

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032519\
 Data File : VX008424.D
 Acq On : 25 Mar 2019 21:00
 Operator : JC/SP
 Sample : K1945-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M4-T2-OZ(PRE)

Quant Time: Mar 26 06:04:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 04:58:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	232148	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	391905	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	337833	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	137368	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	165351	46.98	ug/l	0.00
Spiked Amount			Recovery	=	93.96%	
35) Dibromofluoromethane	5.50	113	122781	48.05	ug/l	0.00
Spiked Amount			Recovery	=	96.10%	
50) Toluene-d8	8.71	98	493659	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	
62) 4-Bromofluorobenzene	11.13	95	166433	43.96	ug/l	0.00
Spiked Amount			Recovery	=	87.92%	

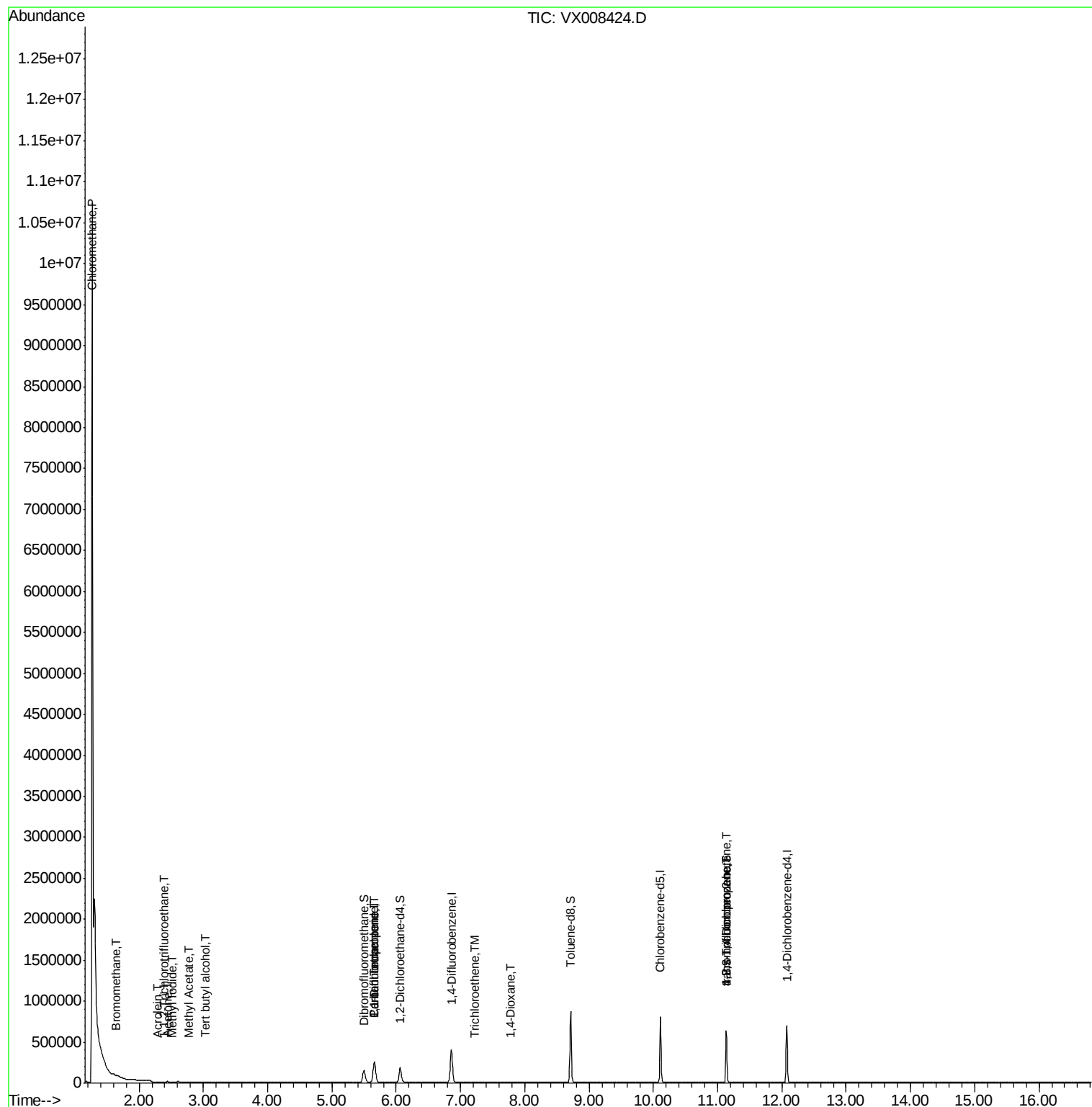
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.27	50	195573	56.721	ug/l #	43
5) Bromomethane	1.65	94	1375	2.469	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.39	101	533	0.204	ug/l #	86
10) Methyl Iodide	2.52	142	728	4.392	ug/l	92
11) Tert butyl alcohol	3.02	59	2472	3.170	ug/l #	84
13) Acrolein	2.29	56	275	0.486	ug/l #	68
16) Acetone	2.44	43	10290	5.594	ug/l	98
18) Methyl Acetate	2.78	43	1098	0.249	ug/l #	87
20) Methylene Chloride	2.85	84	943	Below Cal	#	83
21) trans-1,2-Dichloroethene	3.17	96	178	Below Cal	#	66
36) 1,1-Dichloropropene	5.66	75	19921	4.767	ug/l #	51
38) Carbon Tetrachloride	5.66	117	23491	6.736	ug/l #	16
44) Trichloroethene	7.21	130	905	0.308	ug/l	94
49) 1,4-Dioxane	7.78	88	19	0.221	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	84953	20.802	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	84953	66.627	ug/l #	9

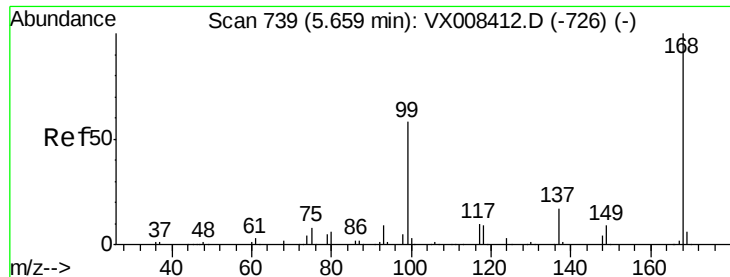
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX008424.D

Acq: 25 Mar 2019 21:00

Instrument :

MSVOA_X

ClientSampleId :

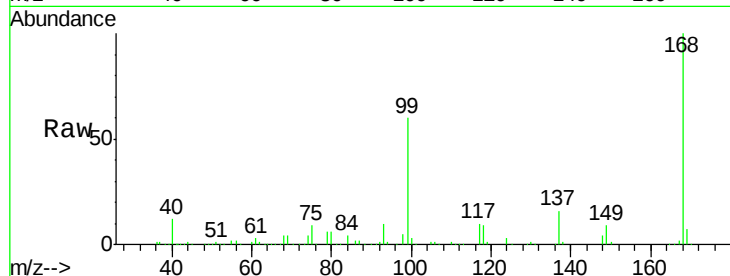
M4-T2-OZ(PRE)

Tot Ion:168 Resp: 232148

Ion Ratio Lower Upper

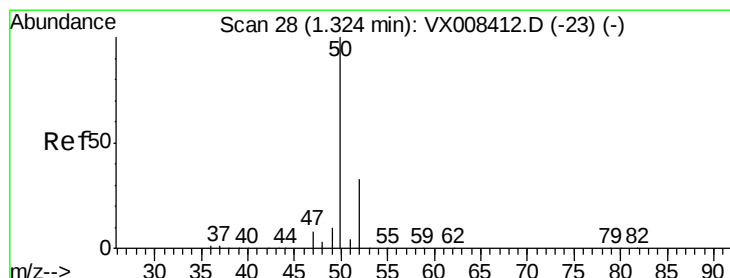
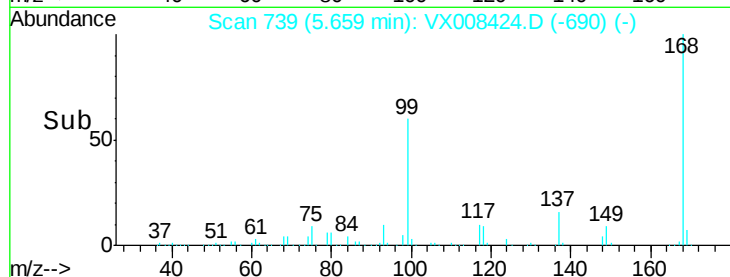
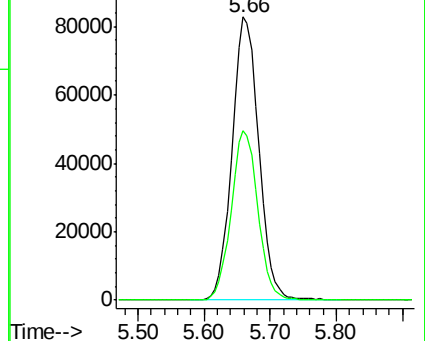
168 100

