

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032019\
 Data File : VX008276.D
 Acq On : 21 Mar 2019 06:11
 Operator : JC/SP
 Sample : K1945-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M4-T3-OZ(PRE)

Quant Time: Mar 22 05:43:49 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	5.66	168	281017	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	462102	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	386225	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	156208	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	199329	47.10	ug/l	0.00
Spiked Amount			Recovery	=	94.20%	
35) Dibromofluoromethane	5.50	113	152031	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	
50) Toluene-d8	8.71	98	564379	48.12	ug/l	0.00
Spiked Amount			Recovery	=	96.24%	
62) 4-Bromofluorobenzene	11.13	95	178167	44.12	ug/l	0.00
Spiked Amount			Recovery	=	88.24%	

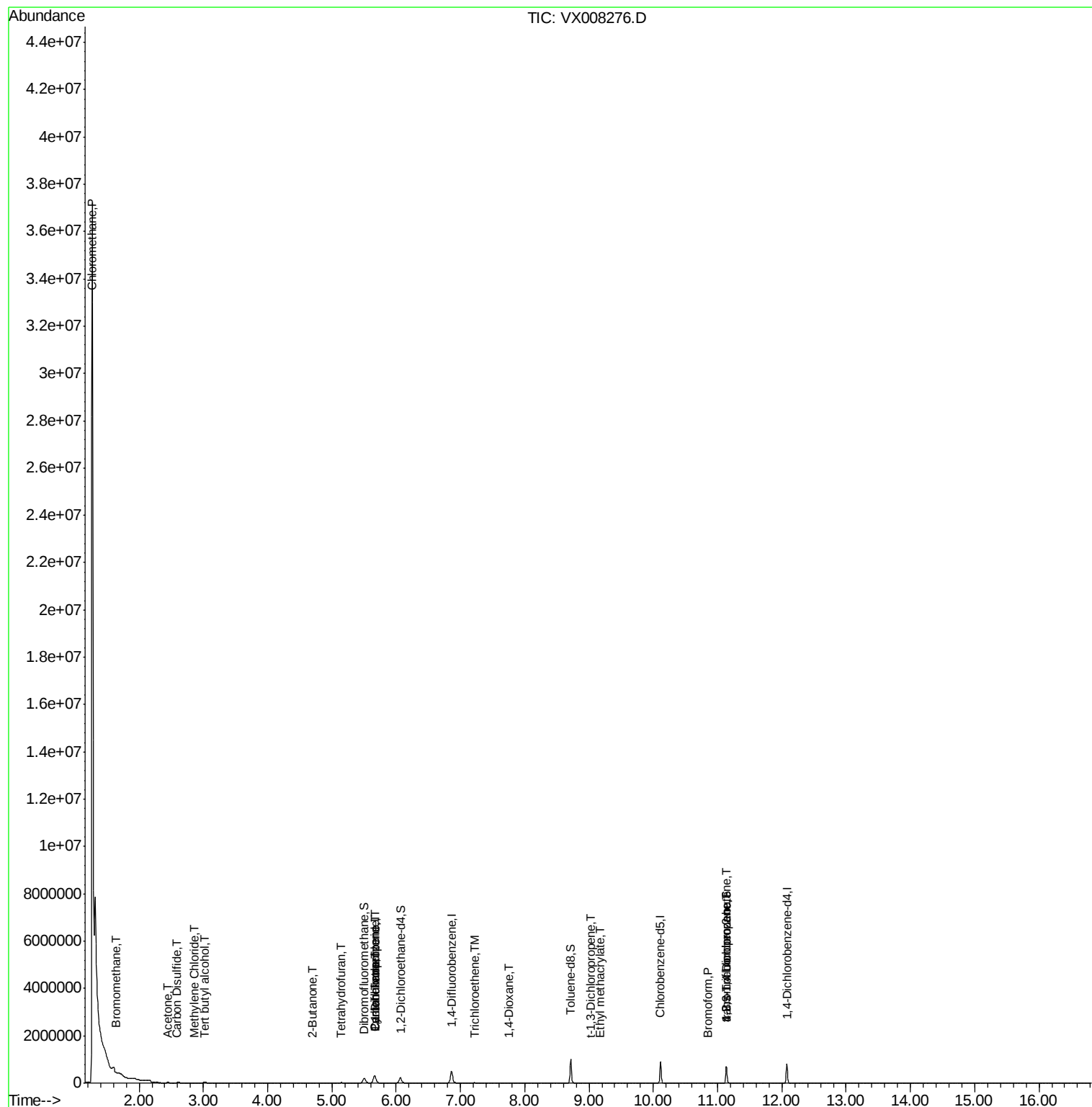
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.27	50	1779378	416.216	ug/l #	43
5) Bromomethane	1.65	94	1339	0.369	ug/l #	80
11) Tert butyl alcohol	3.02	59	11278	12.448	ug/l #	83
13) Acrolein	2.27	56	293	Below Cal	#	13
16) Acetone	2.45	43	11075	4.614	ug/l	100
17) Carbon Disulfide	2.57	76	1153	0.777	ug/l	98
20) Methylene Chloride	2.86	84	1251	0.313	ug/l	93
25) 2-Butanone	4.69	43	2738	0.773	ug/l #	87
29) Tetrahydrofuran	5.15	42	5237	2.364	ug/l	94
31) Cyclohexane	5.66	56	6401	0.912	ug/l #	25
36) 1,1-Dichloropropene	5.66	75	22846	4.246	ug/l #	51
38) Carbon Tetrachloride	5.66	117	27607	5.759	ug/l #	16
44) Trichloroethene	7.22	130	2173	0.558	ug/l	75
49) 1,4-Dioxane	7.75	88	108	1.129	ug/l #	1
53) t-1,3-Dichloropropene	9.02	75	162	1.447	ug/l #	43
56) Ethyl methacrylate	9.18	69	290	0.569	ug/l #	52
71) Bromoform	10.86	173	143	2.250	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	95572	21.753	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	95572	55.298	ug/l #	12

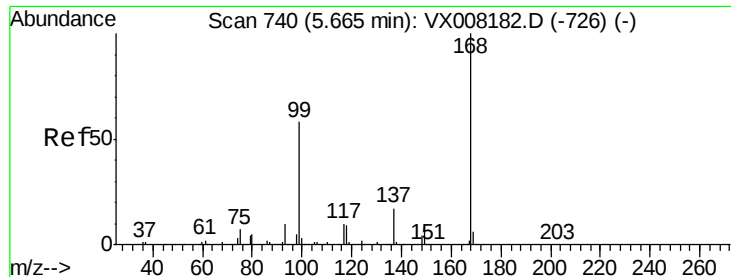
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX008276.D

Acq: 21 Mar 2019 06:11

Instrument :

MSVOA_X

ClientSampleId :

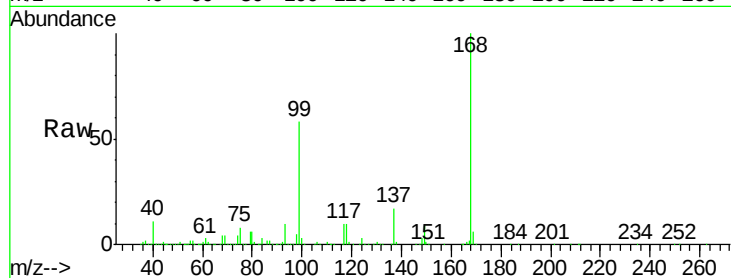
M4-T3-OZ(PRE)

Tot Ion:168 Resp: 281017

Ion Ratio Lower Upper

168 100

99 57.6 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

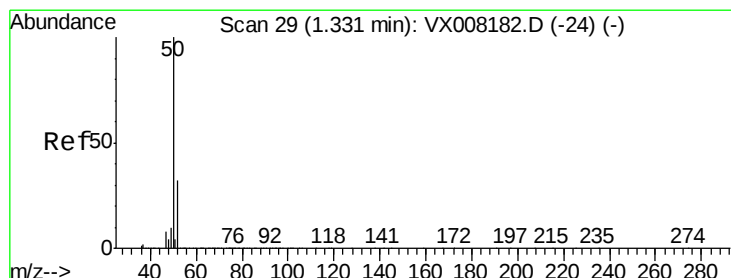
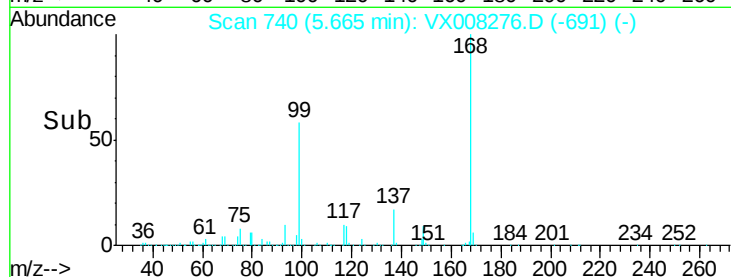
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 416.216 ug/l

