

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX090419\
 Data File : VX012056.D
 Acq On : 04 Sep 2019 17:12
 Operator : SY/SP
 Sample : K4546-20
 Misc : 3.95g/5.0mL/MSVOA_X/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T3-S-B4-(2.5)

Quant Time: Sep 05 05:24:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X090319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 03 15:26:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	159706	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	282124	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	244583	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	104818	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	108123	49.07	ug/l	0.00
Spiked Amount			Recovery	=	98.14%	
35) Dibromofluoromethane	5.48	113	84313	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
50) Toluene-d8	8.71	98	332826	52.28	ug/l	0.00
Spiked Amount			Recovery	=	104.56%	
62) 4-Bromofluorobenzene	11.13	95	132484	44.75	ug/l	0.00
Spiked Amount			Recovery	=	89.50%	

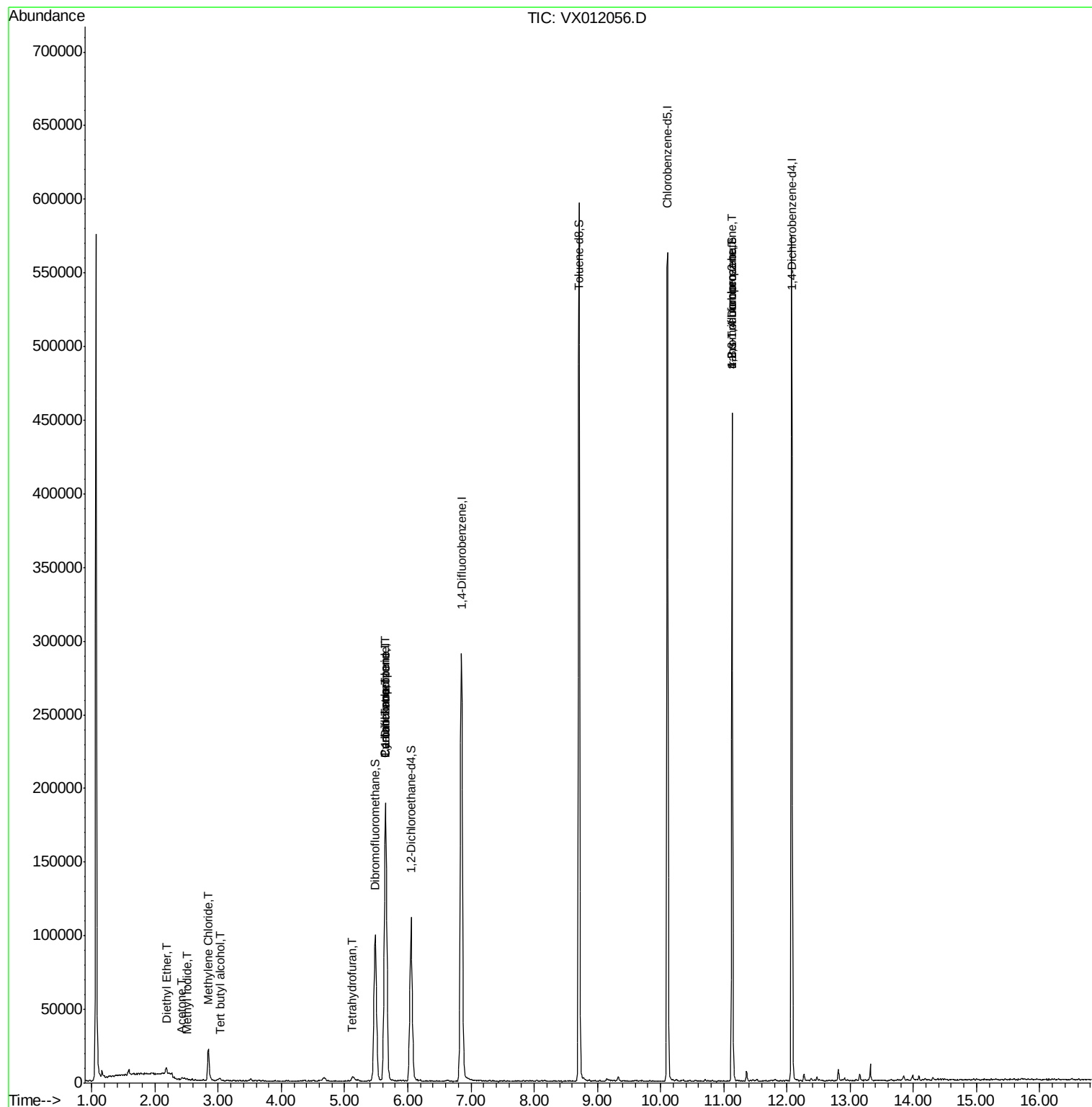
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	1619	2.126	ug/l	93
10) Methyl Iodide	2.50	142	101	7.041	ug/l #	40
11) Tert butyl alcohol	3.03	59	1775	8.386	ug/l #	76
13) Acrolein	2.26	56	235	Below Cal	#	12
16) Acetone	2.43	43	1423	2.702	ug/l #	88
20) Methylene Chloride	2.84	84	10358	4.897	ug/l	97
29) Tetrahydrofuran	5.12	42	3200	7.922	ug/l	96
31) Cyclohexane	5.64	56	4319	1.599	ug/l #	17
36) 1,1-Dichloropropene	5.65	75	14979	6.028	ug/l #	49
38) Carbon Tetrachloride	5.65	117	18663	7.128	ug/l #	14
76) 1,2,3-Trichloropropane	11.13	75	68160	53.220	ug/l #	31
81) trans-1,4-Dichloro-2-buten	11.13	75	68160	125.821	ug/l #	10

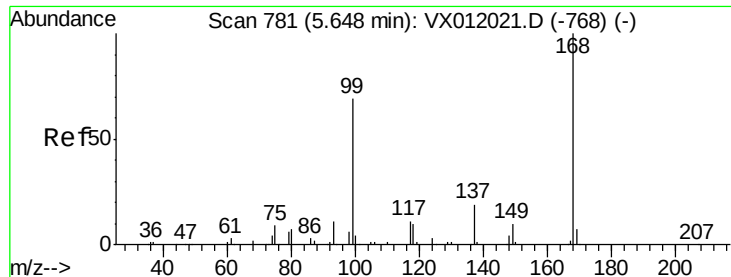
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX012056.D

Acq: 04 Sep 2019 17:12

Instrument :

MSVOA_X

ClientSampleId :

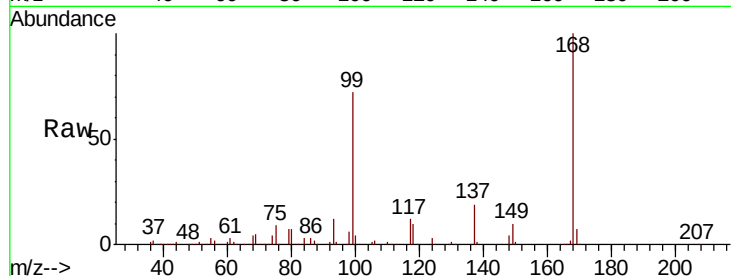
T3-S-B4-(2.5)