99 59.6 46.0 69.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 56.721 ug/l

RT: 1.27 min Scan# 19

Delta R.T. -0.05 min

Lab File: VX008424.D

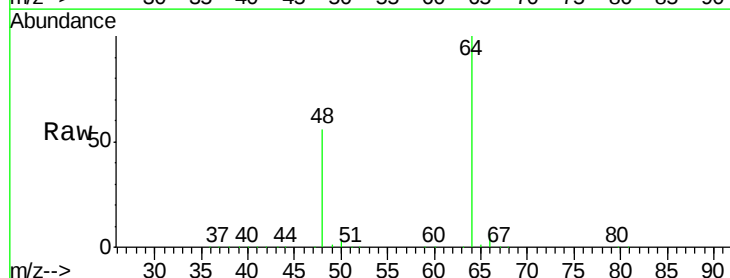
Acq: 25 Mar 2019 21:00

Tgt Ion: 50 Resp: 195573

Ion Ratio Lower Upper

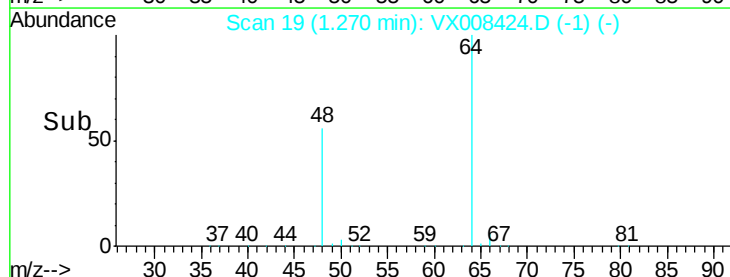
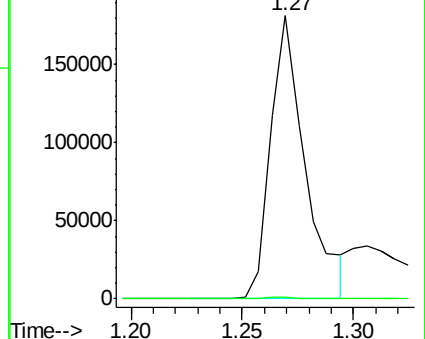
50 100

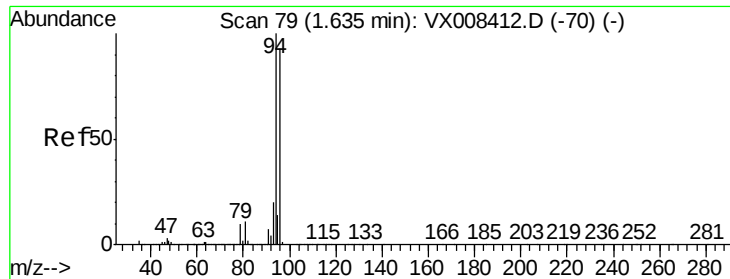
52 0.6 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 2.469 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008424.D

Acq: 25 Mar 2019 21:00

Instrument :

MSVOA_X

ClientSampleId :

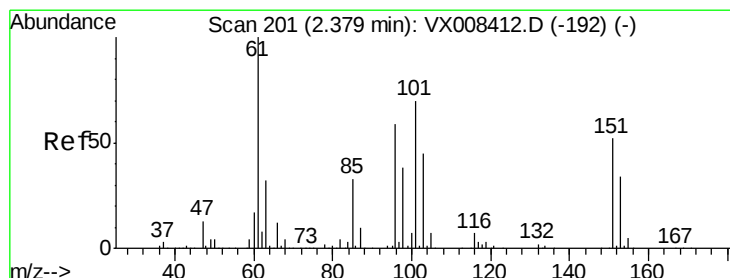
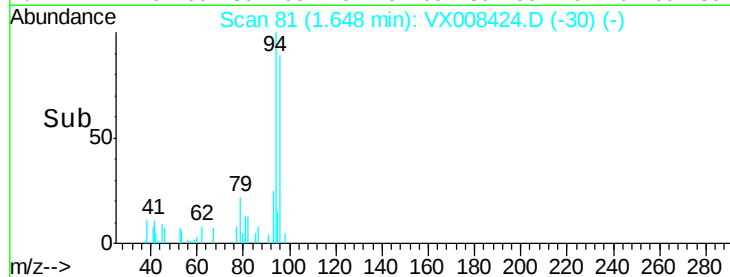
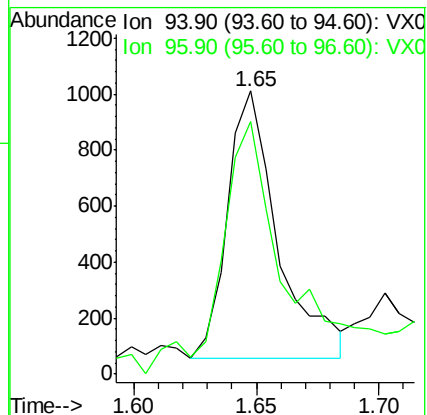
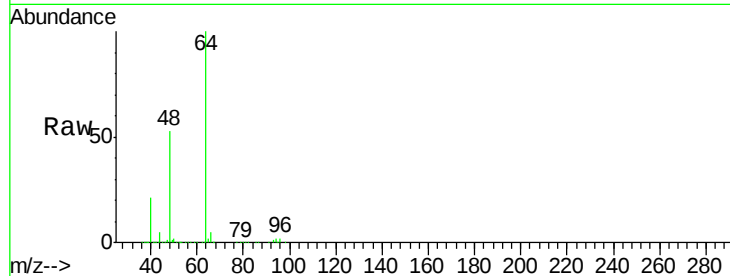
M4-T2-OZ(PRE)

Tot Ion: 94 Resp: 1375

Ion Ratio Lower Upper

94 100

96 88.2 74.8 112.2



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.204 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX008424.D

Acq: 25 Mar 2019 21:00

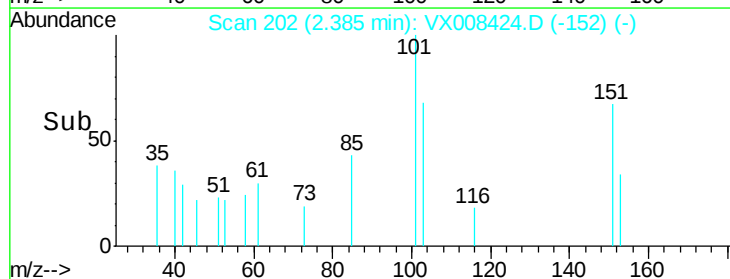
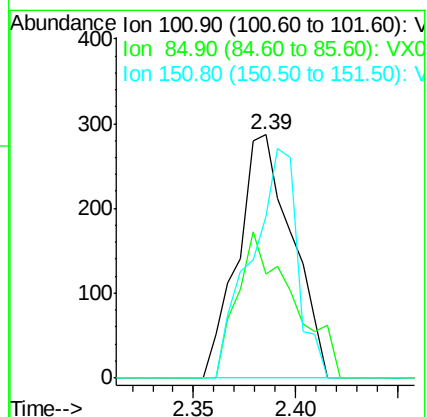
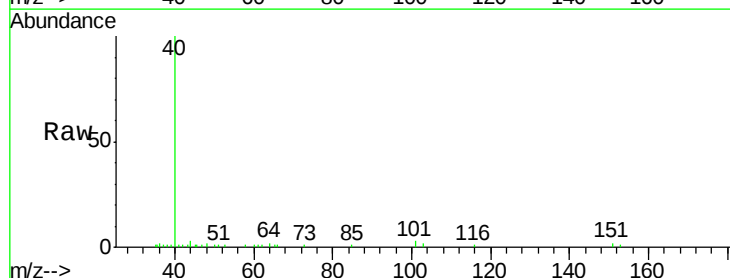
Tgt Ion: 101 Resp: 533

