

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX013019\
 Data File : VX007315.D
 Acq On : 30 Jan 2019 15:24
 Operator : JC/SP
 Sample : K1282-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-1

Quant Time: Jan 31 00:24:04 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	526376	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	821491	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	789817	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	381443	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	286186	52.02	ug/l	0.00
Spiked Amount			Recovery	=	104.04%	
35) Dibromofluoromethane	5.51	113	257041	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
50) Toluene-d8	8.71	98	1009444	52.42	ug/l	0.00
Spiked Amount			Recovery	=	104.84%	
62) 4-Bromofluorobenzene	11.13	95	350799	52.26	ug/l	0.00
Spiked Amount			Recovery	=	104.52%	

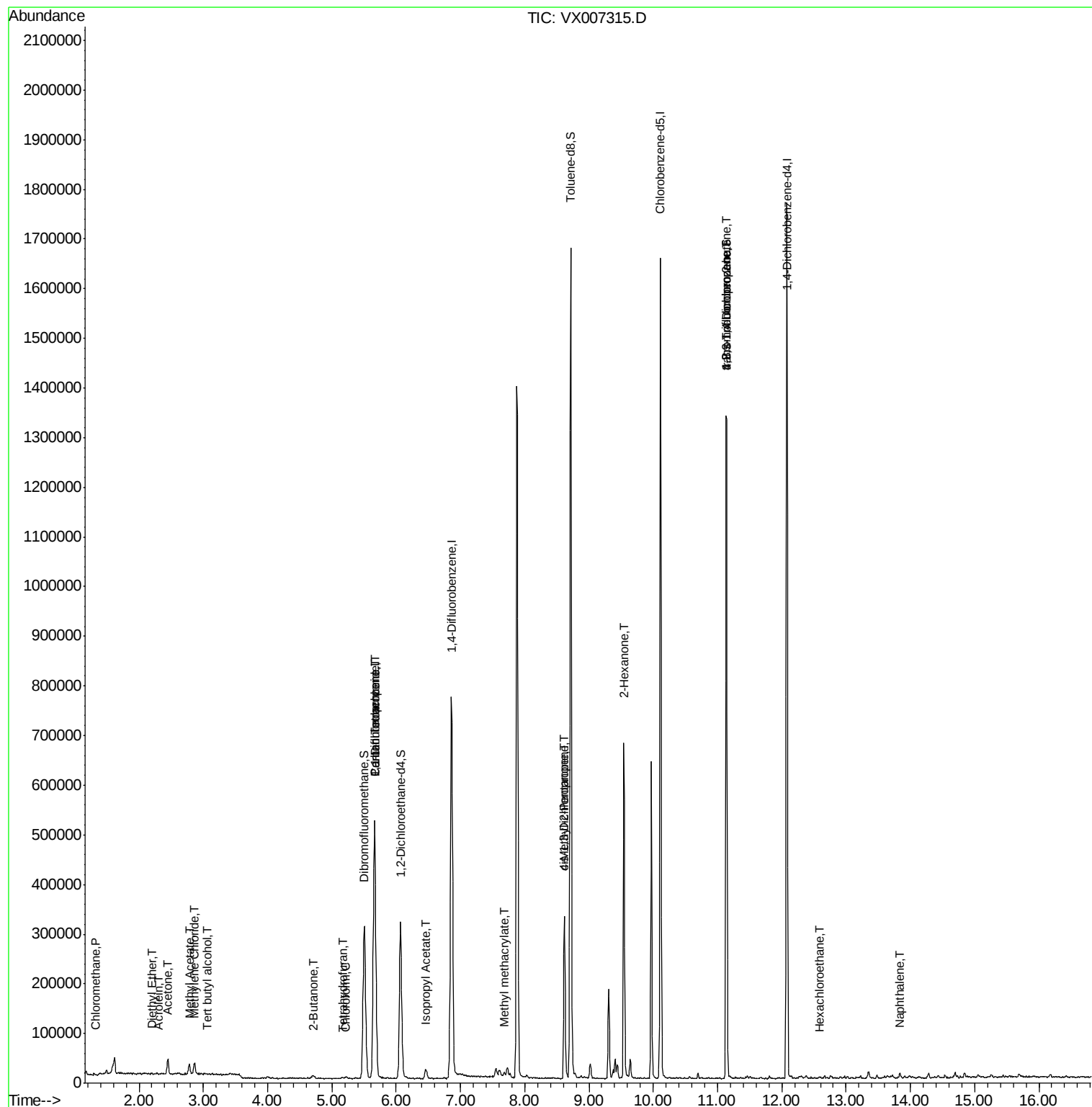
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1202	0.239	ug/l #	84
8) Diethyl Ether	2.21	74	794	0.228	ug/l	59
11) Tert butyl alcohol	3.06	59	1727	1.331	ug/l #	57
13) Acrolein	2.30	56	364	3.727	ug/l	95
16) Acetone	2.45	43	33951	12.484	ug/l	95
18) Methyl Acetate	2.78	43	27885	3.541	ug/l	97
20) Methylene Chloride	2.86	84	11366	1.650	ug/l	92
25) 2-Butanone	4.71	43	12396	3.186	ug/l #	89
29) Tetrahydrofuran	5.16	42	1902	0.752	ug/l #	65
30) Chloroform	5.21	83	3137	0.344	ug/l #	82
36) 1,1-Dichloropropene	5.67	75	33249	4.655	ug/l #	49
38) Carbon Tetrachloride	5.67	117	45544	6.338	ug/l #	14
43) Isopropyl Acetate	6.46	43	25480	2.110	ug/l	100
48) Methyl methacrylate	7.68	41	13528	2.181	ug/l #	22
49) 1,4-Dioxane	7.76	88	97	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	105710	13.619	ug/l #	51
54) cis-1,3-Dichloropropene	8.62	75	51470	6.413	ug/l #	64
59) 2-Hexanone	9.54	43	73272	12.387	ug/l #	52
76) 1,2,3-Trichloropropane	11.13	75	169168	21.885	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	169168	64.833	ug/l #	10
90) Hexachloroethane	12.59	117	157	2.947	ug/l #	20
95) Naphthalene	13.83	128	7941	0.289	ug/l #	93

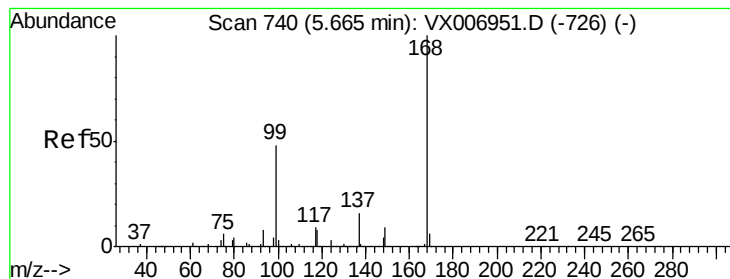
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX007315.D

Acq: 30 Jan 2019 15:24

Instrument :

MSVOA_X

ClientSampled :

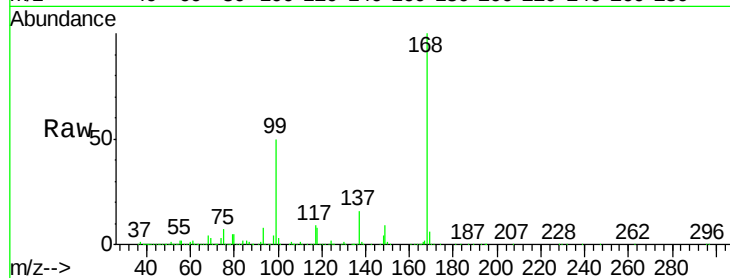
TP-1

Tot Ion:168 Resp: 526376

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

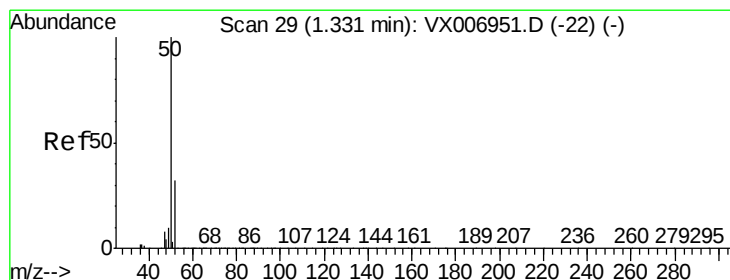
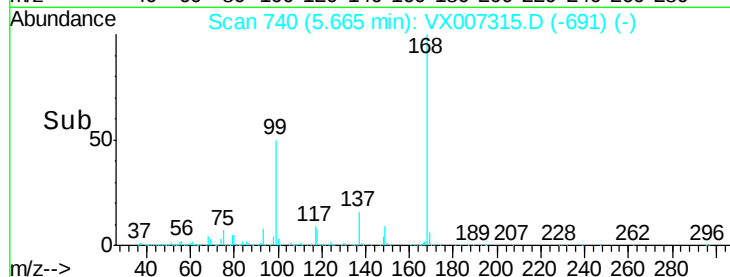
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.239 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX007315.D