Tgt Ion:168 Resp: 159706

Ion Ratio Lower Upper

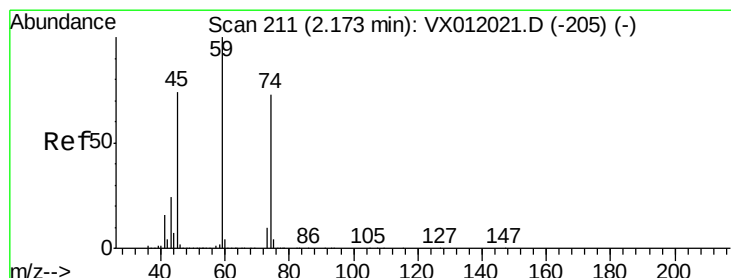
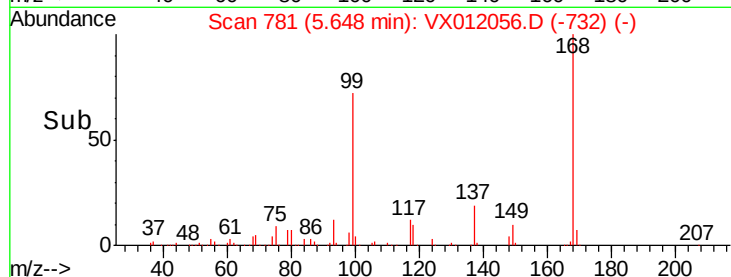
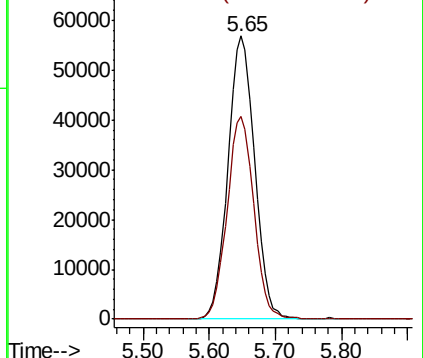
168 100

99 71.8 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#8

Diethyl Ether

Concen: 2.126 ug/l

RT: 2.17 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX012056.D

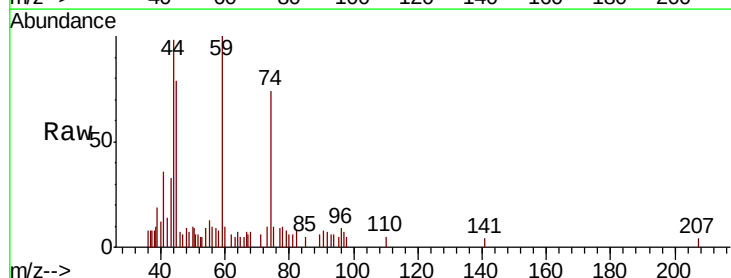
Acq: 04 Sep 2019 17:12

Tgt Ion: 74 Resp: 1619

Ion Ratio Lower Upper

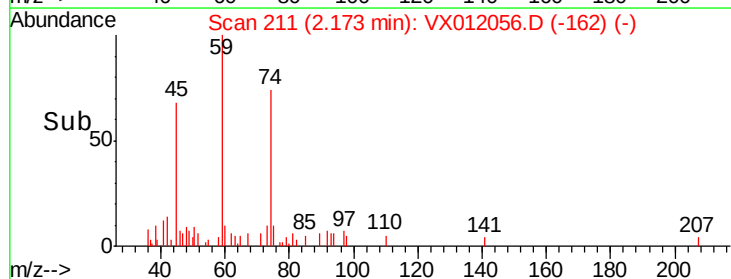
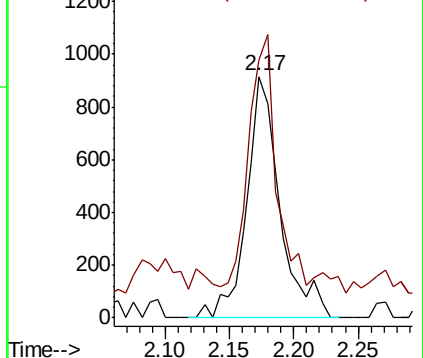
74 100

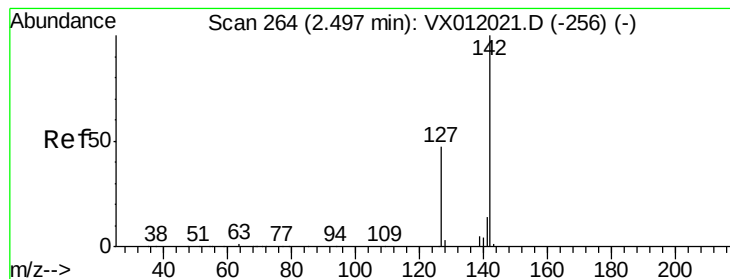
45 84.8 45.9 137.6



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#10

Methyl Iodide

Concen: 7.041 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012056.D

Acq: 04 Sep 2019 17:12

Instrument :

MSVOA_X

ClientSampleId :

T3-S-B4-(2.5)

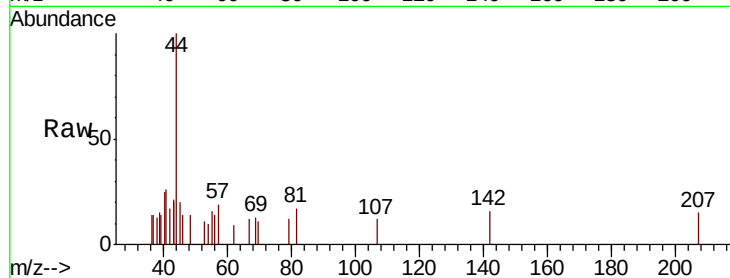
Tgt Ion: 142 Resp: 101

Ion Ratio Lower Upper

142 100

127 0.0 35.4 53.2#

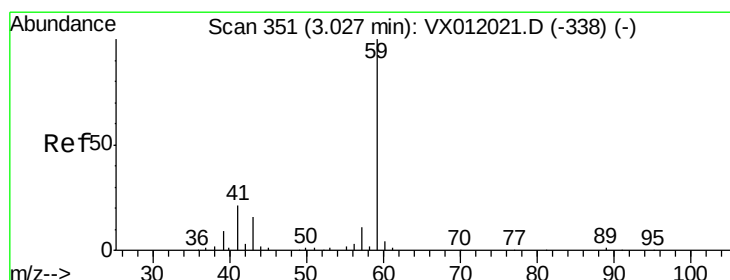
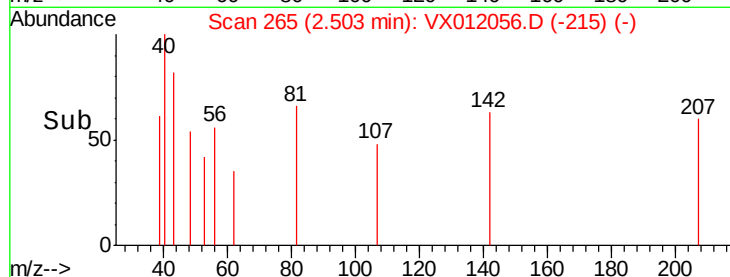
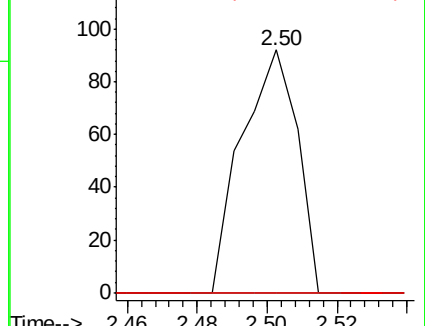
141 0.0 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 8.386 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.00 min

