

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX083019\
 Data File : VX011912.D
 Acq On : 30 Aug 2019 16:54
 Operator : SY/SP
 Sample : K4475-09
 Misc : 5.86g/5.0mL/MSVOA_X/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T1-2-C-(2.5)

Quant Time: Aug 31 02:03:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082919S.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 30 01:59:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	451171	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	603235	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	546256	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	286793	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	198321	45.88	ug/l	0.00
Spiked Amount			Recovery	=	91.76%	
35) Dibromofluoromethane	5.48	113	182867	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	
50) Toluene-d8	8.71	98	696313	50.36	ug/l	0.00
Spiked Amount			Recovery	=	100.72%	
62) 4-Bromofluorobenzene	11.14	95	261762	43.15	ug/l	0.00
Spiked Amount			Recovery	=	86.30%	

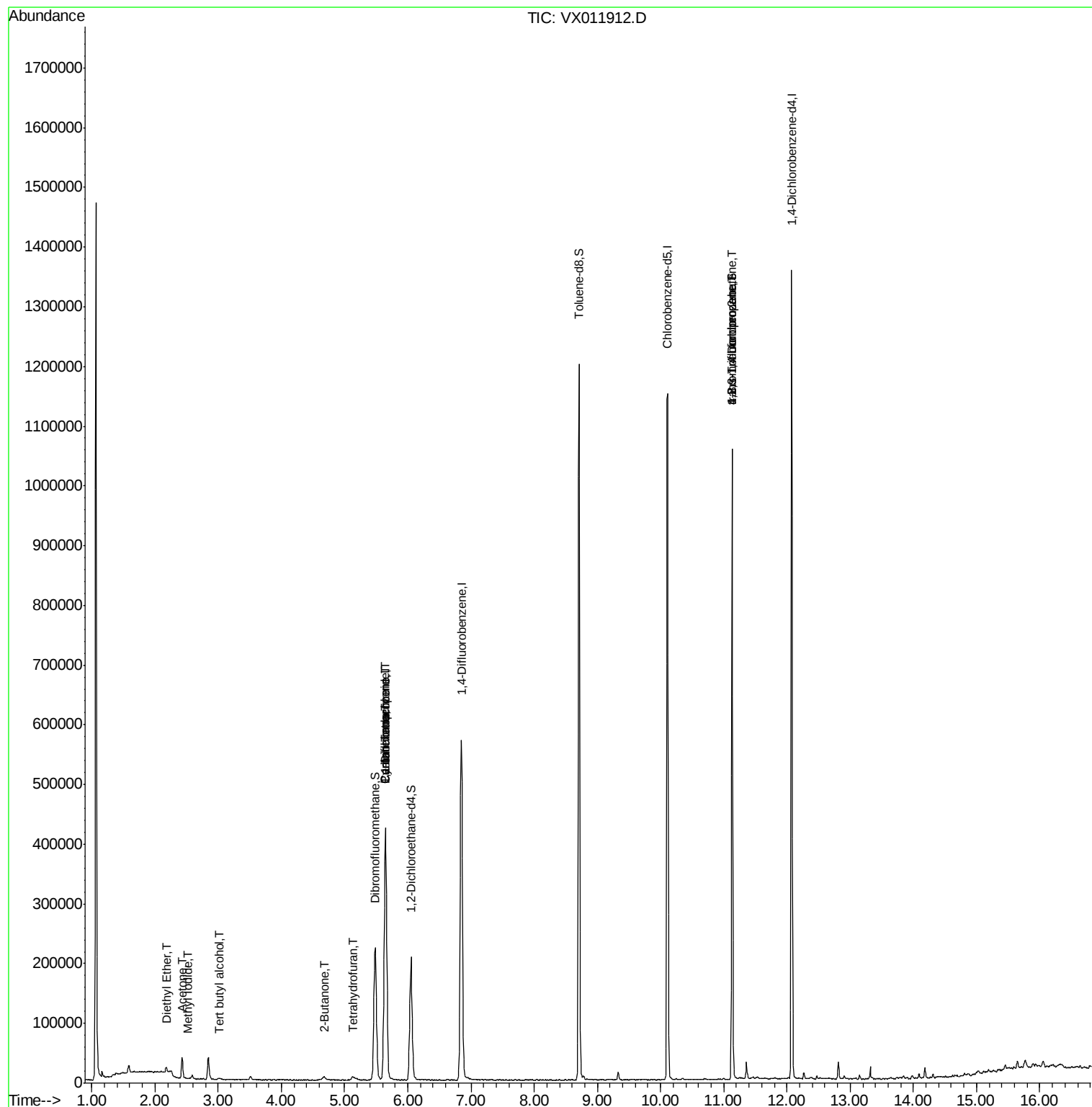
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	2706	1.504	ug/l	91
10) Methyl Iodide	2.52	142	490	3.798	ug/l #	97
11) Tert butyl alcohol	3.03	59	2356	5.665	ug/l	95
16) Acetone	2.43	43	38640	41.546	ug/l	99
20) Methylene Chloride	2.84	84	17506	Below Cal		94
25) 2-Butanone	4.68	43	1635	1.207	ug/l	97
29) Tetrahydrofuran	5.12	42	5723	6.769	ug/l	93
31) Cyclohexane	5.64	56	7572	1.403	ug/l #	1
36) 1,1-Dichloropropene	5.64	75	26804	5.609	ug/l #	50
38) Carbon Tetrachloride	5.64	117	37761	6.813	ug/l #	16
76) 1,2,3-Trichloropropane	11.13	75	128681	45.612	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	128681	114.586	ug/l #	11

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

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Quant Title : SW846 8260
QLast Update : Fri Aug 30 01:59:05 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX011912.D

Acq: 30 Aug 2019 16:54

Instrument :

MSVOA_X

ClientSampled :

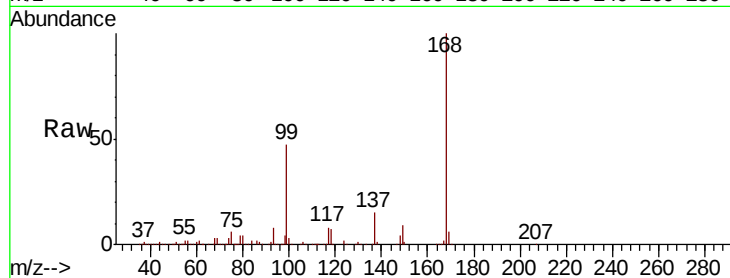
T1-2-C-(2.5)