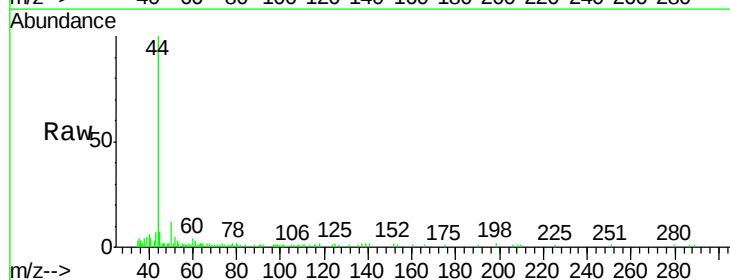
Acq: 30 Jan 2019 15:24

Tgt Ion: 50 Resp: 1202

Ion Ratio Lower Upper

50 100

52 23.0 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

800

600

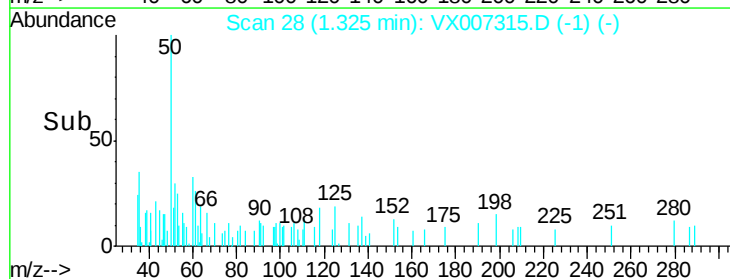
400

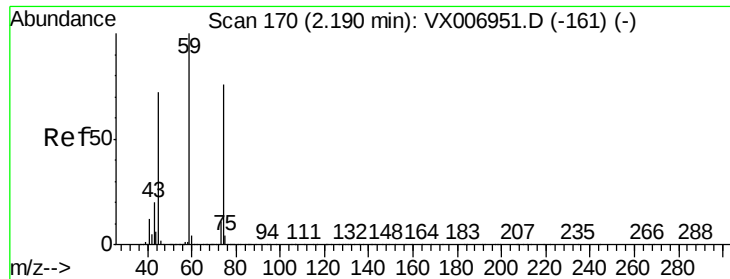
200

0

Time-->

1.30 1.35





#8

Diethyl Ether

Concen: 0.228 ug/l

RT: 2.21 min Scan# 173

Delta R.T. 0.02 min

Lab File: VX007315.D

Acq: 30 Jan 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

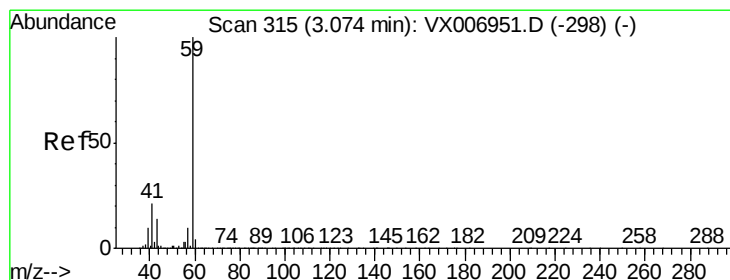
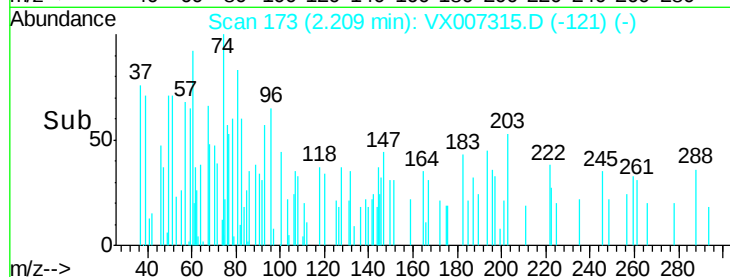
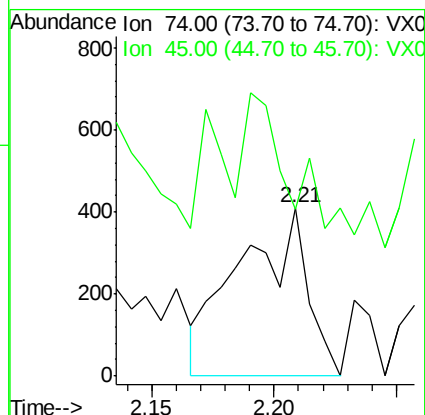
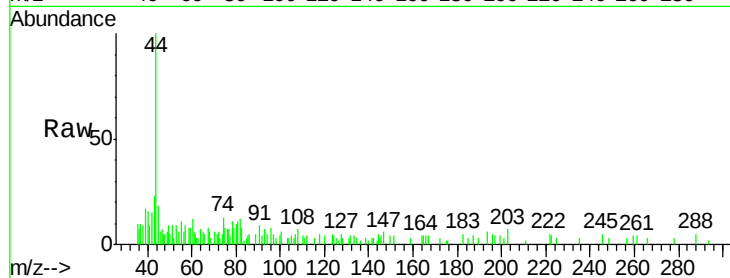
TP-1

Tot Ion: 74 Resp: 794

Ion Ratio Lower Upper

74 100

45 53.0 46.3 138.9



#11

Tert butyl alcohol

Concen: 1.331 ug/l

RT: 3.06 min Scan# 312

Delta R.T. -0.02 min

Lab File: VX007315.D

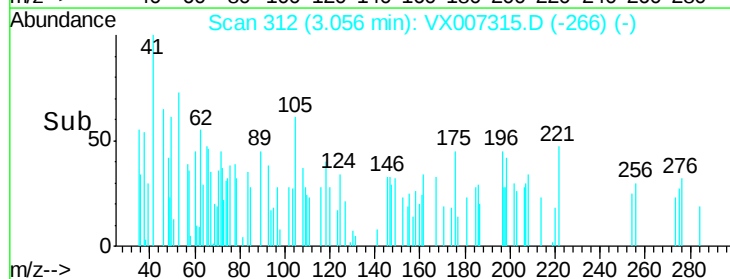
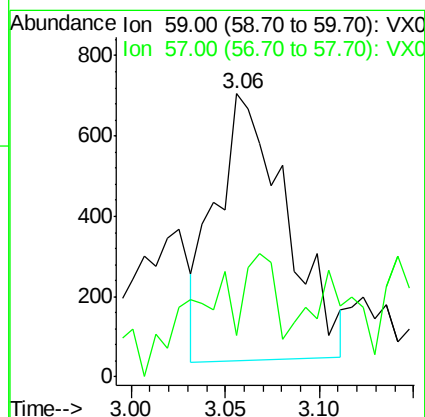
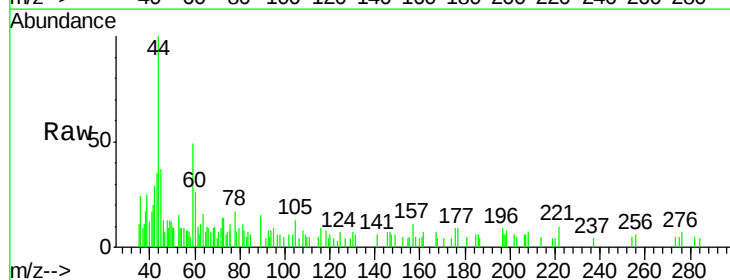
Acq: 30 Jan 2019 15:24

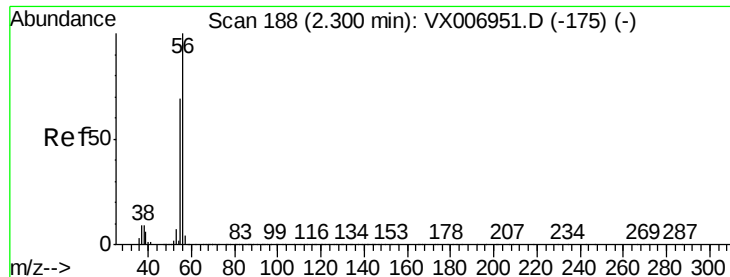
Tgt Ion: 59 Resp: 1727

Ion Ratio Lower Upper

59 100

57 26.8 8.5 12.7#





#13

Acrolein

Concen: 3.727 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.00 min

Lab File: VX007315.D

Acq: 30 Jan 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

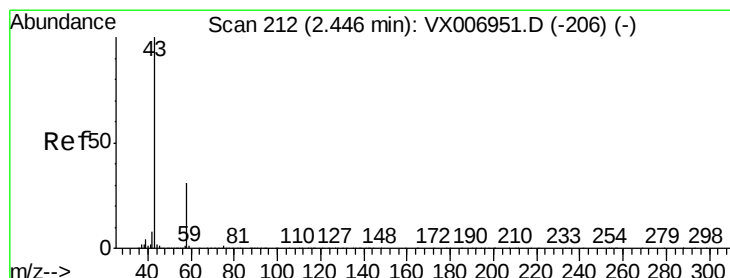
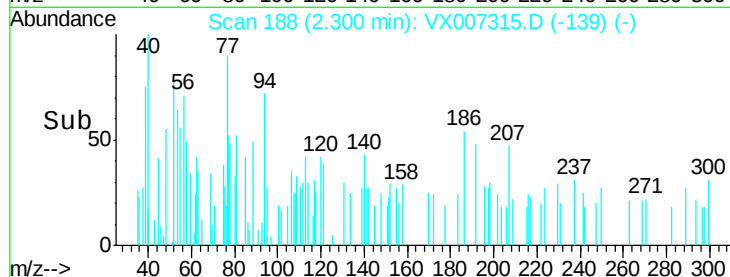
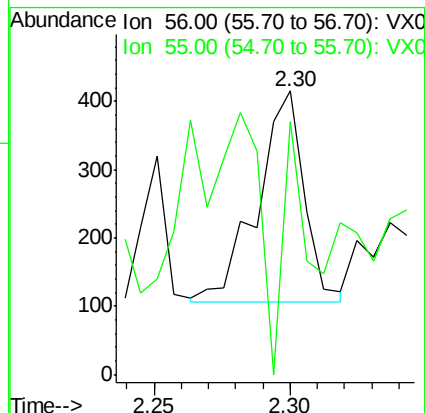
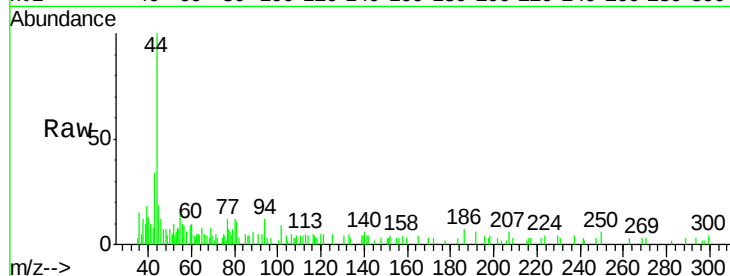
TP-1

Tot Ion: 56 Resp: 364

Ion Ratio Lower Upper

56 100

55 68.7 58.2 87.4



#16

Acetone

Concen: 12.484 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007315.D

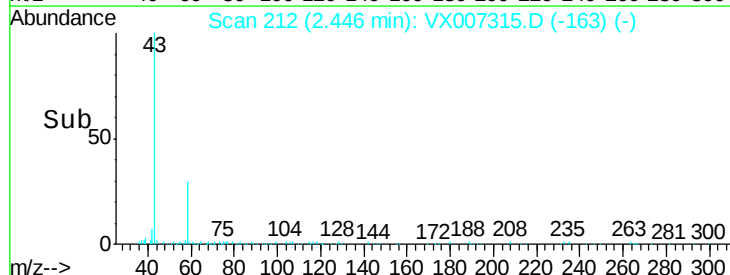
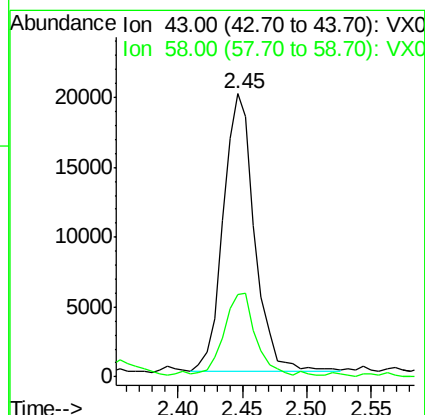
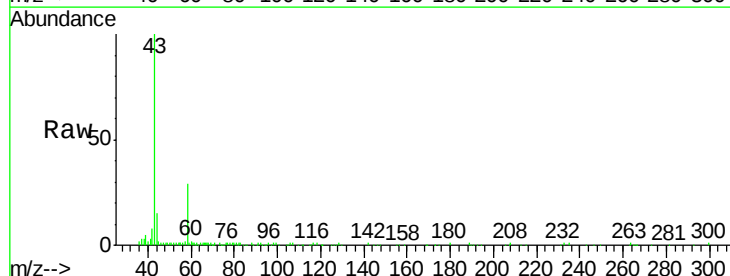
Acq: 30 Jan 2019 15:24