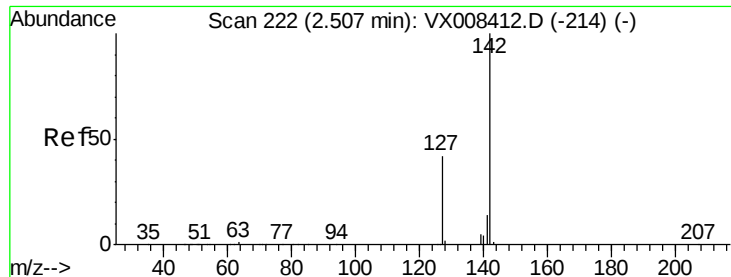
Ion Ratio Lower Upper

101 100

85 60.6 36.0 54.0#

151 80.1 59.2 88.8

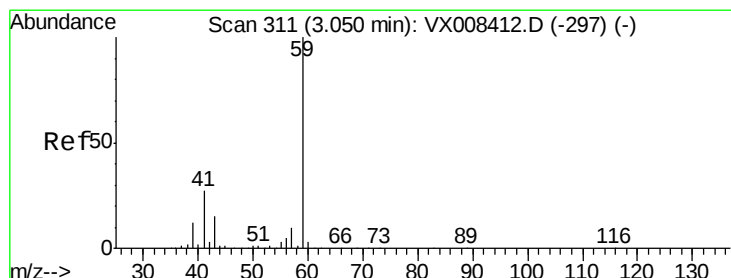
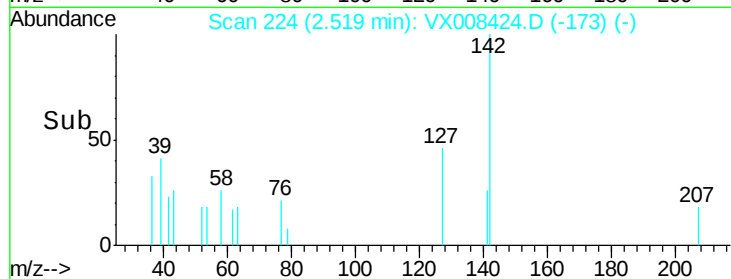
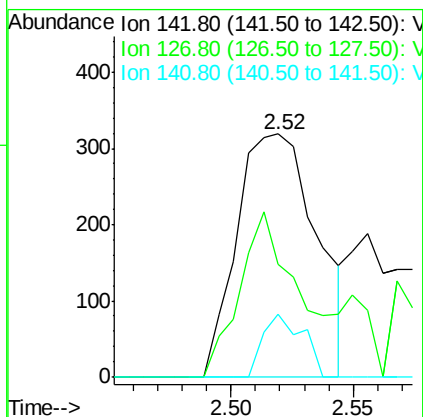
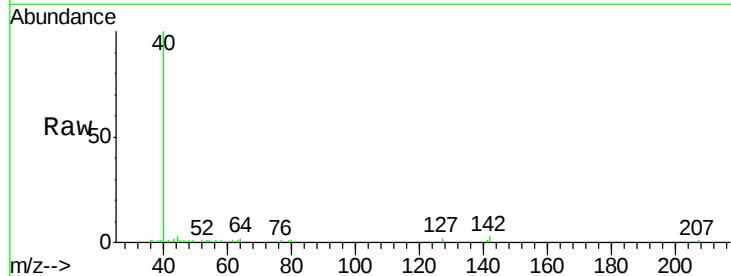




#10
Methyl Iodide
Concen: 4.392 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX008424.D
Acq: 25 Mar 2019 21:00

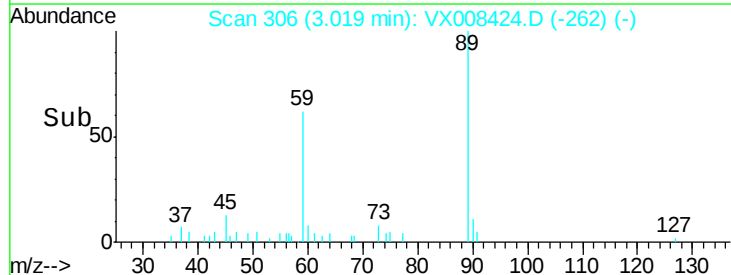
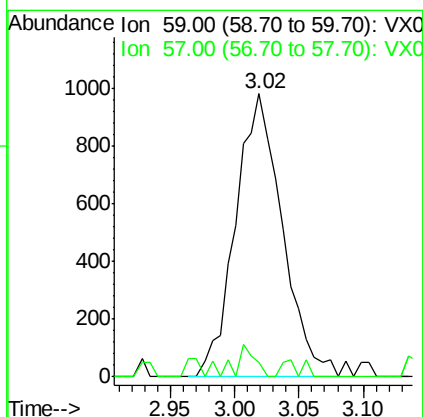
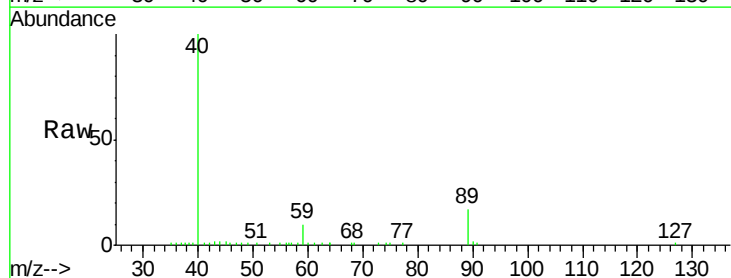
Instrument :
MSVOA_X
ClientSampleId :
M4-T2-OZ(PRE)

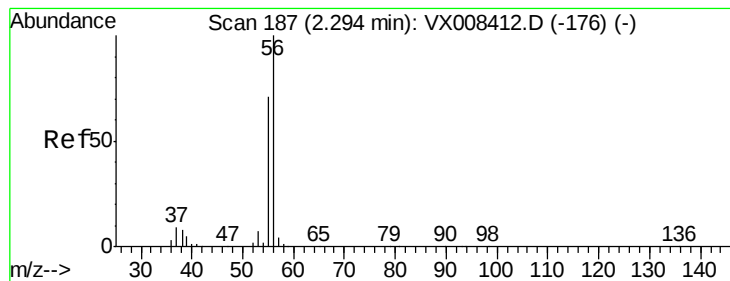
Tot Ion:142 Resp: 728
Ion Ratio Lower Upper
142 100
127 48.1 33.6 50.4
141 13.0 11.3 16.9



#11
Tert butyl alcohol
Concen: 3.170 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX008424.D
Acq: 25 Mar 2019 21:00

Tgt Ion: 59 Resp: 2472
Ion Ratio Lower Upper
59 100
57 4.4 8.2 12.4#





#13

Acrolein

Concen: 0.486 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX008424.D

Acq: 25 Mar 2019 21:00

Instrument :

MSVOA_X

ClientSampleId :

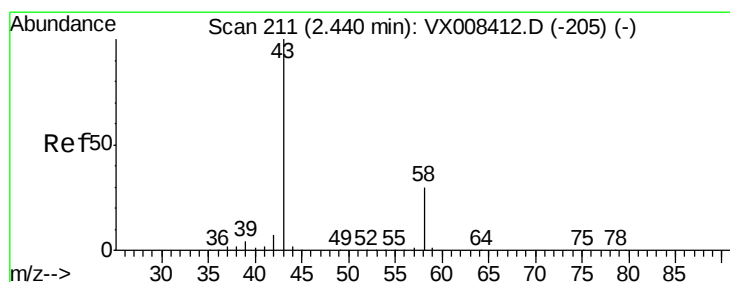
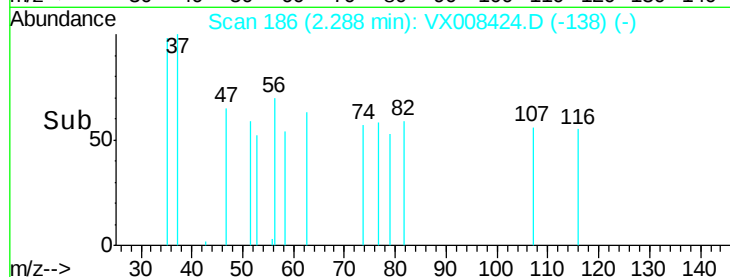
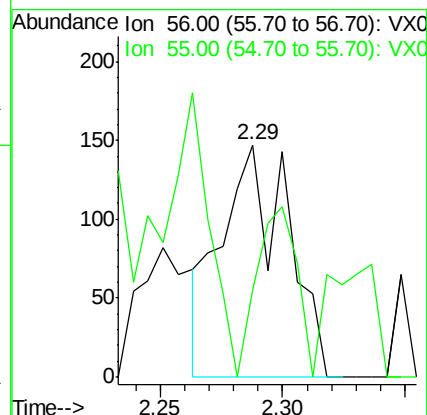
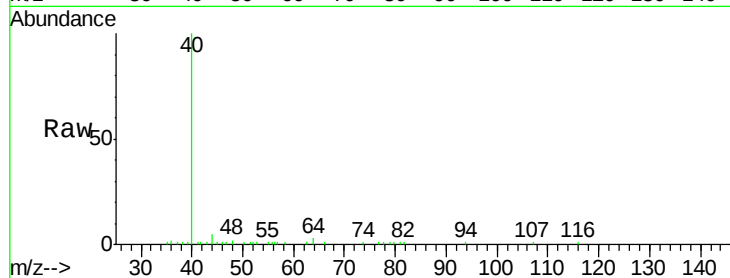
M4-T2-OZ(PRE)