Tgt Ion:168 Resp: 451171

Ion Ratio Lower Upper

168 100

99 47.2 38.4 57.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

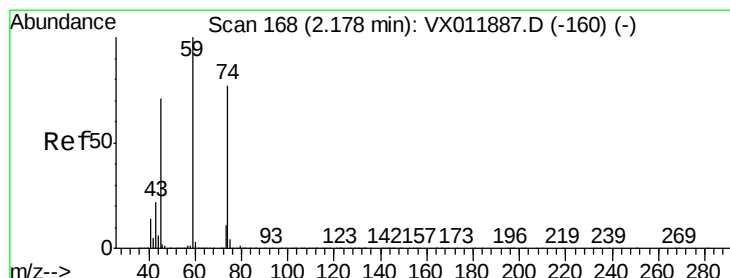
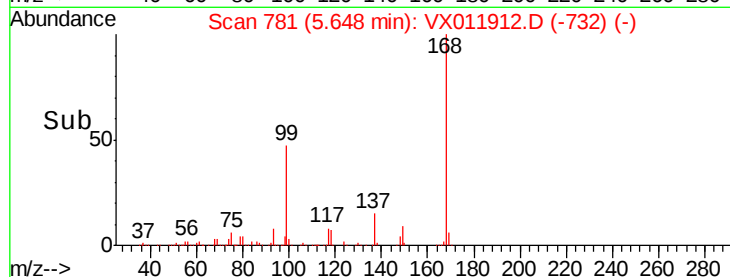
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.504 ug/l

RT: 2.17 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX011912.D

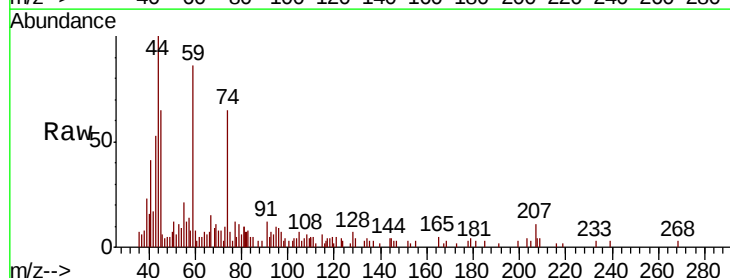
Acq: 30 Aug 2019 16:54

Tgt Ion: 74 Resp: 2706

Ion Ratio Lower Upper

74 100

45 84.5 46.7 140.1



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2.17

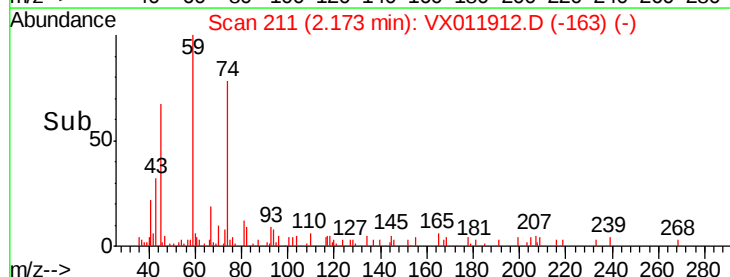
1500

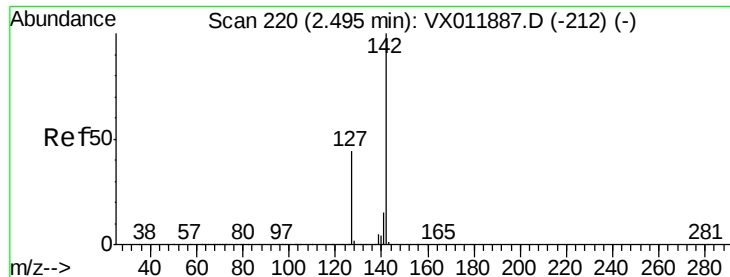
1000

500

0

Time-->





#10

Methyl Iodide

Concen: 3.798 ug/l

RT: 2.52 min Scan# 268

Delta R.T. 0.03 min

Lab File: VX011912.D

Acq: 30 Aug 2019 16:54

Instrument :

MSVOA_X

ClientSampled :

T1-2-C-(2.5)

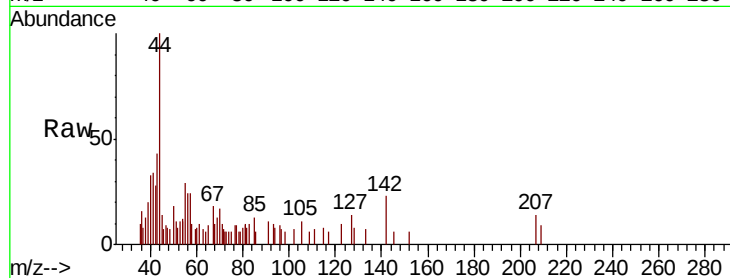
Tgt Ion:142 Resp: 490

Ion Ratio Lower Upper

142 100

127 44.1 35.7 53.5

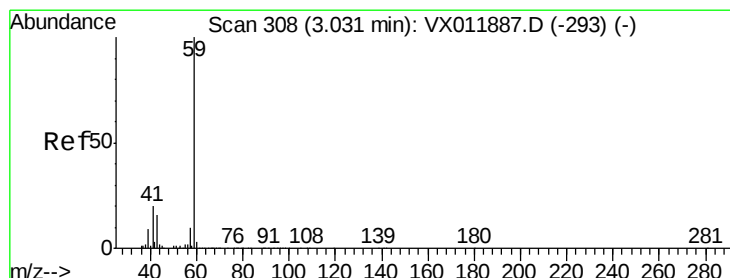
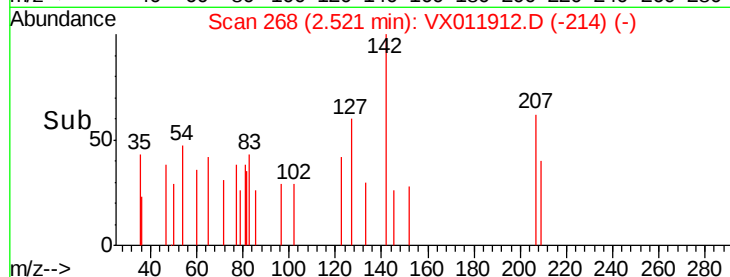
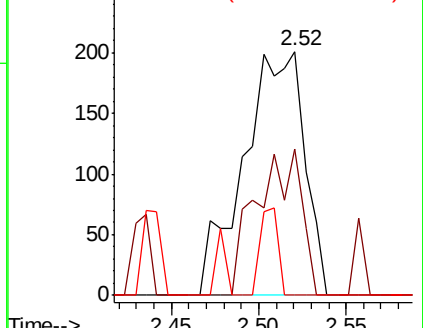
141 10.6 11.8 17.6#



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: 5.665 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.00 min