RT: 1.27 min Scan# 19

Delta R.T. -0.06 min

Lab File: VX008276.D

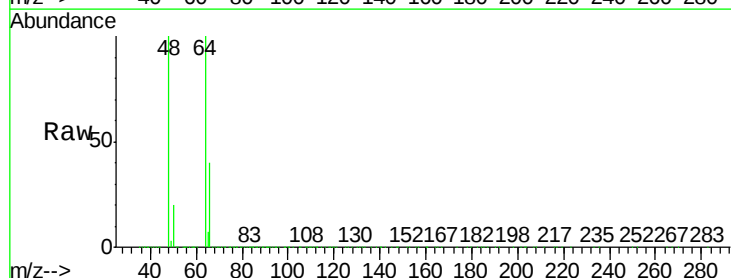
Acq: 21 Mar 2019 06:11

Tgt Ion: 50 Resp: 1779378

Ion Ratio Lower Upper

50 100

52 0.6 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.27

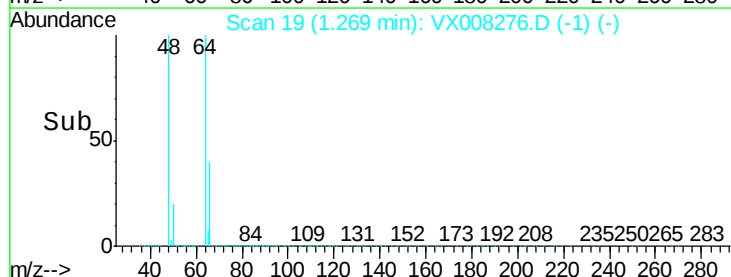
1500000

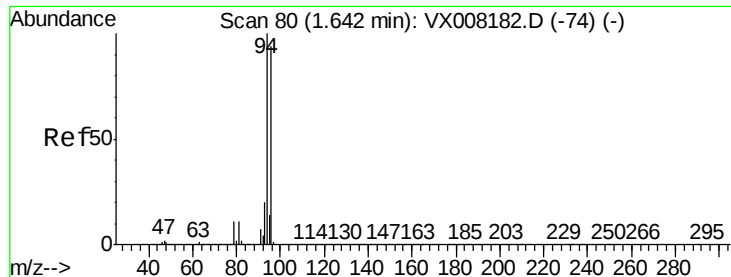
1000000

500000

0

Time--> 1.20 1.25 1.30





#5

Bromomethane

Concen: 0.369 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008276.D

Acq: 21 Mar 2019 06:11

Instrument :

MSVOA_X

ClientSampleId :

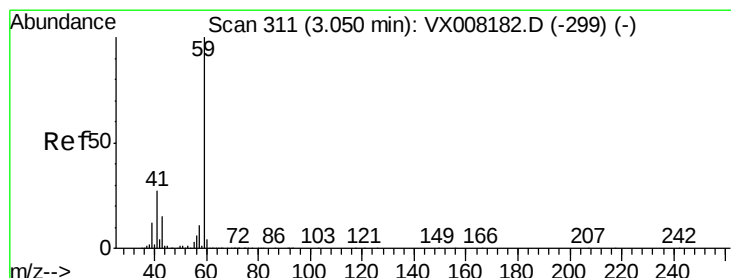
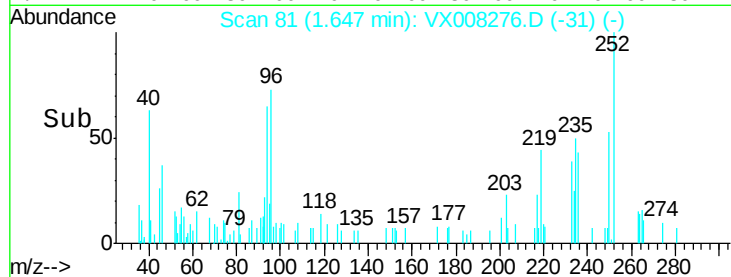
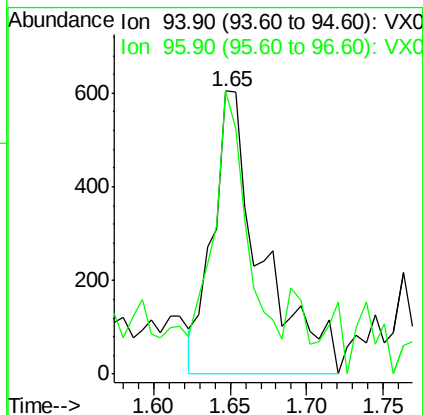
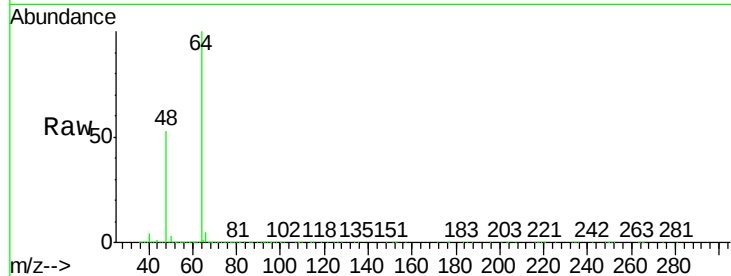
M4-T3-OZ(PRE)

Tot Ion: 94 Resp: 1339

Ion Ratio Lower Upper

94 100

96 75.5 75.5 113.3#



#11

Tert butyl alcohol

Concen: 12.448 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.03 min

Lab File: VX008276.D

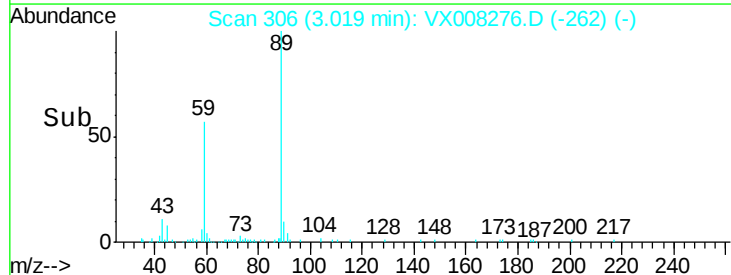
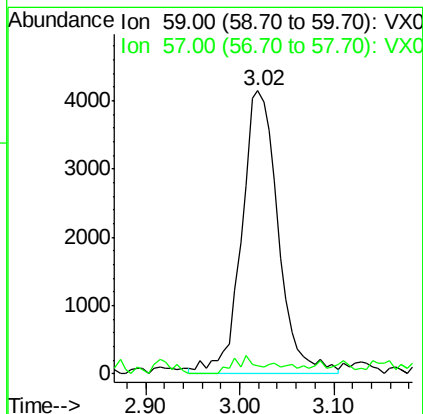
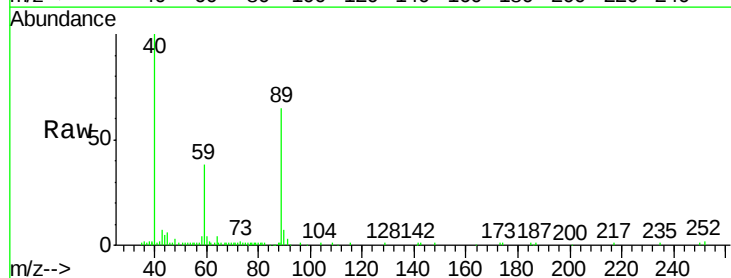
Acq: 21 Mar 2019 06:11

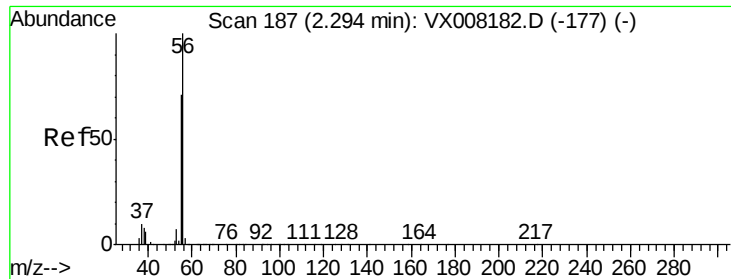
Tgt Ion: 59 Resp: 11278

Ion Ratio Lower Upper

59 100

57 3.7 8.2 12.2#

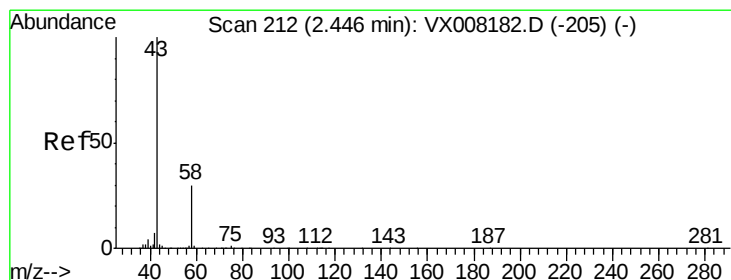
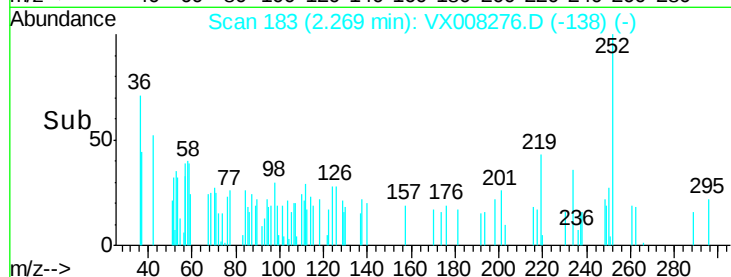
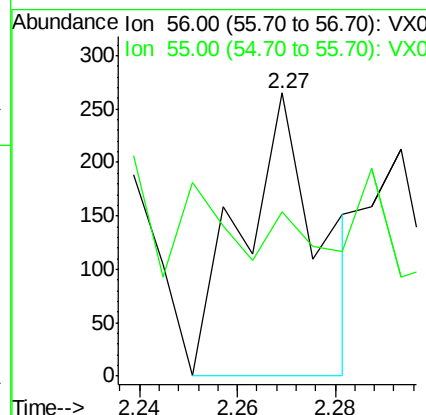
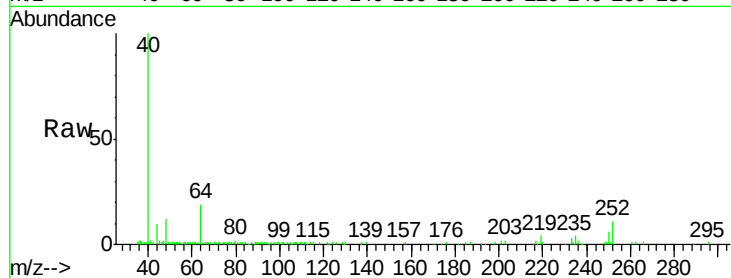




