

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032019\
 Data File : VX008254.D
 Acq On : 20 Mar 2019 20:13
 Operator : JC/SP
 Sample : K1945-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M4-T1-OZ(PRE)

Quant Time: Mar 22 05:35:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 19 13:15:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	325355	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	537626	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	462420	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	187371	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	232273	47.40	ug/l	0.00
Spiked Amount			Recovery	=	94.80%	
35) Dibromofluoromethane	5.50	113	170808	47.46	ug/l	0.00
Spiked Amount			Recovery	=	94.92%	
50) Toluene-d8	8.71	98	668319	48.98	ug/l	0.00
Spiked Amount			Recovery	=	97.96%	
62) 4-Bromofluorobenzene	11.13	95	215042	45.77	ug/l	0.00
Spiked Amount			Recovery	=	91.54%	

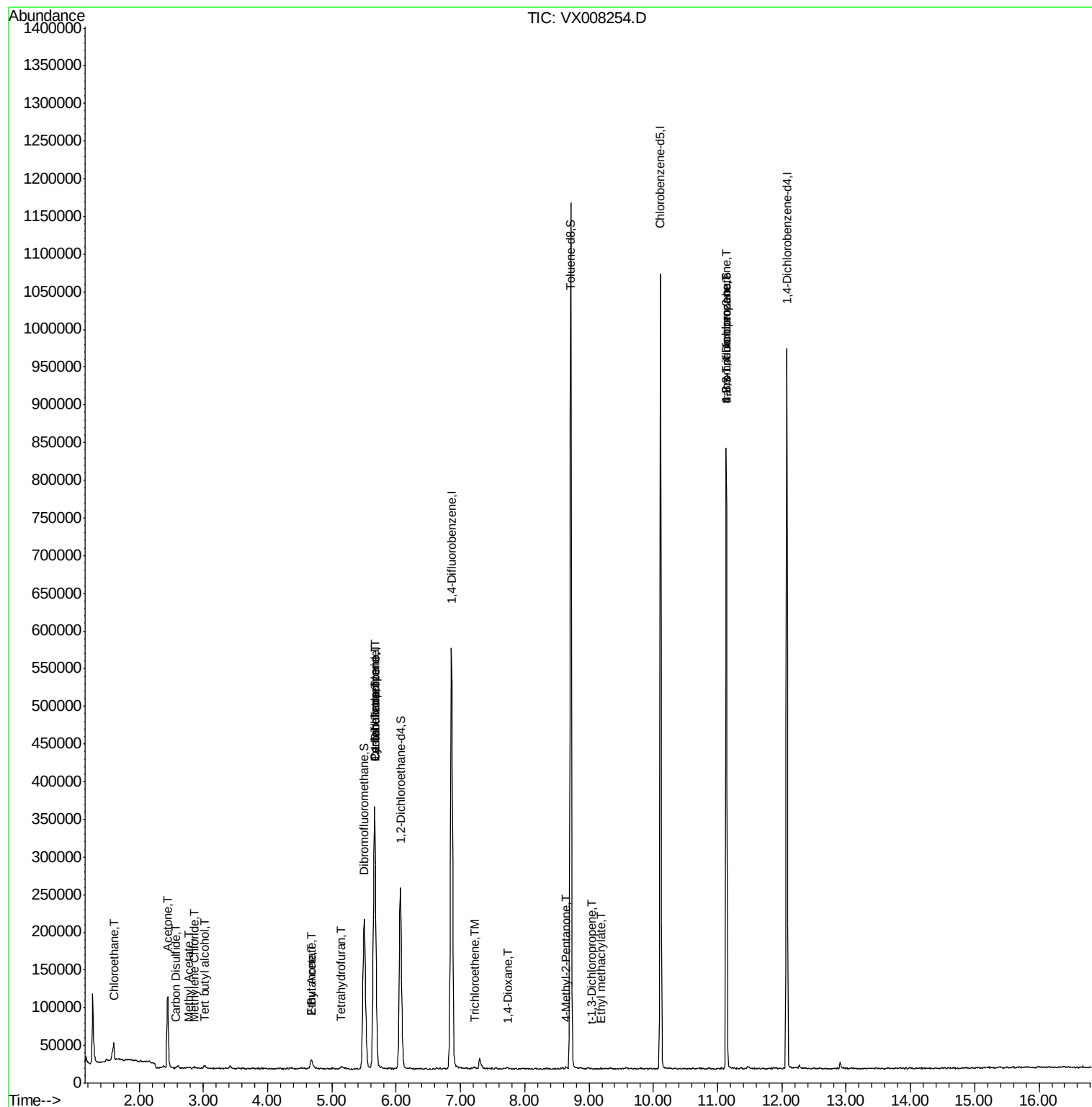
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.60	64	5604	1.811	ug/l #	49
11) Tert butyl alcohol	3.03	59	2712	2.585	ug/l #	79
13) Acrolein	2.31	56	154	Below Cal		90
16) Acetone	2.45	43	105452	37.944	ug/l	97
17) Carbon Disulfide	2.57	76	624	0.723	ug/l #	46
18) Methyl Acetate	2.78	43	2843	0.442	ug/l #	83
20) Methylene Chloride	2.87	84	1119	0.241	ug/l #	79
25) 2-Butanone	4.68	43	18872	4.600	ug/l	93
29) Tetrahydrofuran	5.15	42	3609	1.407	ug/l	93
31) Cyclohexane	5.67	56	7124	0.876	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	26071	4.165	ug/l #	50
37) Ethyl Acetate	4.68	43	18872	2.551	ug/l #	71
38) Carbon Tetrachloride	5.67	117	32780	5.878	ug/l #	16
44) Trichloroethene	7.22	130	913	0.202	ug/l	90
49) 1,4-Dioxane	7.74	88	51	0.458	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	1685	0.220	ug/l	93
53) t-1,3-Dichloropropene	9.03	75	149	1.442	ug/l #	43
56) Ethyl methacrylate	9.18	69	83	0.536	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	111218	21.104	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	111218	53.691	ug/l #	12

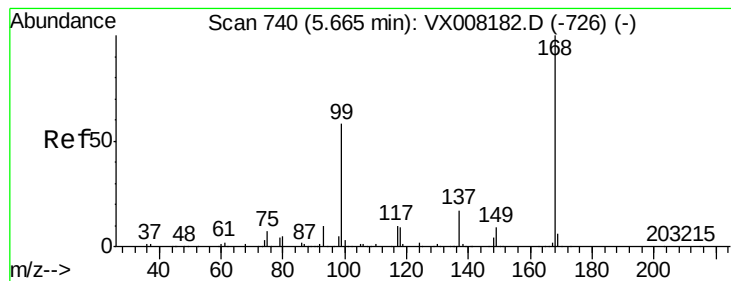
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
Quant Title : SW846 8260
QLast Update : Tue Mar 19 13:15:13 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: VX008254.D

Acq: 20 Mar 2019 20:13

Instrument :

MSVOA_X

ClientSampleId :

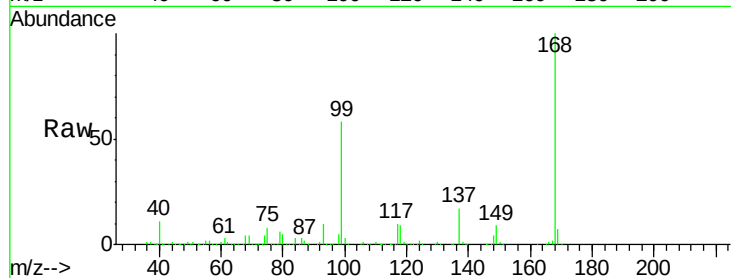
M4-T1-OZ(PRE)

Tot Ion:168 Resp: 325355

Ion Ratio Lower Upper

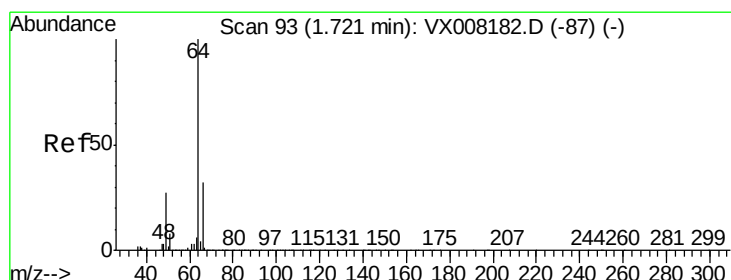
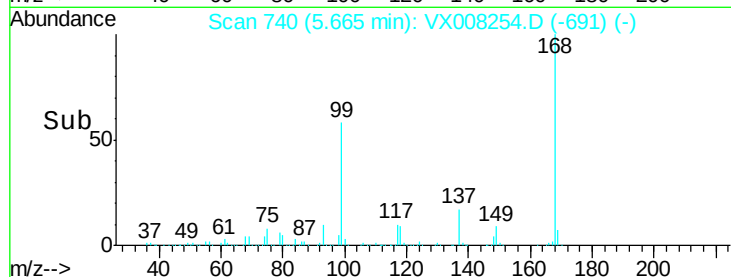
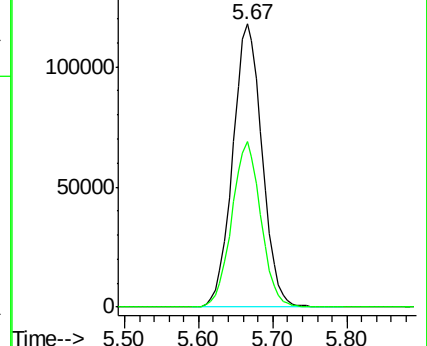
168 100