Lab File: VX011912.D

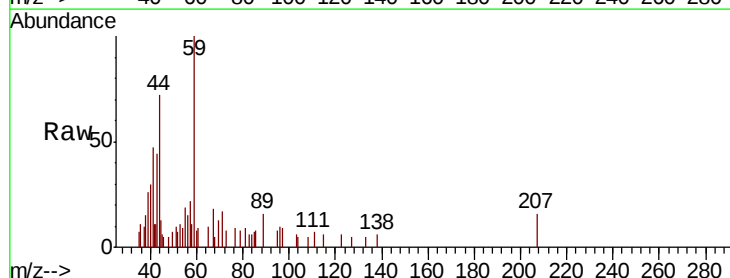
Acq: 30 Aug 2019 16:54

Tgt Ion: 59 Resp: 2356

Ion Ratio Lower Upper

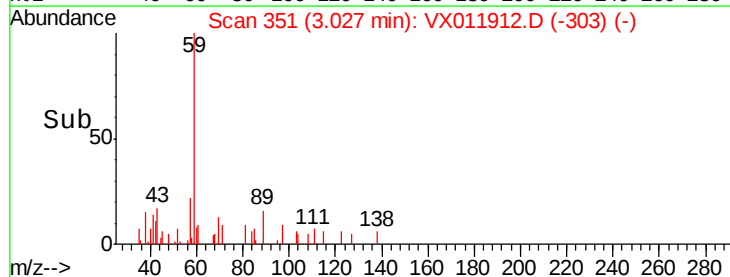
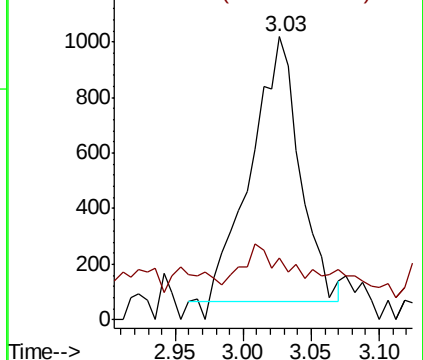
59 100

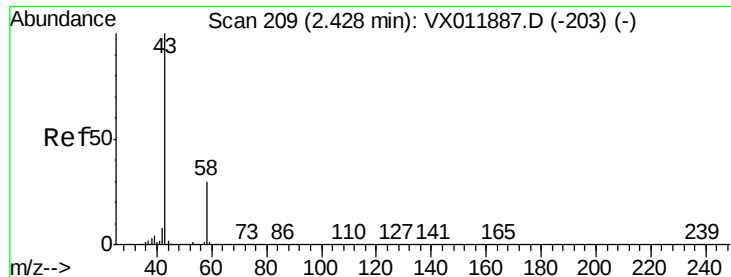
57 12.7 8.6 12.8



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 41.546 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX011912.D

Acq: 30 Aug 2019 16:54

Instrument :

MSVOA_X

ClientSampled :

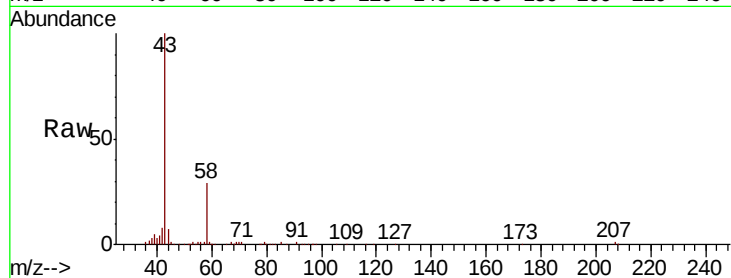
T1-2-C-(2.5)

Tgt Ion: 43 Resp: 38640

Ion Ratio Lower Upper

43 100

58 29.3 23.8 35.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

25000

20000

15000

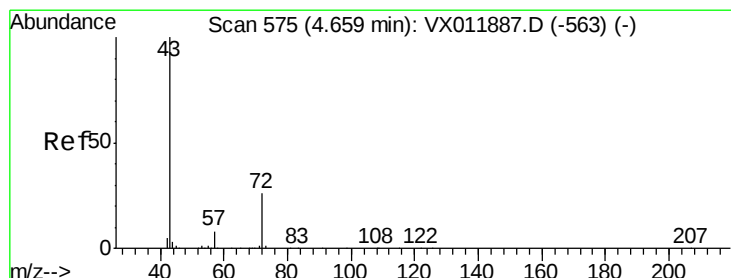
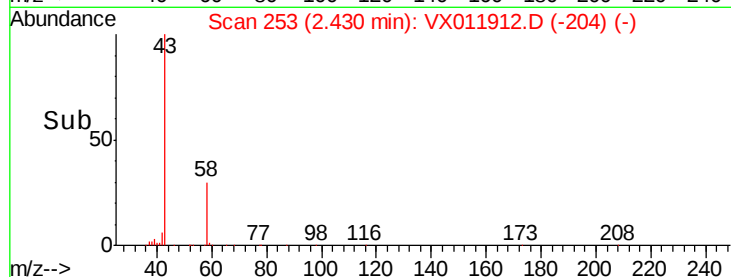
10000