Lab File: VX012056.D

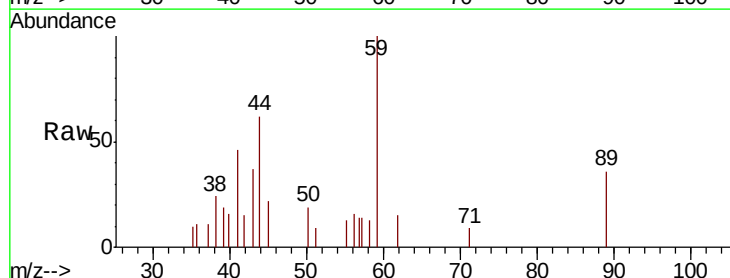
Acq: 04 Sep 2019 17:12

Tgt Ion: 59 Resp: 1775

Ion Ratio Lower Upper

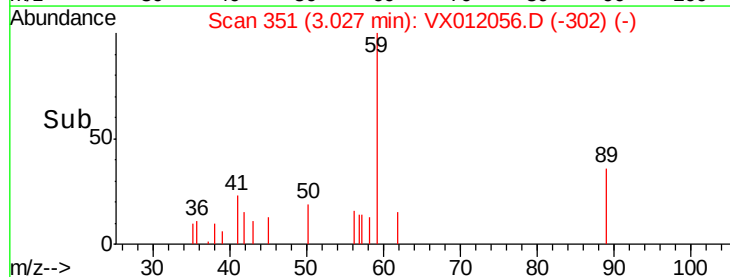
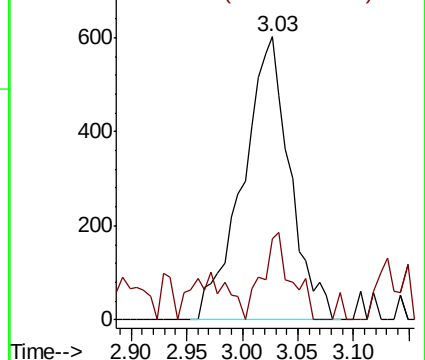
59 100

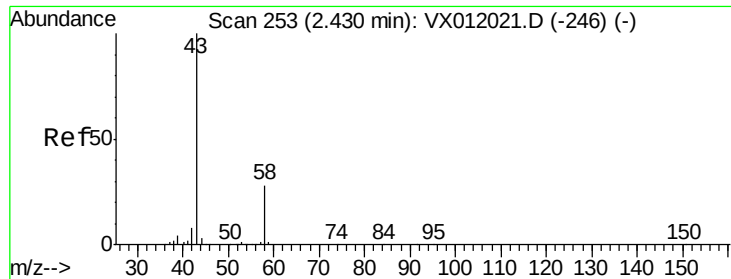
57 18.9 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 2.702 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX012056.D

Acq: 04 Sep 2019 17:12

Instrument :

MSVOA_X

ClientSampleId :

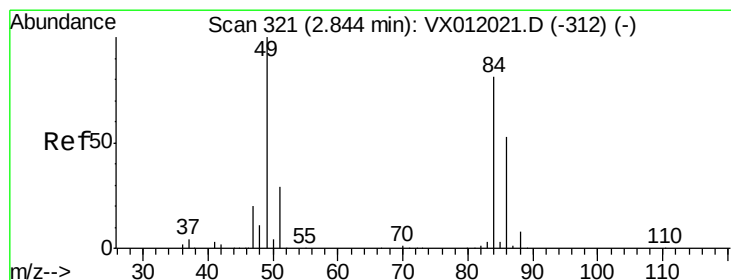
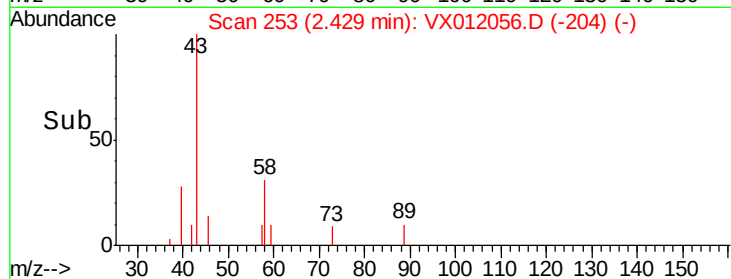
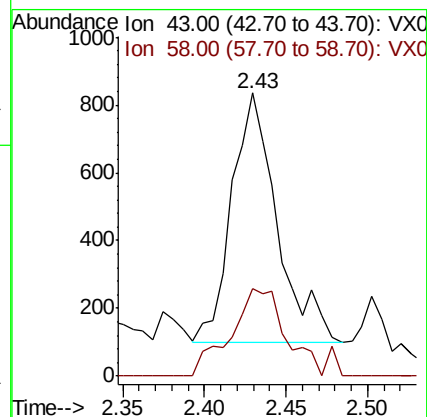
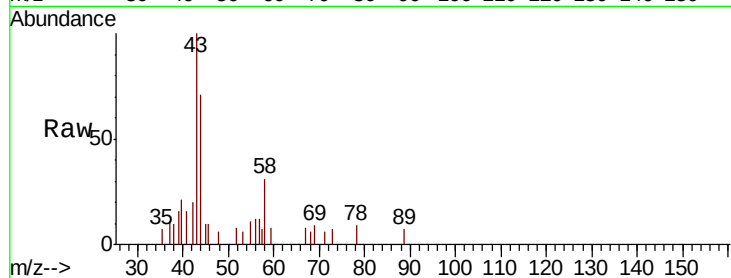
T3-S-B4-(2.5)

Tgt Ion: 43 Resp: 1423

Ion Ratio Lower Upper

43 100

58 35.0 22.8 34.2#



#20

Methylene Chloride

Concen: 4.897 ug/l

RT: 2.84 min Scan# 321

Delta R.T. -0.00 min

Lab File: VX012056.D

Acq: 04 Sep 2019 17:12

Tgt Ion: 84 Resp: 10358

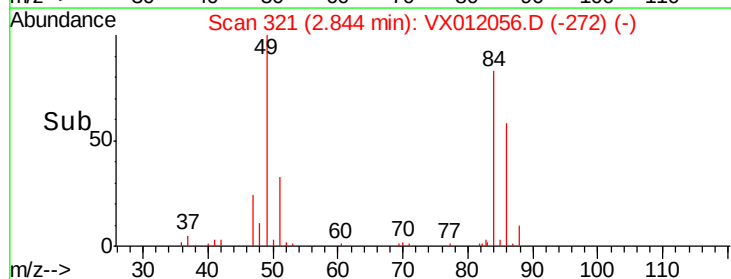
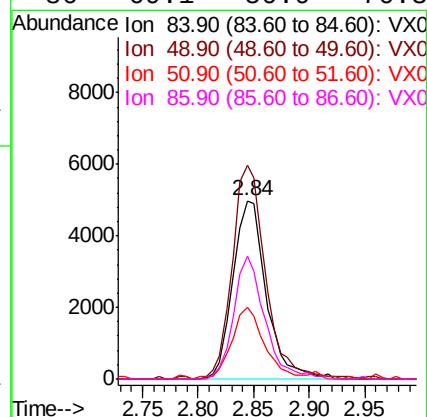
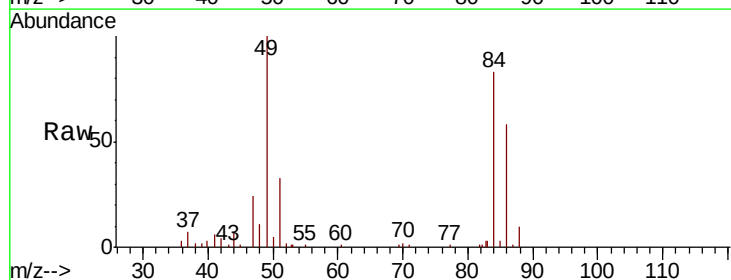
Ion Ratio Lower Upper