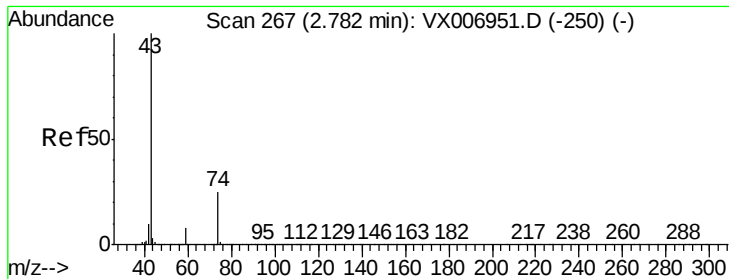
Tgt Ion: 43 Resp: 33951

Ion Ratio Lower Upper

43 100

58 28.7 25.0 37.6

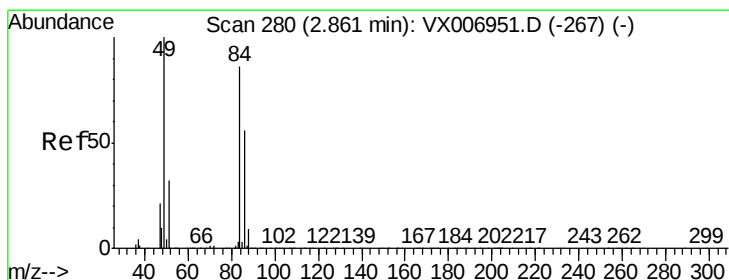
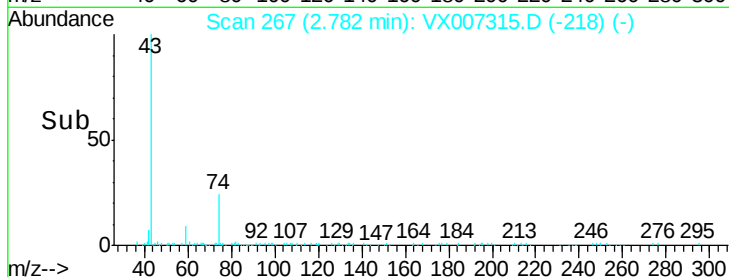
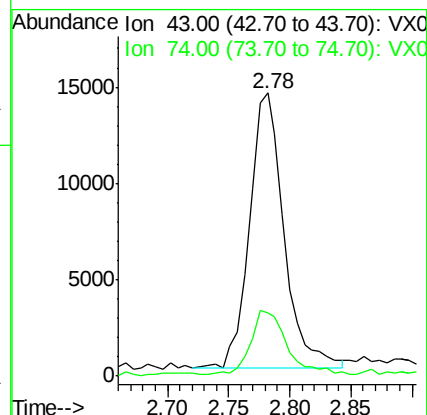
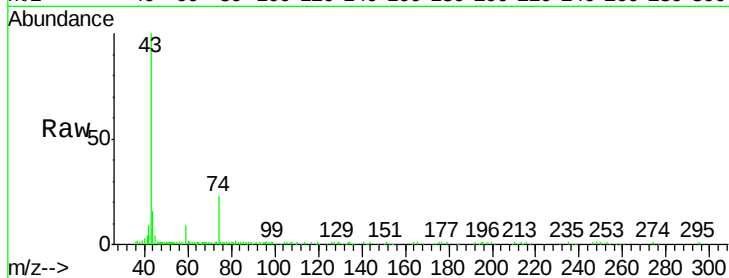




#18
Methyl Acetate
Concen: 3.541 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX007315.D
Acq: 30 Jan 2019 15:24

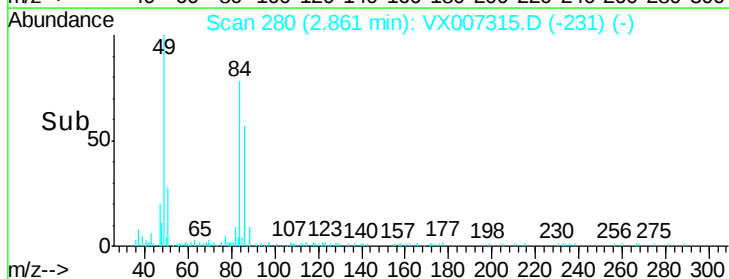
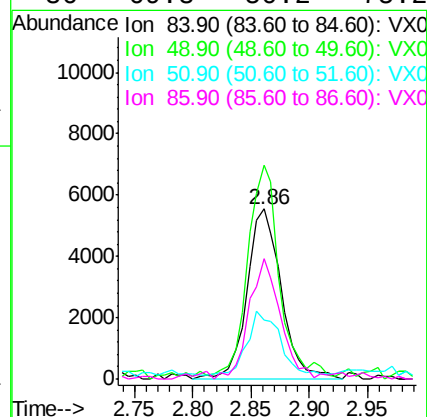
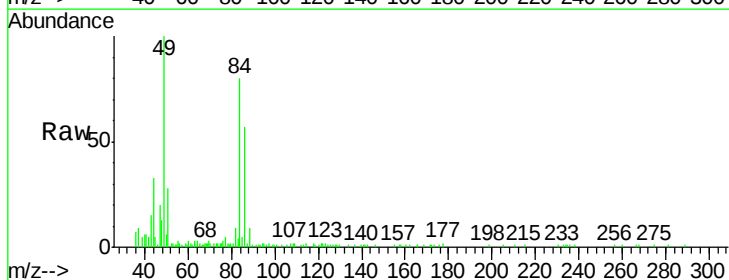
Instrument :
MSVOA_X
ClientSampleId :
TP-1

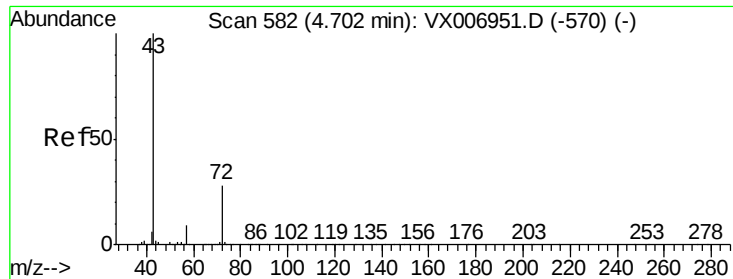
Tot Ion: 43 Resp: 27885
Ion Ratio Lower Upper
43 100
74 24.8 18.6 28.0



#20
Methylene Chloride
Concen: 1.650 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007315.D
Acq: 30 Jan 2019 15:24

Tgt Ion: 84 Resp: 11366
Ion Ratio Lower Upper
84 100
49 124.2 91.8 137.6
51 31.9 28.5 42.7
86 69.8 50.2 75.2





#25

2-Butanone

Concen: 3.186 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX007315.D

Acq: 30 Jan 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

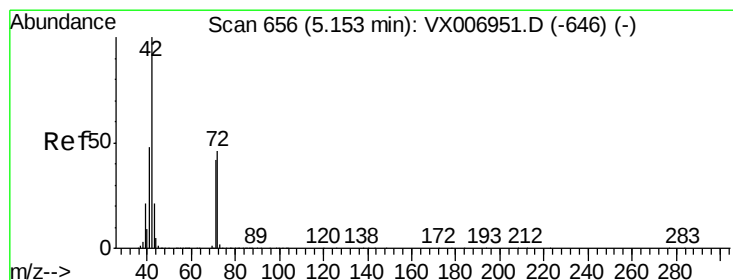
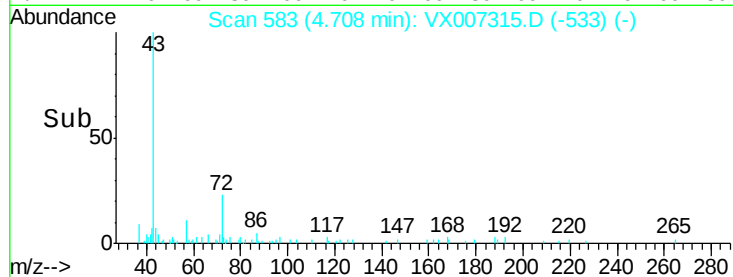
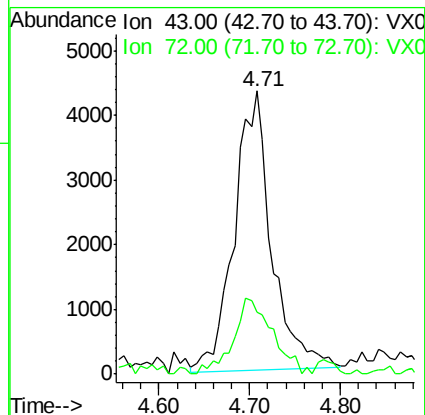
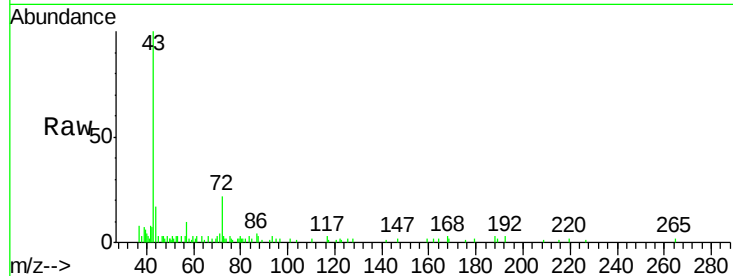
TP-1

Tot Ion: 43 Resp: 12396

Ion Ratio Lower Upper

43 100

72 22.4 22.4 33.6#



#29

Tetrahydrofuran

Concen: 0.752 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX007315.D

Acq: 30 Jan 2019 15:24

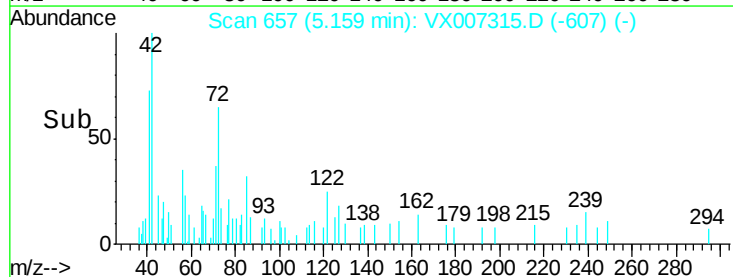
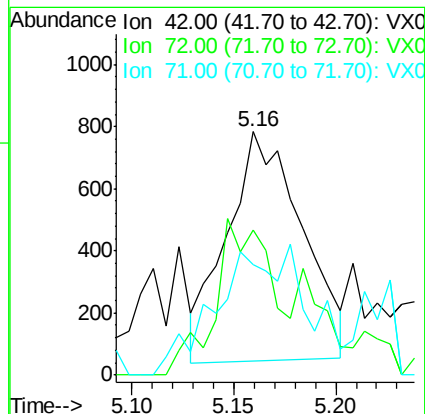
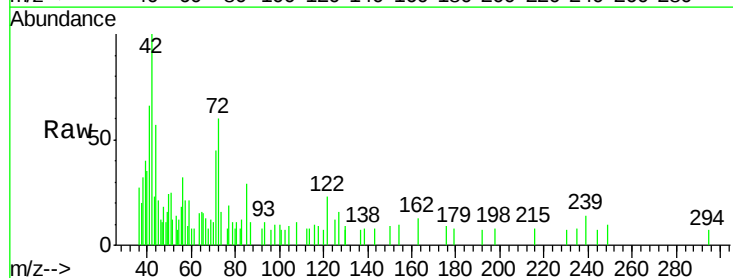
Tgt Ion: 42 Resp: 1902