5000

0

Time--> 2.30 2.35 2.40 2.45 2.50

2.43



#25

2-Butanone

Concen: 1.207 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX011912.D

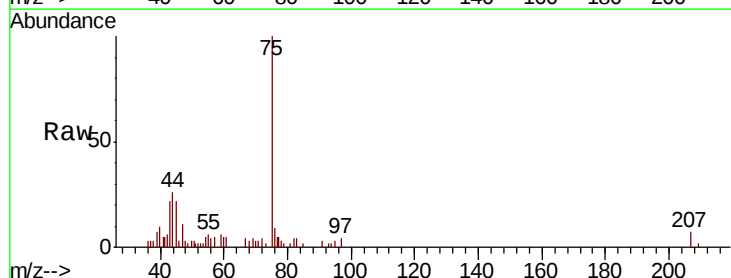
Acq: 30 Aug 2019 16:54

Tgt Ion: 43 Resp: 1635

Ion Ratio Lower Upper

43 100

72 27.7 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

600

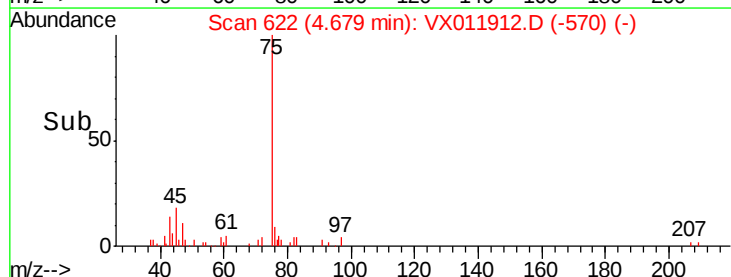
400

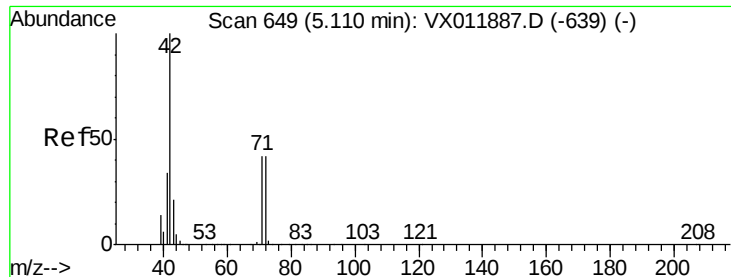
200

0

Time--> 4.60 4.65 4.70 4.75 4.80

4.68





#29

Tetrahydrofuran

Concen: 6.769 ug/l

RT: 5.12 min Scan# 695

Delta R.T. 0.01 min

Lab File: VX011912.D

Acq: 30 Aug 2019 16:54

Instrument :

MSVOA_X

ClientSampleId :

T1-2-C-(2.5)

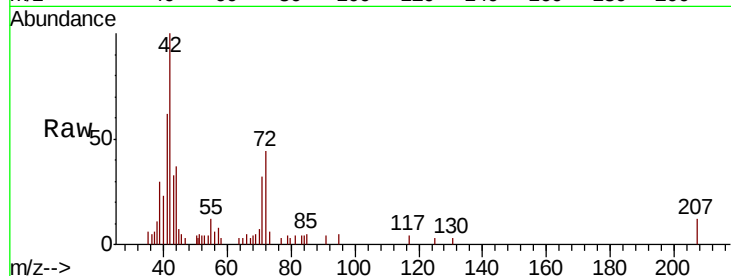
Tgt Ion: 42 Resp: 5723

Ion Ratio Lower Upper

42 100

72 51.2 36.2 54.4

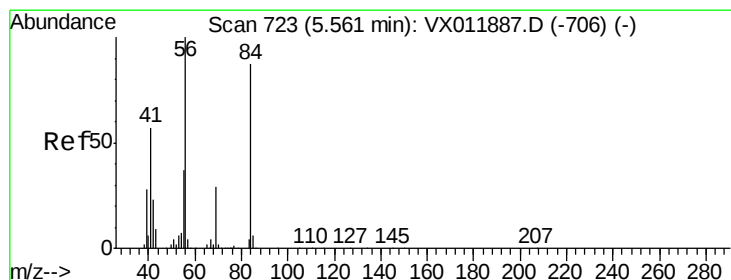
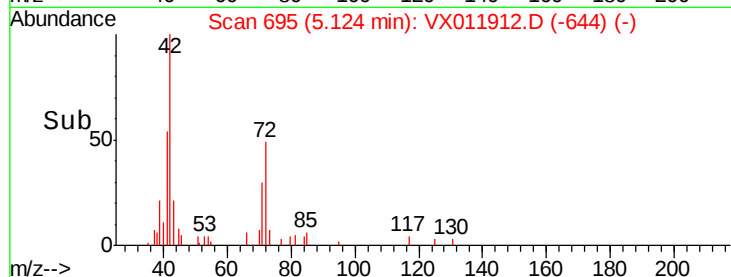
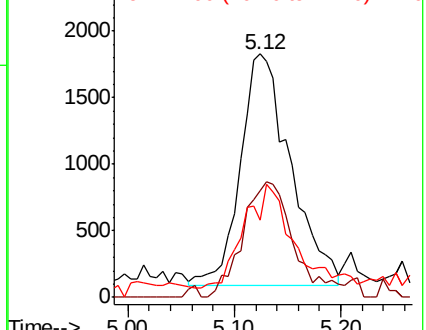
71 44.5 33.1 49.7



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: 1.403 ug/l

RT: 5.64 min Scan# 780

Delta R.T. 0.08 min

Lab File: VX011912.D

Acq: 30 Aug 2019 16:54

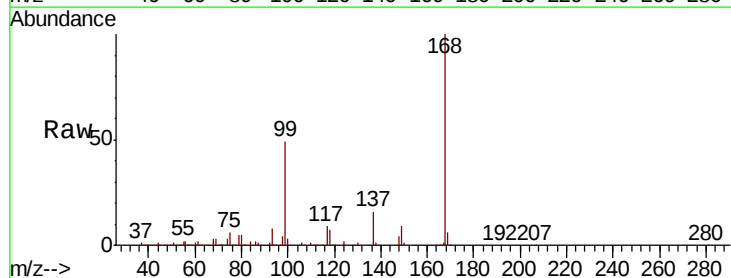
Tgt Ion: 56 Resp: 7572

Ion Ratio Lower Upper

56 100

69 188.8 23.1 34.7#

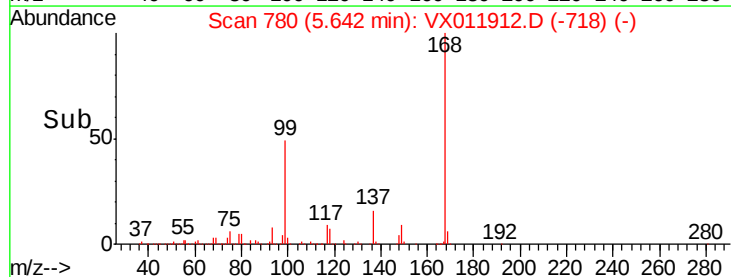
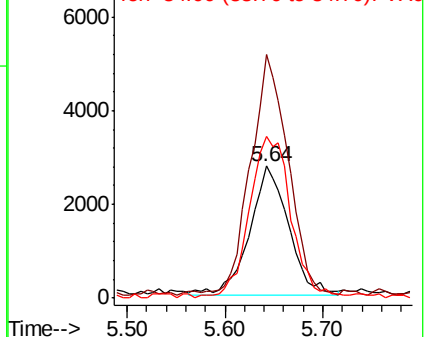
84 123.8 69.6 104.4#