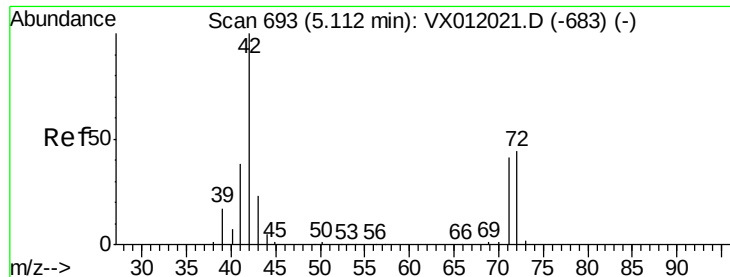
84 100

49 119.8 95.8 143.8

51 40.1 28.6 43.0

86 69.1 50.9 76.3

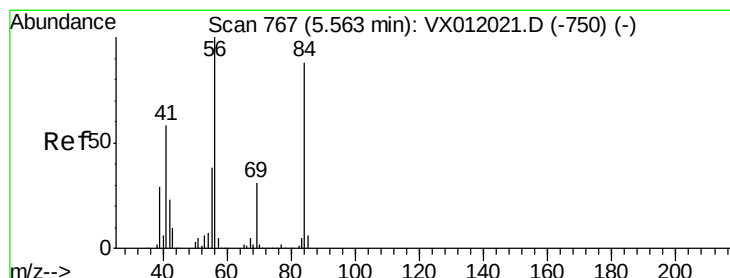
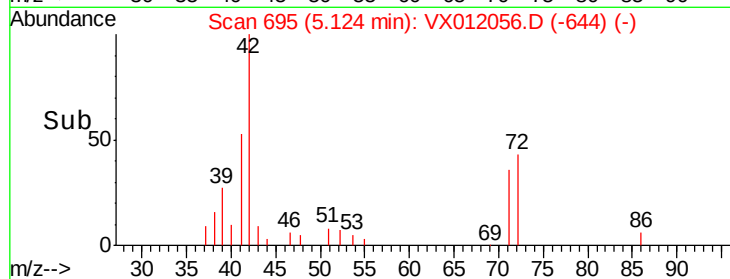
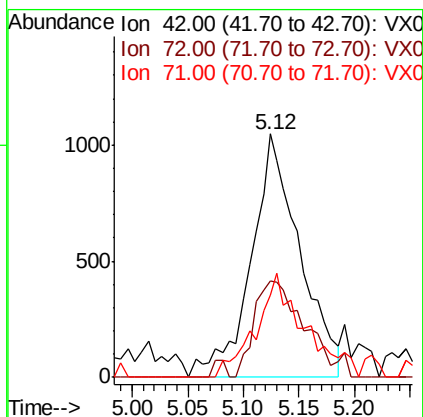
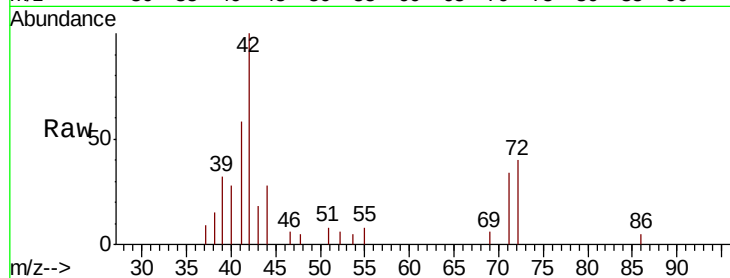




#29
Tetrahydrofuran
Concen: 7.922 ug/l
RT: 5.12 min Scan# 695
Delta R.T. 0.01 min
Lab File: VX012056.D
Acq: 04 Sep 2019 17:12

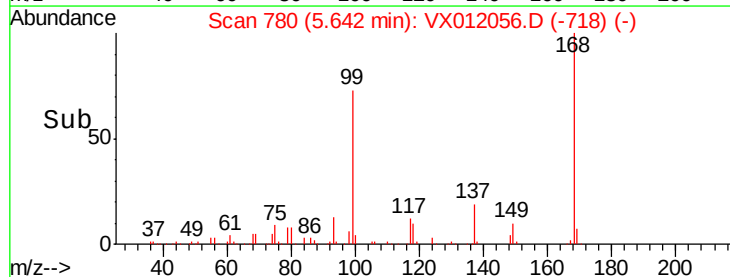
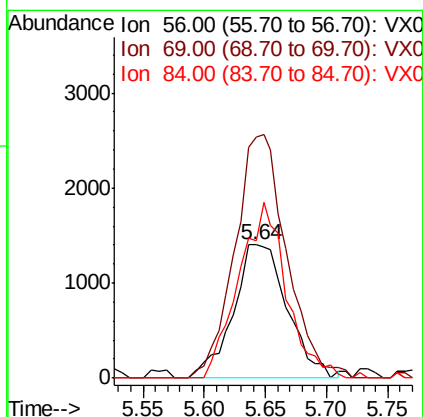
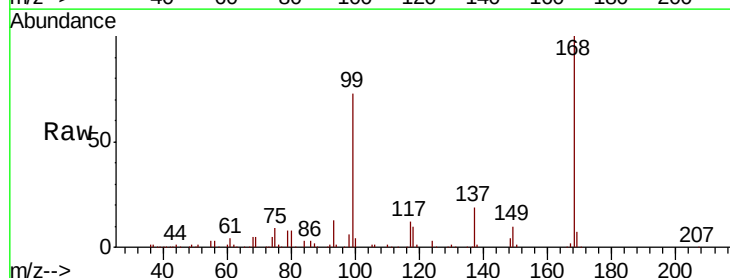
Instrument :
MSVOA_X
ClientSampled :
T3-S-B4-(2.5)

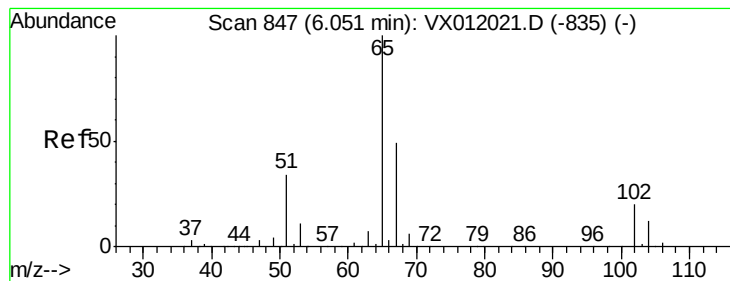
Tgt Ion: 42 Resp: 3200
Ion Ratio Lower Upper
42 100
72 41.9 37.0 55.4
71 42.8 33.8 50.8



#31
Cyclohexane
Concen: 1.599 ug/l
RT: 5.64 min Scan# 780
Delta R.T. 0.08 min
Lab File: VX012056.D
Acq: 04 Sep 2019 17:12

