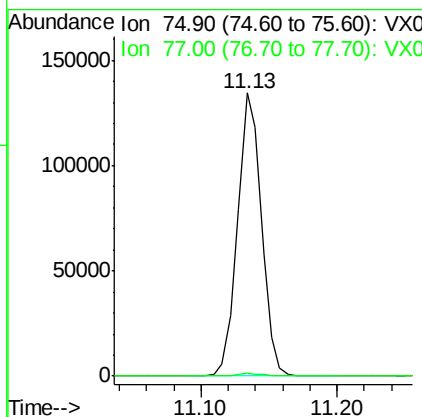
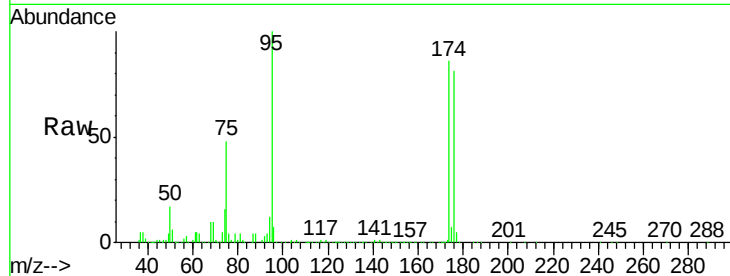




#76
 1,2,3-Trichloropropane
 Concen: 21.676 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX007319.D
 Acq: 30 Jan 2019 17:11

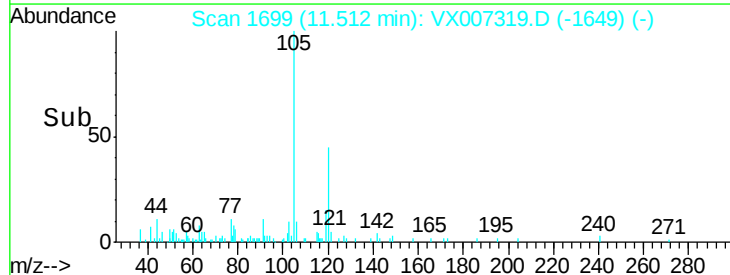
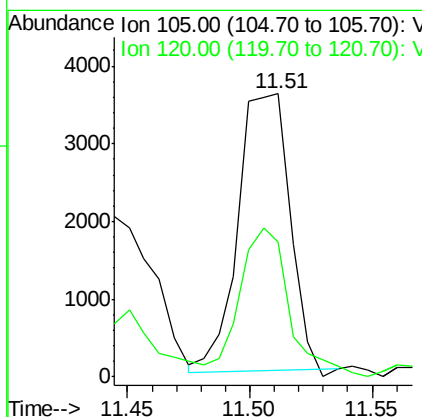
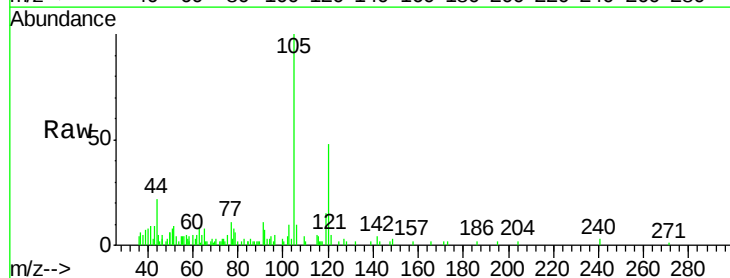
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-5

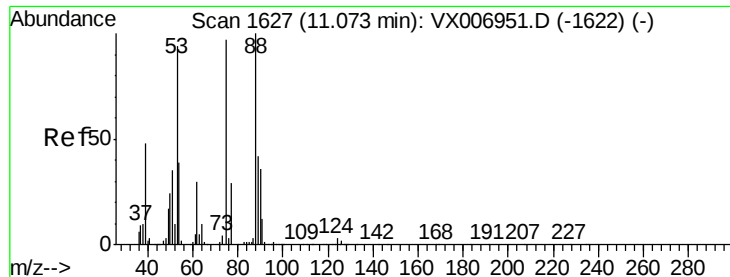
Tot Ion: 75 Resp: 164804
 Ion Ratio Lower Upper
 75 100
 77 1.4 18.5 55.5#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.237 ug/l
 RT: 11.51 min Scan# 1699
 Delta R.T. 0.01 min
 Lab File: VX007319.D
 Acq: 30 Jan 2019 17:11