Tot Ion: 56 Resp: 275

Ion Ratio Lower Upper

56 100

55 44.0 56.5 84.7#



#16

Acetone

Concen: 5.594 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX008424.D

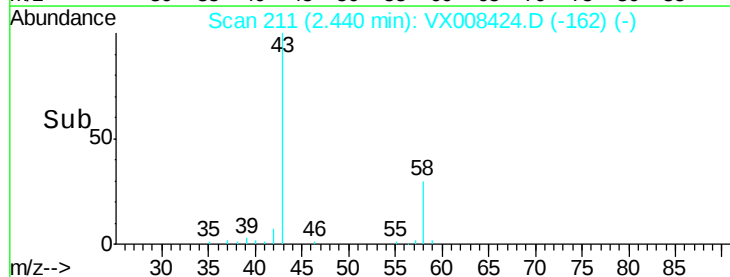
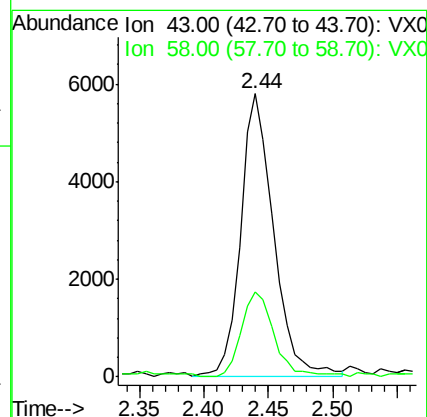
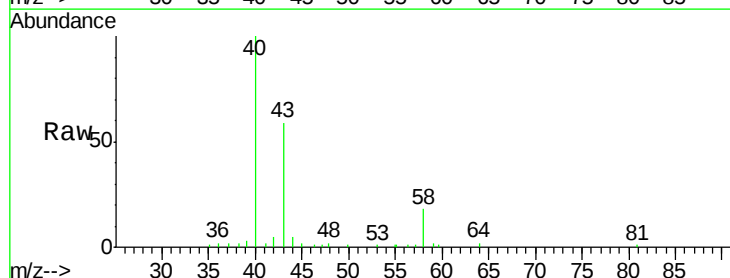
Acq: 25 Mar 2019 21:00

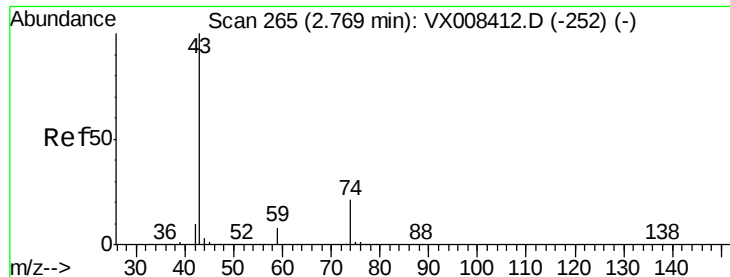
Tgt Ion: 43 Resp: 10290

Ion Ratio Lower Upper

43 100

58 29.2 24.2 36.2

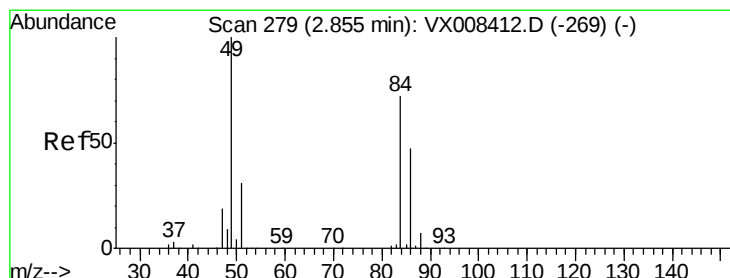
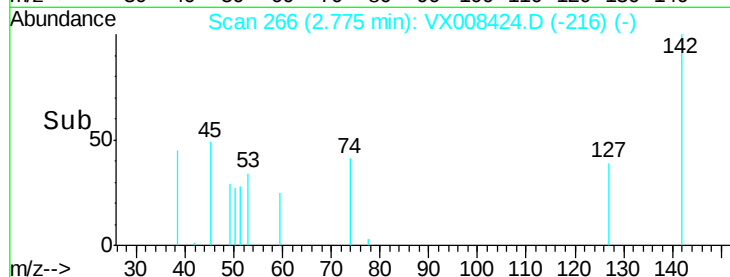
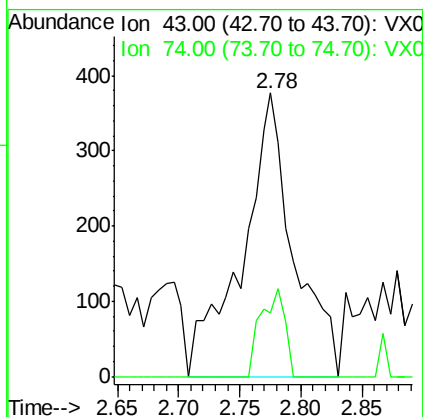
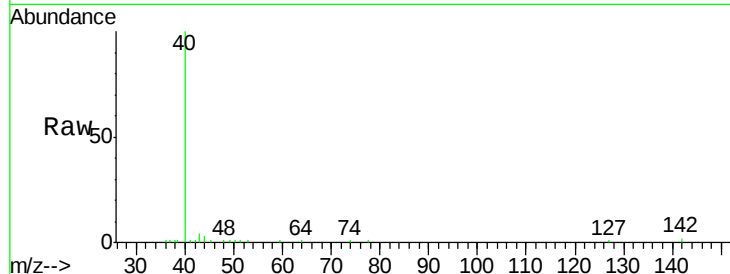




#18
Methyl Acetate
Concen: 0.249 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX008424.D
Acq: 25 Mar 2019 21:00

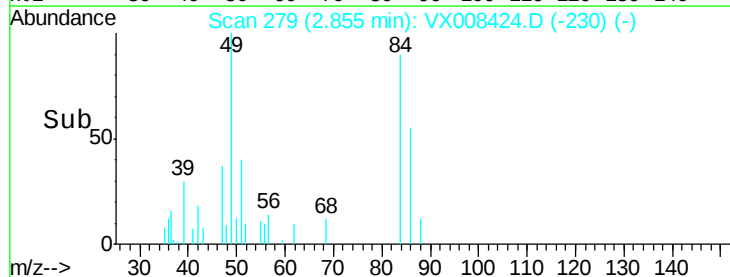
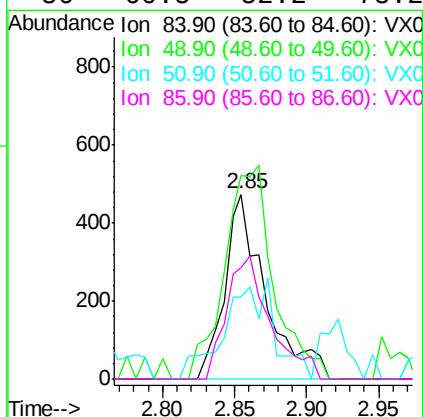
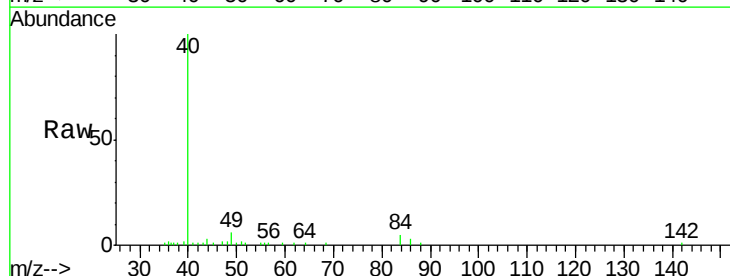
Instrument :
MSVOA_X
ClientSampleId :
M4-T2-OZ(PRE)

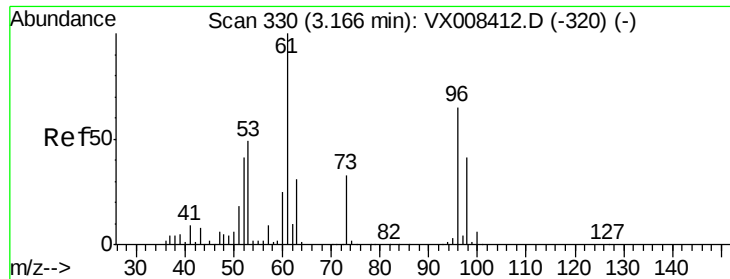
Tot Ion: 43 Resp: 1098
Ion Ratio Lower Upper
43 100
74 14.7 16.7 25.1#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX008424.D
Acq: 25 Mar 2019 21:00

Tgt Ion: 84 Resp: 943
Ion Ratio Lower Upper
84 100
49 110.5 110.6 165.8#
51 31.2 33.9 50.9#
86 60.5 52.2 78.2





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX008424.D

Acq: 25 Mar 2019 21:00

Instrument :

MSVOA_X

ClientSampleId :

M4-T2-OZ(PRE)