#13
Acrolein
Concen: Below Cal
RT: 2.27 min Scan# 183
Delta R.T. -0.02 min
Lab File: VX008276.D
Acq: 21 Mar 2019 06:11

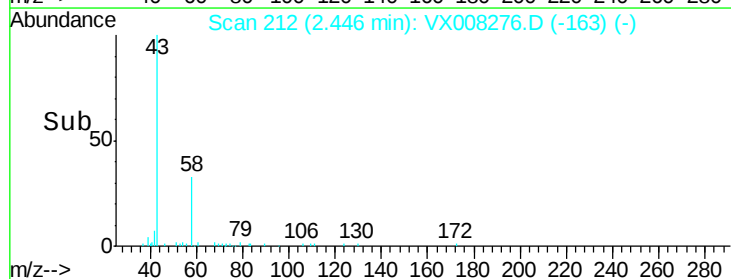
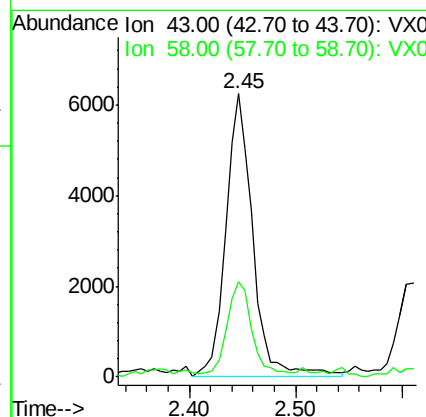
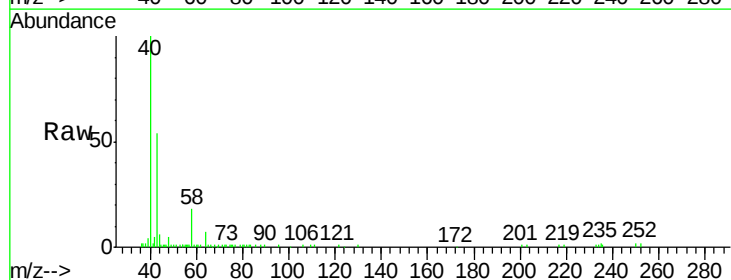
Instrument :
MSVOA_X
ClientSampleId :
M4-T3-OZ(PRE)

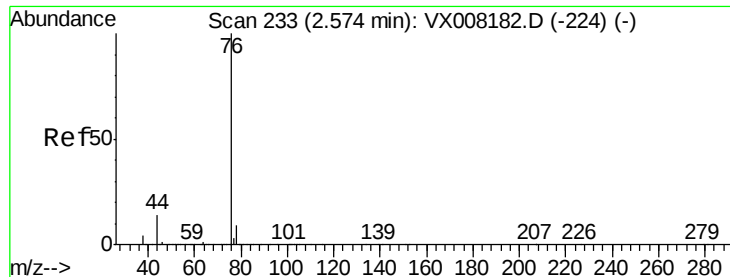
Tot Ion: 56 Resp: 293
Ion Ratio Lower Upper
56 100
55 0.0 57.8 86.6#



#16
Acetone
Concen: 4.614 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX008276.D
Acq: 21 Mar 2019 06:11

Tgt Ion: 43 Resp: 11075
Ion Ratio Lower Upper
43 100
58 32.1 25.5 38.3





#17

Carbon Disulfide

Concen: 0.777 ug/l

RT: 2.57 min Scan# 233

Delta R.T. -0.00 min

Lab File: VX008276.D

Acq: 21 Mar 2019 06:11

Instrument :

MSVOA_X

ClientSampled :

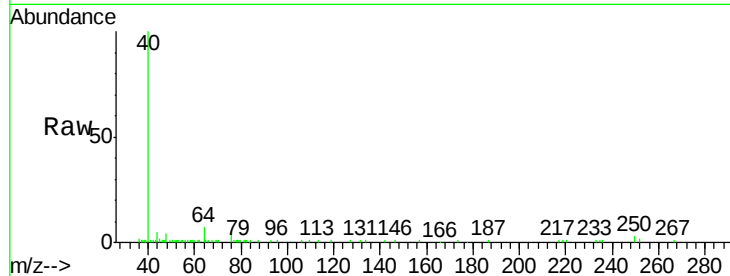
M4-T3-OZ(PRE)

Tot Ion: 76 Resp: 1153

Ion Ratio Lower Upper

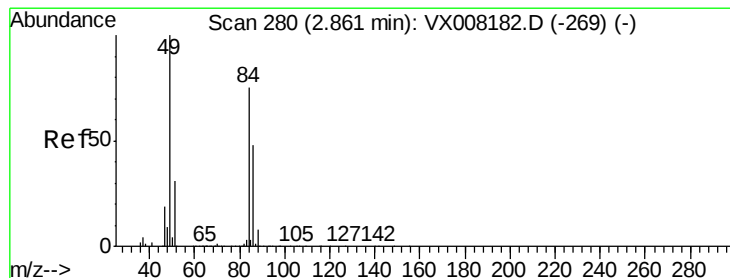
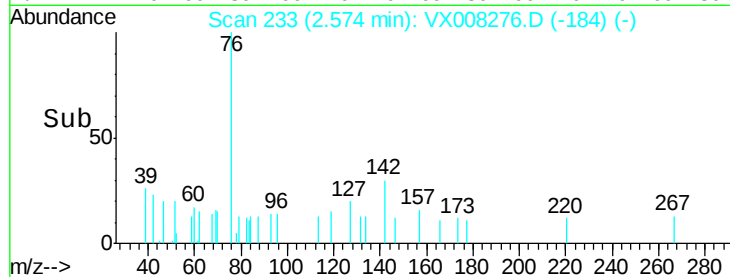
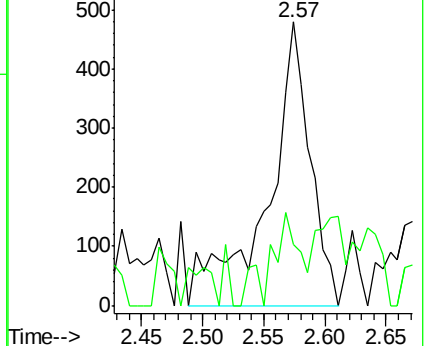
76 100

78 8.1 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.313 ug/l

RT: 2.86 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX008276.D

Acq: 21 Mar 2019 06:11

Tgt Ion: 84 Resp: 1251

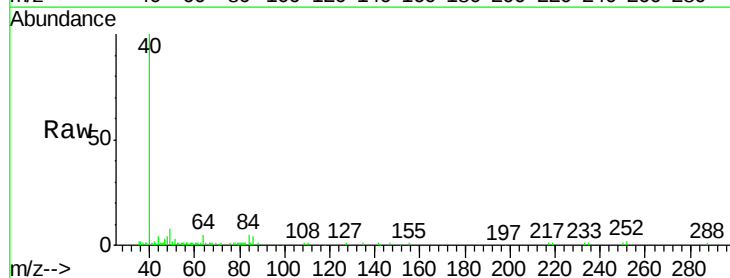
Ion Ratio Lower Upper

84 100

49 132.8 99.3 148.9

51 35.0 31.3 46.9

86 62.2 52.6 79.0

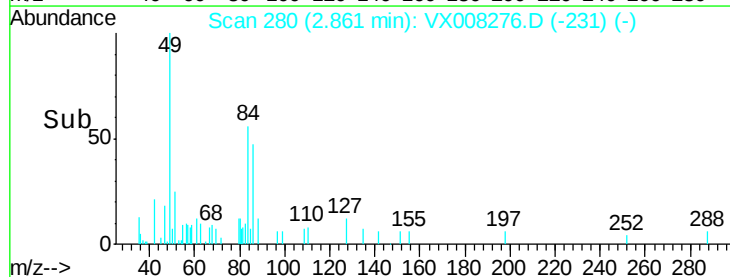
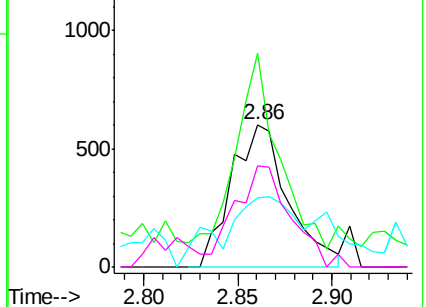


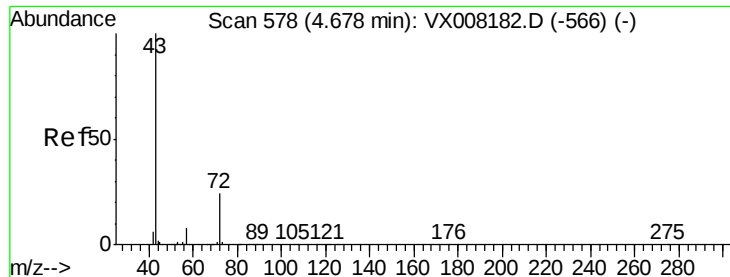
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 0.773 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.01 min

Lab File: VX008276.D

Acq: 21 Mar 2019 06:11

Instrument :

MSVOA_X

ClientSampled :

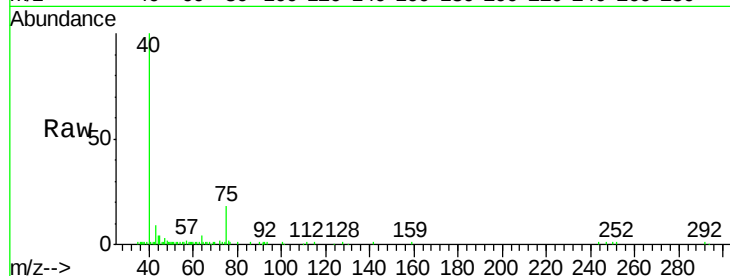
M4-T3-OZ(PRE)