Tgt Ion:105 Resp: 5233
 Ion Ratio Lower Upper
 105 100
 120 52.2 25.1 75.3

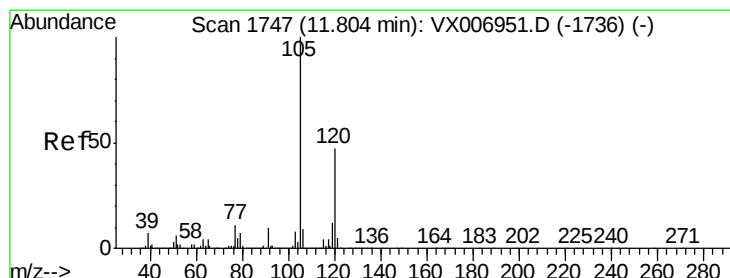
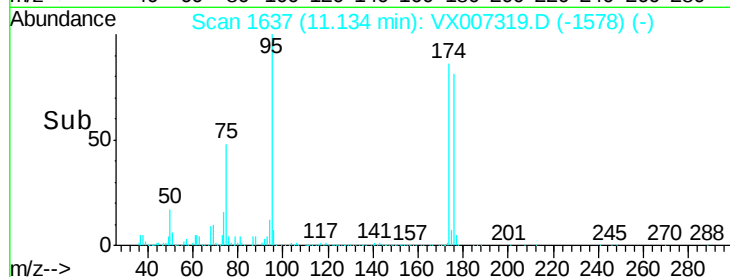
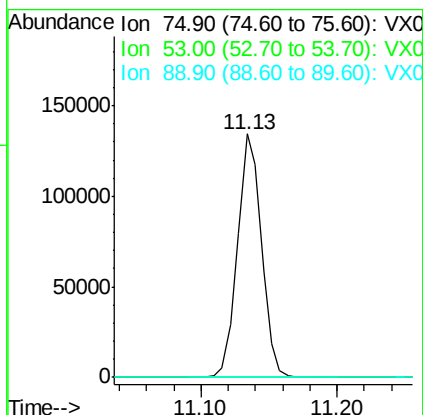
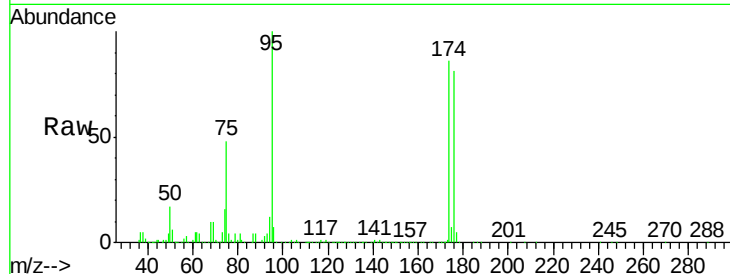




#81
trans-1,4-Dichloro-2-butene
Concen: 64.250 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX007319.D
Acq: 30 Jan 2019 17:11

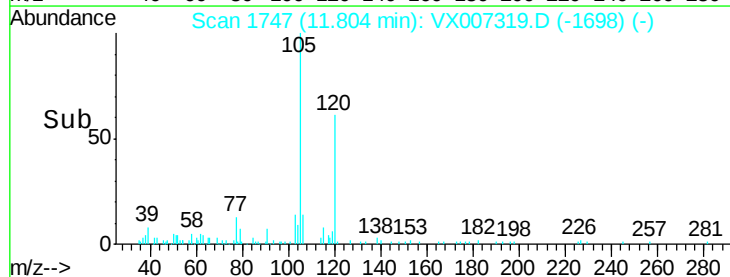
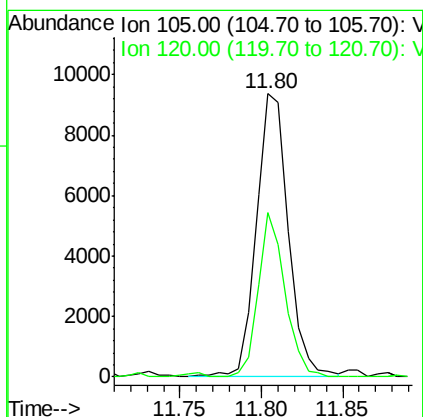
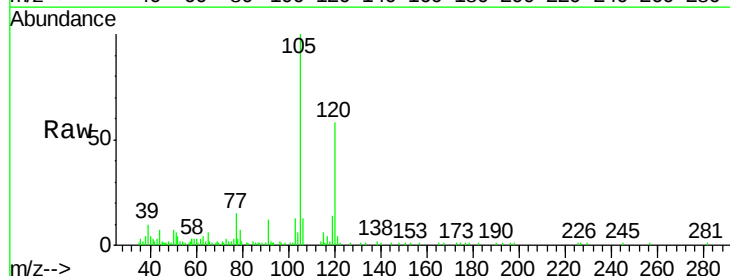
Instrument :
MSVOA_X
ClientSampleId :
TP-5