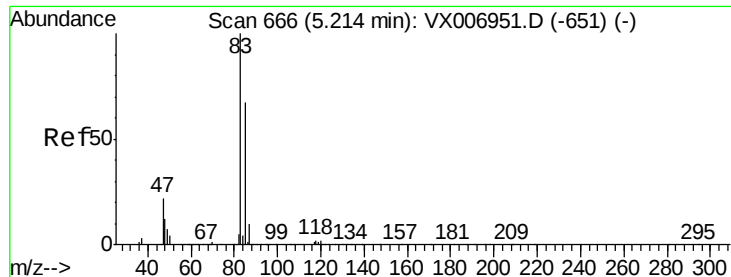
Ion Ratio Lower Upper

42 100

72 50.9 38.9 58.3

71 0.0 36.2 54.4#

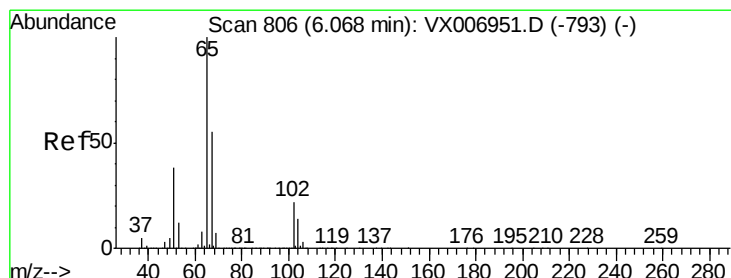
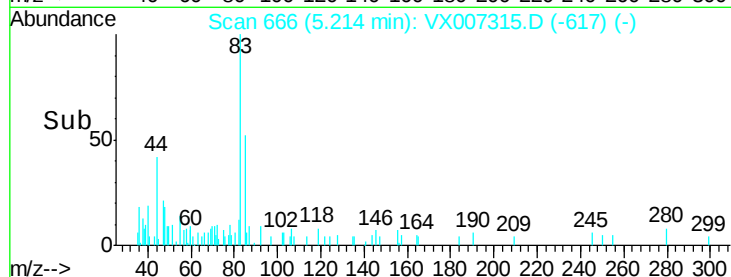
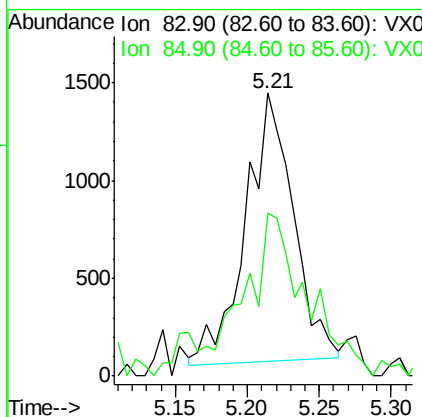
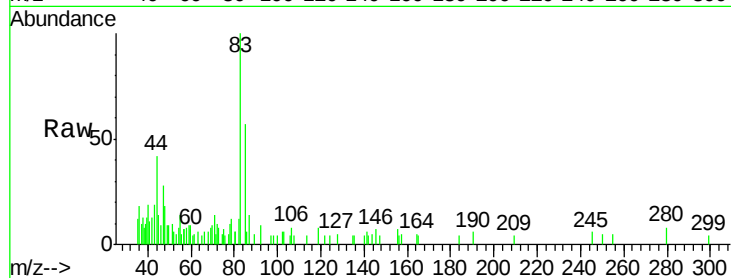




#30
Chloroform
Concen: 0.344 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.00 min
Lab File: VX007315.D
Acq: 30 Jan 2019 15:24

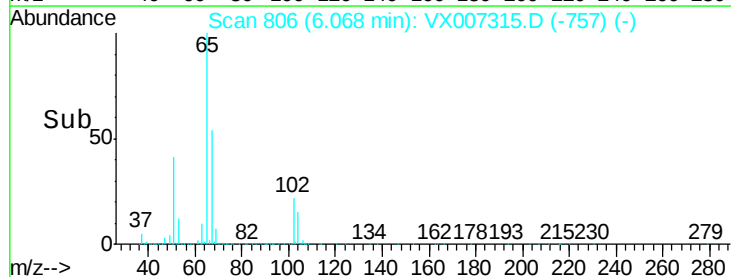
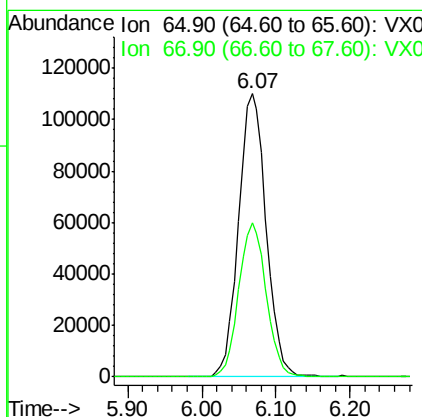
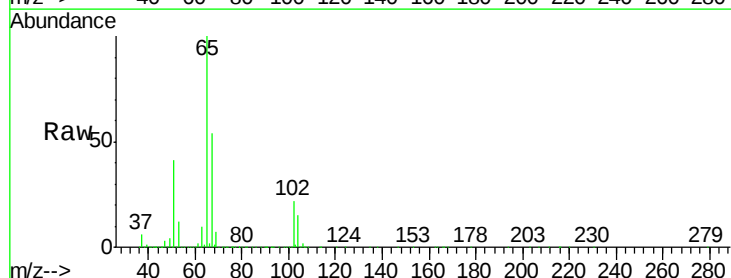
Instrument :
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TP-1

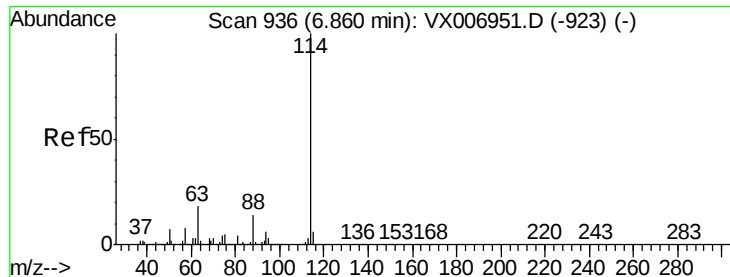
Tot Ion: 83 Resp: 3137
Ion Ratio Lower Upper
83 100
85 49.7 51.2 76.8#



#33
1,2-Dichloroethane-d4
Concen: 52.024 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX007315.D
Acq: 30 Jan 2019 15:24

Tgt Ion: 65 Resp: 286186
Ion Ratio Lower Upper
65 100
67 54.2 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: VX007315.D

Acq: 30 Jan 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

TP-1

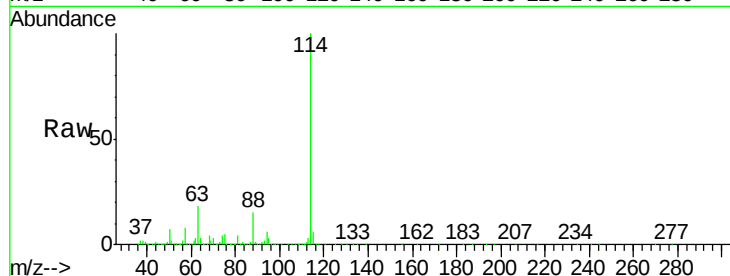
Tot Ion:114 Resp: 821491

Ion Ratio Lower Upper

114 100

63 18.0 0.0 34.8

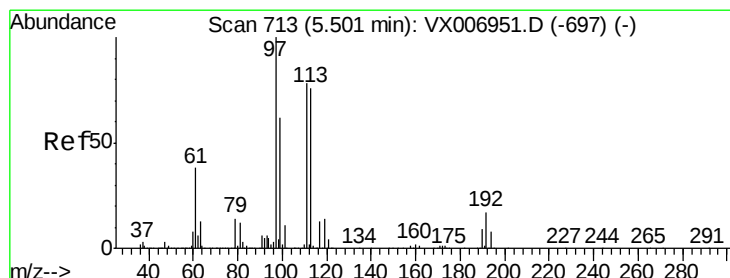
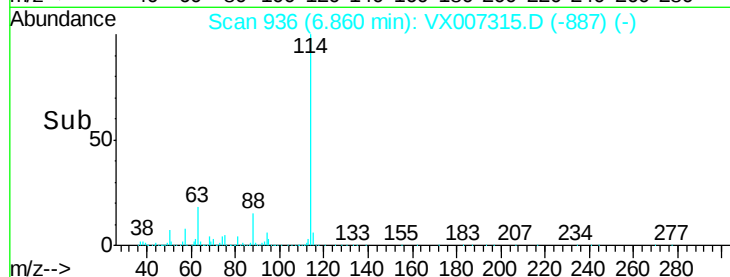
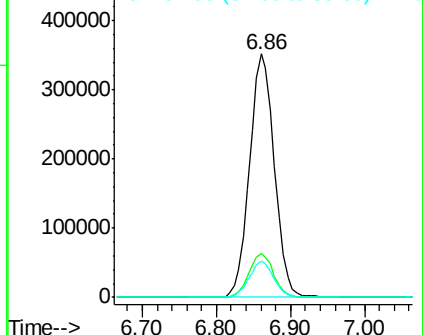
88 14.8 0.0 28.8



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: 48.860 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007315.D

Acq: 30 Jan 2019 15:24

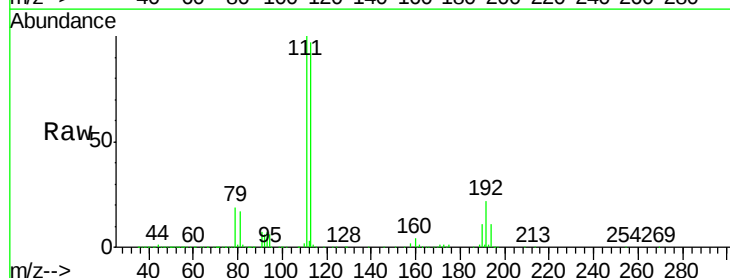
Tgt Ion:113 Resp: 257041

Ion Ratio Lower Upper

113 100

111 102.7 81.6 122.4

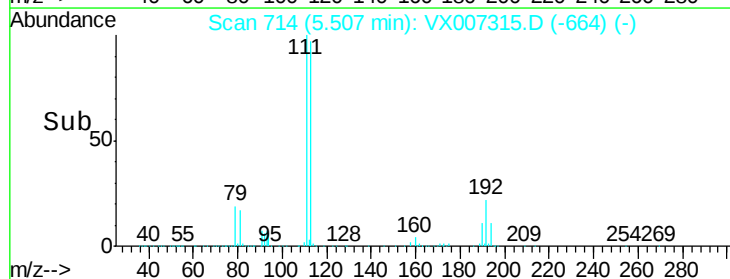
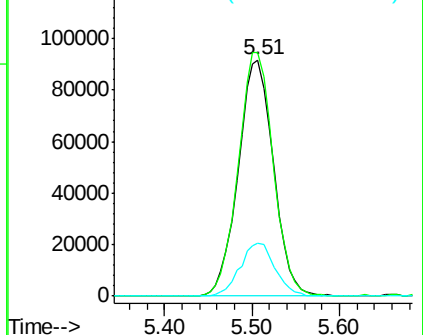
192 22.4 16.7 25.1