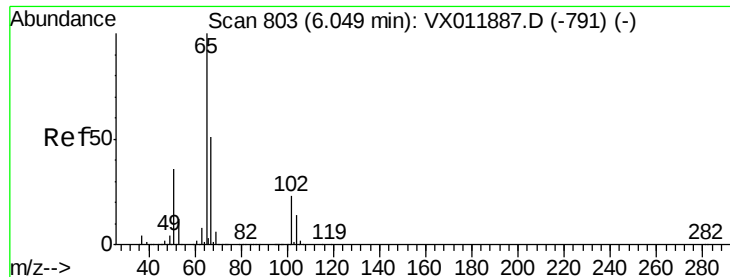


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

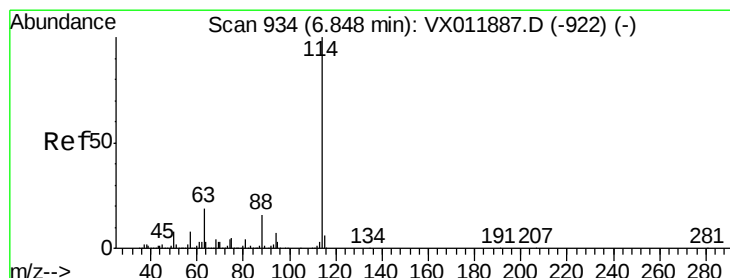
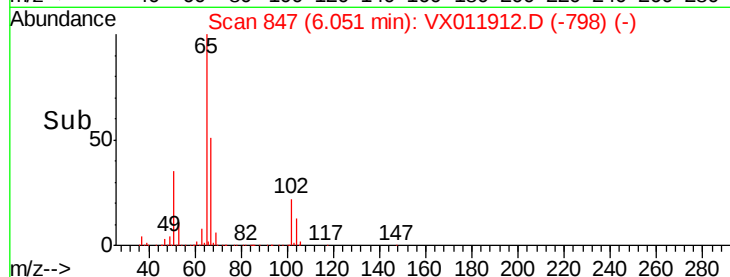
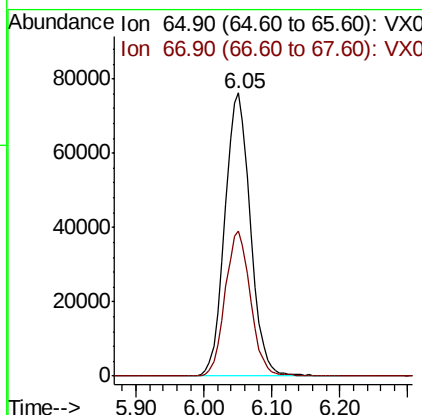
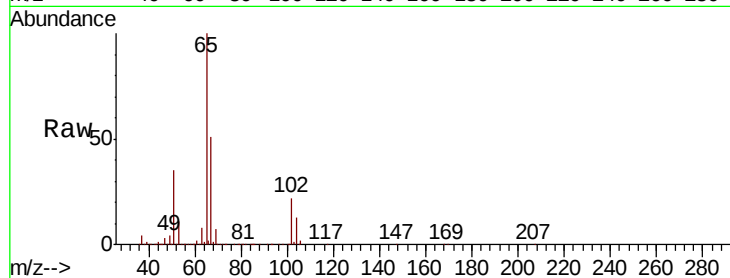




#33
 1,2-Dichloroethane-d4
 Concen: 45.879 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX011912.D
 Acq: 30 Aug 2019 16:54

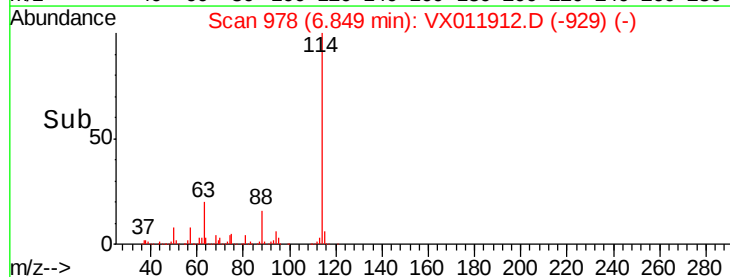
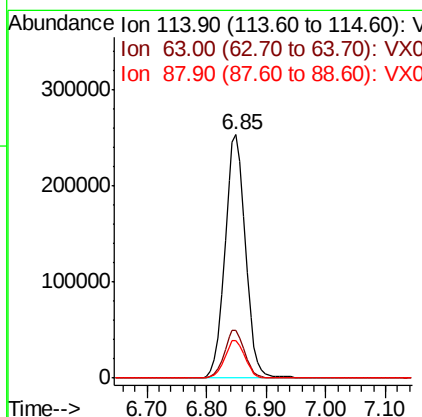
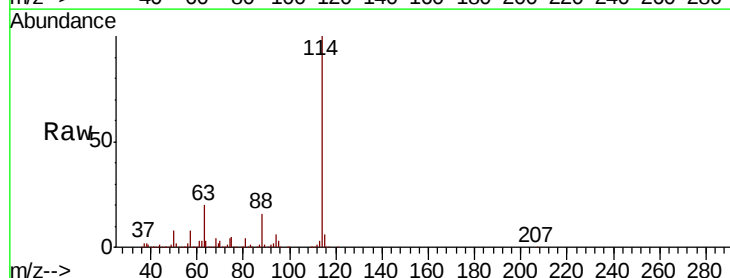
Instrument :
 MSVOA_X
 ClientSampleId :
 T1-2-C-(2.5)

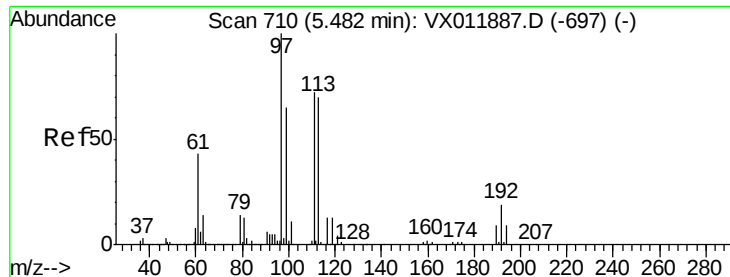
Tgt Ion: 65 Resp: 198321
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 102.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX011912.D
 Acq: 30 Aug 2019 16:54

Tgt Ion: 114 Resp: 603235
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 38.8
 88 15.6 0.0 31.2