99 58.3 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: 1.811 ug/l

RT: 1.60 min Scan# 73

Delta R.T. -0.12 min

Lab File: VX008254.D

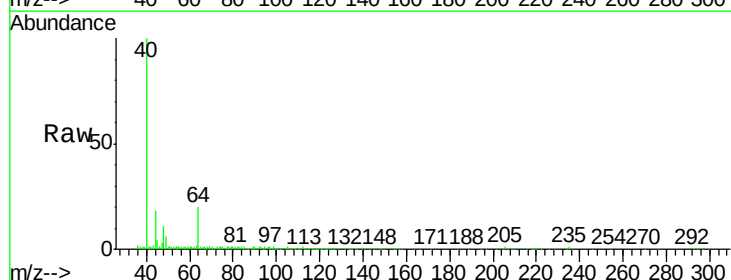
Acq: 20 Mar 2019 20:13

Tgt Ion: 64 Resp: 5604

Ion Ratio Lower Upper

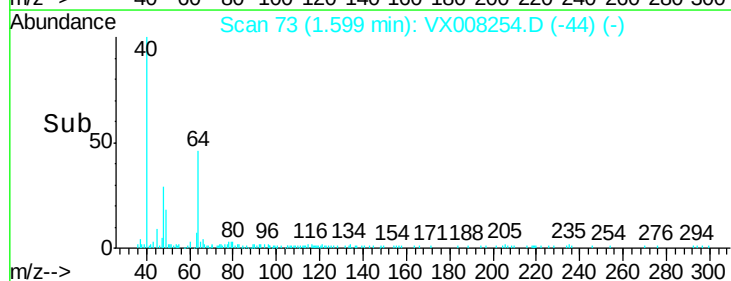
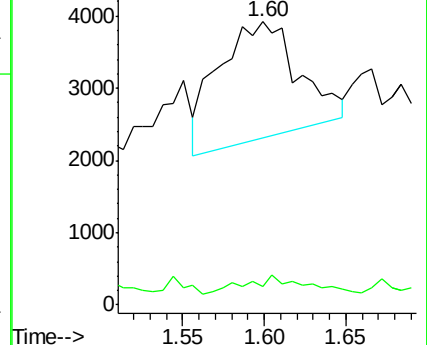
64 100

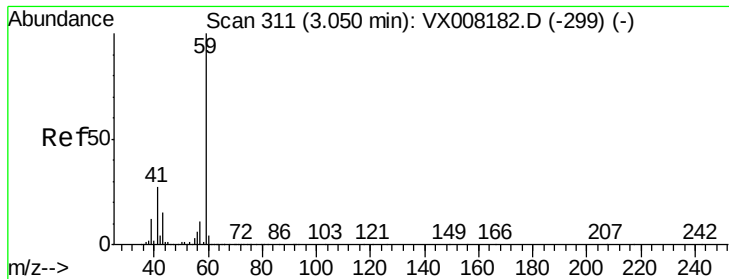
66 3.2 25.2 37.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



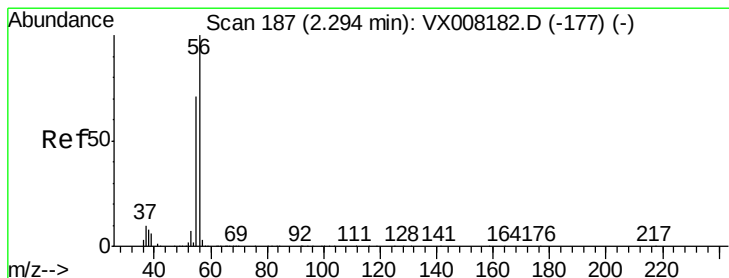
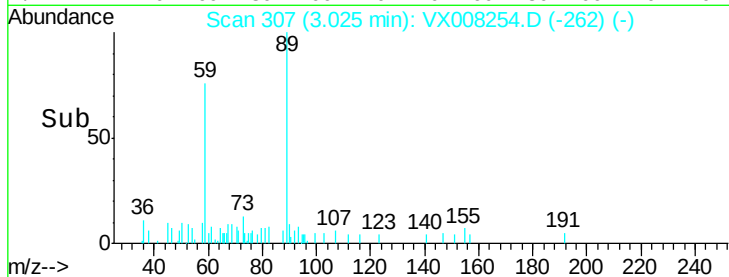
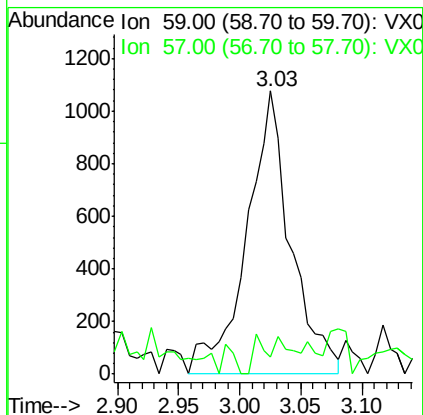
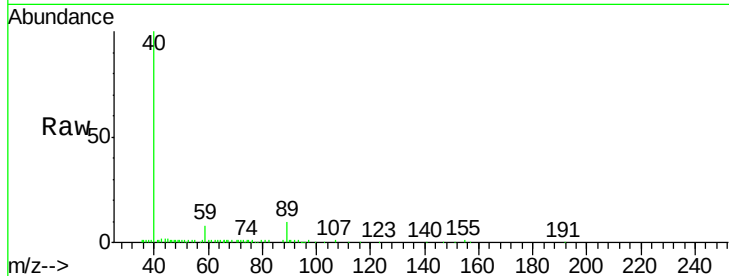


#11

Tert butyl alcohol
Concen: 2.585 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX008254.D
Acq: 20 Mar 2019 20:13

Instrument :
MSVOA_X
ClientSampleId :
M4-T1-OZ(PRE)

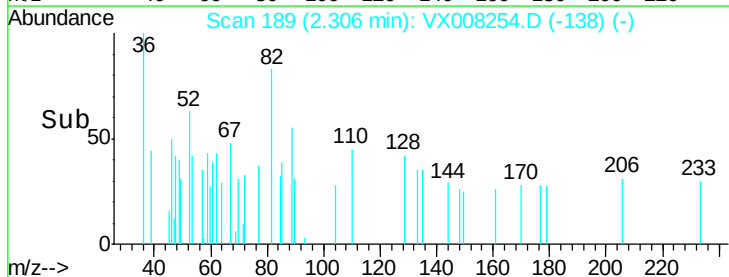
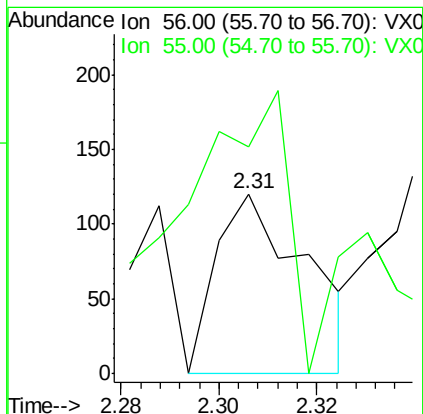
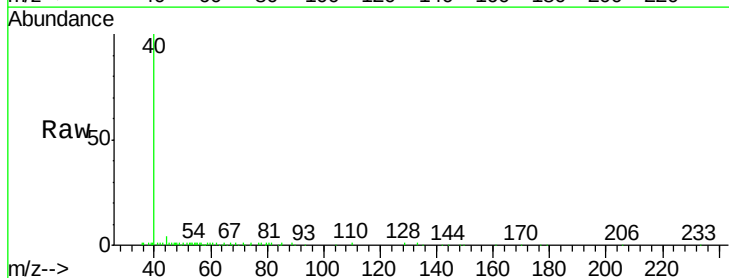
Tot Ion: 59 Resp: 2712
Ion Ratio Lower Upper
59 100
57 2.2 8.2 12.2#

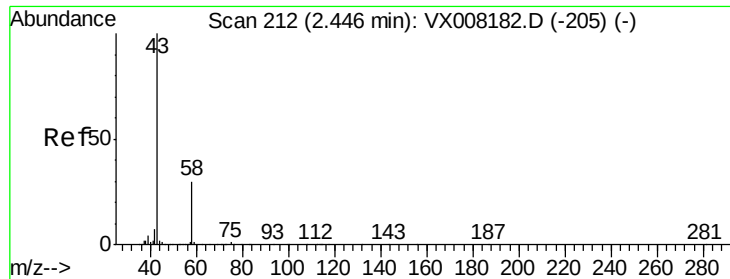


#13

Acrolein
Concen: Below Cal
RT: 2.31 min Scan# 189
Delta R.T. 0.01 min
Lab File: VX008254.D
Acq: 20 Mar 2019 20:13

Tgt Ion: 56 Resp: 154
Ion Ratio Lower Upper
56 100
55 63.6 57.8 86.6





#16

Acetone

Concen: 37.944 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008254.D

Acq: 20 Mar 2019 20:13

Instrument :

MSVOA_X

ClientSampleId :

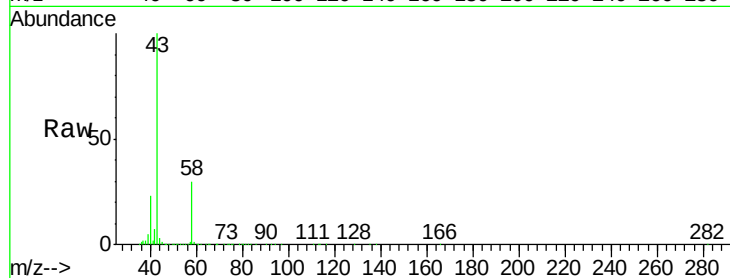
M4-T1-OZ(PRE)

Tot Ion: 43 Resp: 105452

Ion Ratio Lower Upper

43 100

58 30.0 25.5 38.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

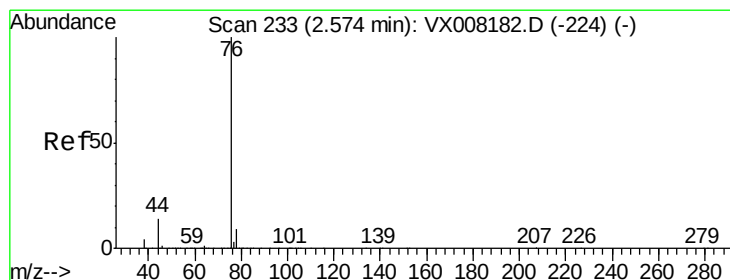
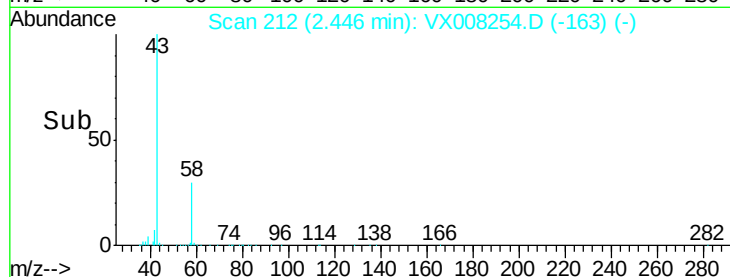
60000