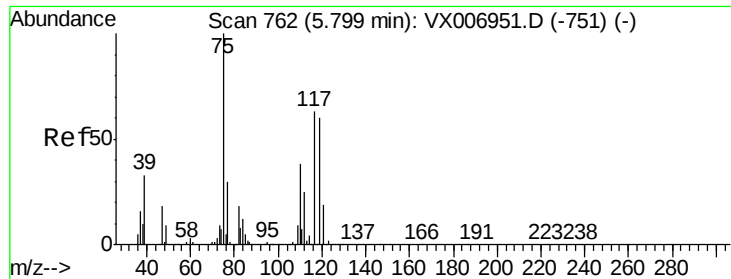


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.655 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007315.D

Acq: 30 Jan 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

TP-1

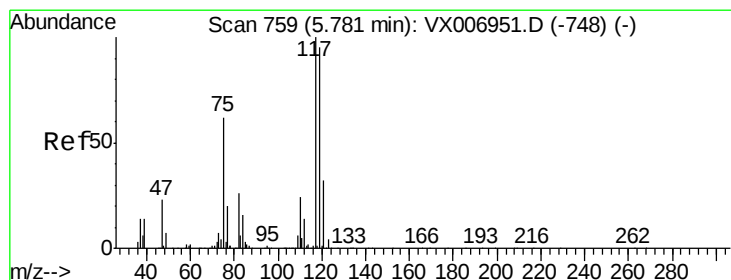
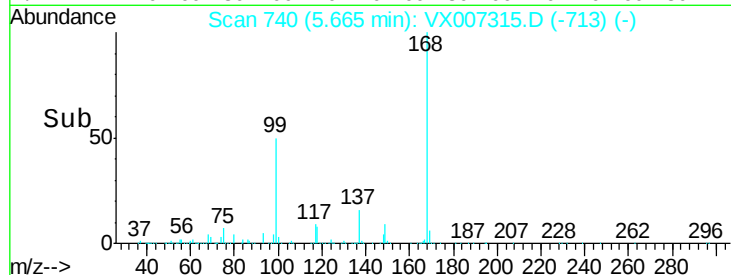
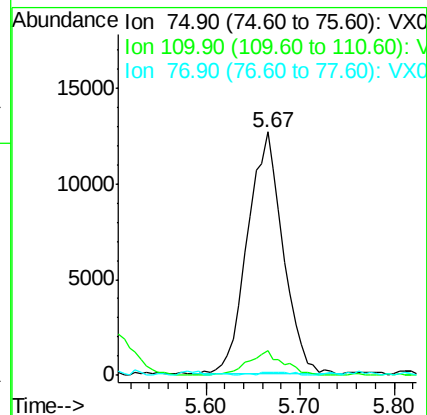
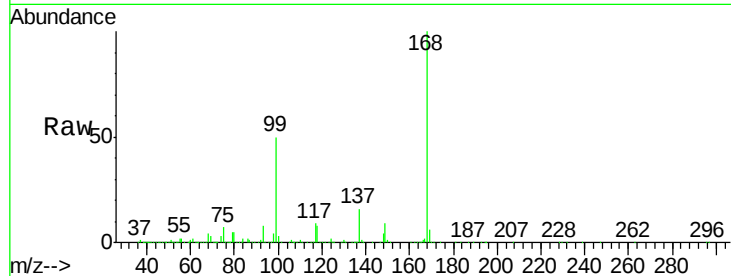
Tot Ion: 75 Resp: 33249

Ion Ratio Lower Upper

75 100

110 10.3 20.2 60.5#

77 1.2 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.338 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007315.D

Acq: 30 Jan 2019 15:24

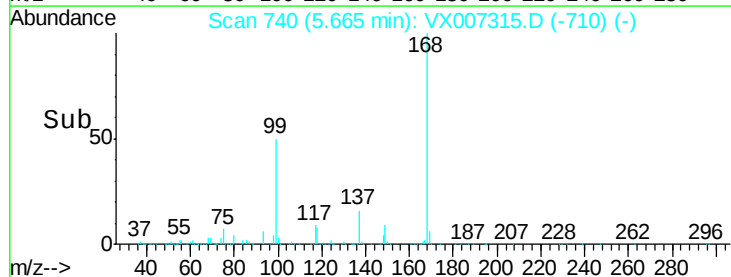
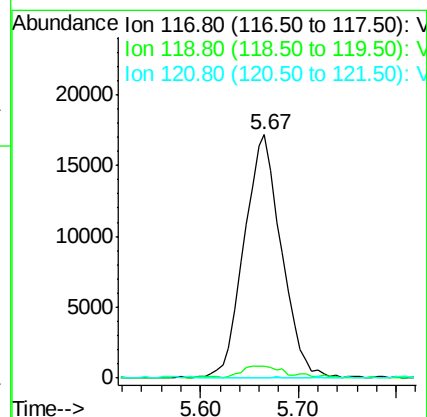
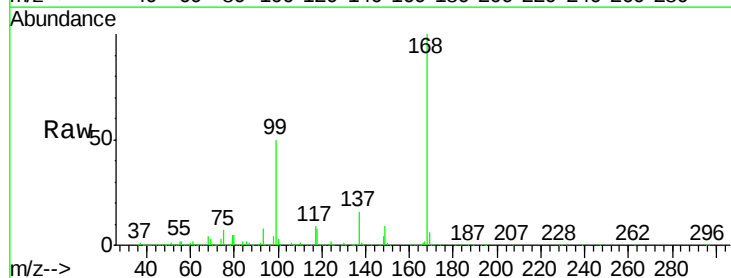
Tgt Ion: 117 Resp: 45544

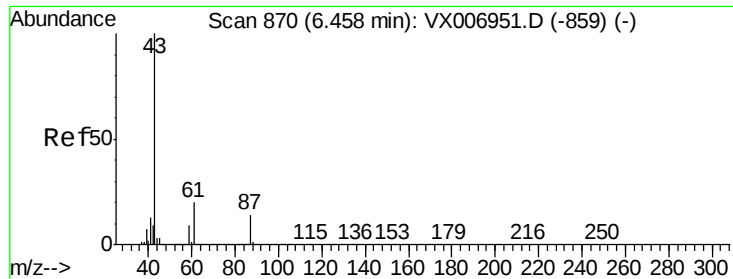
Ion Ratio Lower Upper

117 100

119 5.0 79.4 119.2#

121 0.0 24.0 36.0#





#43

Isopropyl Acetate

Concen: 2.110 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.00 min

Lab File: VX007315.D

Acq: 30 Jan 2019 15:24

Instrument :

MSVOA_X

ClientSampled :

TP-1

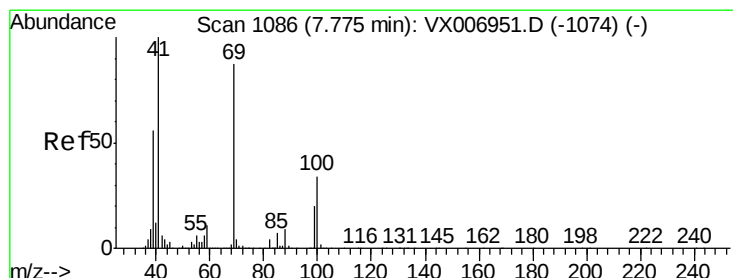
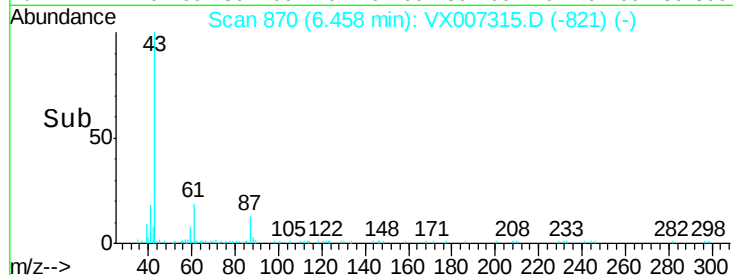
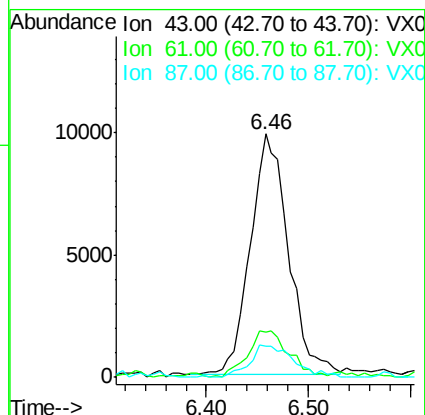
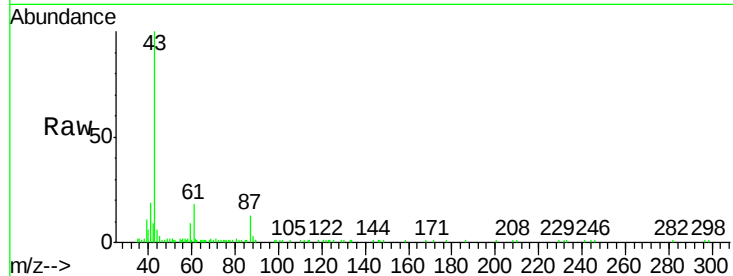
Tot Ion: 43 Resp: 25480