Tot Ion: 43 Resp: 2738

Ion Ratio Lower Upper

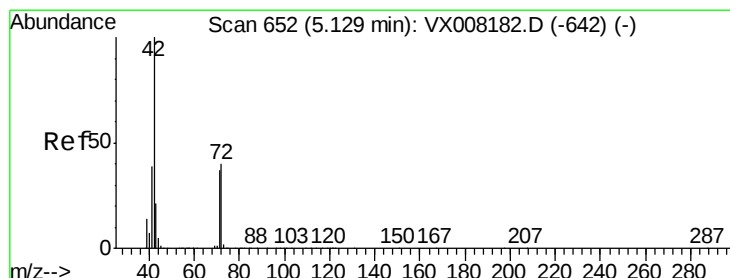
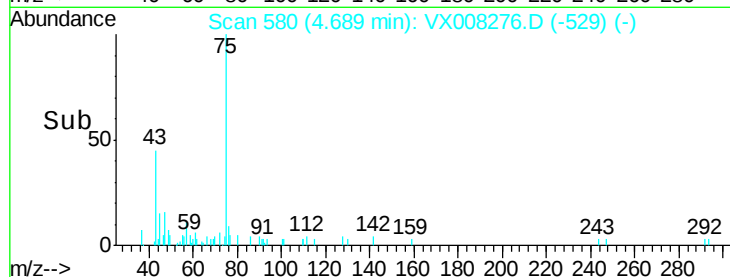
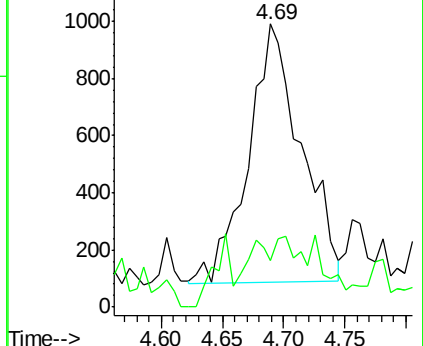
43 100

72 18.3 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 2.364 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX008276.D

Acq: 21 Mar 2019 06:11

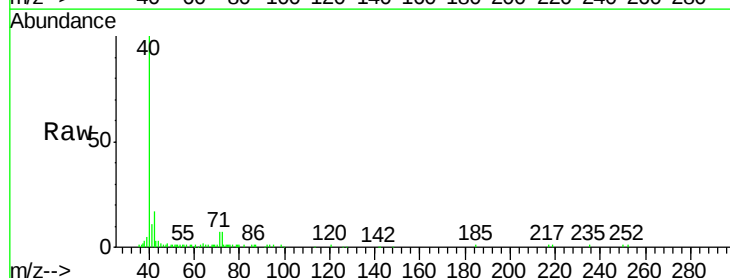
Tgt Ion: 42 Resp: 5237

Ion Ratio Lower Upper

42 100

72 41.8 33.8 50.6

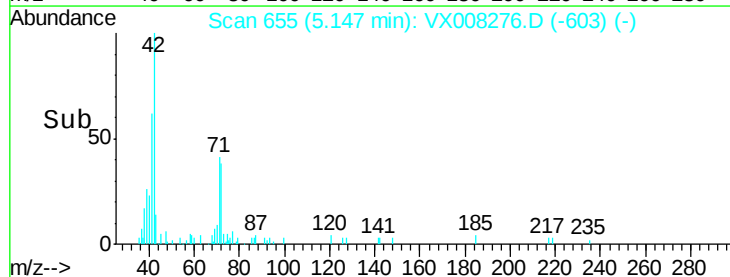
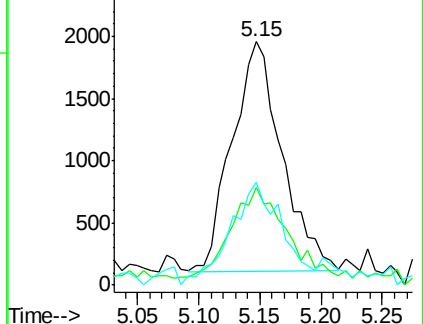
71 46.7 31.5 47.3

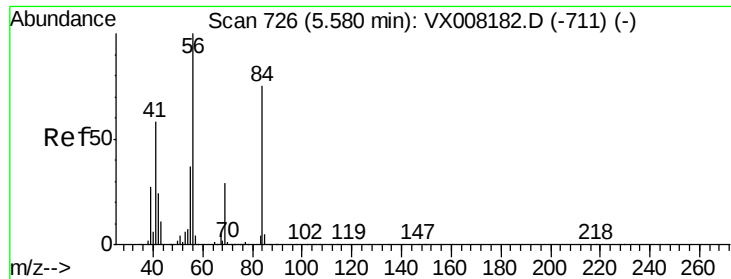


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

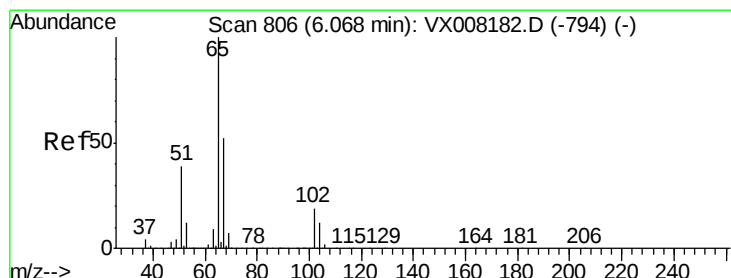
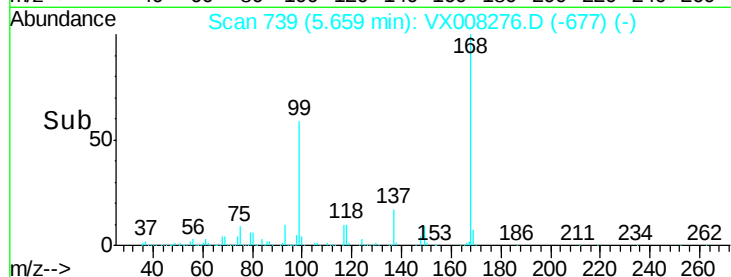
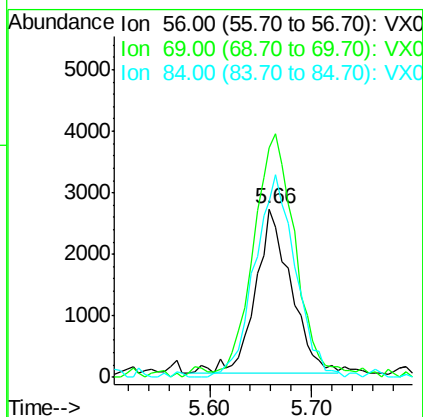
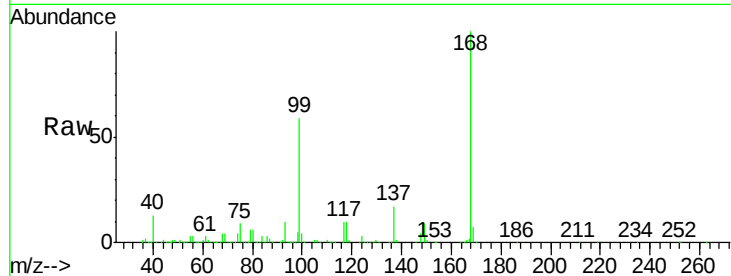




#31
Cyclohexane
Concen: 0.912 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX008276.D
Acq: 21 Mar 2019 06:11

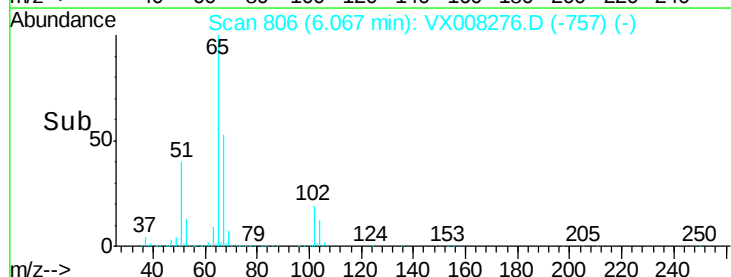
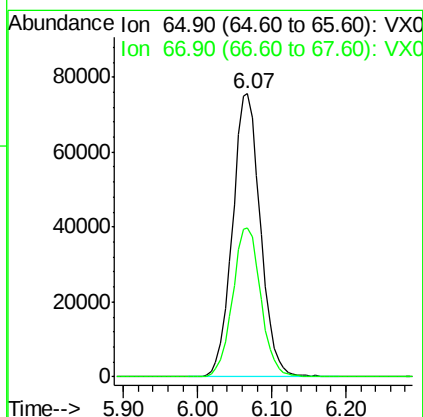
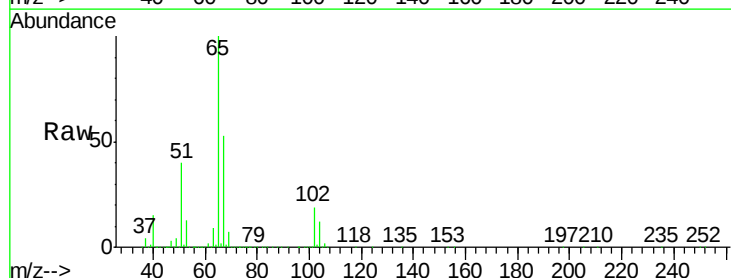
Instrument :
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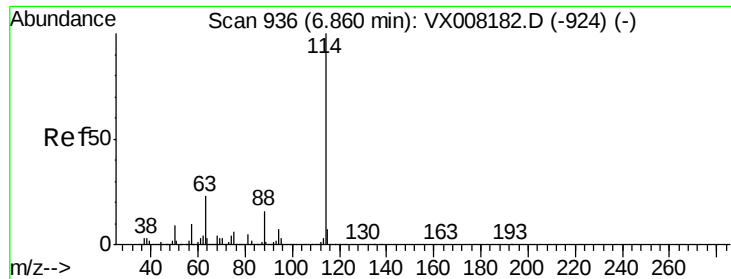
Tot Ion: 56 Resp: 6401
Ion Ratio Lower Upper
56 100
69 138.3 24.0 36.0#
84 107.5 65.3 97.9#