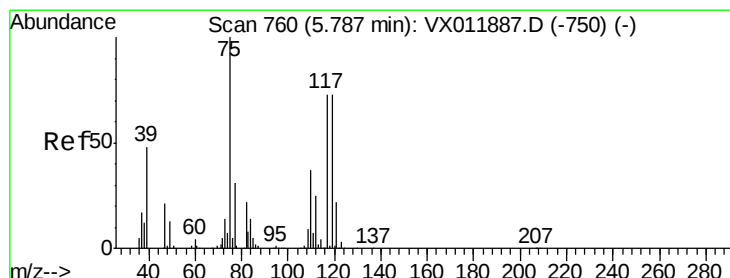
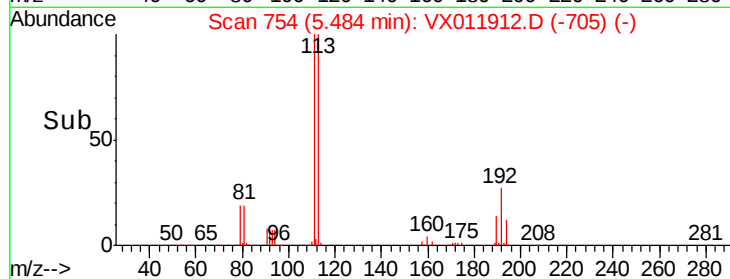
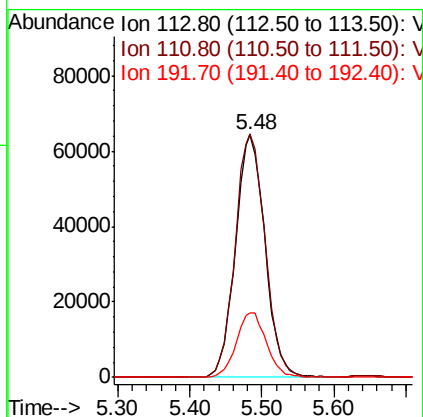
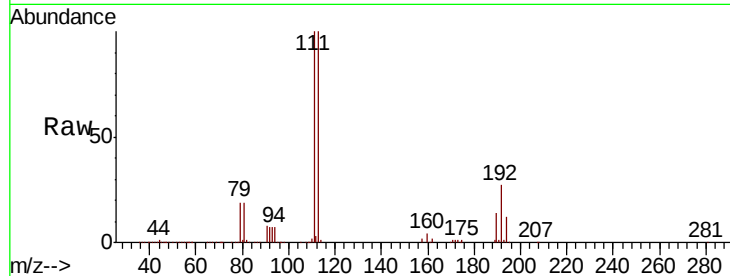




#35
 Dibromofluoromethane
 Concen: 47.275 ug/l
 RT: 5.48 min Scan# 754
 Delta R.T. 0.00 min
 Lab File: VX011912.D
 Acq: 30 Aug 2019 16:54

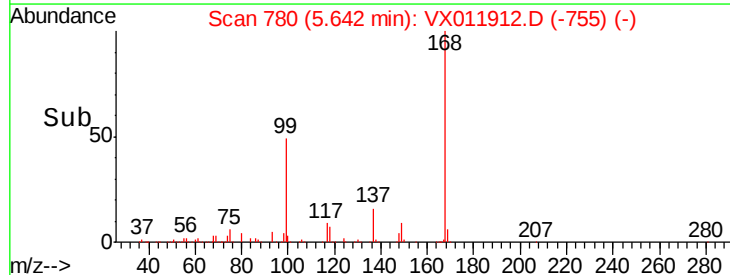
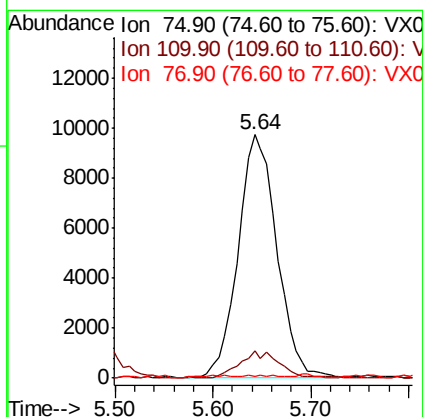
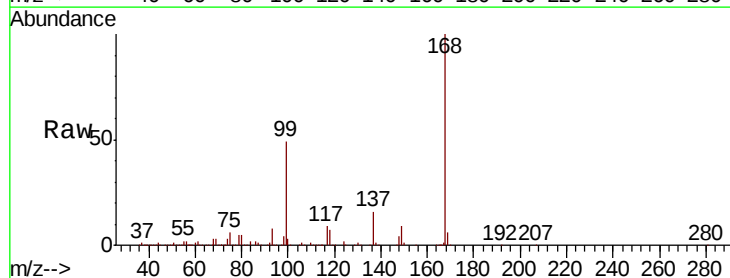
Instrument :
 MSVOA_X
 ClientSampleId :
 T1-2-C-(2.5)

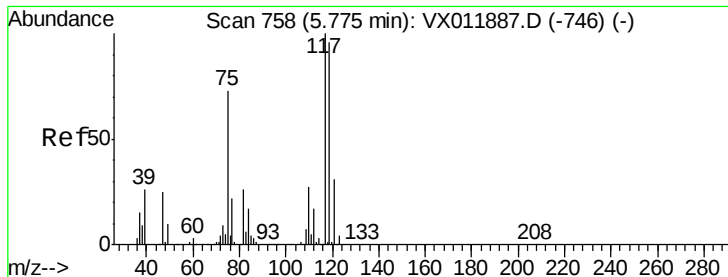
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	82.1	123.1
192	27.1	21.5	32.3



#36
 1,1-Dichloropropene
 Concen: 5.609 ug/l
 RT: 5.64 min Scan# 780
 Delta R.T. -0.14 min
 Lab File: VX011912.D
 Acq: 30 Aug 2019 16:54

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.9	19.1	57.3#
77	0.5	24.4	36.6#





#38

Carbon Tetrachloride

Concen: 6.813 ug/l

RT: 5.64 min Scan# 780

Delta R.T. -0.13 min

Lab File: VX011912.D

Acq: 30 Aug 2019 16:54

Instrument :

MSVOA_X

ClientSampled :

T1-2-C-(2.5)