Ion Ratio Lower Upper

43 100

61 21.0 16.8 25.2

87 15.4 12.4 18.6



#48

Methyl methacrylate

Concen: 2.181 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007315.D

Acq: 30 Jan 2019 15:24

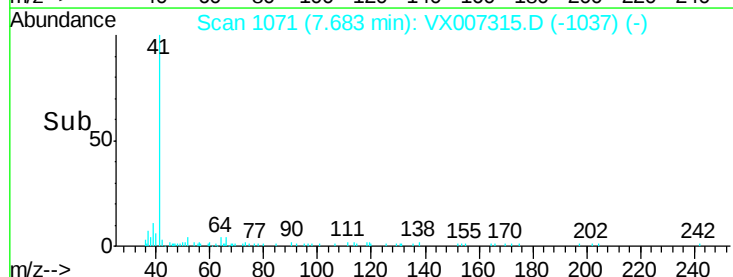
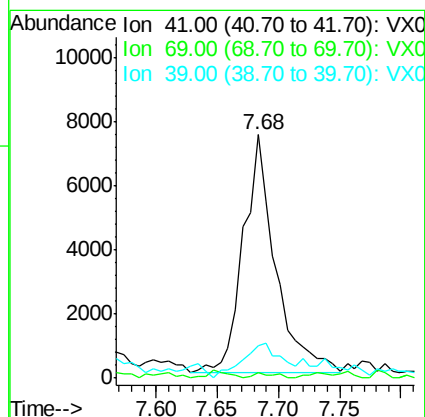
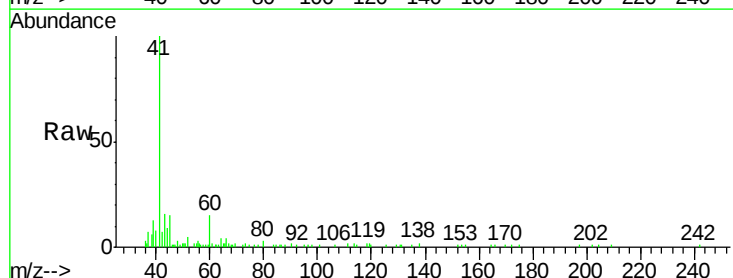
Tgt Ion: 41 Resp: 13528

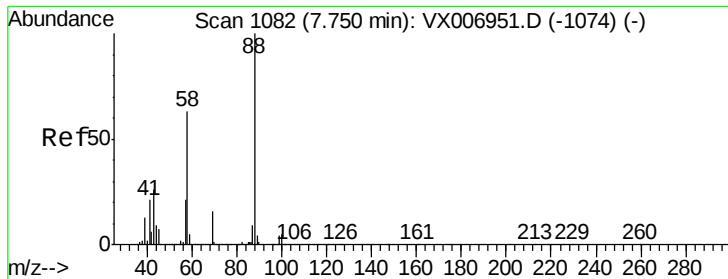
Ion Ratio Lower Upper

41 100

69 1.5 72.4 108.6#

39 17.7 45.8 68.8#





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX007315.D

Acq: 30 Jan 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

TP-1

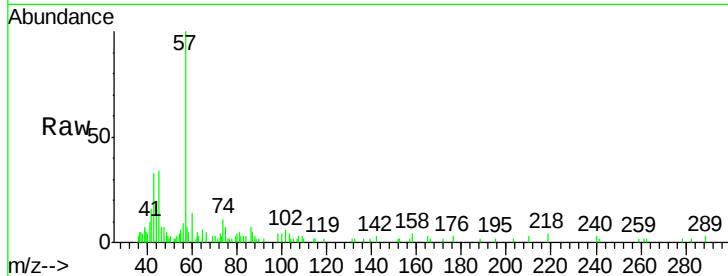
Tot Ion: 88 Resp: 97

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

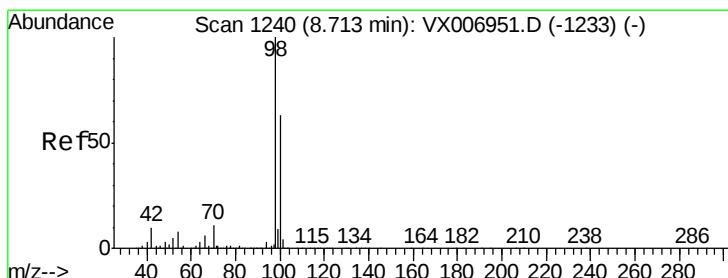
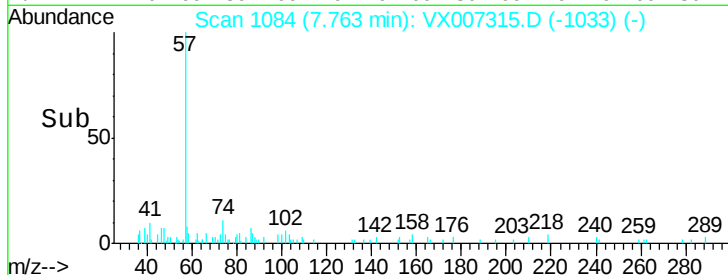
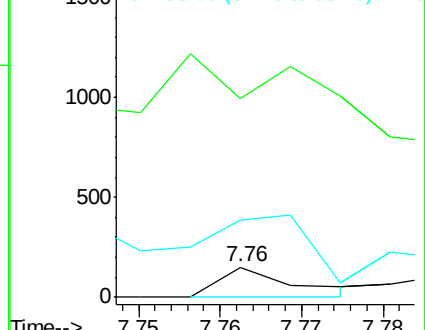
58 0.0 51.0 76.4#



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: 52.422 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007315.D

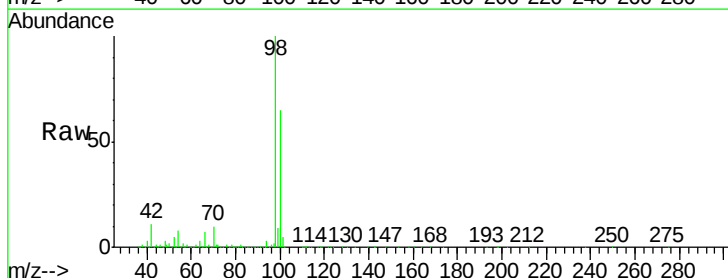
Acq: 30 Jan 2019 15:24

Tgt Ion: 98 Resp: 1009444

Ion Ratio Lower Upper

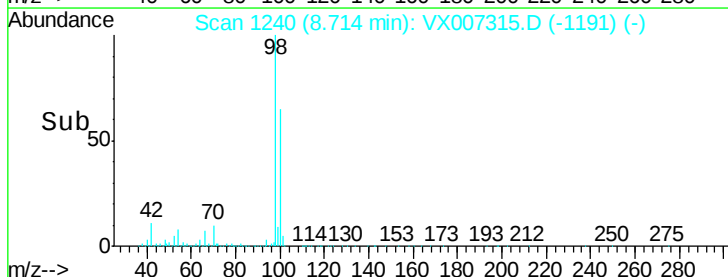
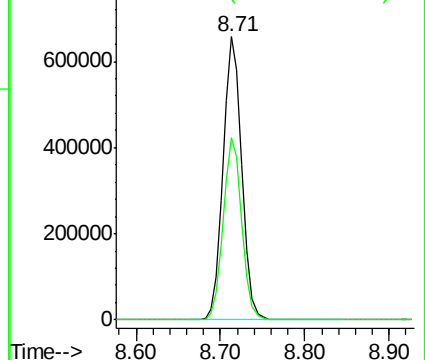
98 100

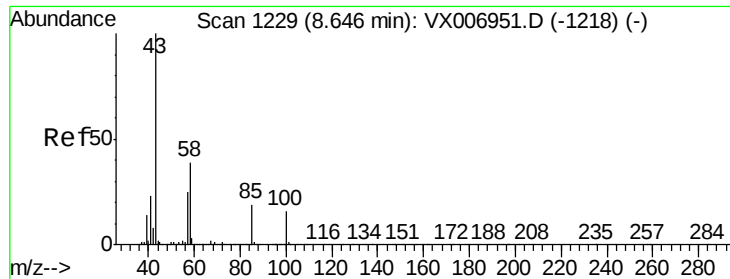
100 63.8 52.0 78.0



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: 13.619 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007315.D

Acq: 30 Jan 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

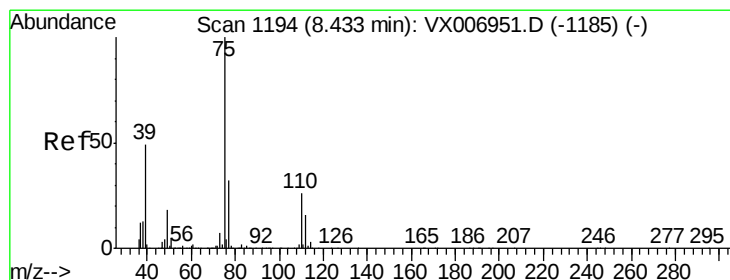
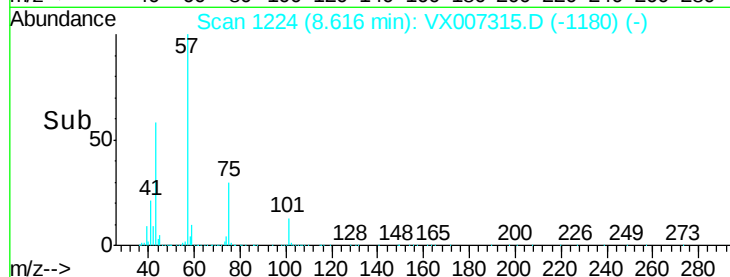
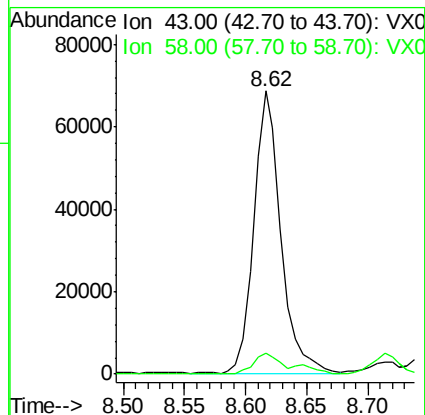
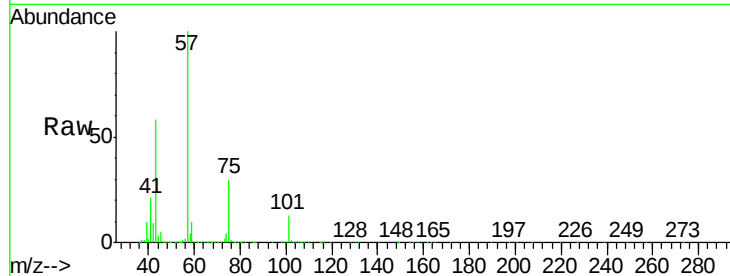
TP-1

Tot Ion: 43 Resp: 105710

Ion Ratio Lower Upper

43 100

58 9.8 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 6.413 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007315.D

Acq: 30 Jan 2019 15:24

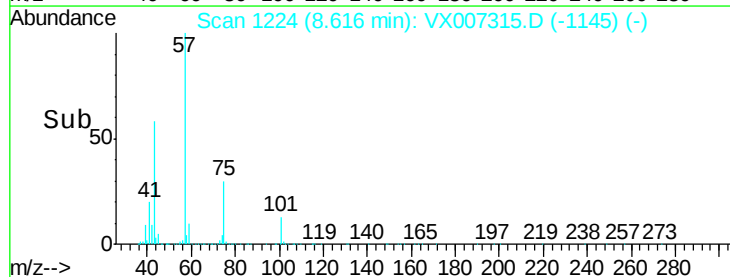
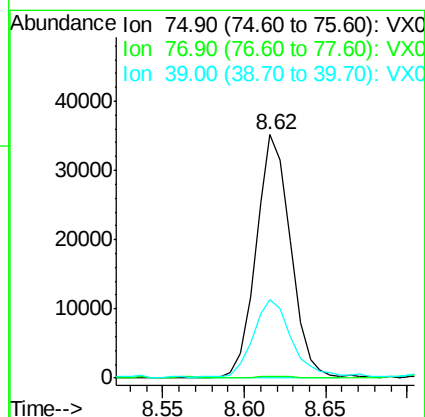
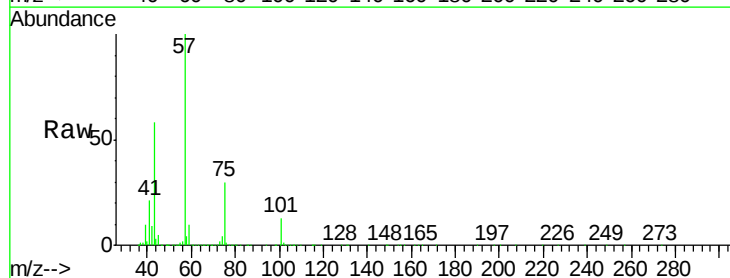
Tgt Ion: 75 Resp: 51470