#33
1,2-Dichloroethane-d4
Concen: 47.096 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX008276.D
Acq: 21 Mar 2019 06:11

Tgt Ion: 65 Resp: 199329
Ion Ratio Lower Upper
65 100
67 52.9 0.0 110.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008276.D

Acq: 21 Mar 2019 06:11

Instrument :

MSVOA_X

ClientSampleId :

M4-T3-OZ(PRE)

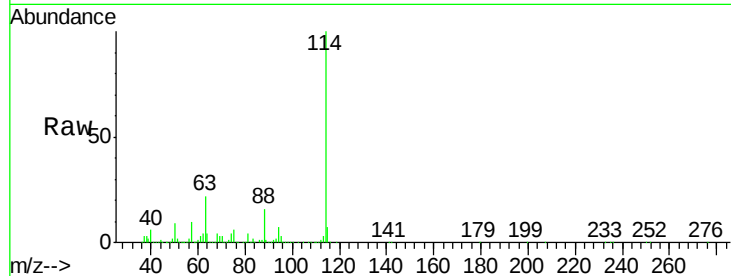
Tot Ion:114 Resp: 462102

Ion Ratio Lower Upper

114 100

63 22.4 0.0 39.8

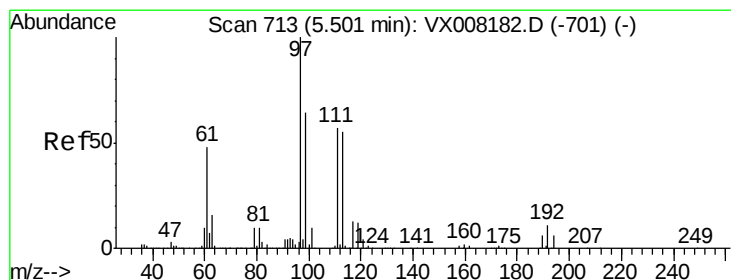
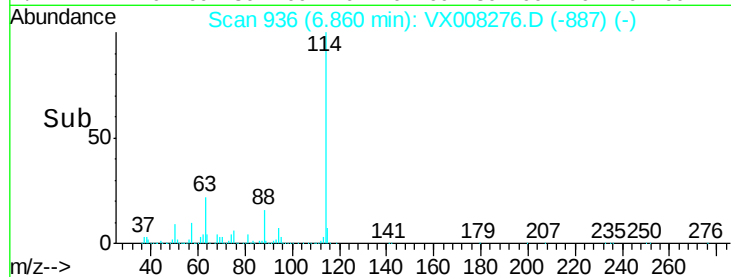
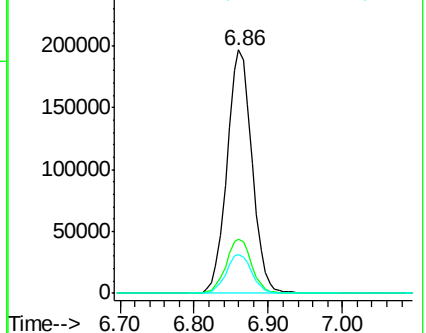
88 16.0 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.146 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008276.D

Acq: 21 Mar 2019 06:11

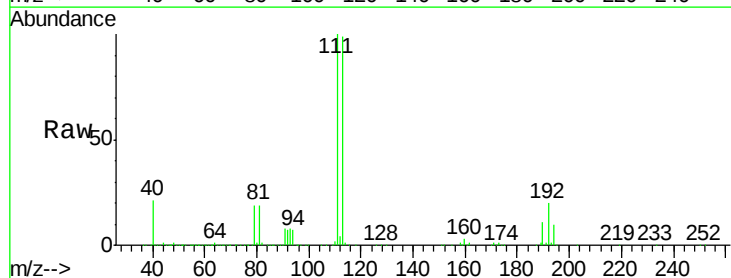
Tgt Ion:113 Resp: 152031

Ion Ratio Lower Upper

113 100

111 103.1 81.4 122.0

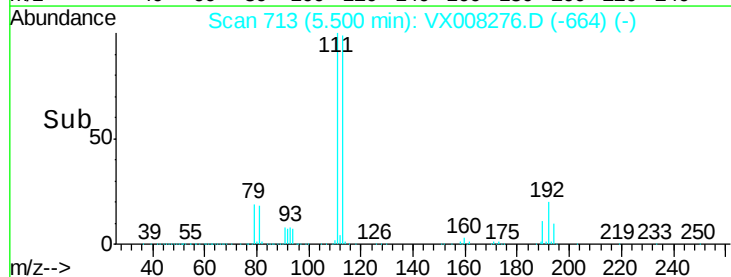
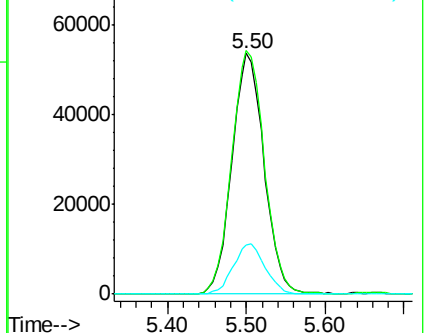
192 20.9 19.4 29.0

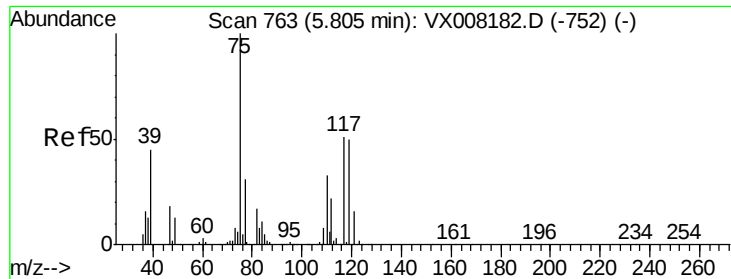


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.246 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.15 min

Lab File: VX008276.D

Acq: 21 Mar 2019 06:11

Instrument :

MSVOA_X

ClientSampleId :

M4-T3-OZ(PRE)

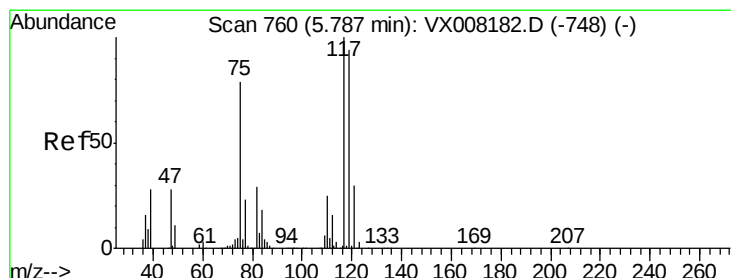
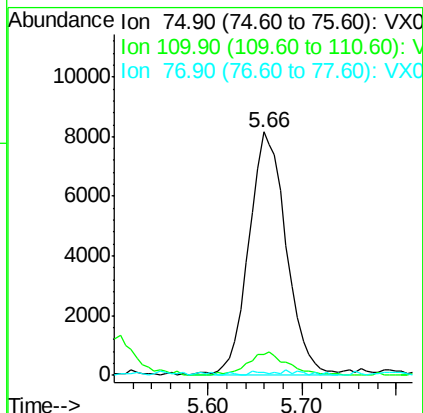
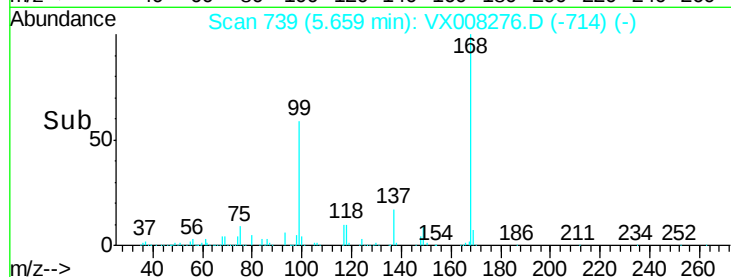
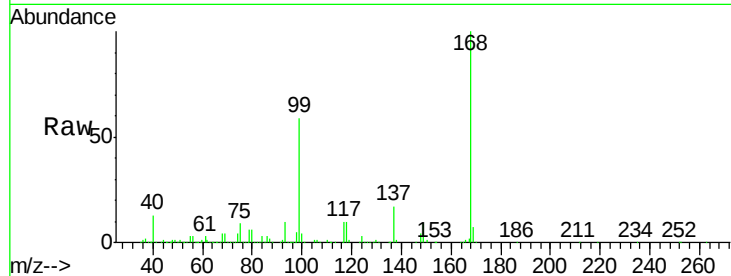
Tot Ion: 75 Resp: 22846

Ion Ratio Lower Upper

75 100

110 10.3 18.4 55.0#

77 0.6 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.759 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008276.D