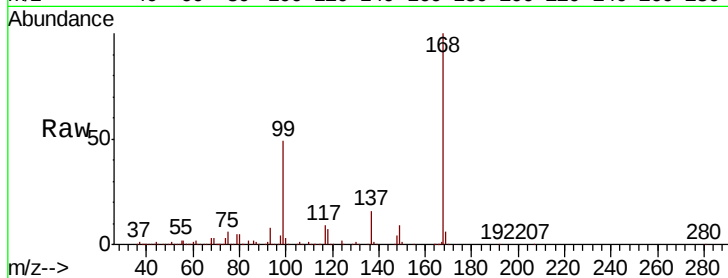
Tgt Ion:117 Resp: 37761

Ion Ratio Lower Upper

117 100

119 4.8 76.6 114.8#

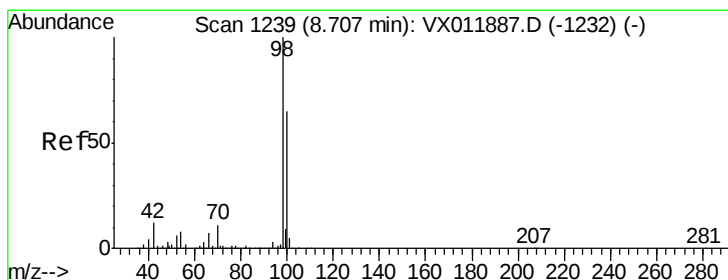
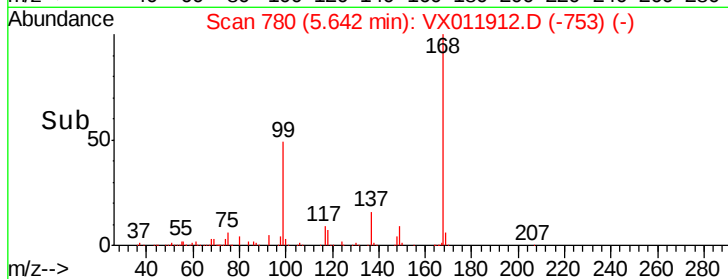
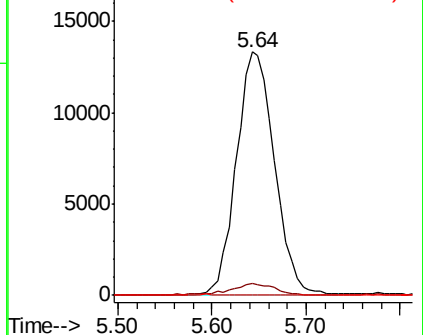
121 0.0 24.7 37.1#



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



#50

Toluene-d8

Concen: 50.357 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX011912.D

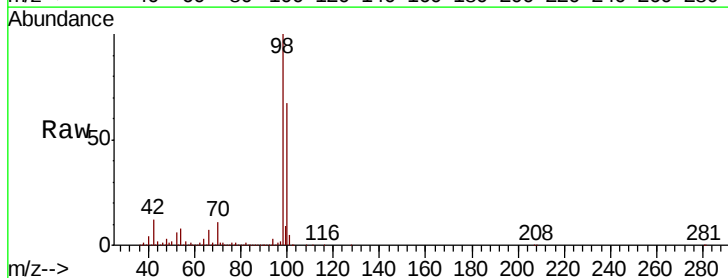
Acq: 30 Aug 2019 16:54

Tgt Ion: 98 Resp: 696313

Ion Ratio Lower Upper

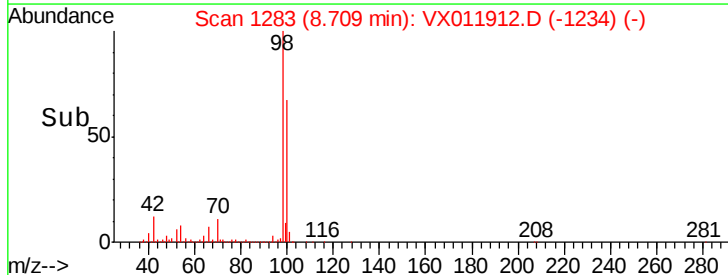
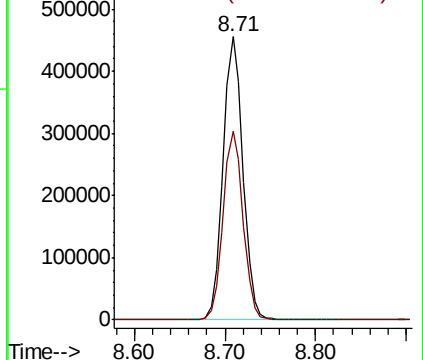
98 100

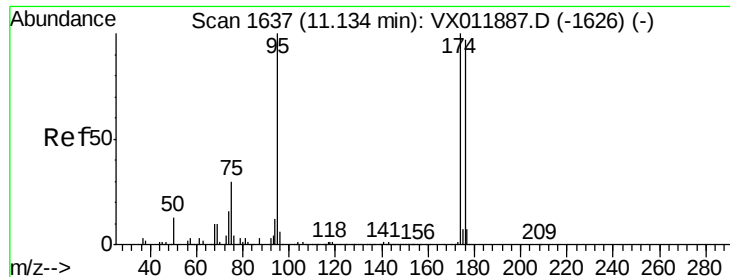
100 67.0 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 43.155 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX011912.D

Acq: 30 Aug 2019 16:54

Instrument :

MSVOA_X

ClientSampled :

T1-2-C-(2.5)

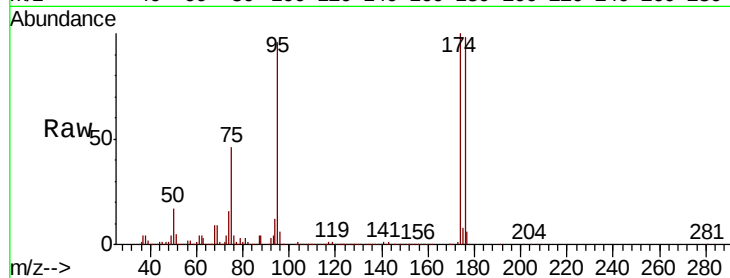
Tgt Ion: 95 Resp: 261762

Ion Ratio Lower Upper

95 100

174 97.3 0.0 196.0

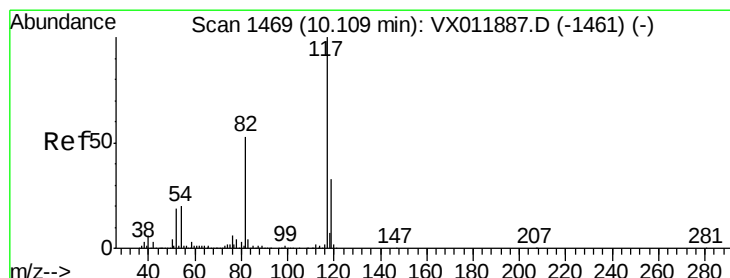
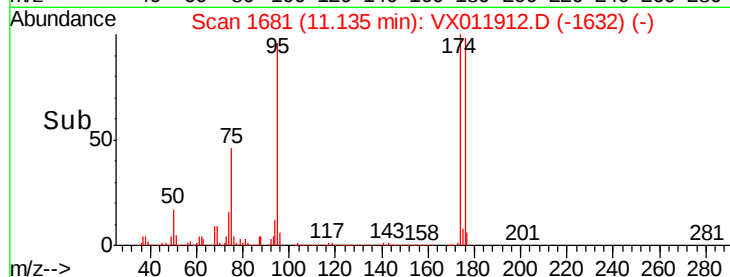
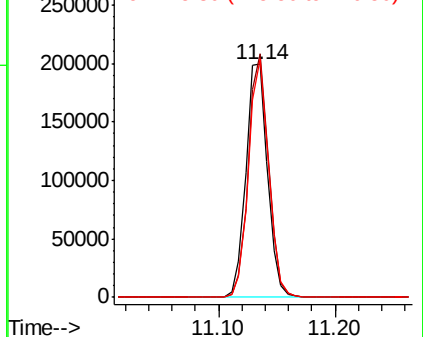
176 94.7 0.0 191.4