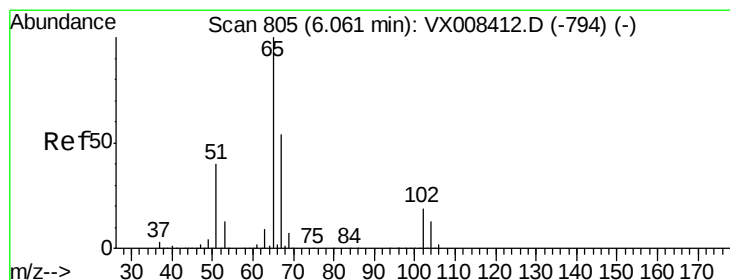
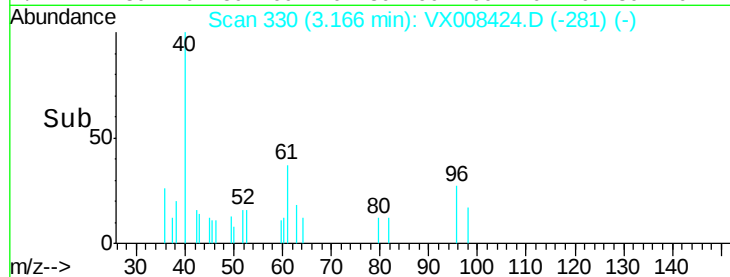
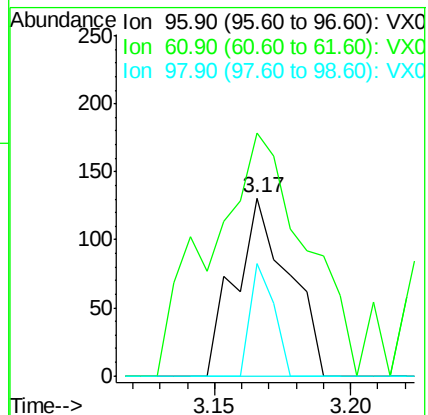
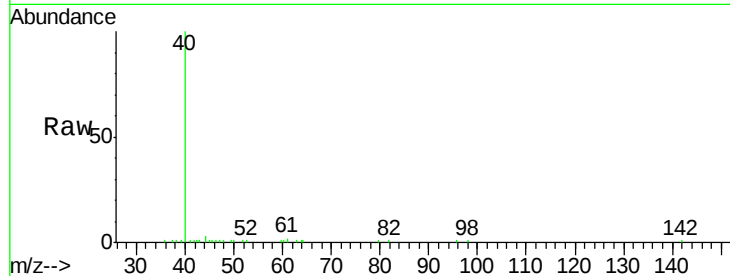
Tot Ion: 96 Resp: 178

Ion Ratio Lower Upper

96 100

61 91.6 122.6 184.0#

98 63.4 50.9 76.3



#33

1,2-Dichloroethane-d4

Concen: 46.982 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX008424.D

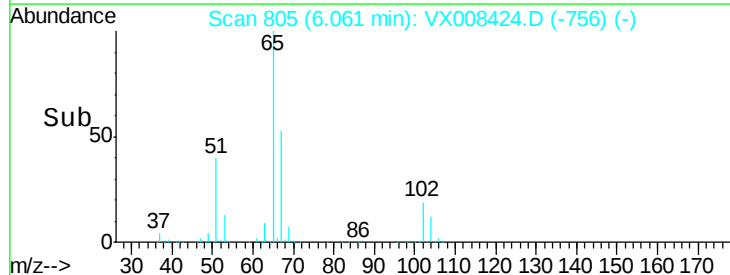
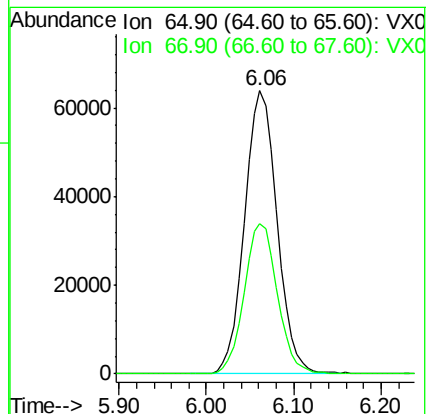
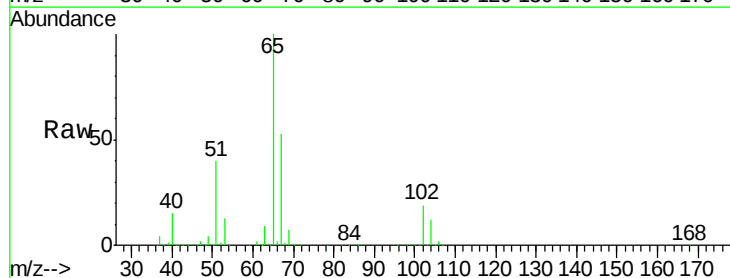
Acq: 25 Mar 2019 21:00

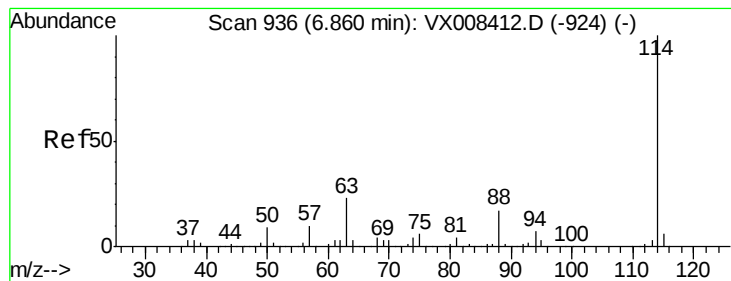
Tgt Ion: 65 Resp: 165351

Ion Ratio Lower Upper

65 100

67 54.1 0.0 109.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX008424.D

Acq: 25 Mar 2019 21:00

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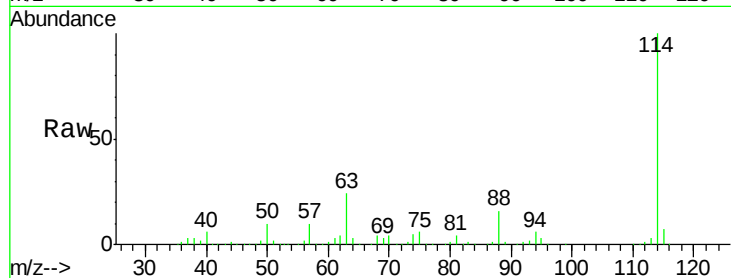
Tot Ion:114 Resp: 391905

Ion Ratio Lower Upper

114 100

63 24.1 0.0 46.4

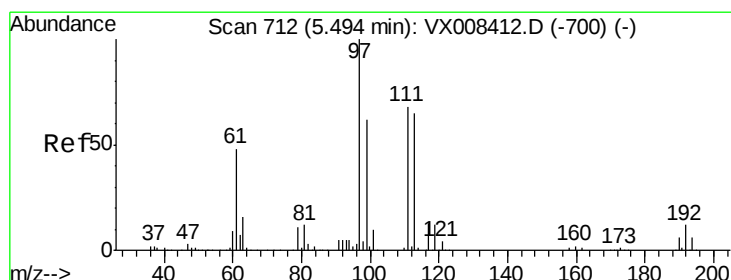
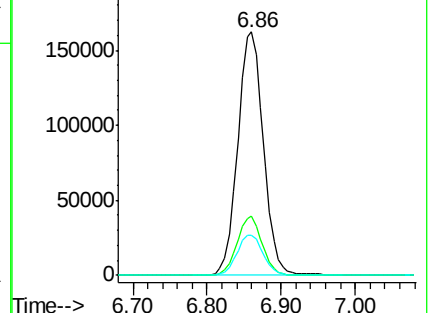
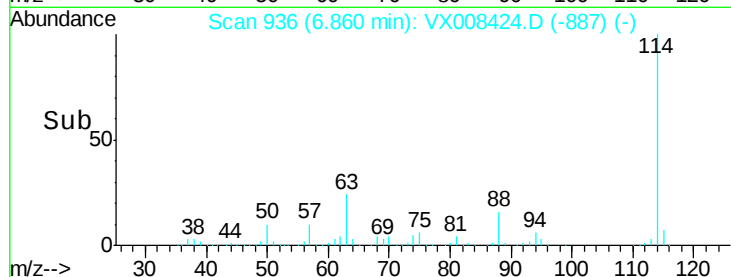
88 16.5 0.0 33.2



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: 48.048 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX008424.D

Acq: 25 Mar 2019 21:00

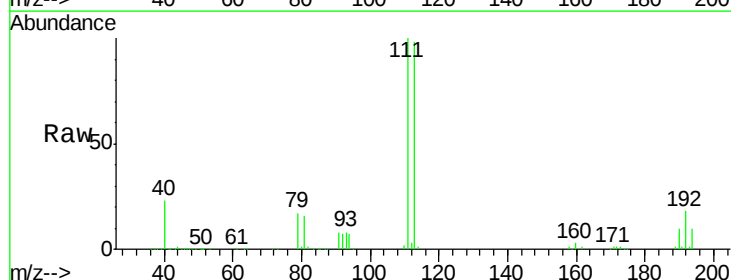
Tgt Ion:113 Resp: 122781

Ion Ratio Lower Upper

113 100

111 103.3 83.0 124.4

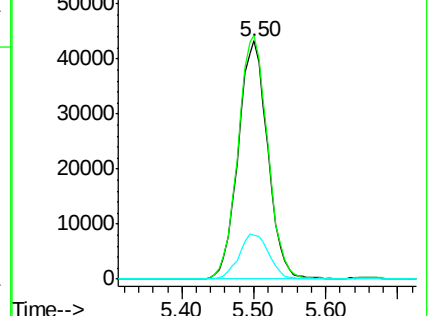
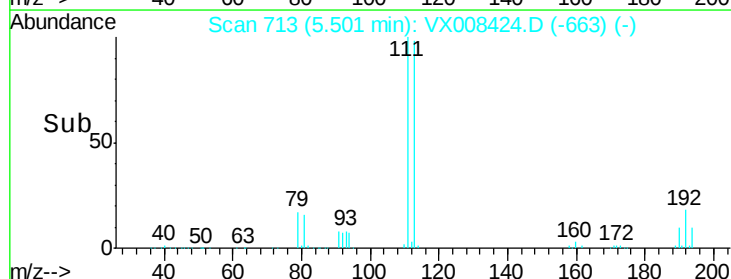
192 19.3 15.6 23.4