40000

20000

0

Time--> 2.30 2.40 2.50 2.60



#17

Carbon Disulfide

Concen: 0.723 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX008254.D

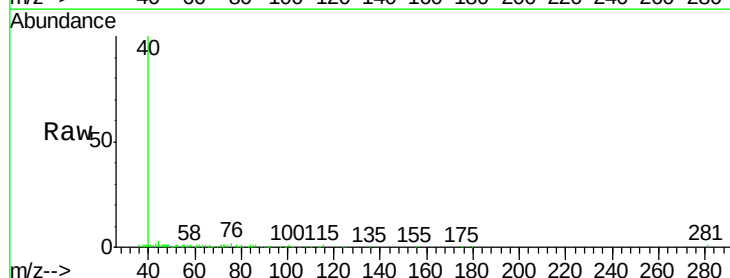
Acq: 20 Mar 2019 20:13

Tgt Ion: 76 Resp: 624

Ion Ratio Lower Upper

76 100

78 28.4 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

400

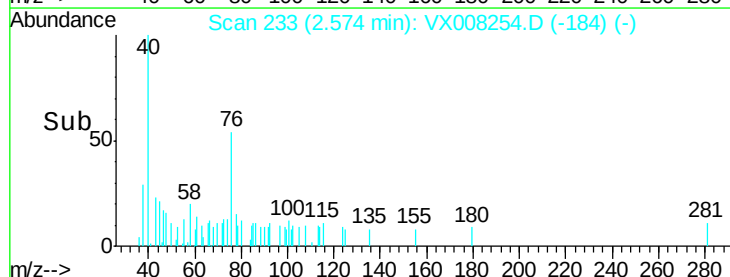
300

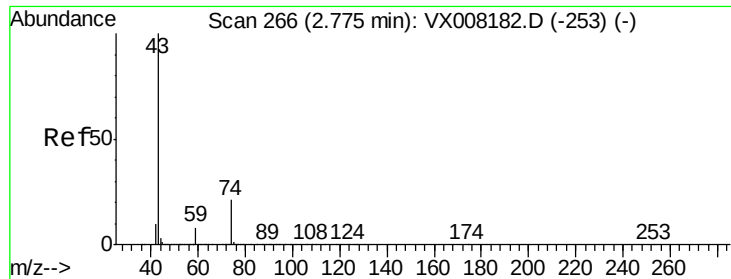
200

100

0

Time--> 2.55 2.60

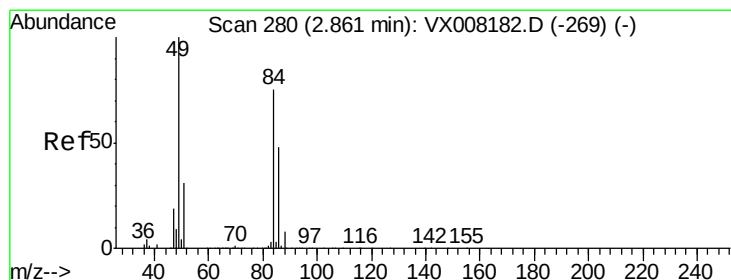
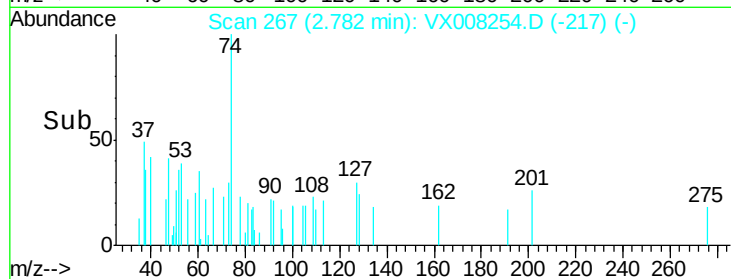
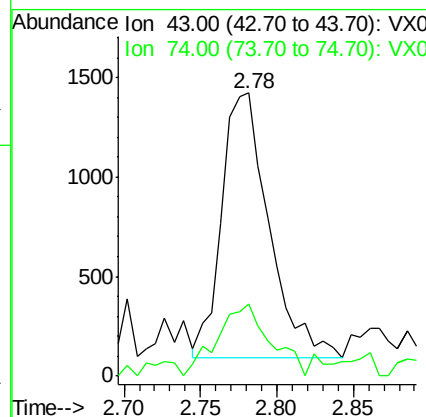
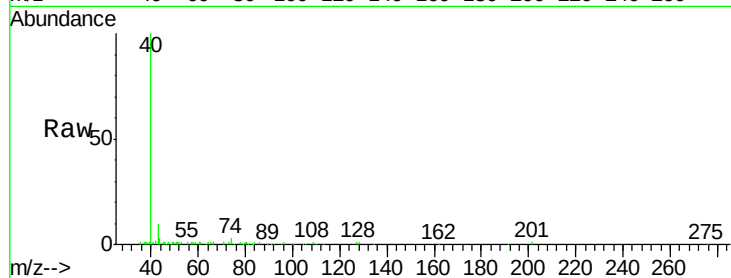




#18
Methyl Acetate
Concen: 0.442 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX008254.D
Acq: 20 Mar 2019 20:13

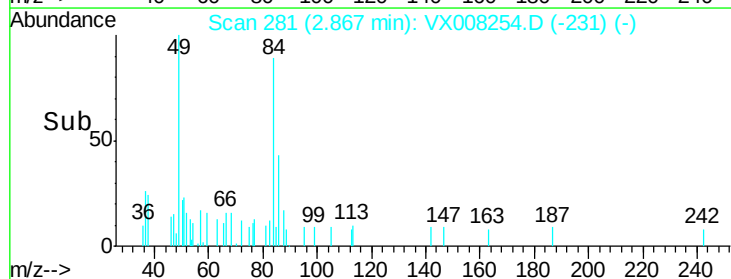
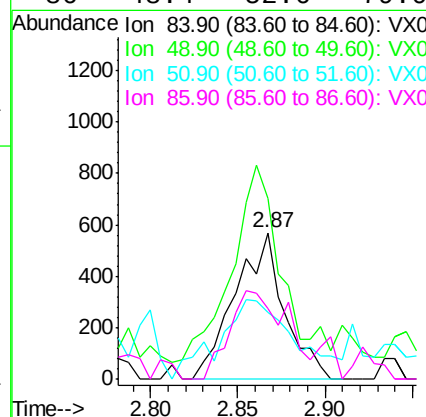
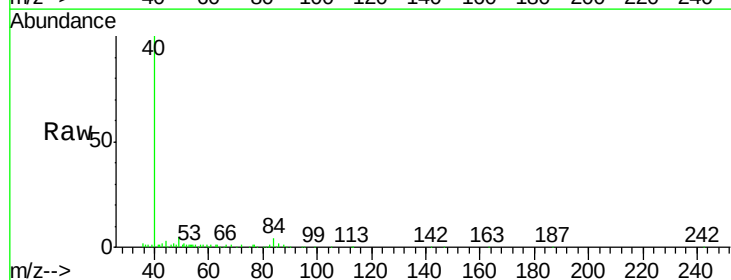
Instrument :
MSVOA_X
ClientSampleId :
M4-T1-OZ(PRE)

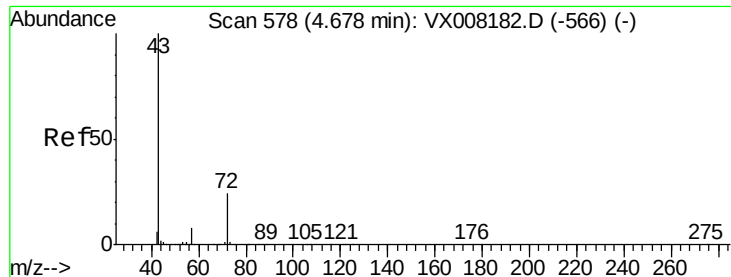
Tot Ion: 43 Resp: 2843
Ion Ratio Lower Upper
43 100
74 30.4 17.8 26.6#



#20
Methylene Chloride
Concen: 0.241 ug/l
RT: 2.87 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX008254.D
Acq: 20 Mar 2019 20:13

Tgt Ion: 84 Resp: 1119
Ion Ratio Lower Upper
84 100
49 96.3 99.3 148.9#
51 32.5 31.3 46.9
86 48.4 52.6 79.0#





#25

2-Butanone

Concen: 4.600 ug/l

RT: 4.68 min Scan# 578

Delta R.T. -0.00 min

Lab File: VX008254.D

Acq: 20 Mar 2019 20:13

Instrument :

MSVOA_X

ClientSampleId :

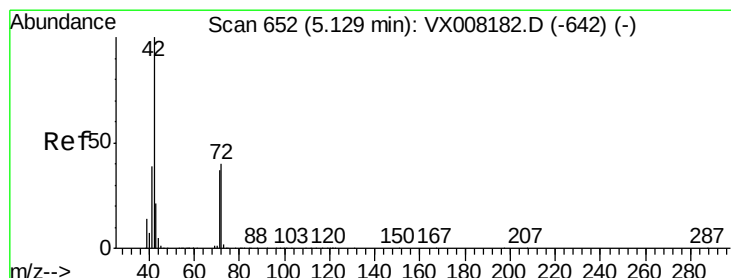
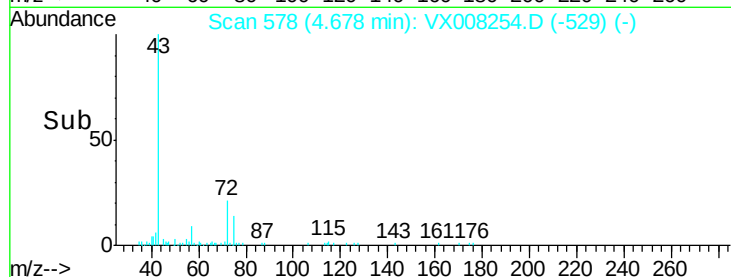
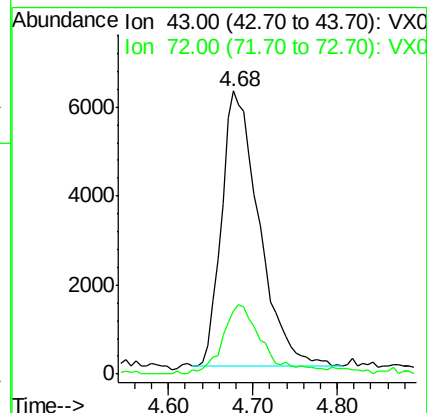
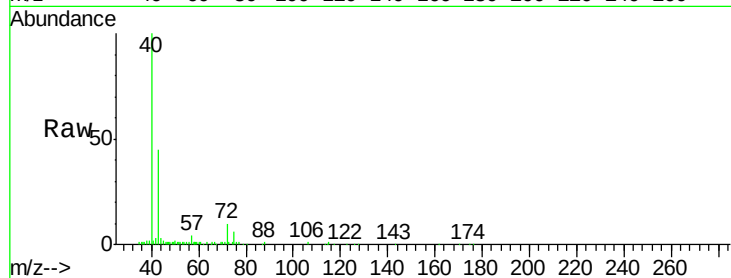
M4-T1-OZ(PRE)