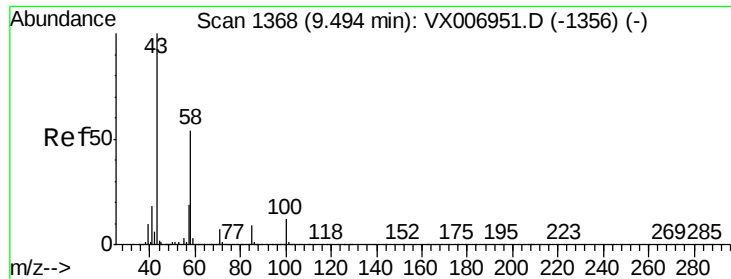
Ion Ratio Lower Upper

75 100

77 0.5 26.2 39.2#

39 32.0 36.7 55.1#

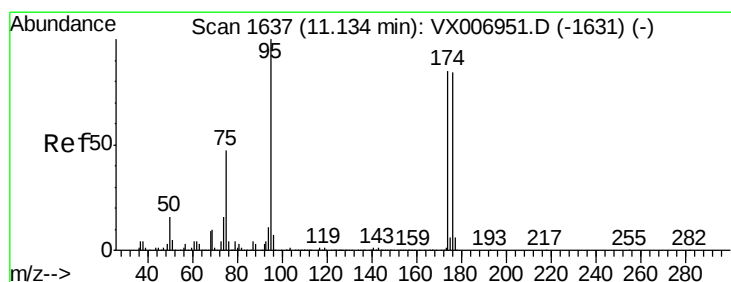
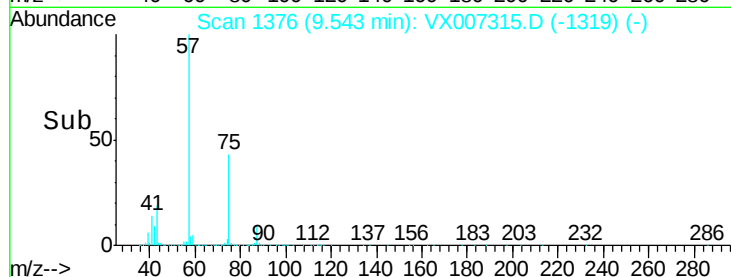
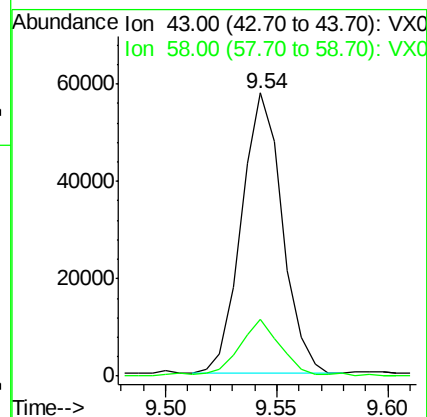
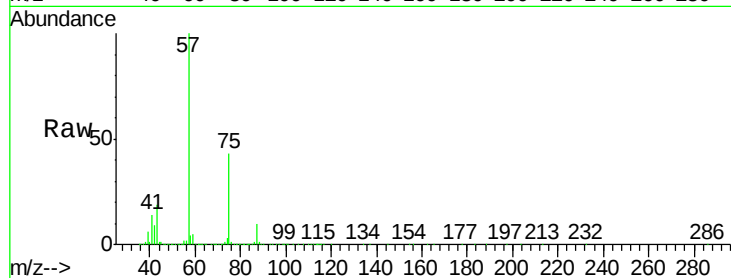




#59
2-Hexanone
Concen: 12.387 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX007315.D
Acq: 30 Jan 2019 15:24

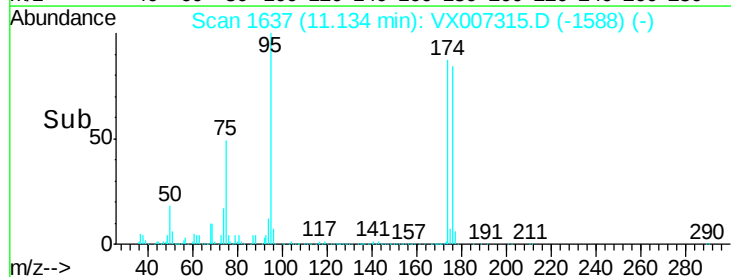
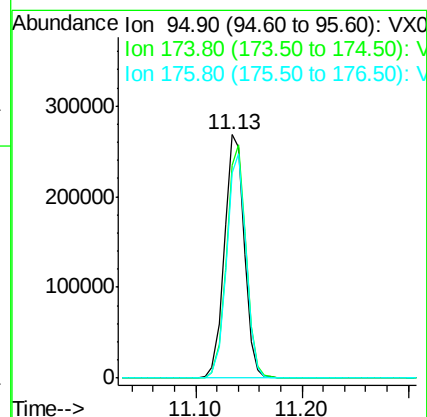
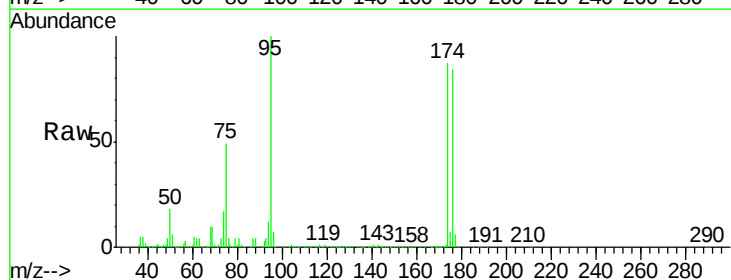
Instrument :
MSVOA_X
ClientSampled :
TP-1

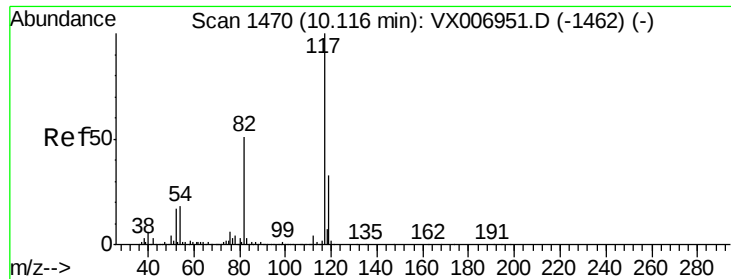
Tot Ion: 43 Resp: 73272
Ion Ratio Lower Upper
43 100
58 20.8 27.7 83.1#



#62
4-Bromofluorobenzene
Concen: 52.256 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007315.D
Acq: 30 Jan 2019 15:24

Tgt Ion: 95 Resp: 350799
Ion Ratio Lower Upper
95 100
174 93.3 0.0 182.2
176 90.3 0.0 178.8

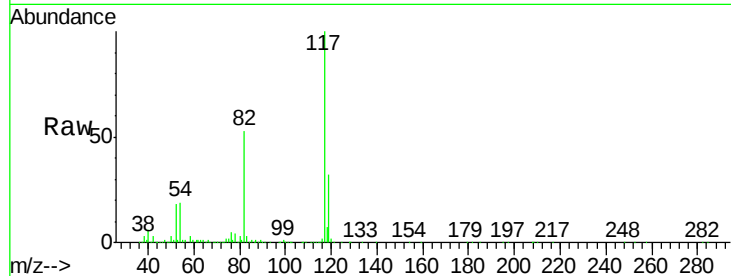




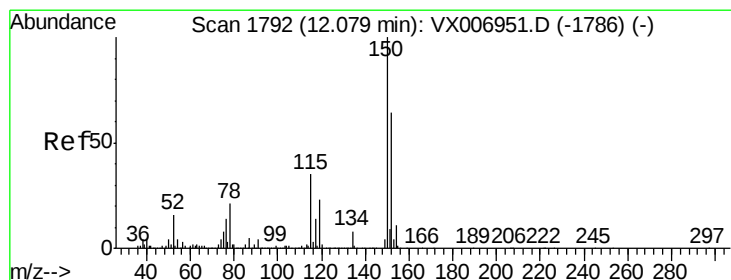
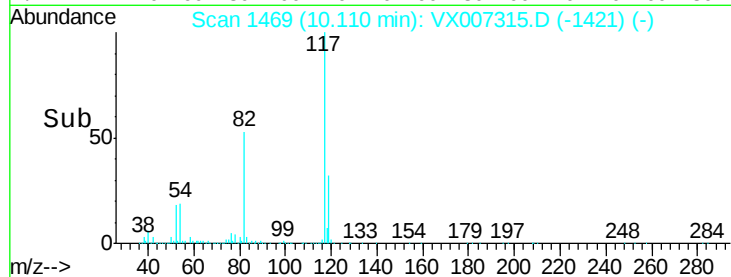
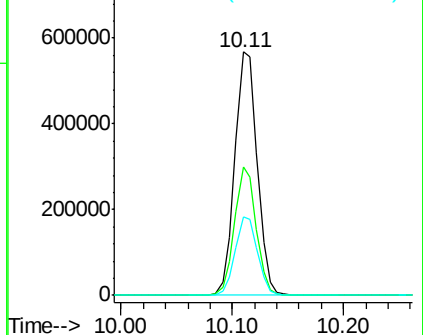
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VX007315.D
Acq: 30 Jan 2019 15:24

Instrument :
MSVOA_X
ClientSampleId :
TP-1

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.8	41.0	61.6
119	32.2	25.4	38.0