Tgt Ion: 56 Resp: 4319
Ion Ratio Lower Upper
56 100
69 180.7 25.7 38.5#
84 102.8 70.3 105.5





#33

1,2-Dichloroethane-d4

Concen: 49.066 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012056.D

Acq: 04 Sep 2019 17:12

Instrument :

MSVOA_X

ClientSampleId :

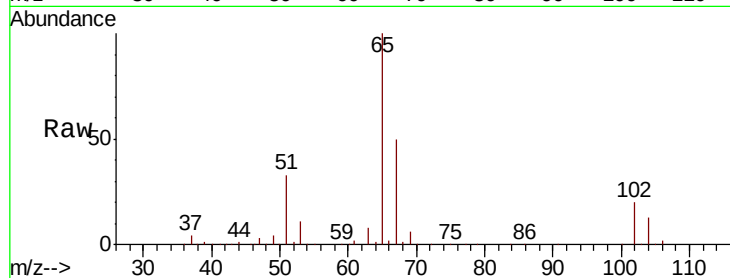
T3-S-B4-(2.5)

Tgt Ion: 65 Resp: 108123

Ion Ratio Lower Upper

65 100

67 50.6 0.0 102.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

40000

30000

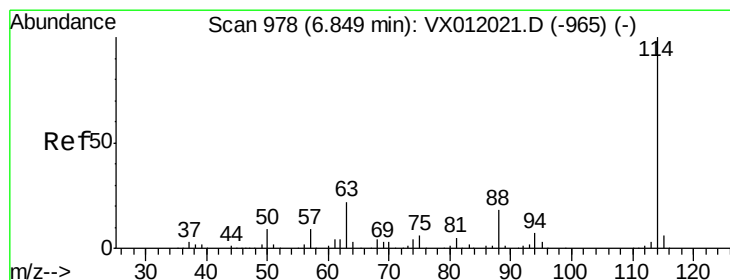
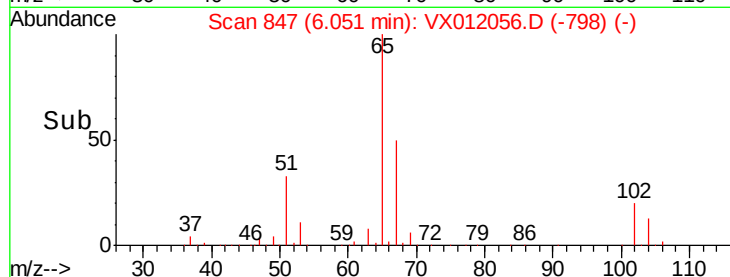
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX012056.D

Acq: 04 Sep 2019 17:12

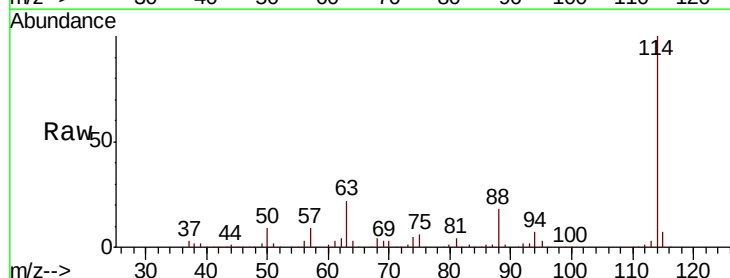
Tgt Ion: 114 Resp: 282124

Ion Ratio Lower Upper

114 100

63 22.1 0.0 37.4

88 17.6 0.0 29.6



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

6.85

150000

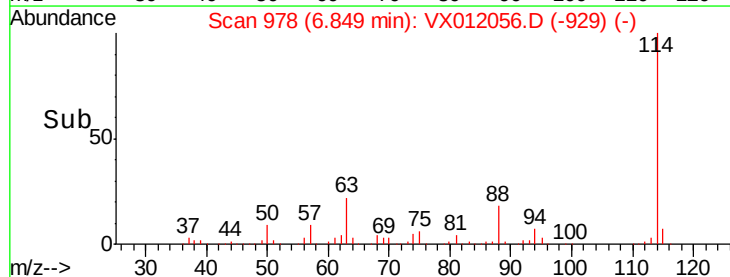
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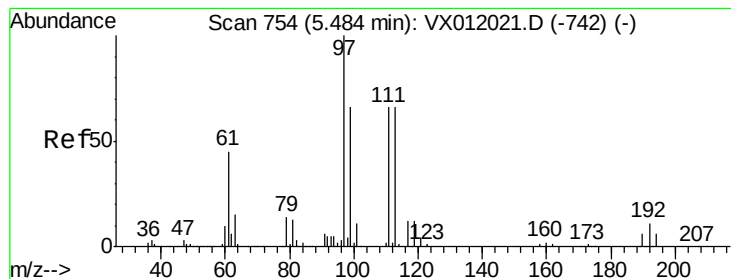
50000

0

Time-->

6.70 6.80 6.90 7.00 7.10





#35

Dibromofluoromethane

Concen: 48.596 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012056.D

Acq: 04 Sep 2019 17:12

Instrument :

MSVOA_X

ClientSampleId :

T3-S-B4-(2.5)

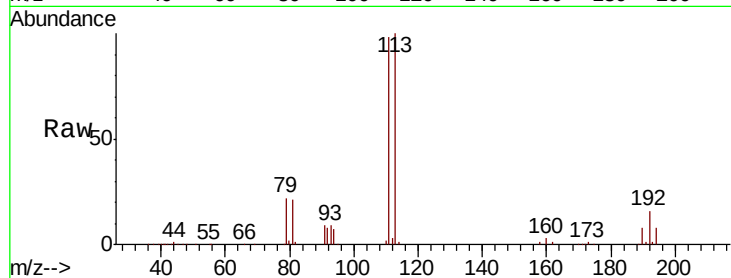
Tgt Ion:113 Resp: 84313

Ion Ratio Lower Upper

113 100

111 100.9 81.7 122.5

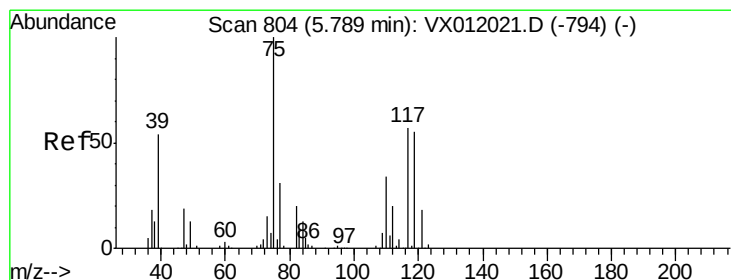
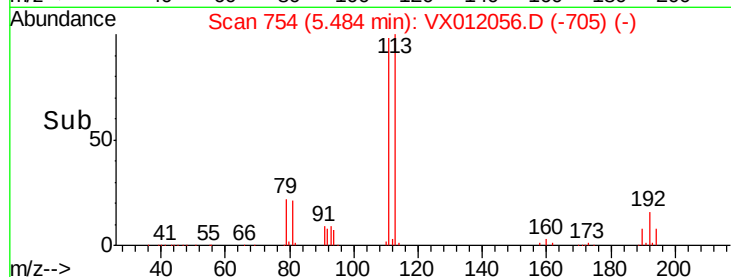
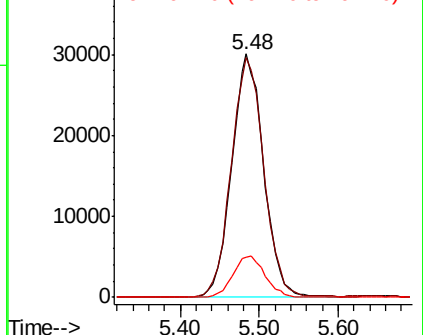
192 17.1 22.5 33.7#