Tot Ion: 43 Resp: 18872

Ion Ratio Lower Upper

43 100

72 21.3 19.9 29.9



#29

Tetrahydrofuran

Concen: 1.407 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX008254.D

Acq: 20 Mar 2019 20:13

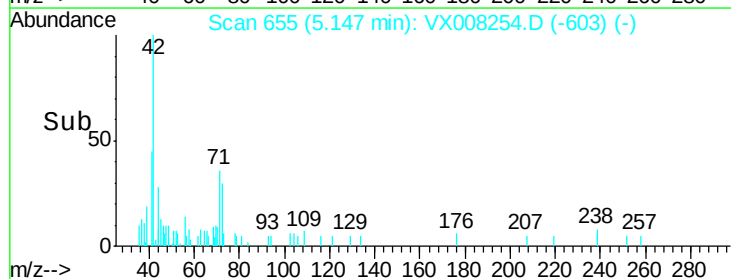
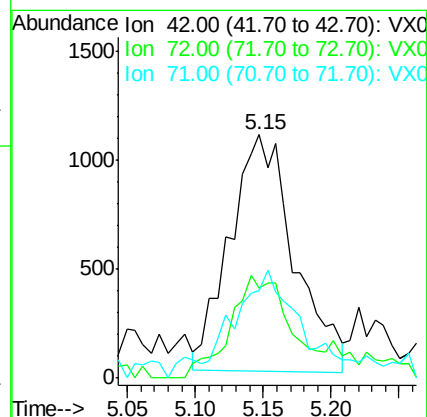
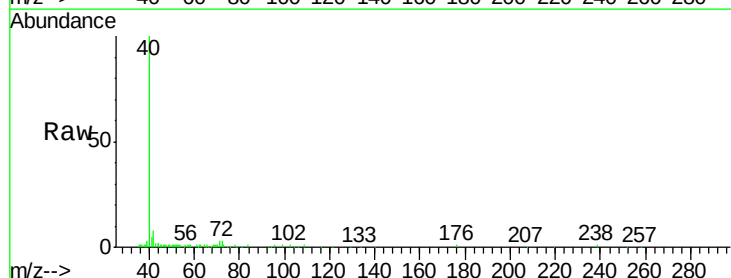
Tgt Ion: 42 Resp: 3609

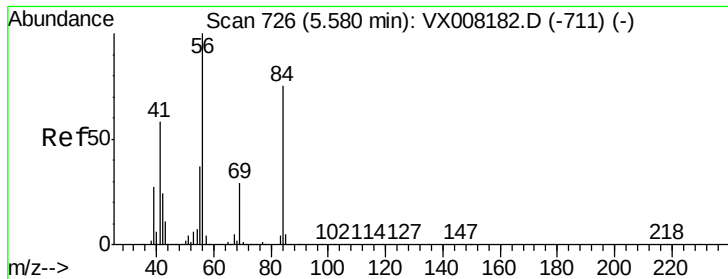
Ion Ratio Lower Upper

42 100

72 40.5 33.8 50.6

71 45.9 31.5 47.3

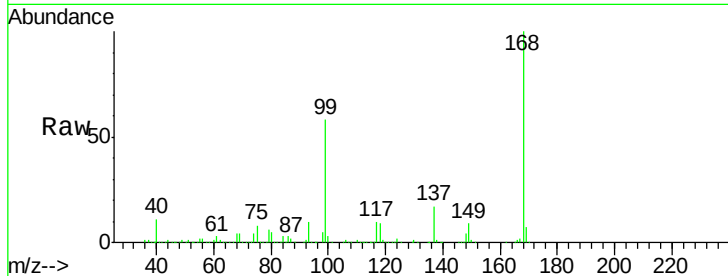




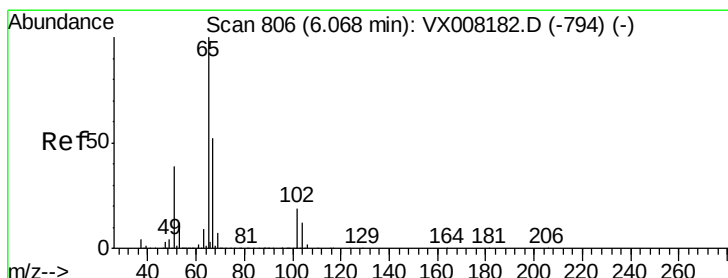
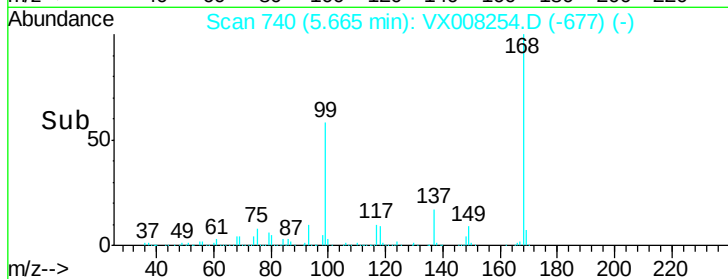
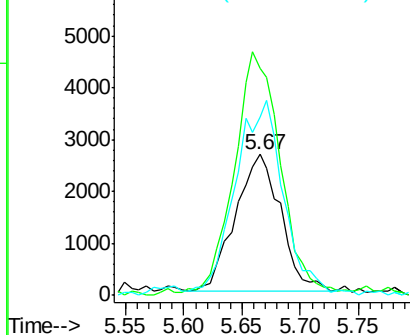
#31
Cyclohexane
Concen: 0.876 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX008254.D
Acq: 20 Mar 2019 20:13

Instrument :
MSVOA_X
ClientSampleId :
M4-T1-OZ(PRE)

Tot Ion: 56 Resp: 7124
Ion Ratio Lower Upper
56 100
69 164.5 24.0 36.0#
84 128.4 65.3 97.9#

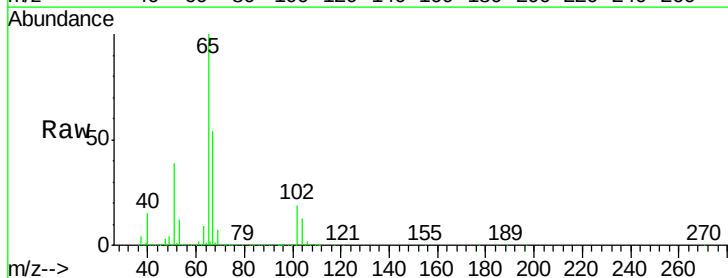


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

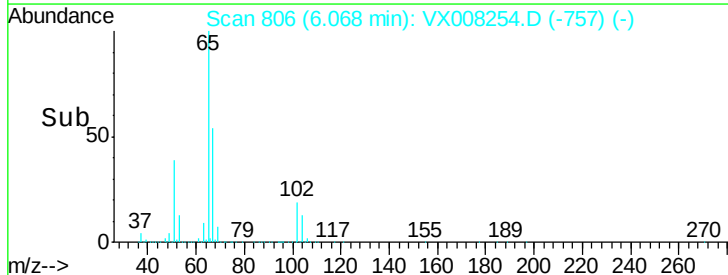
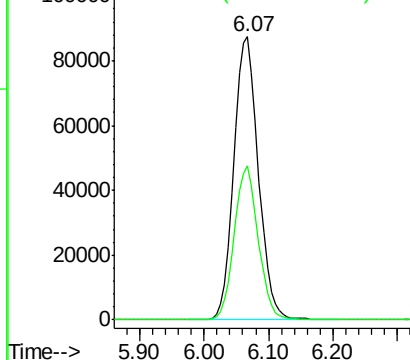


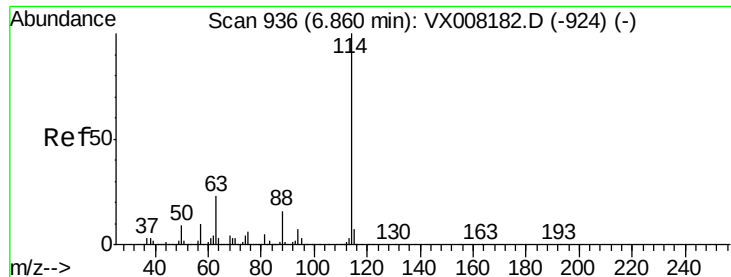
#33
1,2-Dichloroethane-d4
Concen: 47.401 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX008254.D
Acq: 20 Mar 2019 20:13

Tgt Ion: 65 Resp: 232273
Ion Ratio Lower Upper
65 100
67 52.8 0.0 110.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

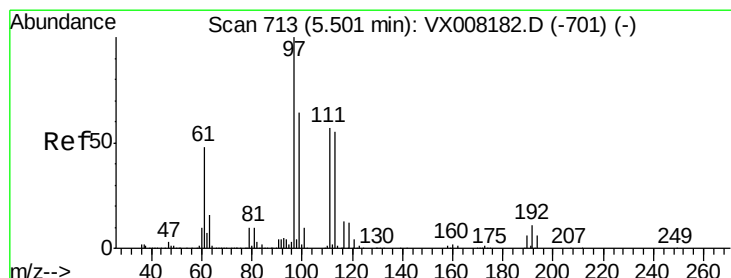
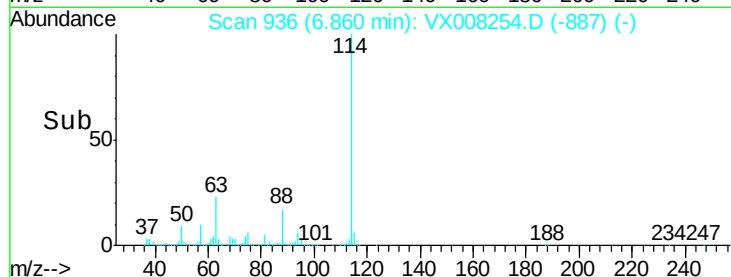
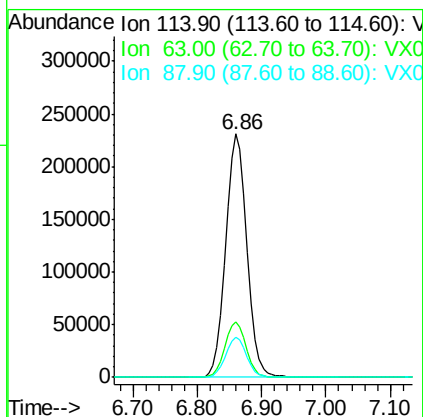
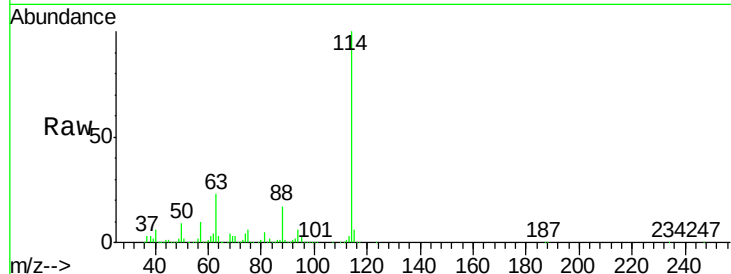