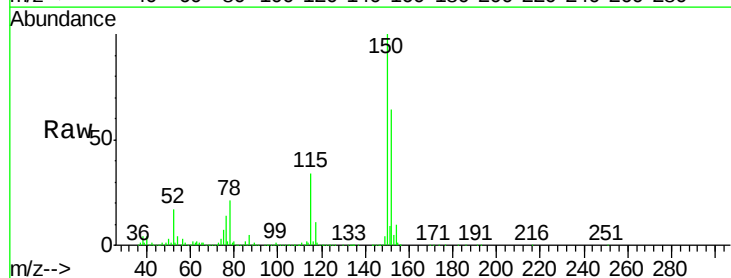


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

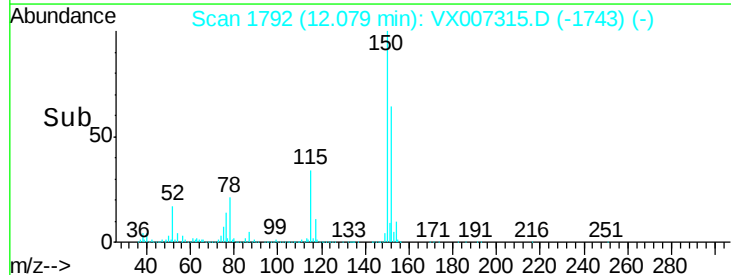
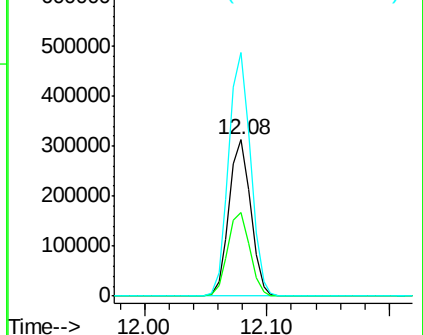


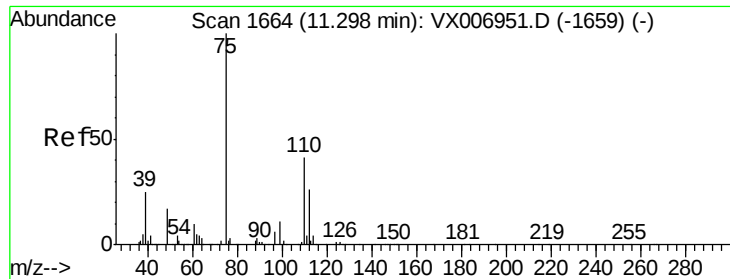
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX007315.D
Acq: 30 Jan 2019 15:24

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.0	39.1	117.2
150	157.9	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: 21.885 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007315.D

Acq: 30 Jan 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

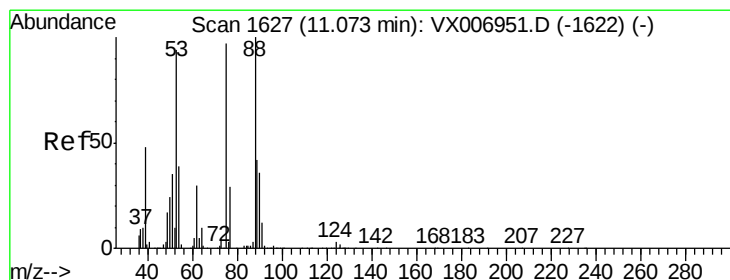
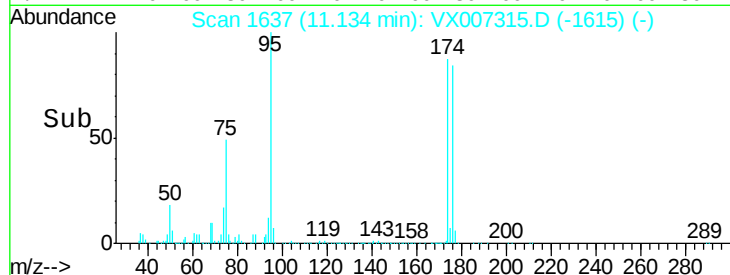
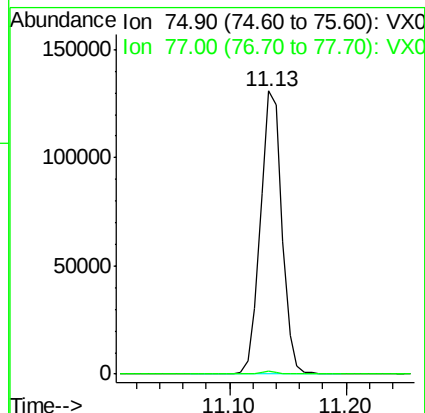
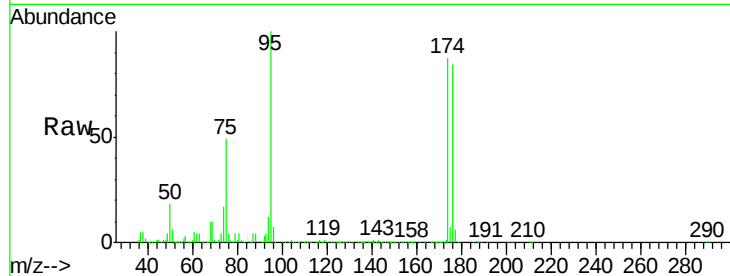
TP-1

Tot Ion: 75 Resp: 169168

Ion Ratio Lower Upper

75 100

77 1.2 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.833 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007315.D

Acq: 30 Jan 2019 15:24

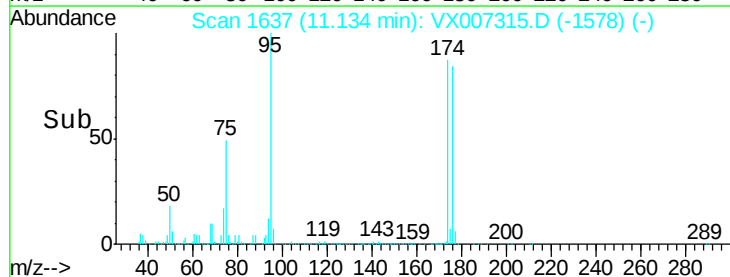
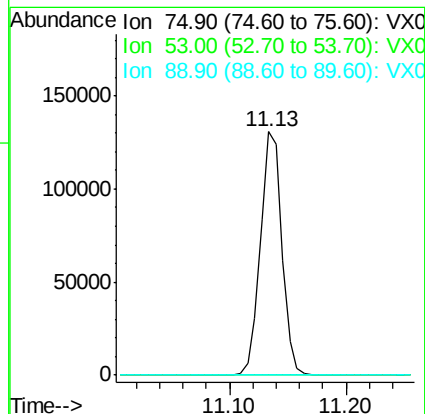
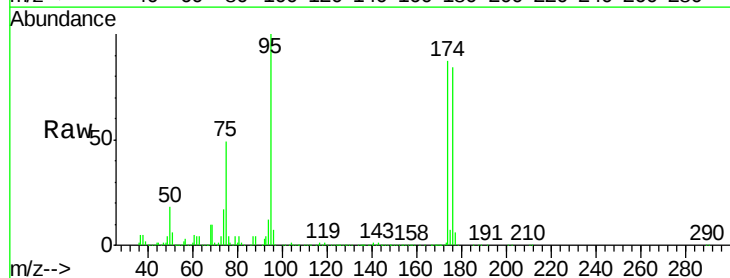
Tgt Ion: 75 Resp: 169168

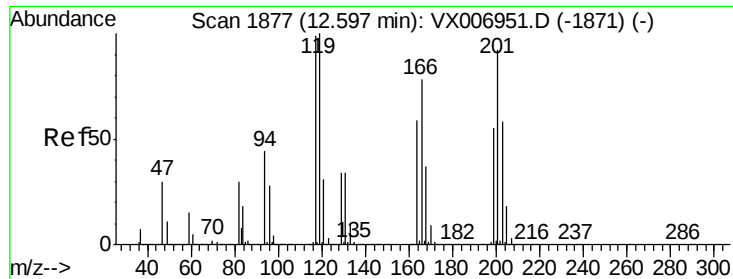
Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

89 0.0 38.0 57.0#





#90

Hexachloroethane

Concen: 2.947 ug/l

RT: 12.59 min Scan# 1876

Delta R.T. -0.01 min

Lab File: VX007315.D

Acq: 30 Jan 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

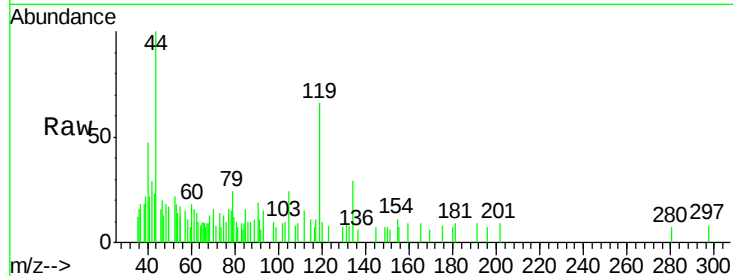
TP-1

Tot Ion:117 Resp: 157

Ion Ratio Lower Upper

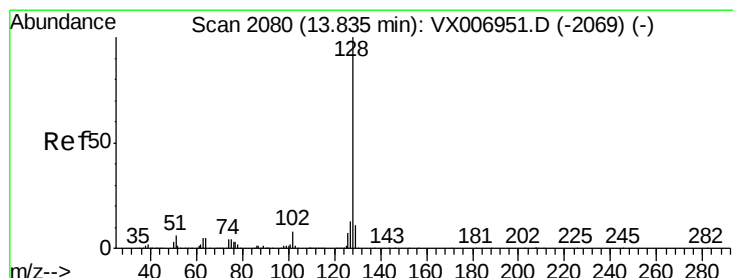
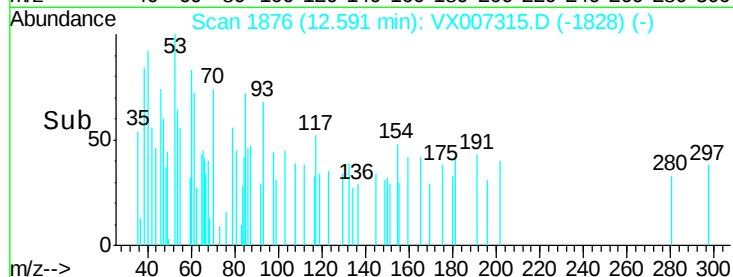
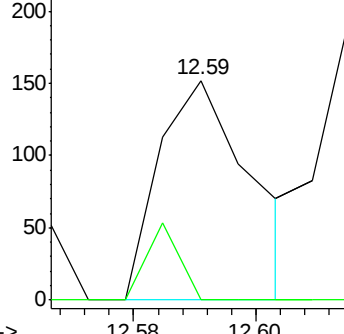
117 100

201 12.1 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: 0.289 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX007315.D

Acq: 30 Jan 2019 15:24

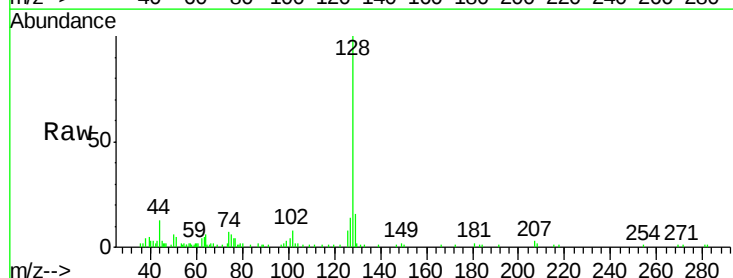
Tgt Ion:128 Resp: 7941

Ion Ratio Lower Upper

128 100

127 14.3 10.1 15.1

129 15.0 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