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: 6.028 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012056.D

Acq: 04 Sep 2019 17:12

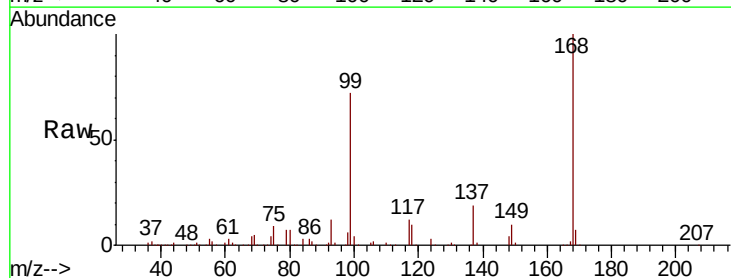
Tgt Ion: 75 Resp: 14979

Ion Ratio Lower Upper

75 100

110 9.7 19.5 58.5#

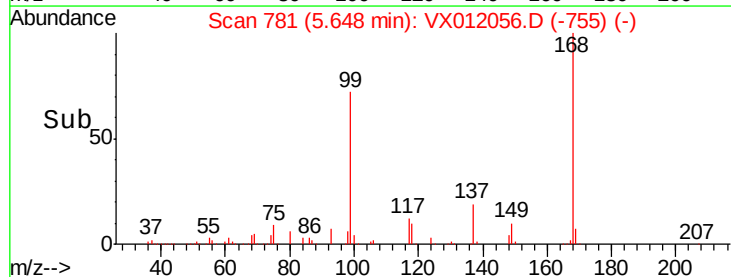
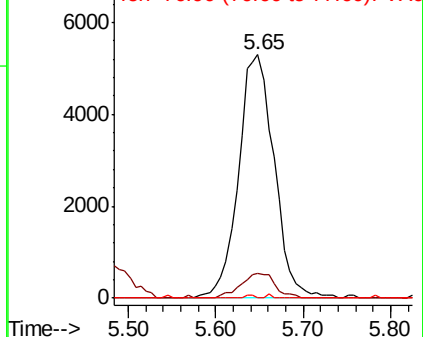
77 0.2 24.6 37.0#

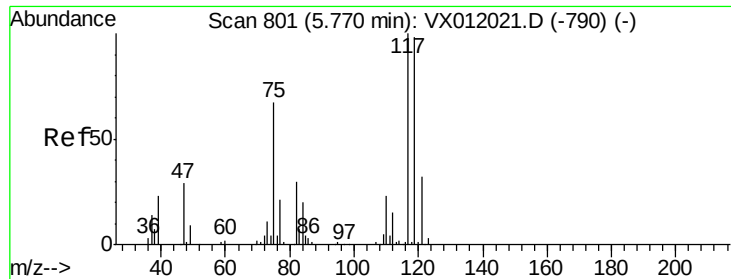


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

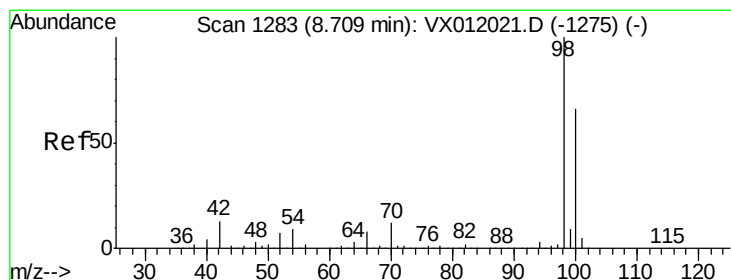
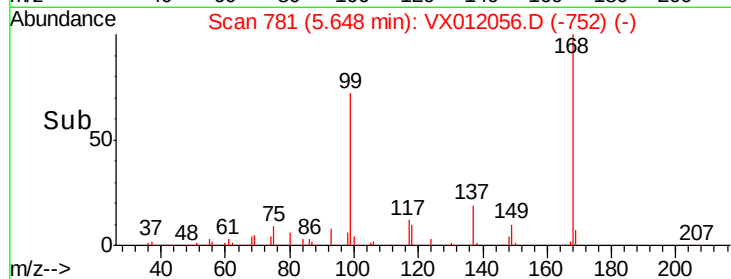
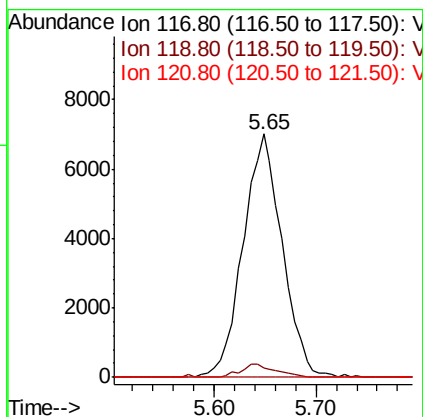
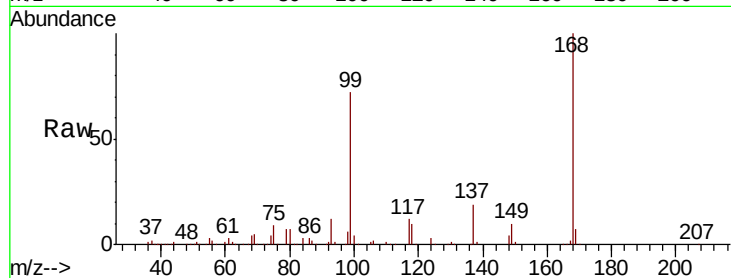




#38
Carbon Tetrachloride
Concen: 7.128 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.12 min
Lab File: VX012056.D
Acq: 04 Sep 2019 17:12

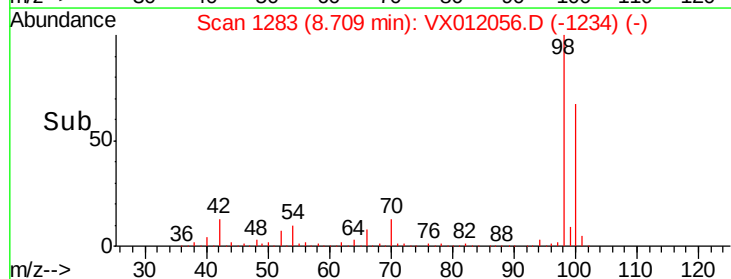
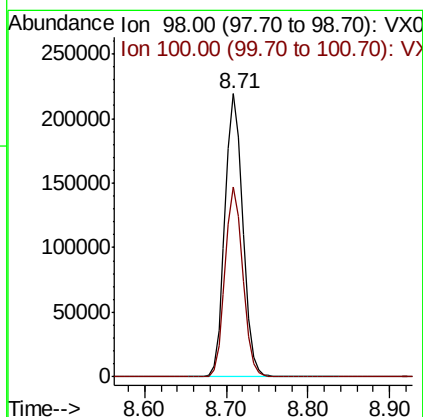
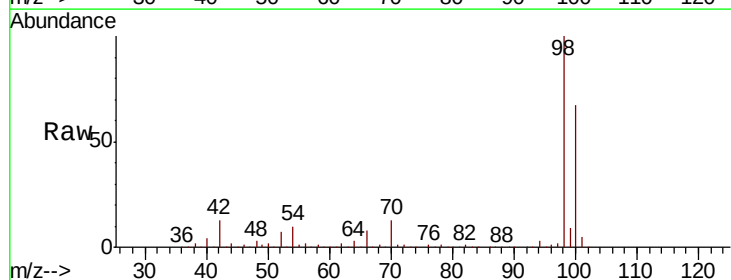
Instrument :
MSVOA_X
ClientSampleId :
T3-S-B4-(2.5)