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008254.D
 Acq: 20 Mar 2019 20:13

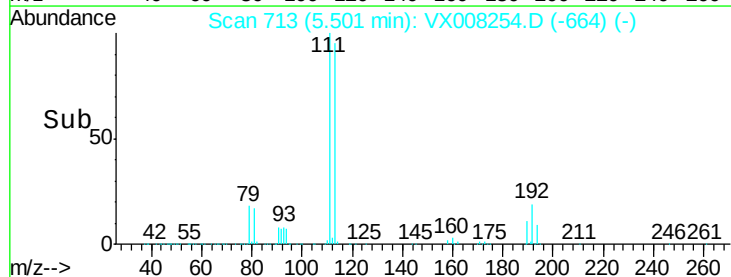
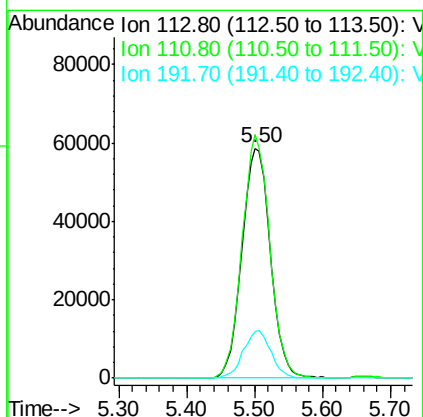
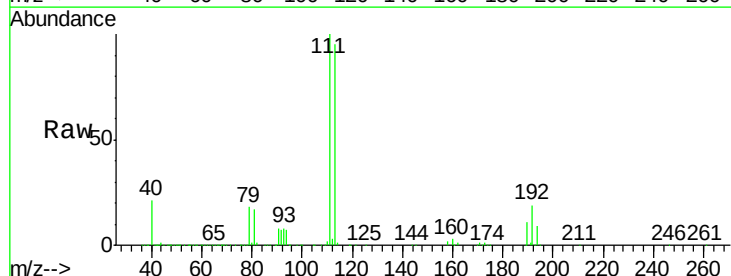
Instrument :
 MSVOA_X
 ClientSampleId :
 M4-T1-OZ(PRE)

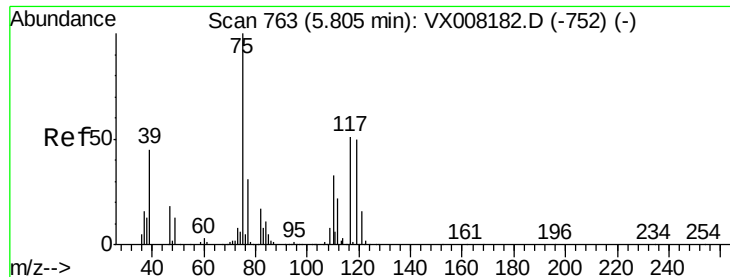
Tot Ion:114 Resp: 537626
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 39.8
 88 16.6 0.0 31.4



#35
 Dibromofluoromethane
 Concen: 47.459 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008254.D
 Acq: 20 Mar 2019 20:13

Tgt Ion:113 Resp: 170808
 Ion Ratio Lower Upper
 113 100
 111 102.6 81.4 122.0
 192 20.2 19.4 29.0

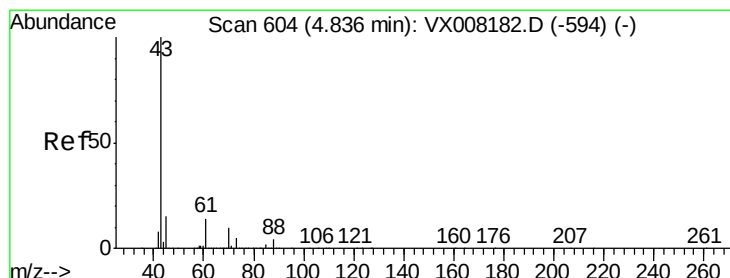
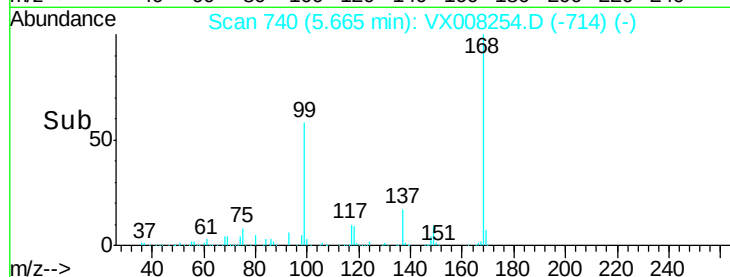
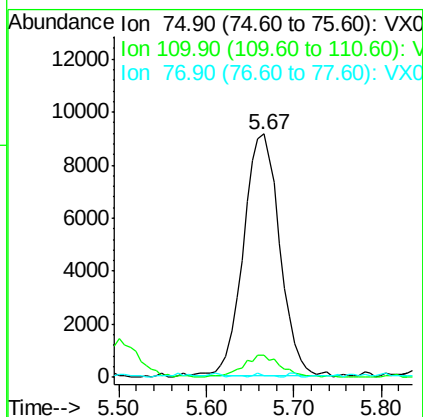
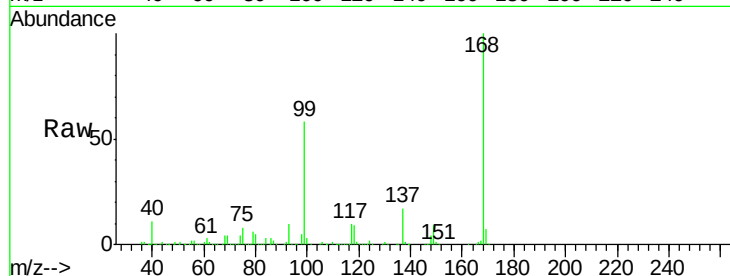




#36
 1,1-Dichloropropene
 Concen: 4.165 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.14 min
 Lab File: VX008254.D
 Acq: 20 Mar 2019 20:13

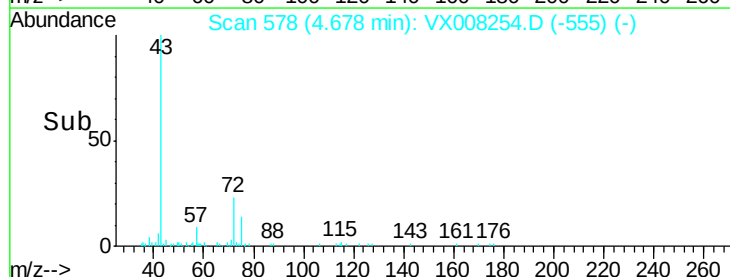
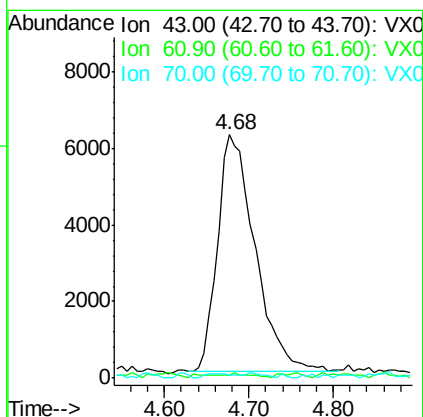
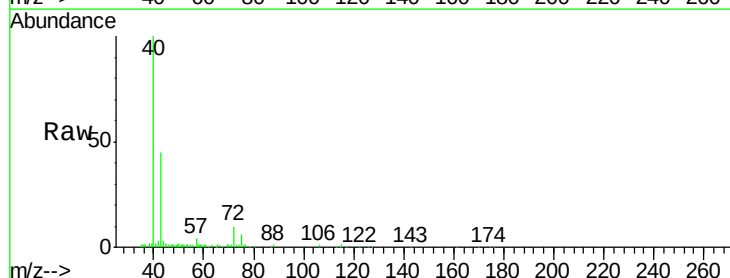
Instrument :
 MSVOA_X
 ClientSampleId :
 M4-T1-OZ(PRE)

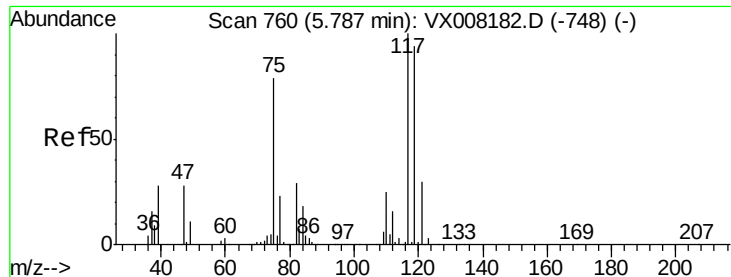
Tot Ion: 75 Resp: 26071
 Ion Ratio Lower Upper
 75 100
 110 9.7 18.4 55.0#
 77 0.5 25.0 37.4#



#37
 Ethyl Acetate
 Concen: 2.551 ug/l
 RT: 4.68 min Scan# 578
 Delta R.T. -0.16 min
 Lab File: VX008254.D
 Acq: 20 Mar 2019 20:13

Tgt Ion: 43 Resp: 18872
 Ion Ratio Lower Upper
 43 100
 61 1.1 11.3 16.9#
 70 1.2 8.5 12.7#