Acq: 21 Mar 2019 06:11

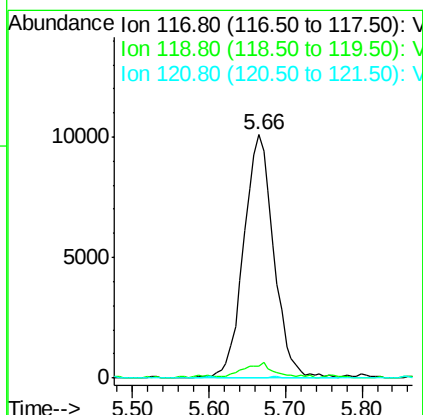
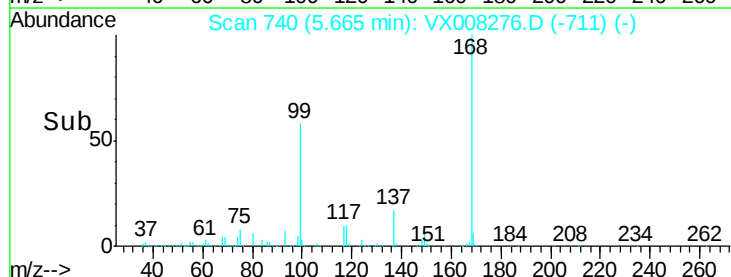
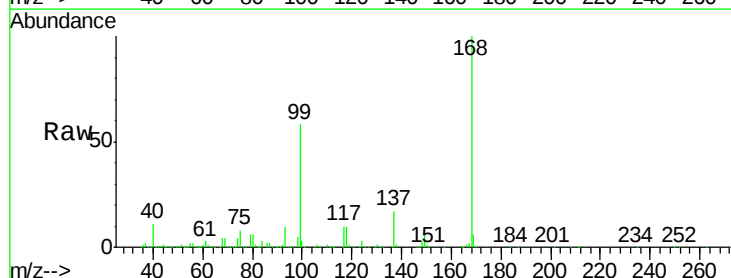
Tgt Ion:117 Resp: 27607

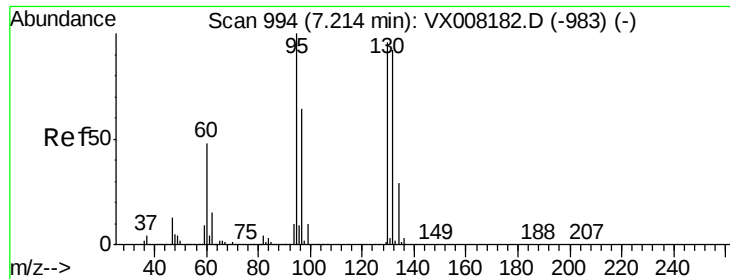
Ion Ratio Lower Upper

117 100

119 5.0 76.2 114.2#

121 0.0 24.6 36.8#





#44

Trichloroethene

Concen: 0.558 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX008276.D

Acq: 21 Mar 2019 06:11

Instrument :

MSVOA_X

ClientSampleId :

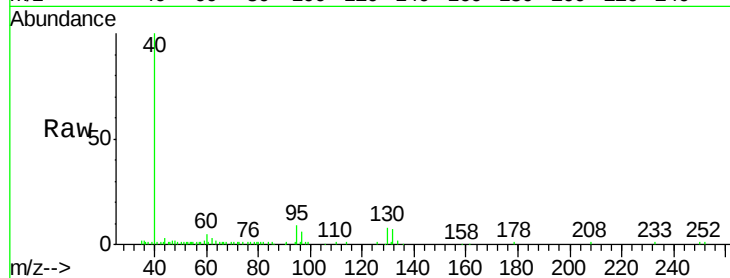
M4-T3-OZ(PRE)

Tot Ion:130 Resp: 2173

Ion Ratio Lower Upper

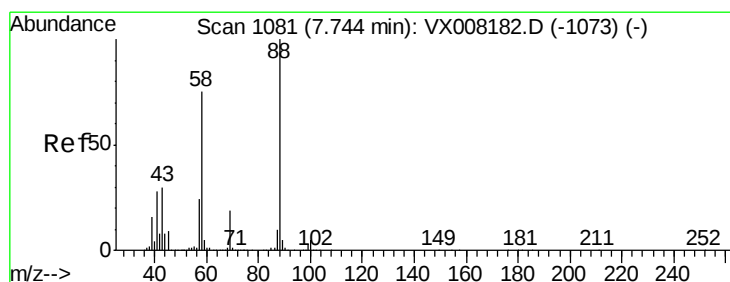
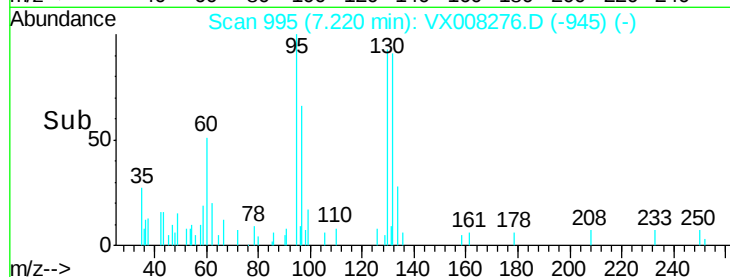
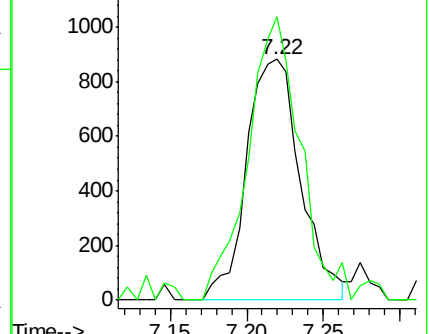
130 100

95 117.7 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 1.129 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX008276.D

Acq: 21 Mar 2019 06:11

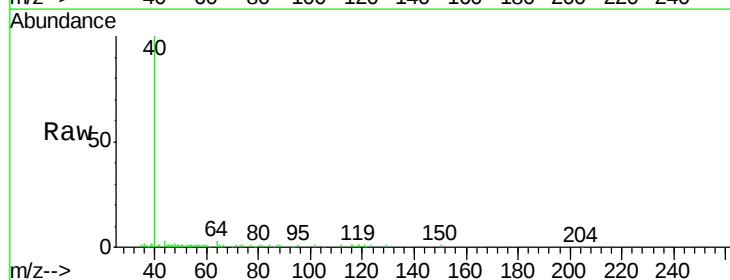
Tgt Ion: 88 Resp: 108

Ion Ratio Lower Upper

88 100

43 0.0 25.1 37.7#

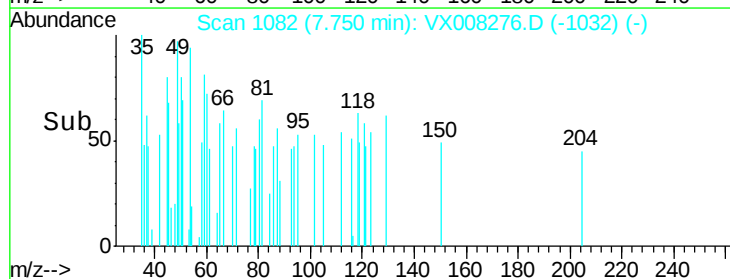
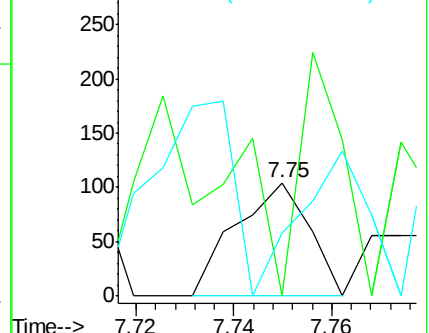
58 191.7 57.8 86.6#

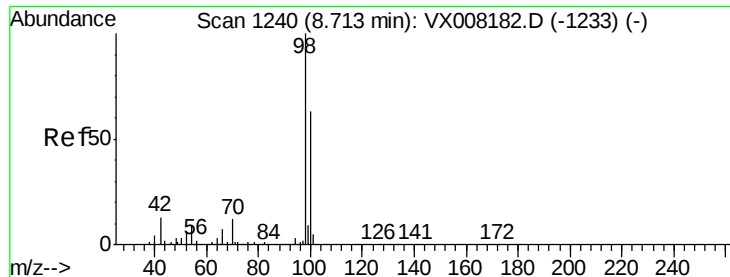


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.121 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008276.D

Acq: 21 Mar 2019 06:11

Instrument :

MSVOA_X

ClientSampleId :

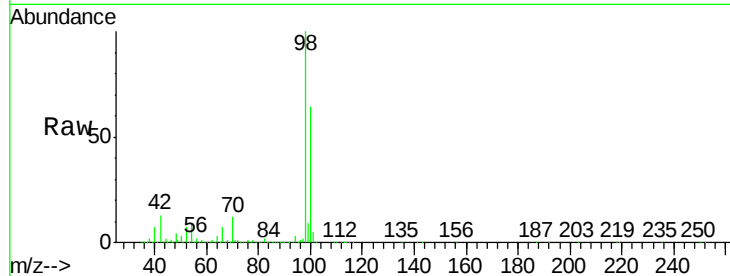
M4-T3-OZ(PRE)

Tot Ion: 98 Resp: 564379

Ion Ratio Lower Upper

98 100

100 63.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

400000

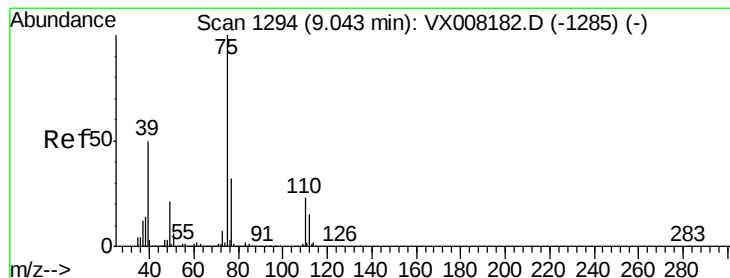
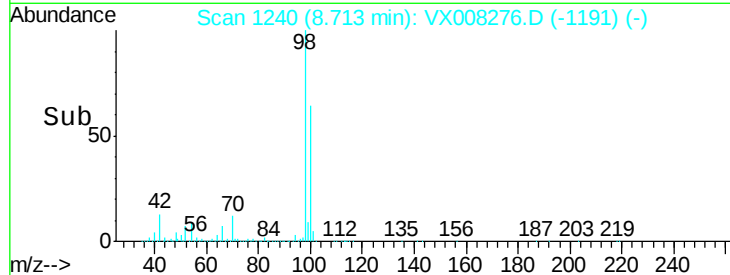
300000