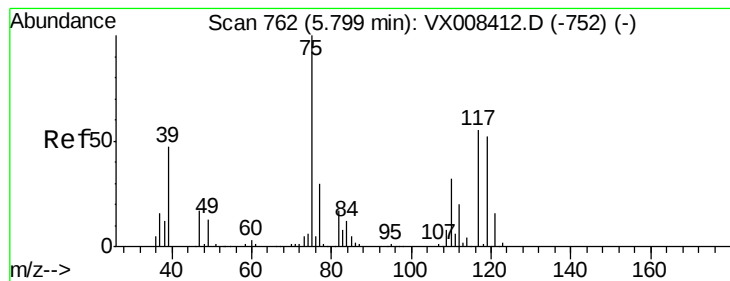


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.767 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008424.D

Acq: 25 Mar 2019 21:00

Instrument :

MSVOA_X

ClientSampleId :

M4-T2-OZ(PRE)

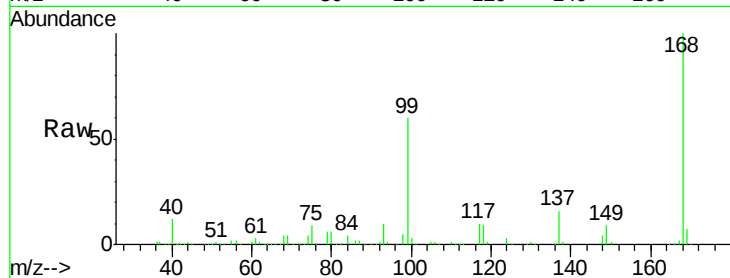
Tot Ion: 75 Resp: 19921

Ion Ratio Lower Upper

75 100

110 8.4 16.6 49.7#

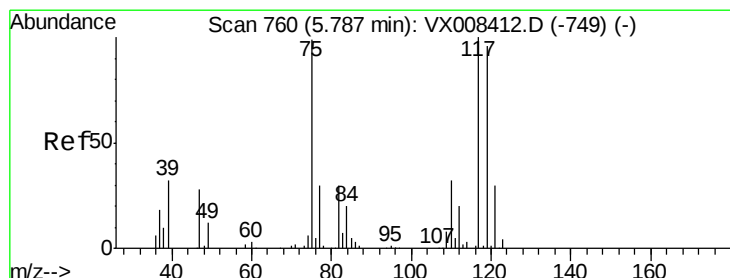
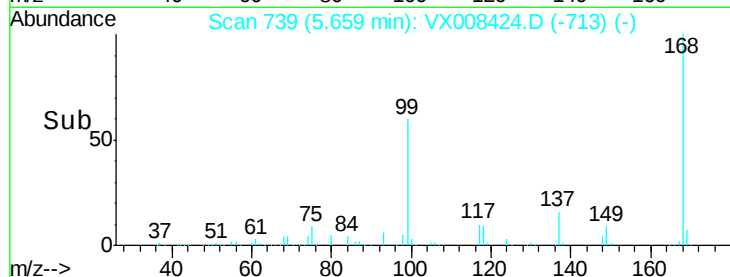
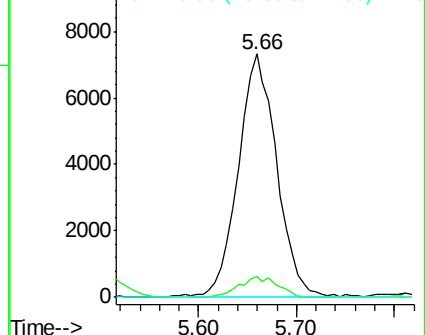
77 0.0 24.2 36.2#



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: 6.736 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008424.D

Acq: 25 Mar 2019 21:00

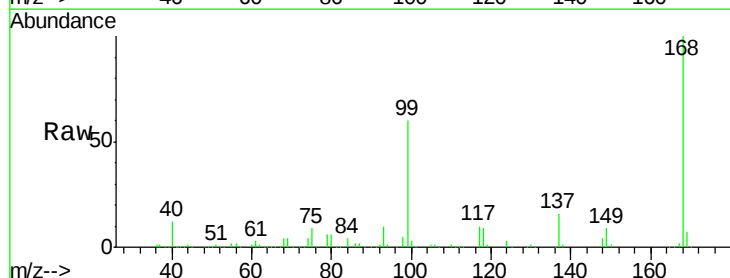
Tgt Ion: 117 Resp: 23491

Ion Ratio Lower Upper

117 100

119 5.3 76.7 115.1#

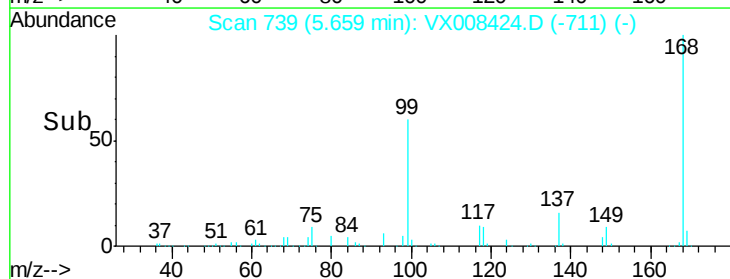
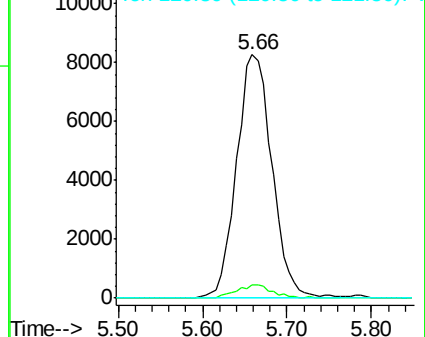
121 0.0 24.3 36.5#

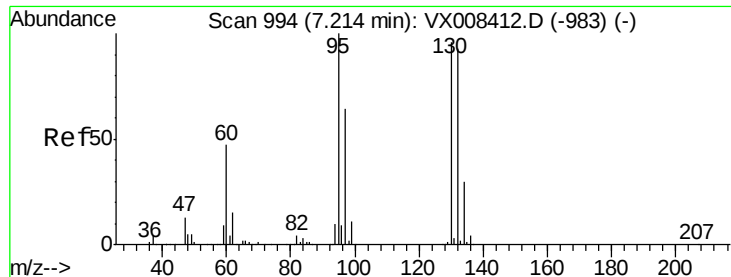


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 0.308 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX008424.D

Acq: 25 Mar 2019 21:00

Instrument :

MSVOA_X

ClientSampleId :

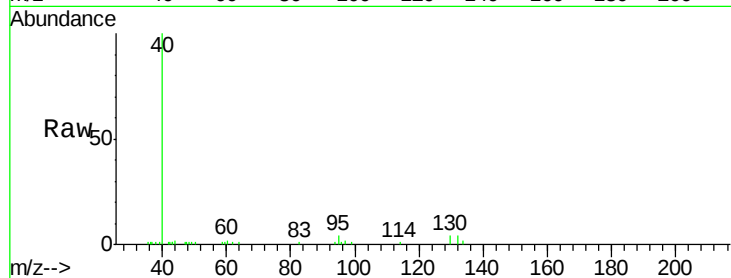
M4-T2-OZ(PRE)

Tot Ion:130 Resp: 905

Ion Ratio Lower Upper

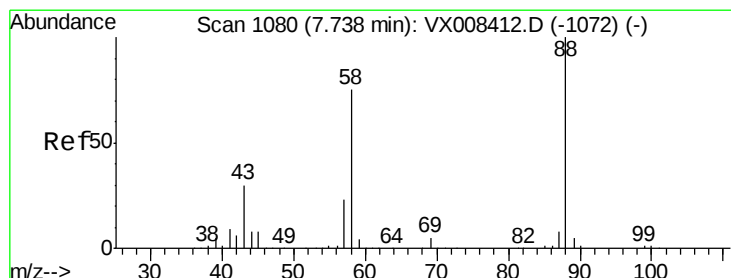
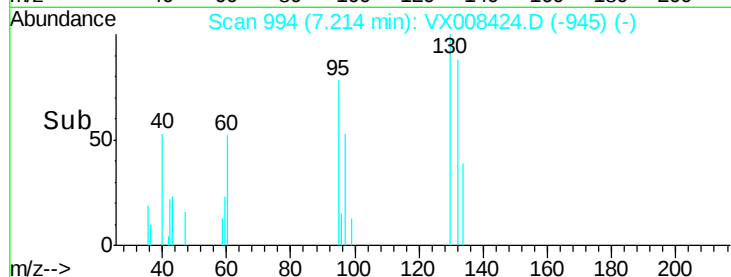
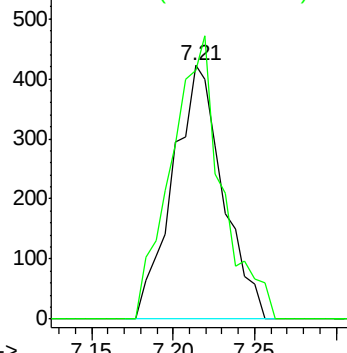
130 100