#38

Carbon Tetrachloride

Concen: 5.878 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008254.D

Acq: 20 Mar 2019 20:13

Instrument :

MSVOA_X

ClientSampleId :

M4-T1-OZ(PRE)

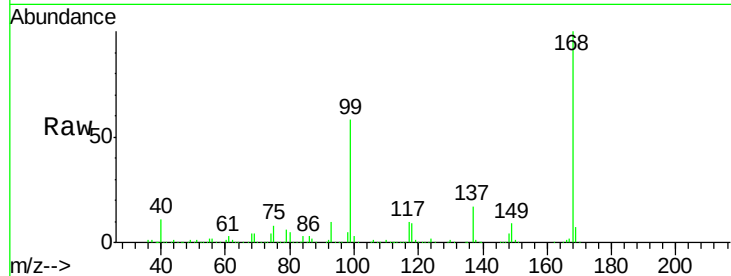
Tot Ion:117 Resp: 32780

Ion Ratio Lower Upper

117 100

119 4.7 76.2 114.2#

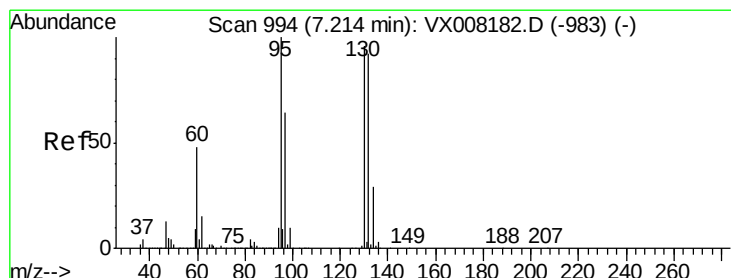
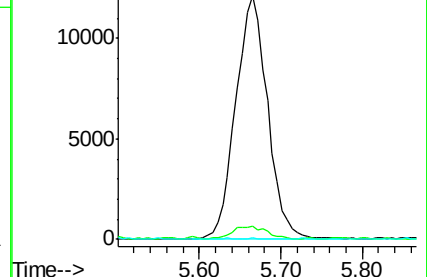
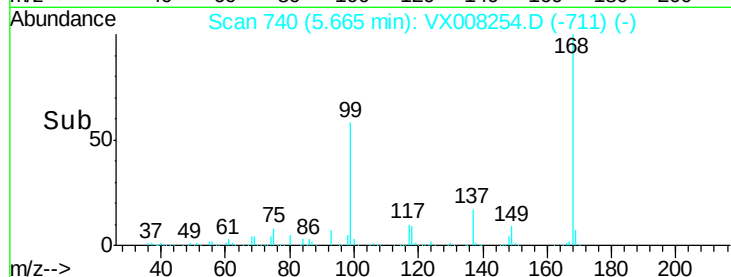
121 0.4 24.6 36.8#



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



#44

Trichloroethene

Concen: 0.202 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX008254.D

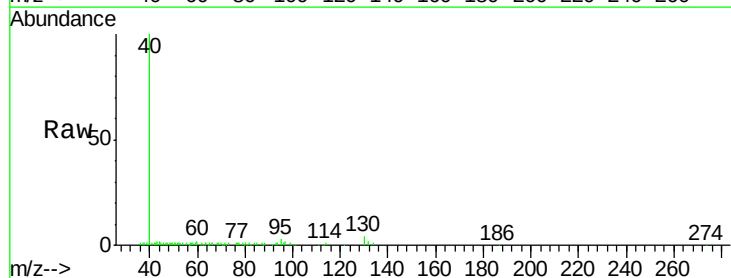
Acq: 20 Mar 2019 20:13

Tgt Ion:130 Resp: 913

Ion Ratio Lower Upper

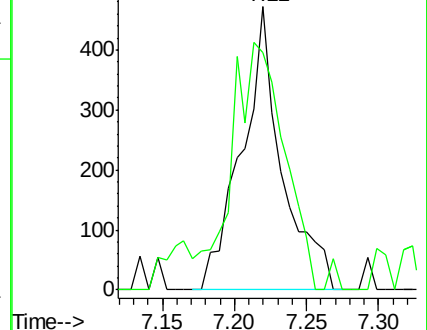
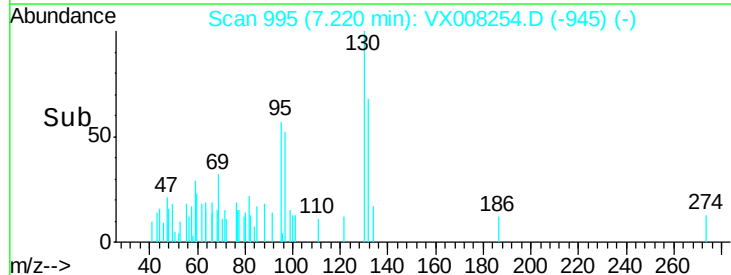
130 100

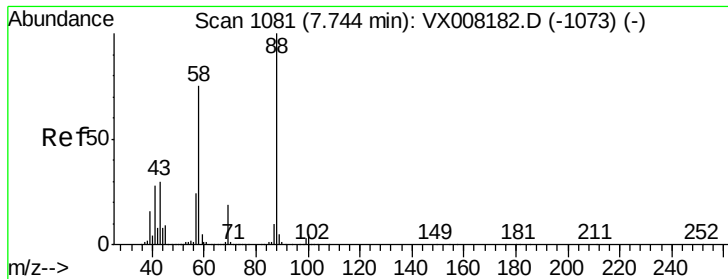
95 83.9 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#49

1,4-Dioxane

Concen: 0.458 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. -0.01 min

Lab File: VX008254.D

Acq: 20 Mar 2019 20:13

Instrument :

MSVOA_X

ClientSampleId :

M4-T1-OZ(PRE)

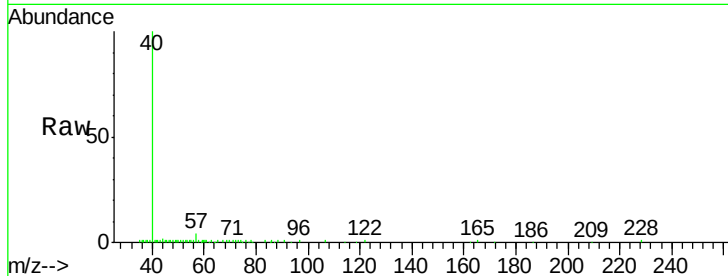
Tot Ion: 88 Resp: 51

Ion Ratio Lower Upper

88 100

43 443.1 25.1 37.7#

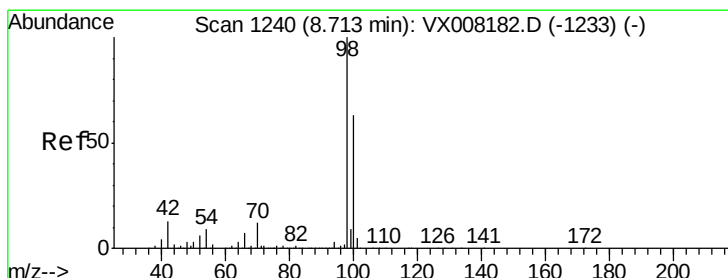
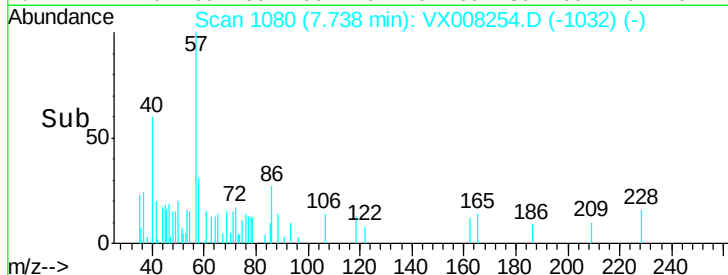
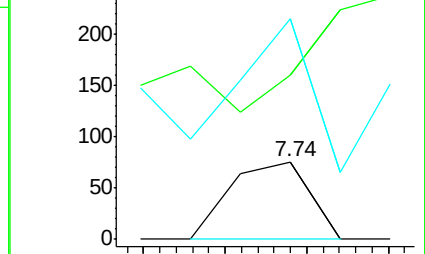
58 772.5 57.8 86.6#



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: 48.978 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008254.D

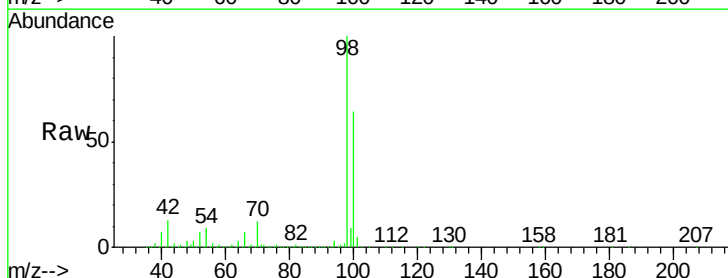
Acq: 20 Mar 2019 20:13

Tgt Ion: 98 Resp: 668319

Ion Ratio Lower Upper

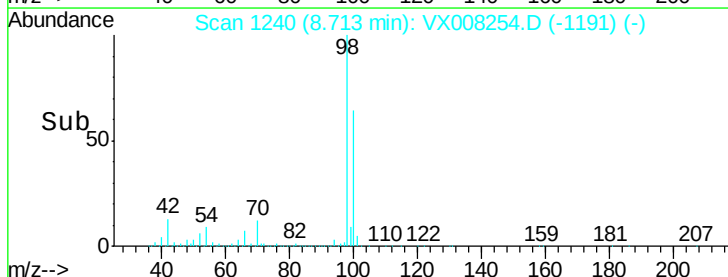
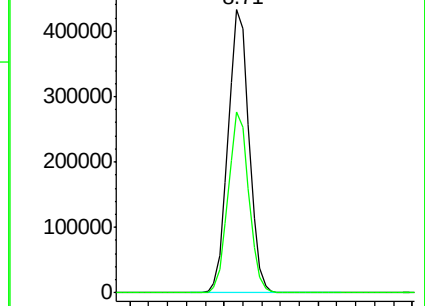
98 100