200000

100000

0

Time-->



#53

t-1,3-Dichloropropene

Concen: 1.447 ug/l

RT: 9.02 min Scan# 1290

Delta R.T. -0.02 min

Lab File: VX008276.D

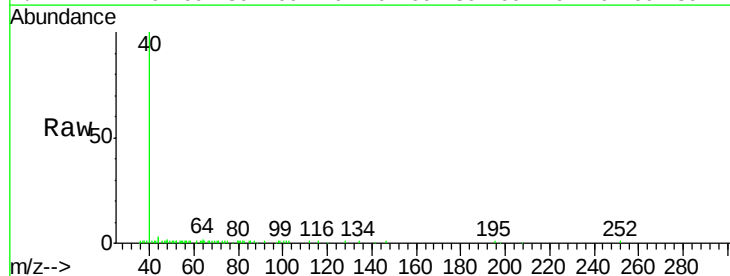
Acq: 21 Mar 2019 06:11

Tgt Ion: 75 Resp: 162

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

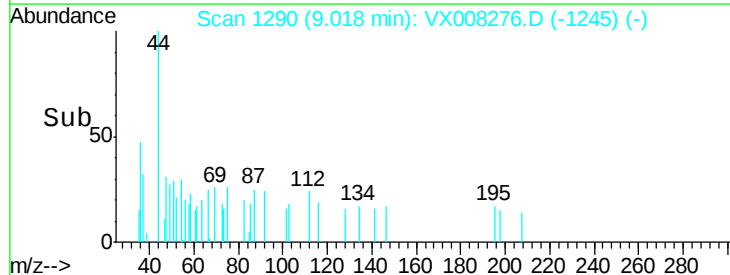
150

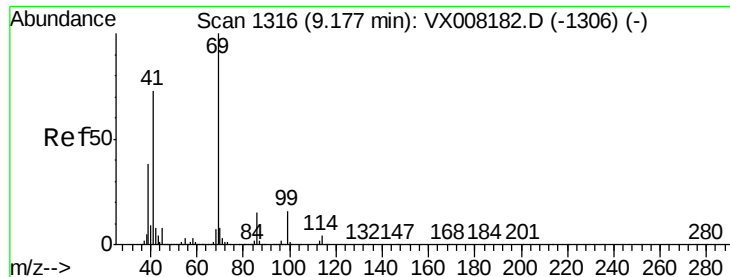
100

50

0

Time-->





#56

Ethyl methacrylate

Concen: 0.569 ug/l

RT: 9.18 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VX008276.D

Acq: 21 Mar 2019 06:11

Instrument :

MSVOA_X

ClientSampleId :

M4-T3-OZ(PRE)

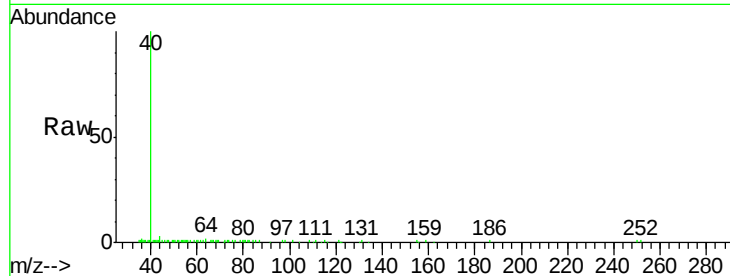
Tot Ion: 69 Resp: 290

Ion Ratio Lower Upper

69 100

41 92.4 54.2 81.4#

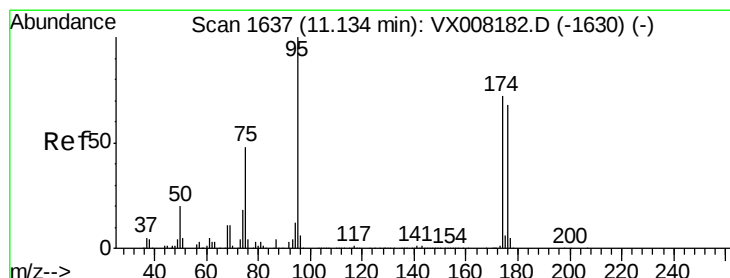
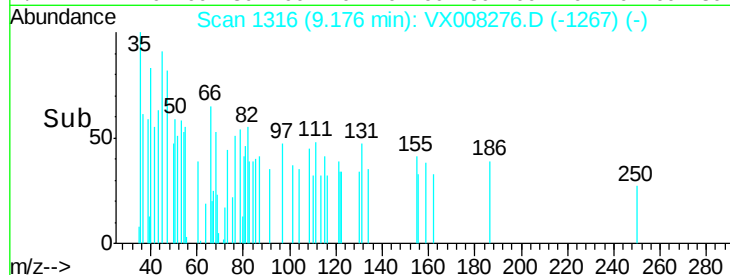
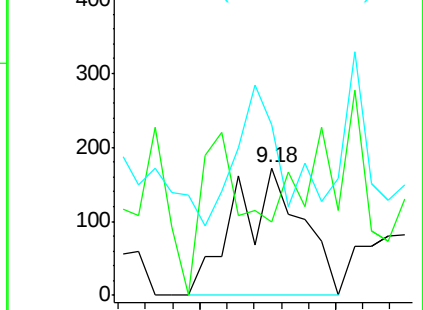
39 78.6 25.0 37.4#



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: 44.119 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008276.D

Acq: 21 Mar 2019 06:11

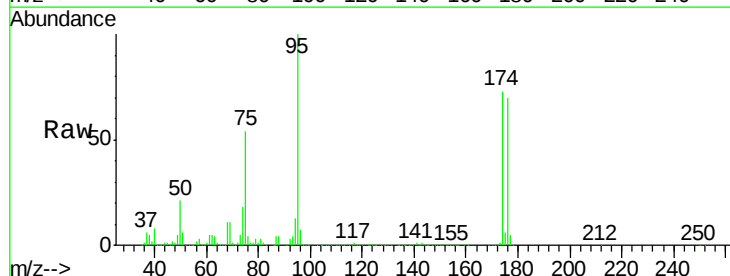
Tgt Ion: 95 Resp: 178167

Ion Ratio Lower Upper

95 100

174 79.8 0.0 182.8

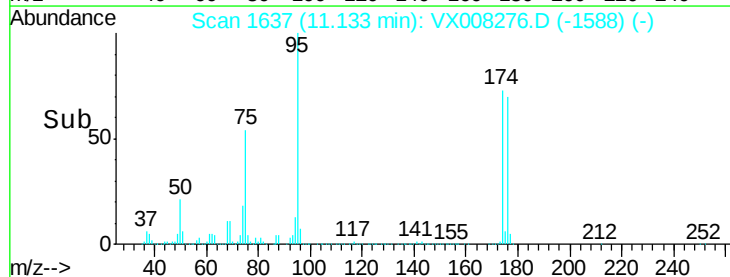
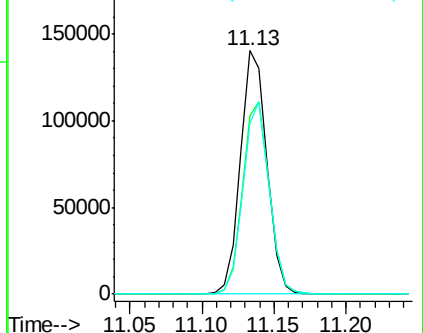
176 78.0 0.0 178.0

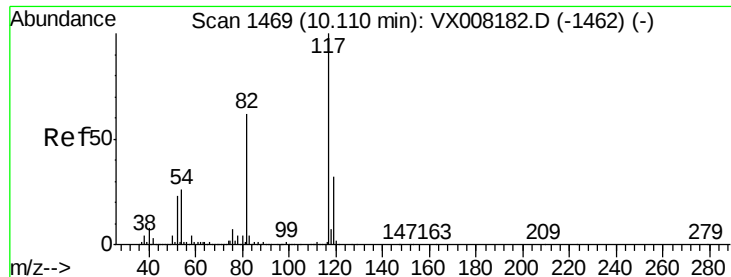


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

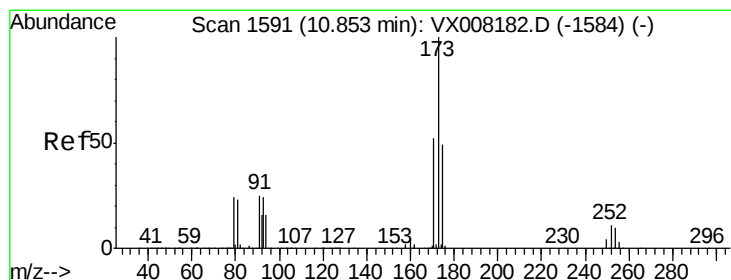
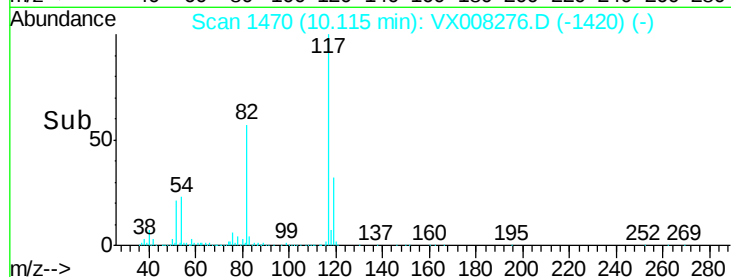
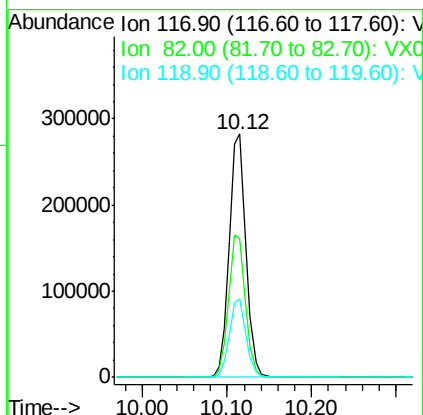
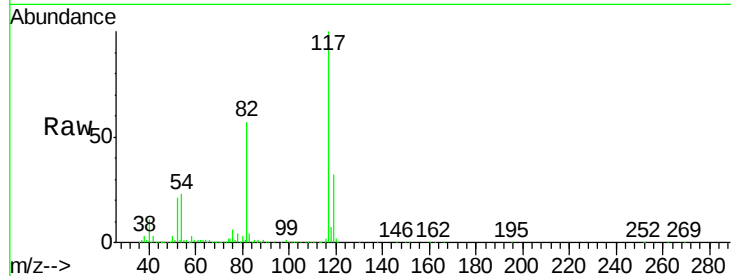