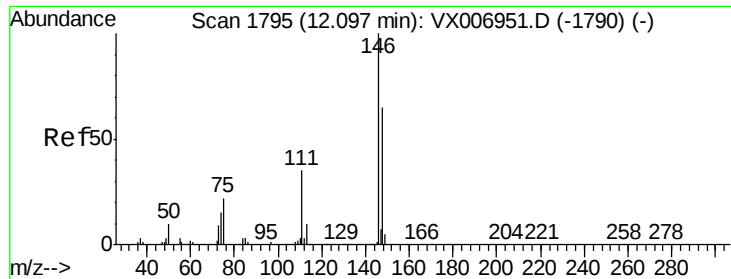
Tot Ion: 75 Resp: 164804
Ion Ratio Lower Upper
75 100
53 0.3 79.7 119.5#
89 0.0 38.0 57.0#



#84
1,2,4-Trimethylbenzene
Concen: 0.572 ug/l
RT: 11.80 min Scan# 1747
Delta R.T. -0.00 min
Lab File: VX007319.D
Acq: 30 Jan 2019 17:11

Tgt Ion: 105 Resp: 12726
Ion Ratio Lower Upper
105 100
120 49.0 23.2 69.6





#88

1,4-Dichlorobenzene

Concen: 0.221 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. -0.02 min

Lab File: VX007319.D

Acq: 30 Jan 2019 17:11

Instrument :

MSVOA_X

ClientSampleId :

TP-5

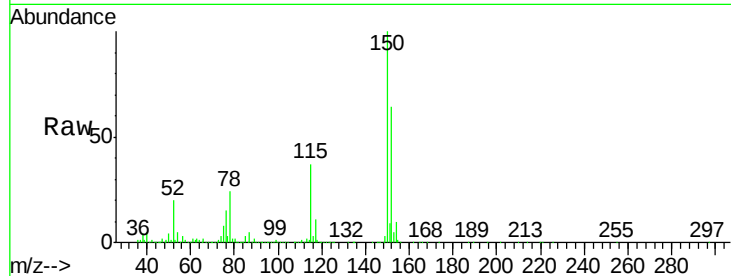
Tot Ion:146 Resp: 948

Ion Ratio Lower Upper

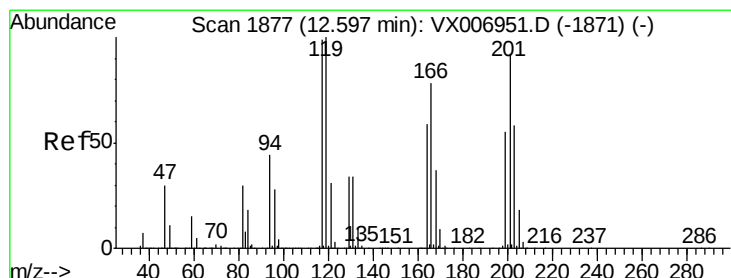
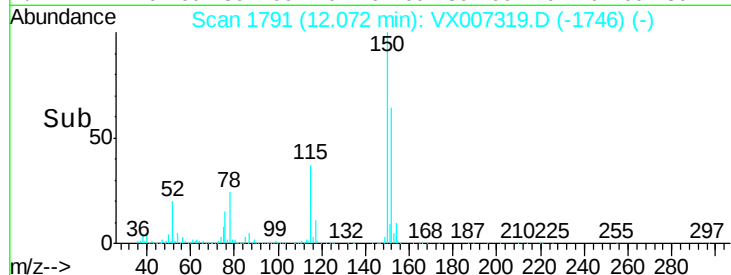
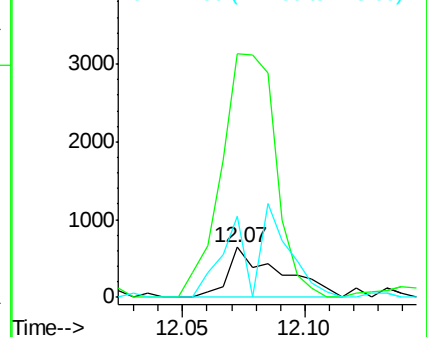
146 100