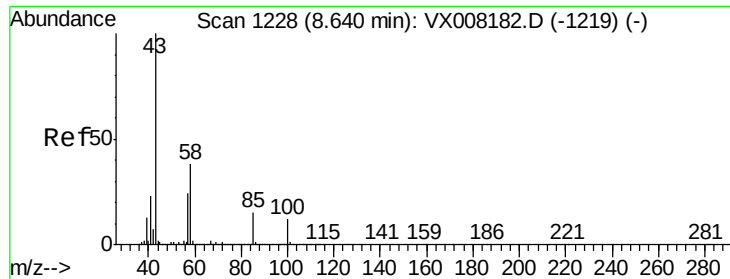
100 63.0 51.7 77.5



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: 0.220 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. -0.00 min

Lab File: VX008254.D

Acq: 20 Mar 2019 20:13

Instrument :

MSVOA_X

ClientSampleId :

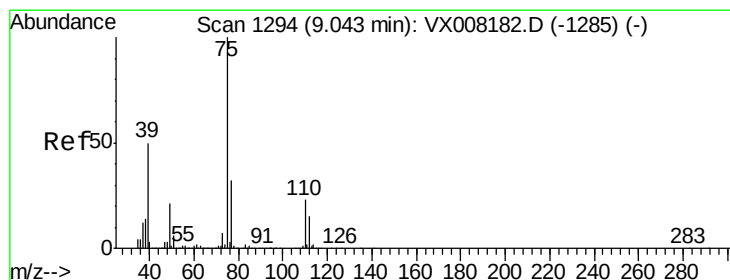
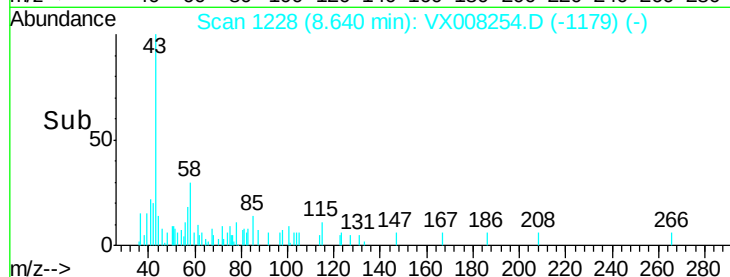
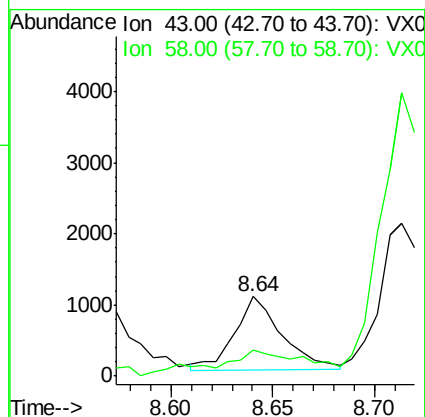
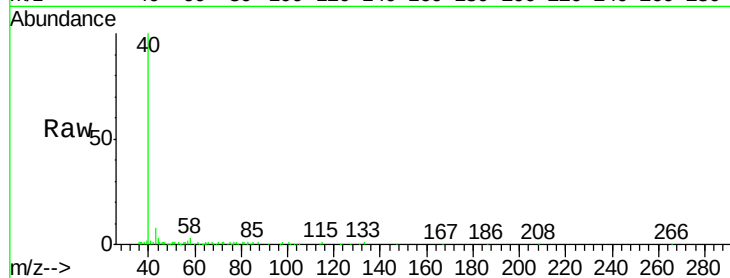
M4-T1-OZ(PRE)

Tot Ion: 43 Resp: 1685

Ion Ratio Lower Upper

43 100

58 43.4 31.3 46.9



#53

t-1,3-Dichloropropene

Concen: 1.442 ug/l

RT: 9.03 min Scan# 1292

Delta R.T. -0.01 min

Lab File: VX008254.D

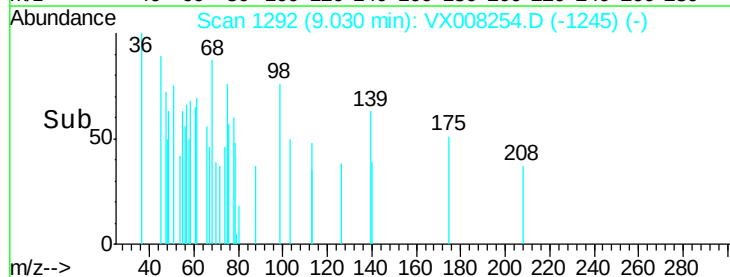
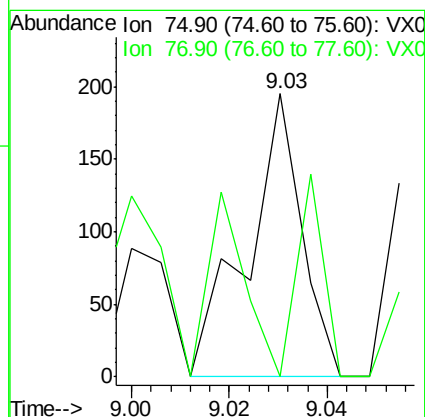
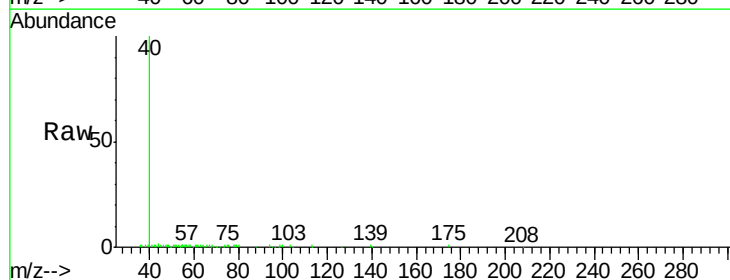
Acq: 20 Mar 2019 20:13

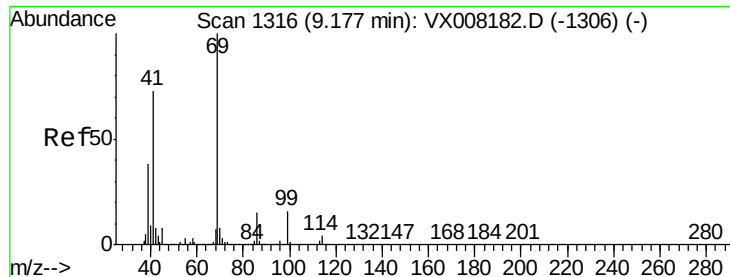
Tgt Ion: 75 Resp: 149

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#





#56

Ethyl methacrylate

Concen: 0.536 ug/l

RT: 9.18 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VX008254.D

Acq: 20 Mar 2019 20:13

Instrument :

MSVOA_X

ClientSampleId :

M4-T1-OZ(PRE)

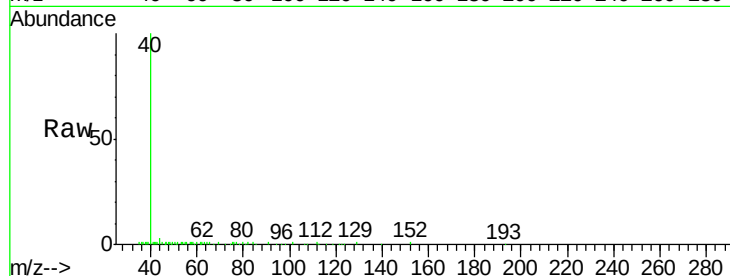
Tot Ion: 69 Resp: 83

Ion Ratio Lower Upper

69 100

41 365.1 54.2 81.4#

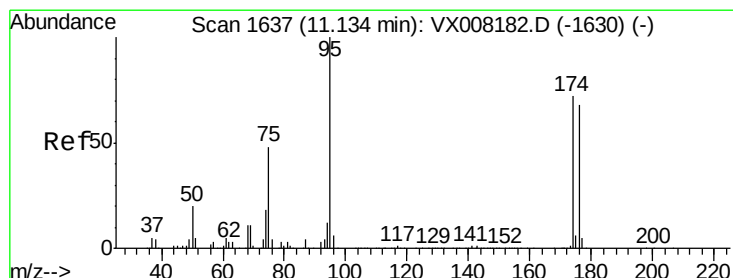
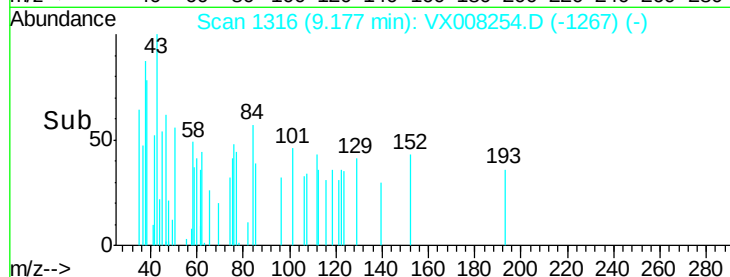
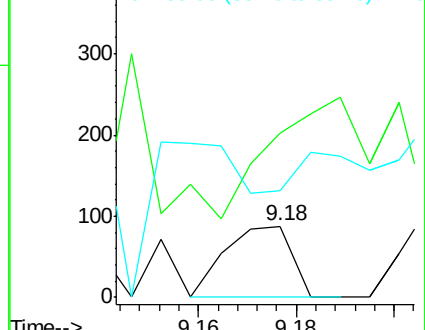
39 0.0 25.0 37.4#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#62

4-Bromofluorobenzene

Concen: 45.770 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008254.D

Acq: 20 Mar 2019 20:13

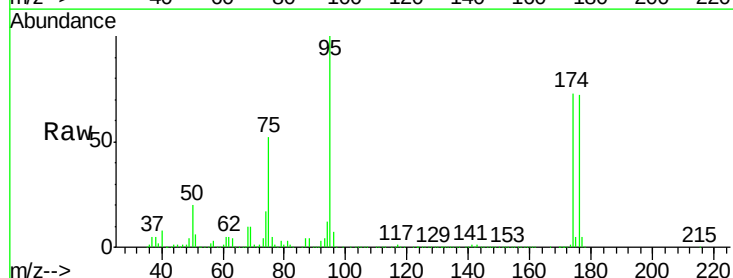
Tgt Ion: 95 Resp: 215042

Ion Ratio Lower Upper

95 100

174 78.6 0.0 182.8

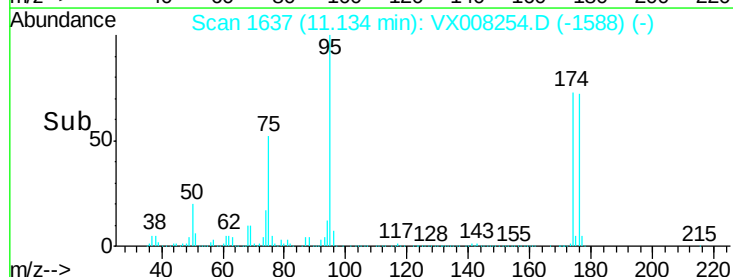
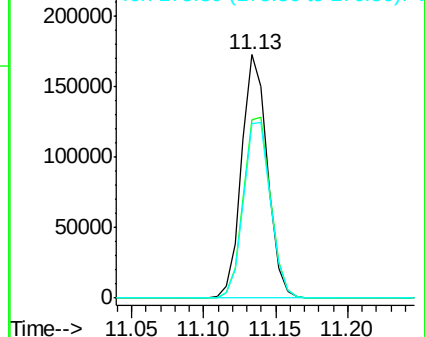
176 75.9 0.0 178.0