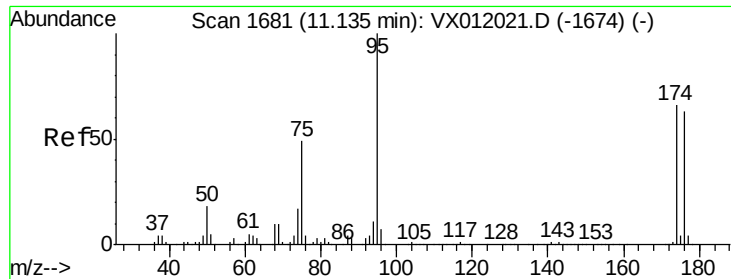
Tgt Ion:117 Resp: 18663
Ion Ratio Lower Upper
117 100
119 3.7 78.3 117.5#
121 0.0 24.2 36.2#



#50
Toluene-d8
Concen: 52.277 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX012056.D
Acq: 04 Sep 2019 17:12

Tgt Ion: 98 Resp: 332826
Ion Ratio Lower Upper
98 100
100 66.6 53.3 79.9

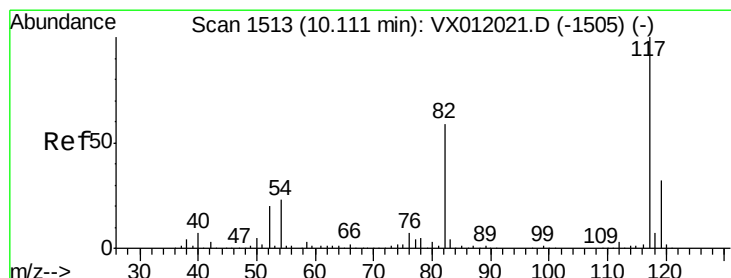
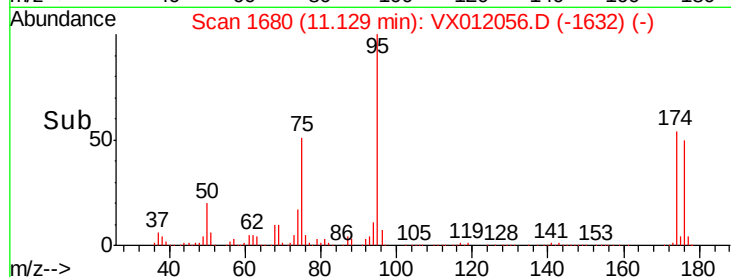
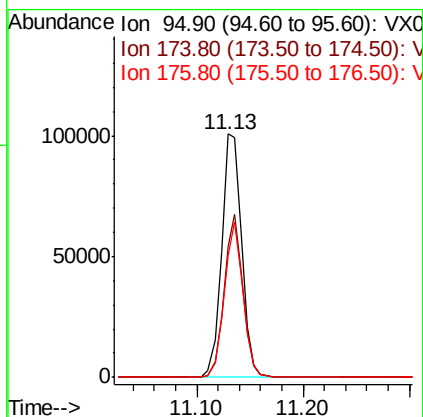
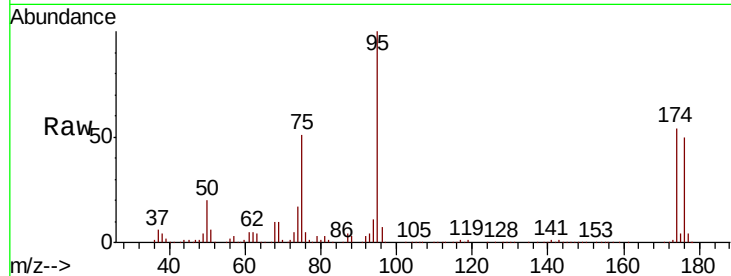




#62
4-Bromofluorobenzene
Concen: 44.745 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX012056.D
Acq: 04 Sep 2019 17:12

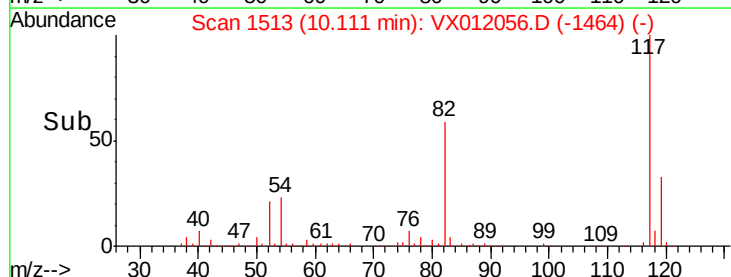
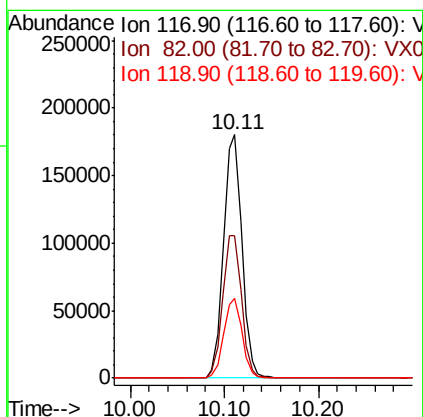
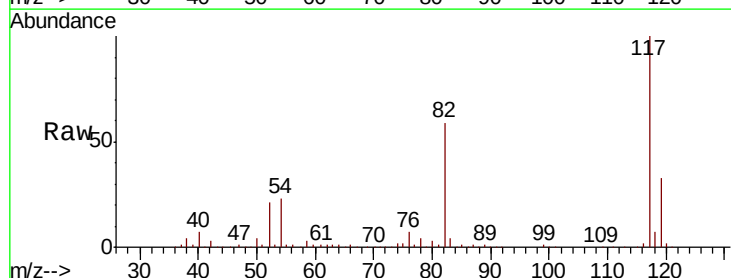
Instrument :
MSVOA_X
ClientSampled :
T3-S-B4-(2.5)

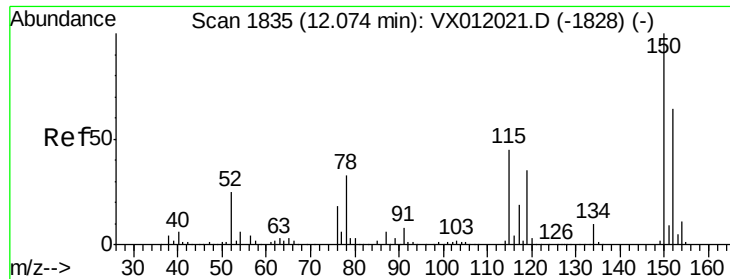
Tgt Ion: 95 Resp: 132484
Ion Ratio Lower Upper
95 100
174 62.1 0.0 205.4
176 59.3 0.0 201.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX012056.D
Acq: 04 Sep 2019 17:12