111 512.6 18.1 54.1#

148 73.3 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: 3.123 ug/l

RT: 12.60 min Scan# 1878

Delta R.T. 0.01 min

Lab File: VX007319.D

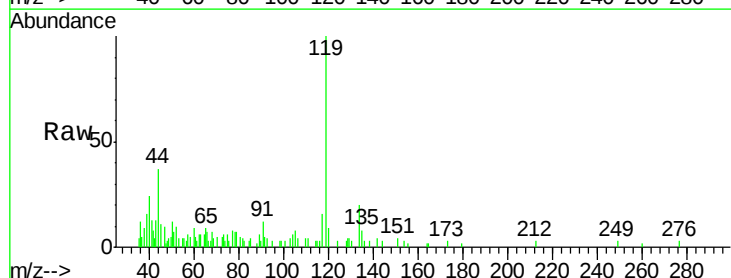
Acq: 30 Jan 2019 17:11

Tgt Ion:117 Resp: 856

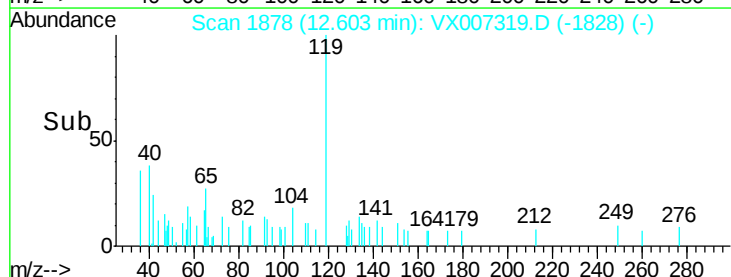
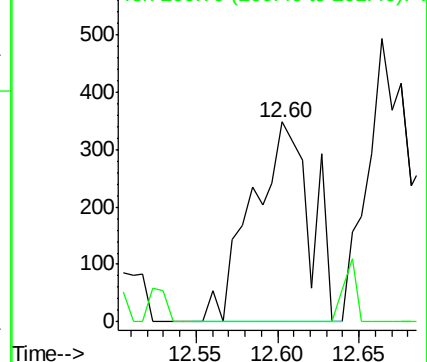
Ion Ratio Lower Upper

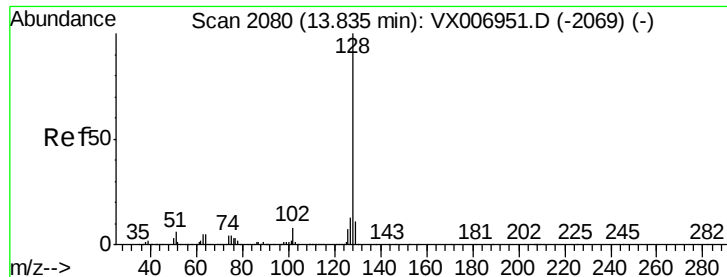
117 100

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: 4.540 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX007319.D

Acq: 30 Jan 2019 17:11

Instrument :

MSVOA_X

ClientSampleId :

TP-5

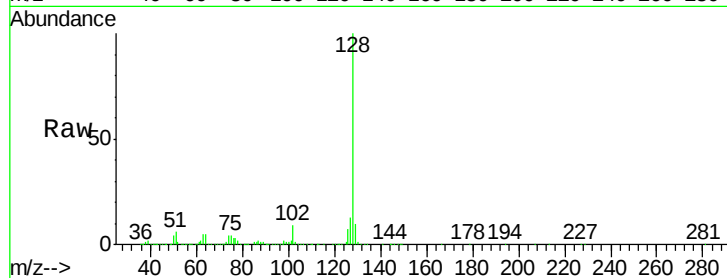
Tot Ion:128 Resp: 122714

Ion Ratio Lower Upper

128 100

127 13.6 10.1 15.1

129 11.5 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