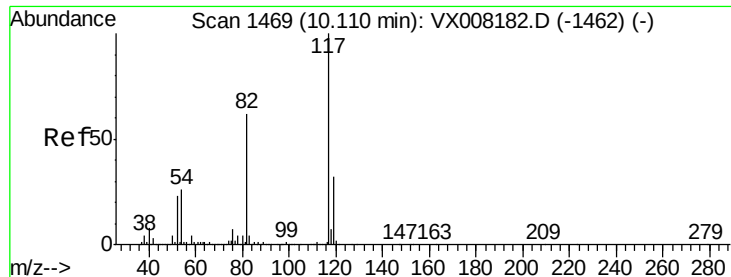


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

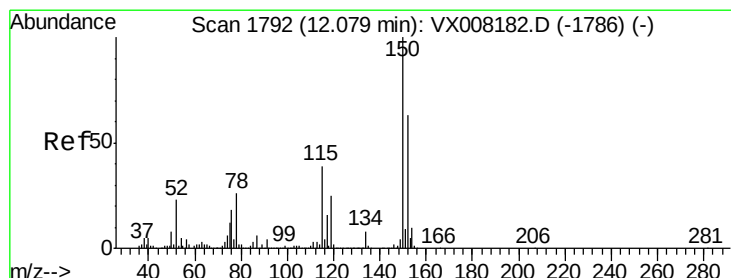
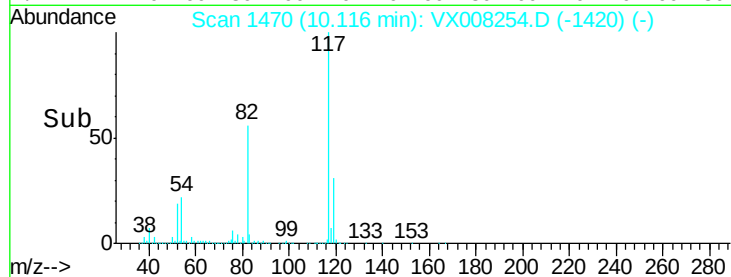
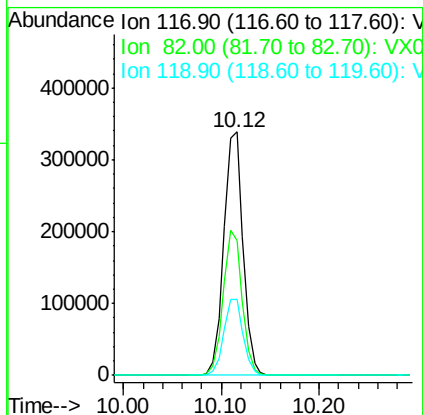
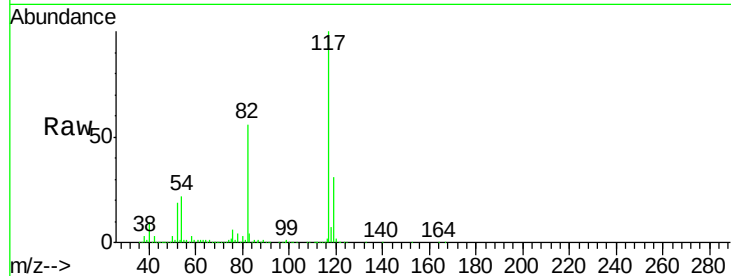




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008254.D
Acq: 20 Mar 2019 20:13

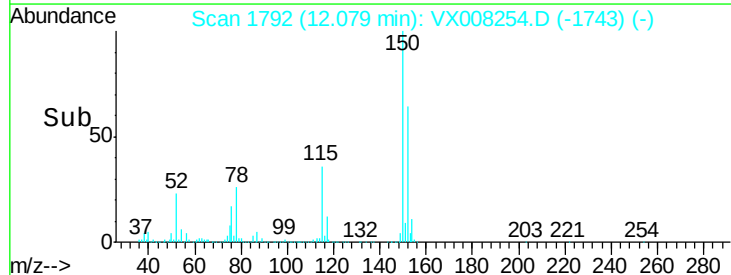
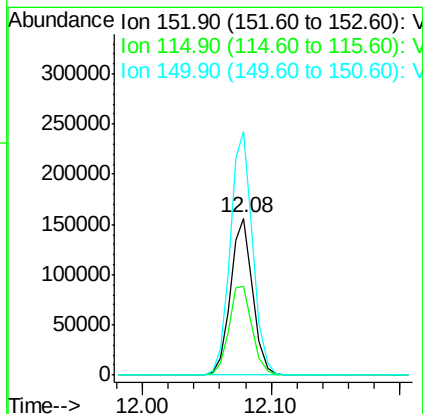
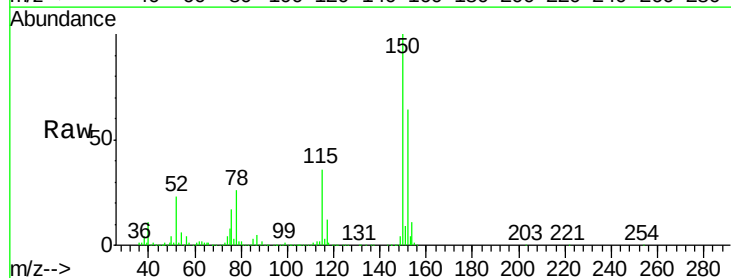
Instrument :
MSVOA_X
ClientSampleId :
M4-T1-OZ(PRE)

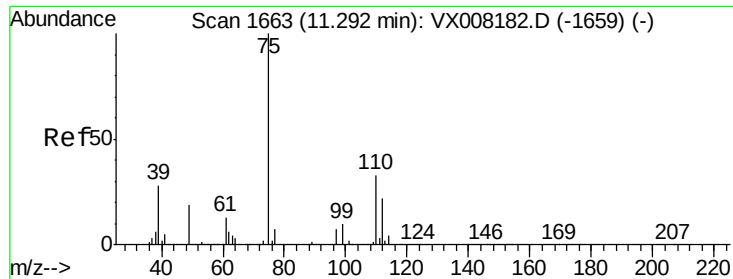
Tot Ion:117 Resp: 462420
Ion Ratio Lower Upper
117 100
82 55.5 44.3 66.5
119 31.2 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008254.D
Acq: 20 Mar 2019 20:13

Tgt Ion:152 Resp: 187371
Ion Ratio Lower Upper
152 100
115 59.8 38.6 115.7
150 157.8 0.0 348.4





#76

1,2,3-Trichloropropane

Concen: 21.104 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008254.D

Acq: 20 Mar 2019 20:13

Instrument :

MSVOA_X

ClientSampleId :

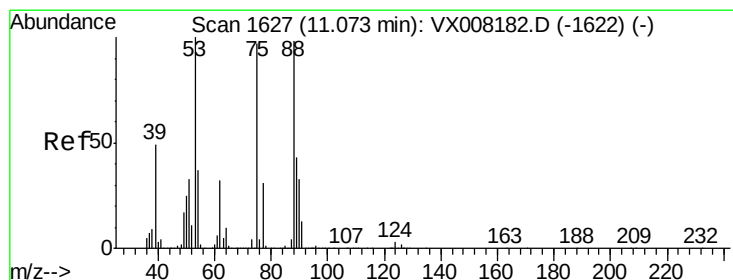
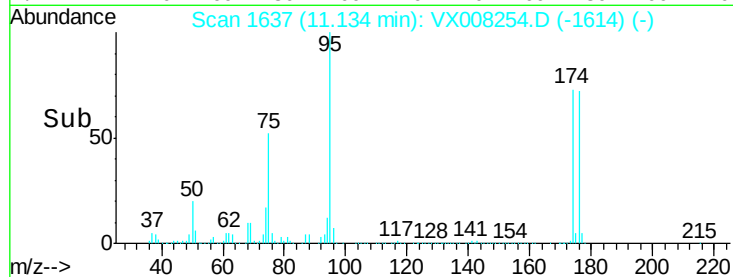
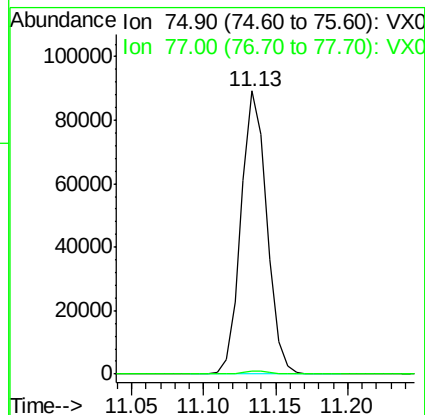
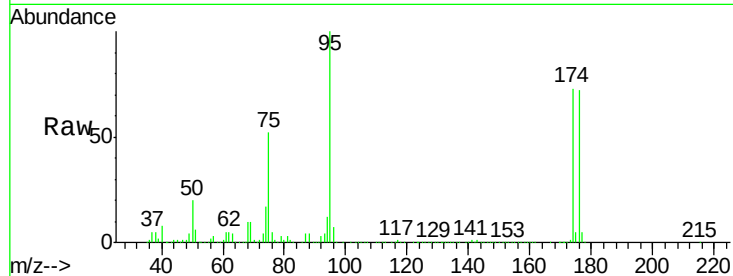
M4-T1-OZ(PRE)

Tot Ion: 75 Resp: 111218

Ion Ratio Lower Upper

75 100

77 1.3 18.9 56.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 53.691 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008254.D

Acq: 20 Mar 2019 20:13

Tgt Ion: 75 Resp: 111218

Ion Ratio Lower Upper

75 100

53 0.3 76.1 114.1#

89 0.0 36.3 54.5#