Tgt Ion: 117 Resp: 244583
Ion Ratio Lower Upper
117 100
82 58.7 39.4 59.0
119 32.8 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX012056.D

Acq: 04 Sep 2019 17:12

Instrument :

MSVOA_X

ClientSampleId :

T3-S-B4-(2.5)

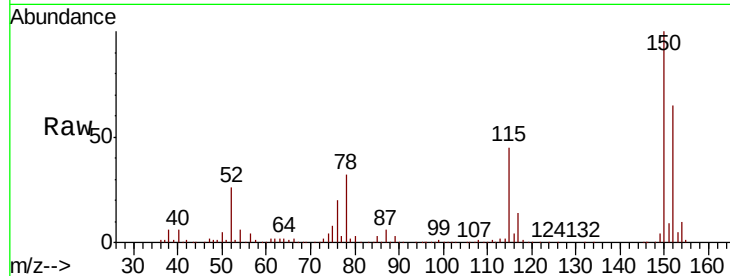
Tgt Ion:152 Resp: 104818

Ion Ratio Lower Upper

152 100

115 67.4 36.4 109.3

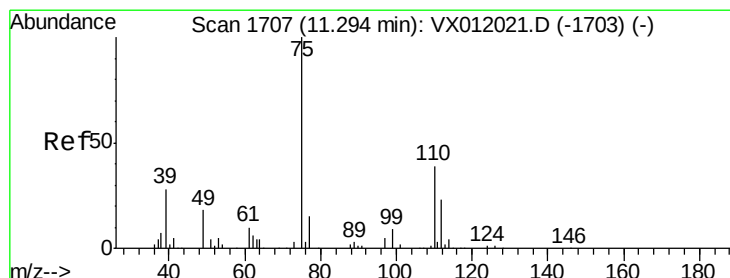
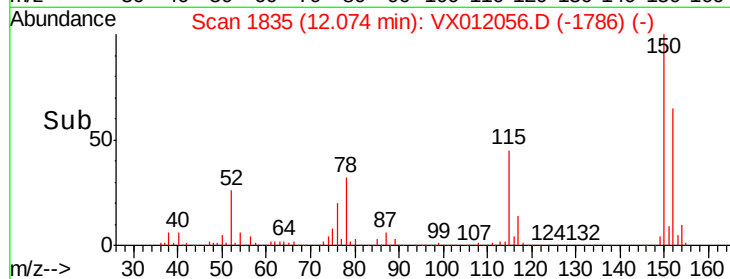
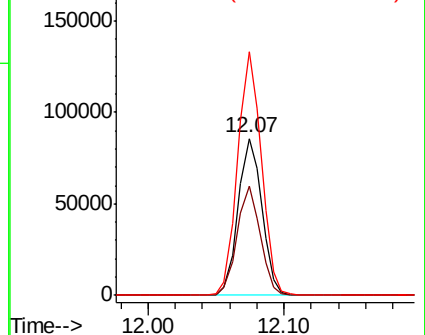
150 154.1 0.0 341.2



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: 53.220 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012056.D

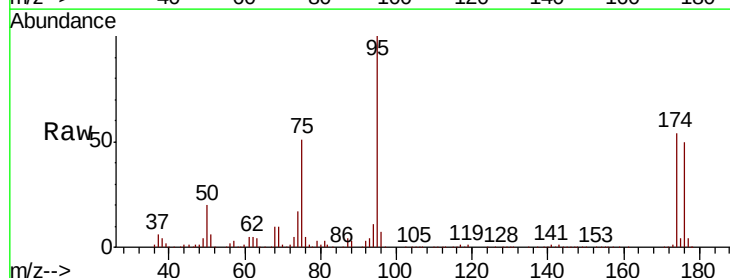
Acq: 04 Sep 2019 17:12

Tgt Ion: 75 Resp: 68160

Ion Ratio Lower Upper

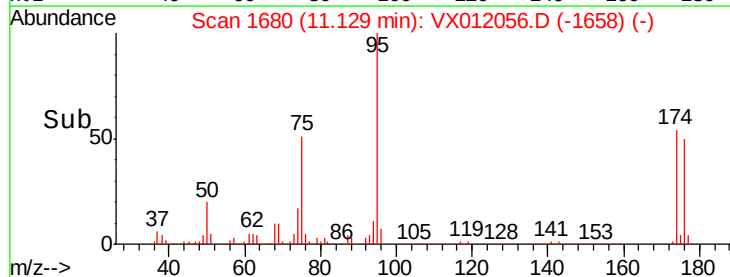
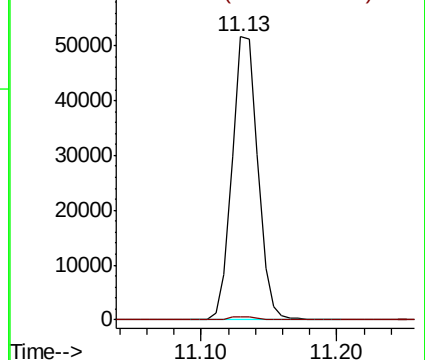
75 100

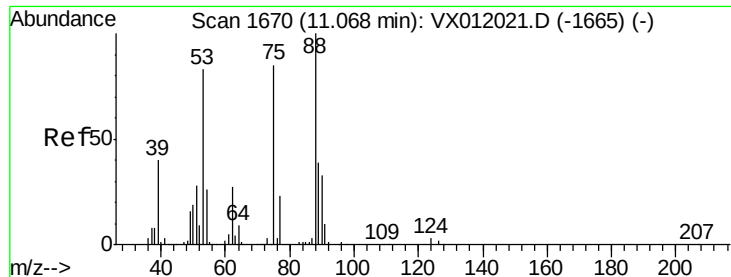
77 1.2 23.5 70.5#



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: 125.821 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012056.D

Acq: 04 Sep 2019 17:12

Instrument :

MSVOA_X

ClientSampleId :

T3-S-B4-(2.5)

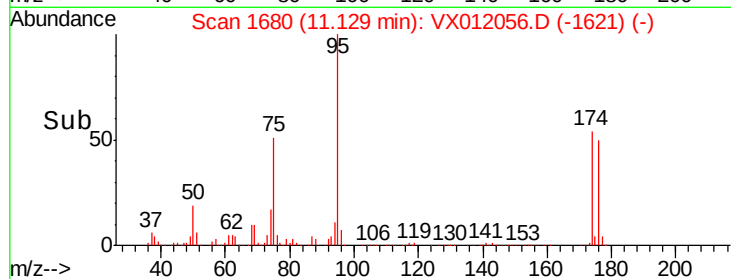
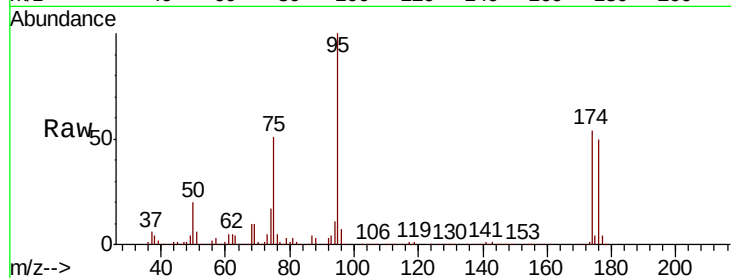
Tgt Ion: 75 Resp: 68160

Ion Ratio Lower Upper

75 100

53 0.0 78.6 117.8#

89 0.0 38.8 58.2#



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