95 97.9 0.0 208.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.221 ug/l

RT: 7.78 min Scan# 1087

Delta R.T. 0.04 min

Lab File: VX008424.D

Acq: 25 Mar 2019 21:00

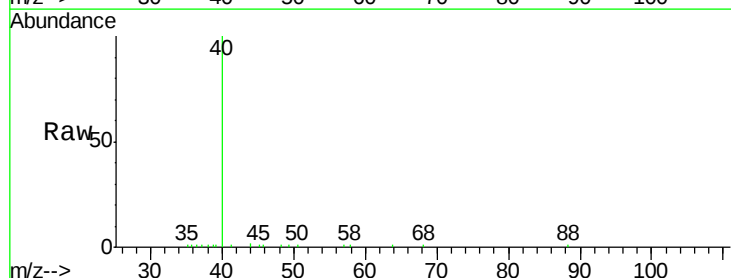
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 668.4 28.6 43.0#

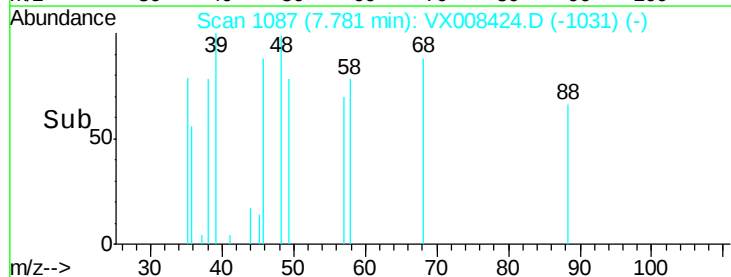
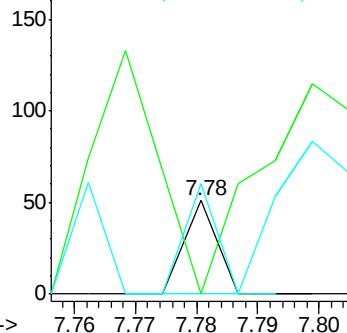
58 505.3 63.0 94.4#

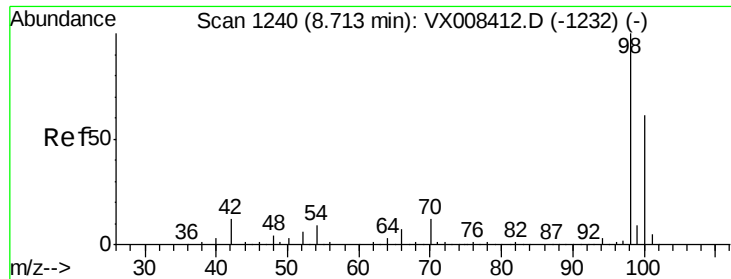


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

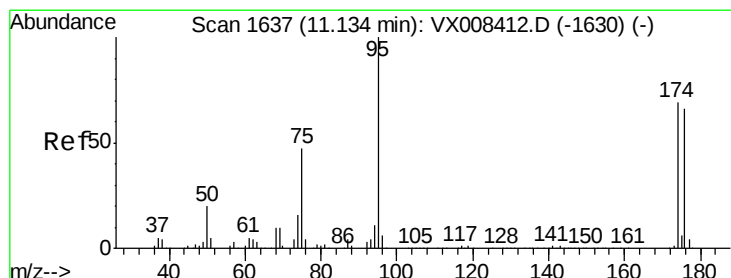
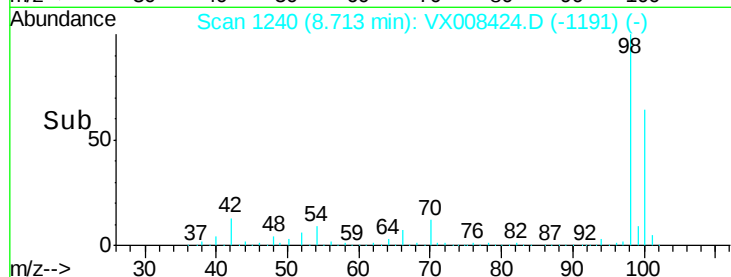
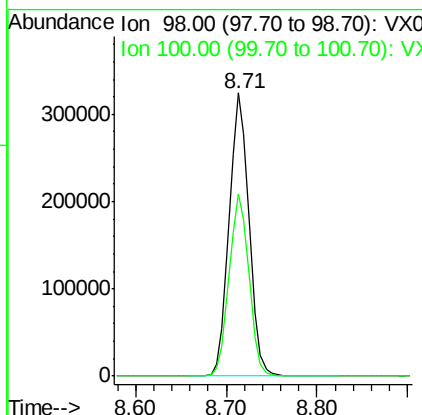
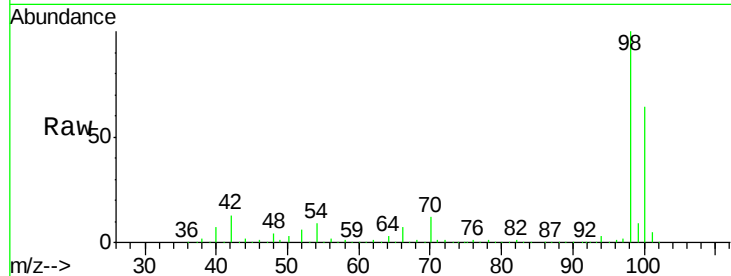




#50
Toluene-d8
Concen: 48.313 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008424.D
Acq: 25 Mar 2019 21:00

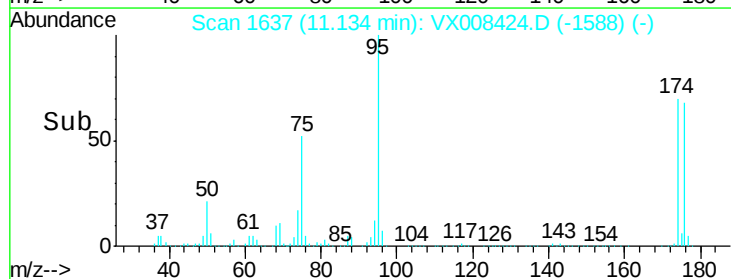
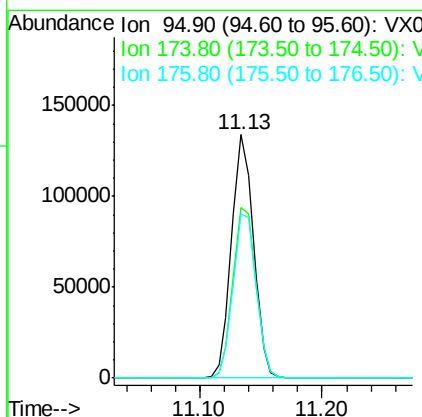
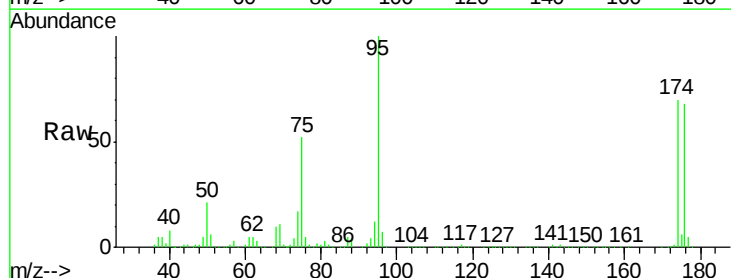
Instrument :
MSVOA_X
ClientSampleId :
M4-T2-OZ(PRE)

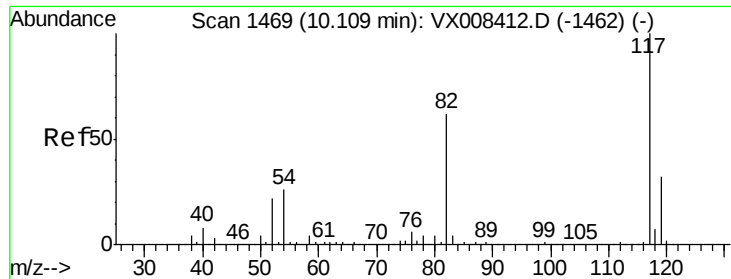
Tot Ion: 98 Resp: 493659
Ion Ratio Lower Upper
98 100
100 64.3 51.1 76.7