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008276.D
Acq: 21 Mar 2019 06:11

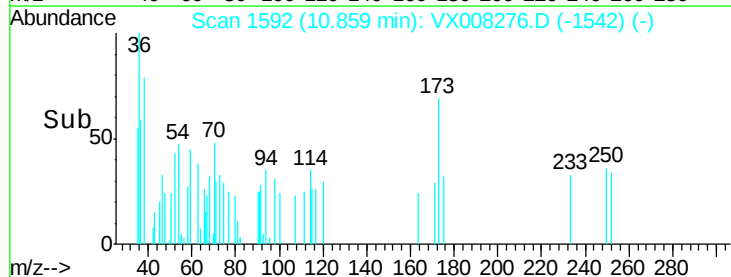
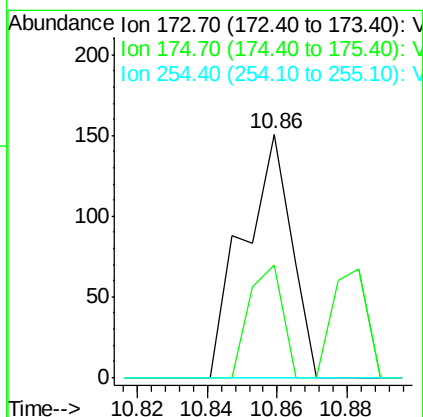
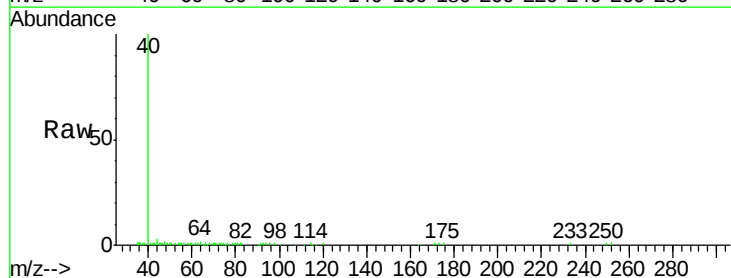
Instrument :
MSVOA_X
ClientSampleId :
M4-T3-OZ(PRE)

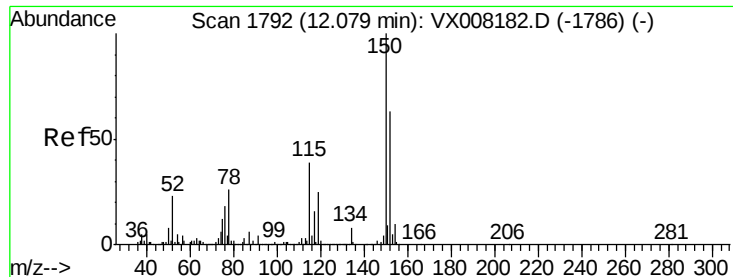
Tot Ion	Ratio	Lower	Upper
117	100		
82	57.1	44.3	66.5
119	32.0	25.3	37.9



#71
Bromoform
Concen: 2.250 ug/l
RT: 10.86 min Scan# 1592
Delta R.T. 0.01 min
Lab File: VX008276.D
Acq: 21 Mar 2019 06:11

Tgt Ion	Ratio	Lower	Upper
173	100		
175	0.0	24.3	72.9#
254	0.0	0.1	0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008276.D

Acq: 21 Mar 2019 06:11

Instrument :

MSVOA_X

ClientSampleId :

M4-T3-OZ(PRE)

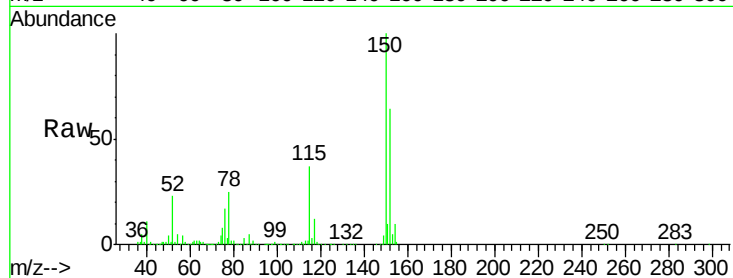
Tot Ion:152 Resp: 156208

Ion Ratio Lower Upper

152 100

115 59.5 38.6 115.7

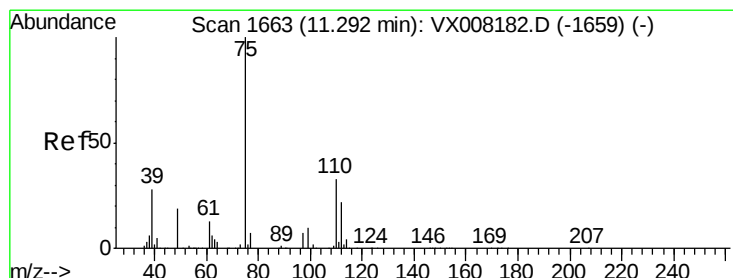
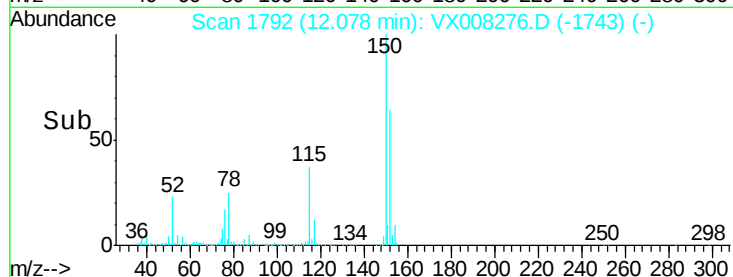
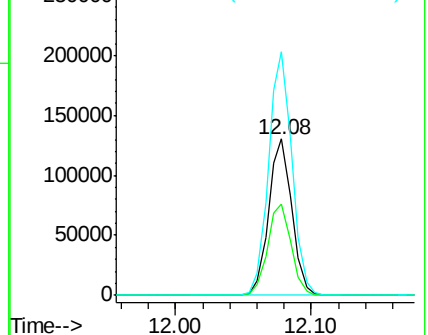
150 156.6 0.0 348.4



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: 21.753 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008276.D

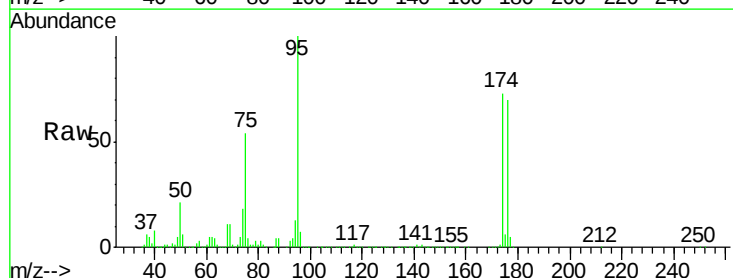
Acq: 21 Mar 2019 06:11

Tgt Ion: 75 Resp: 95572

Ion Ratio Lower Upper

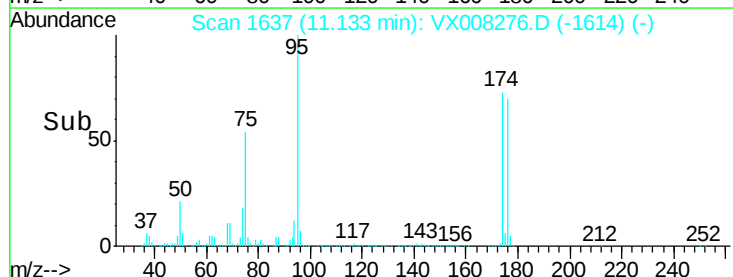
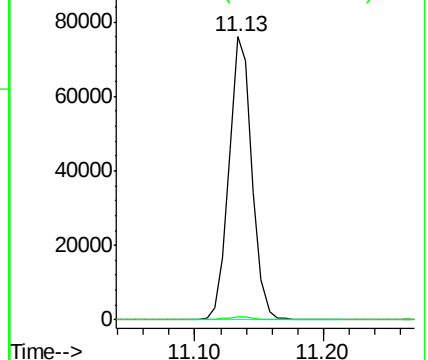
75 100

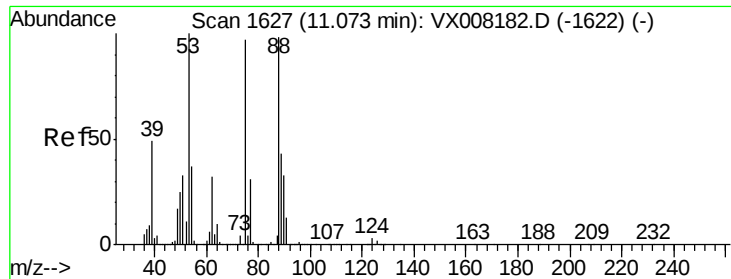
77 1.5 18.9 56.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 55.298 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008276.D

Acq: 21 Mar 2019 06:11

Instrument :

MSVOA_X

ClientSampleId :

M4-T3-OZ(PRE)

Tot Ion: 75 Resp: 95572

Ion Ratio Lower Upper

75 100

53 0.2 76.1 114.1#

89 0.1 36.3 54.5#