#62
4-Bromofluorobenzene
Concen: 43.955 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX008424.D
Acq: 25 Mar 2019 21:00

Tgt Ion: 95 Resp: 166433
Ion Ratio Lower Upper
95 100
174 73.4 0.0 147.2
176 70.9 0.0 142.4

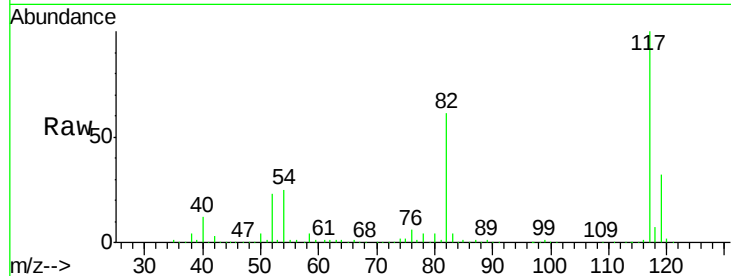




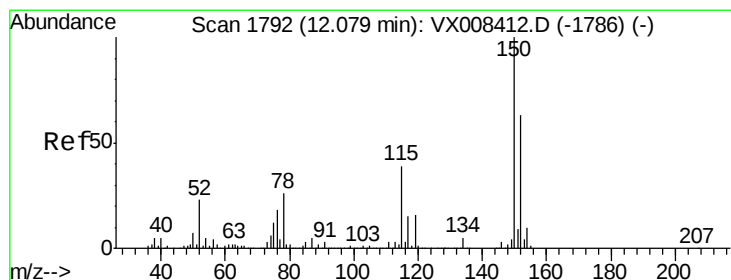
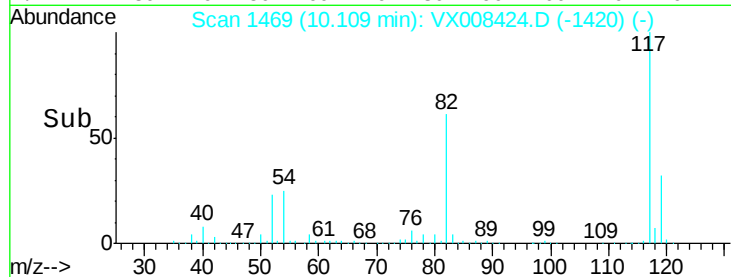
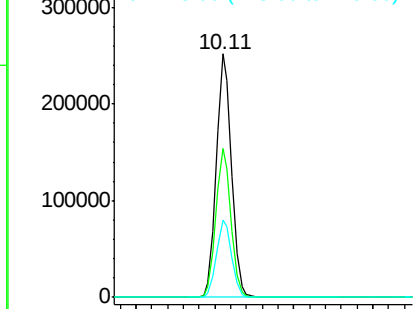
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008424.D
Acq: 25 Mar 2019 21:00

Instrument :
MSVOA_X
ClientSampleId :
M4-T2-OZ(PRE)

Tot Ion:117 Resp: 337833
Ion Ratio Lower Upper
117 100
82 61.0 49.4 74.2
119 31.5 25.4 38.0

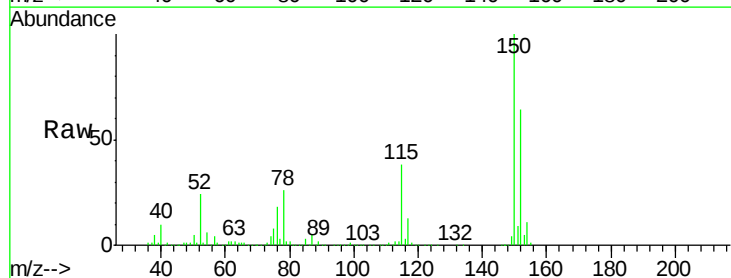


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

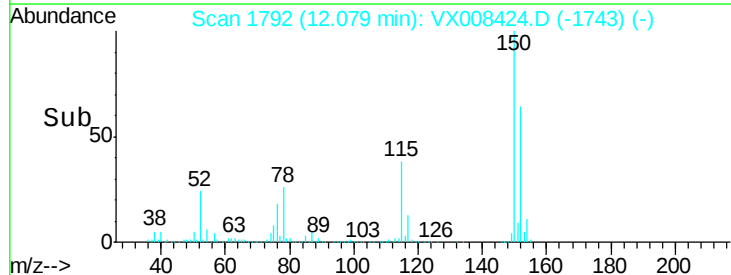
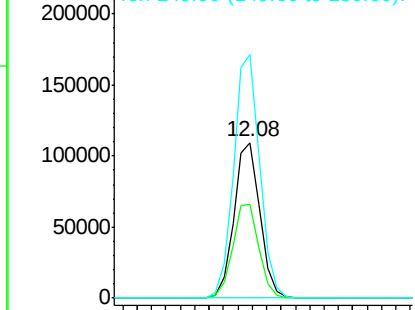


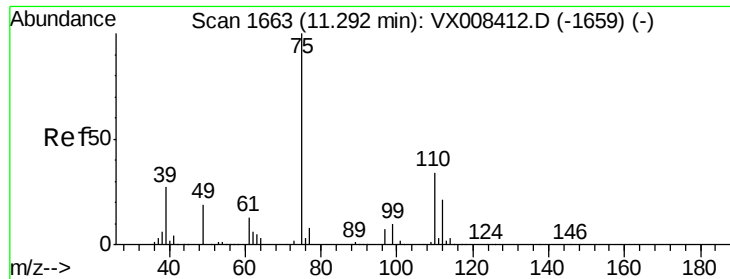
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX008424.D
Acq: 25 Mar 2019 21:00

Tgt Ion:152 Resp: 137368
Ion Ratio Lower Upper
152 100
115 61.4 43.5 130.5
150 158.0 0.0 348.8



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: 20.802 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008424.D

Acq: 25 Mar 2019 21:00

Instrument :

MSVOA_X

ClientSampleId :

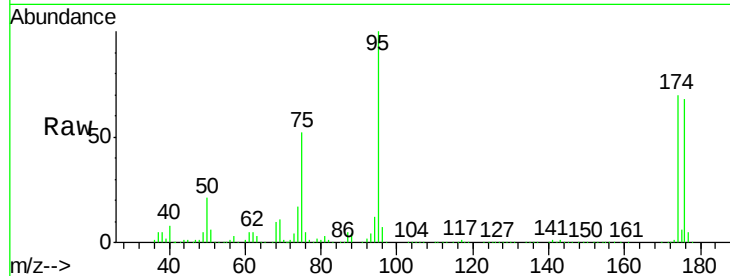
M4-T2-OZ(PRE)

Tot Ion: 75 Resp: 84953

Ion Ratio Lower Upper

75 100

77 1.2 21.9 65.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

80000

60000

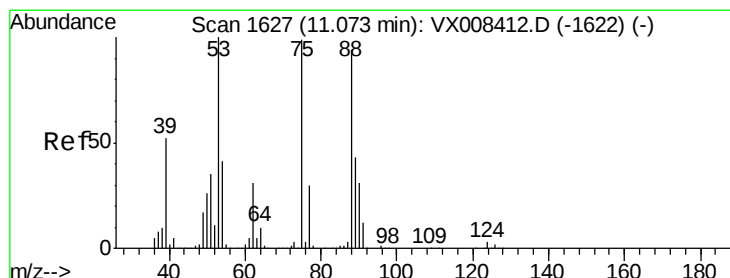
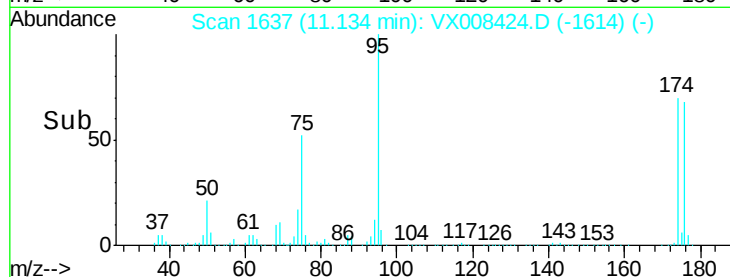
40000

20000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 66.627 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008424.D

Acq: 25 Mar 2019 21:00

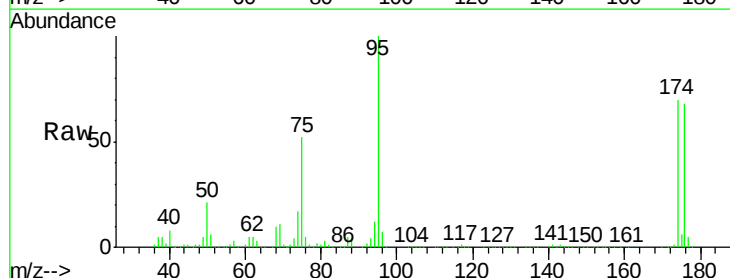
Tgt Ion: 75 Resp: 84953

Ion Ratio Lower Upper

75 100

53 0.1 82.1 123.1#

89 0.0 34.6 52.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

11.13

80000

60000

40000

20000

0

Time-->

11.10 11.20