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: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX011912.D

Acq: 30 Aug 2019 16:54

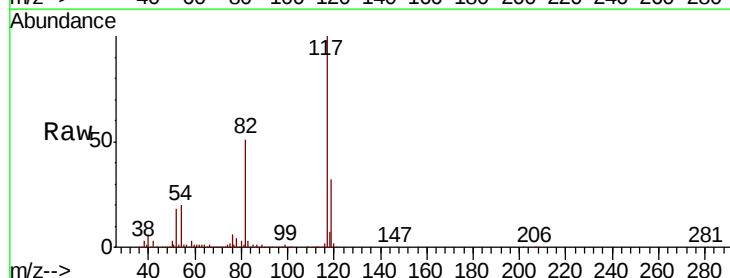
Tgt Ion: 117 Resp: 546256

Ion Ratio Lower Upper

117 100

82 50.9 42.0 63.0

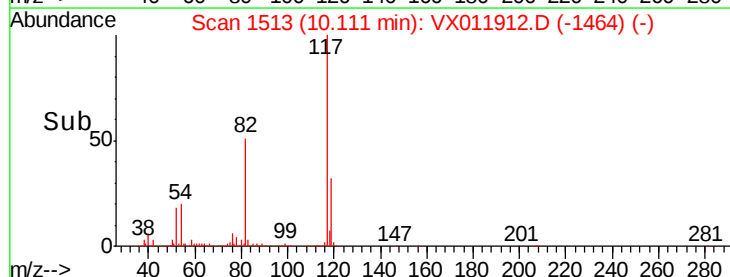
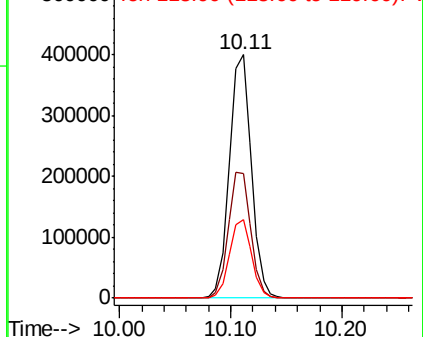
119 32.0 26.2 39.4

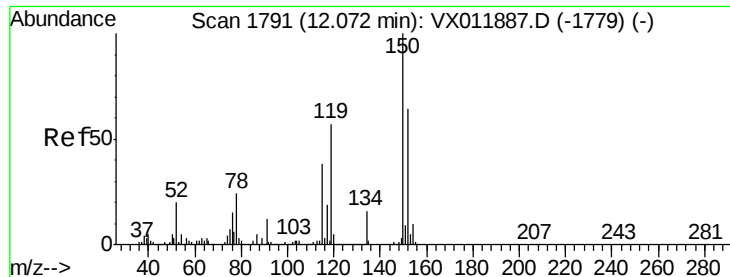


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



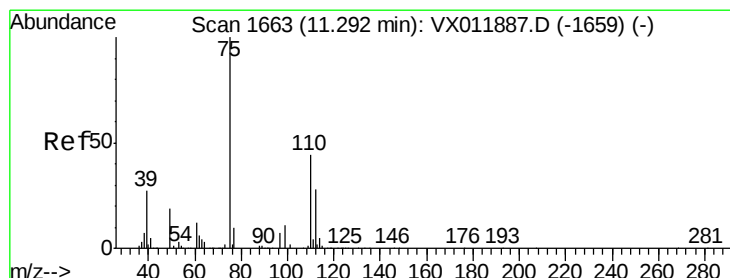
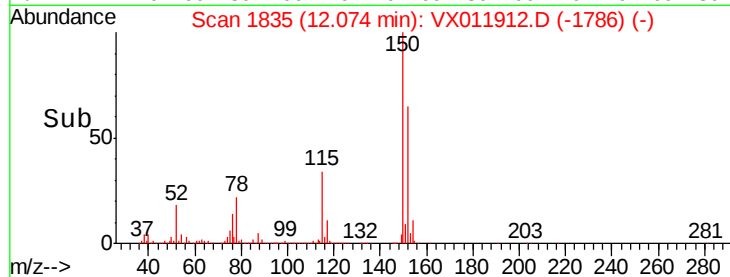
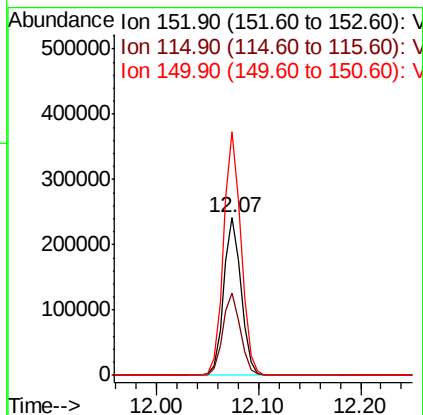
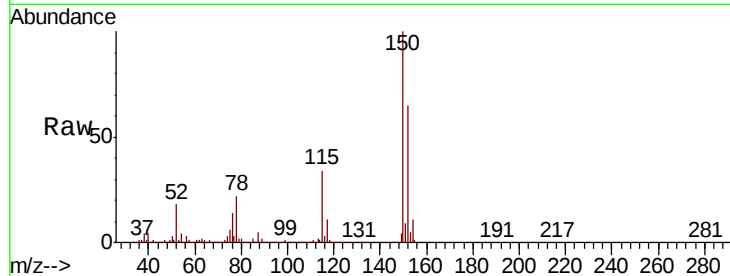


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX011912.D
Acq: 30 Aug 2019 16:54

Instrument :
MSVOA_X
ClientSampleId :
T1-2-C-(2.5)

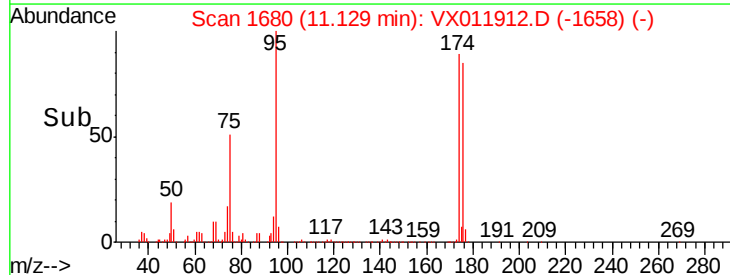
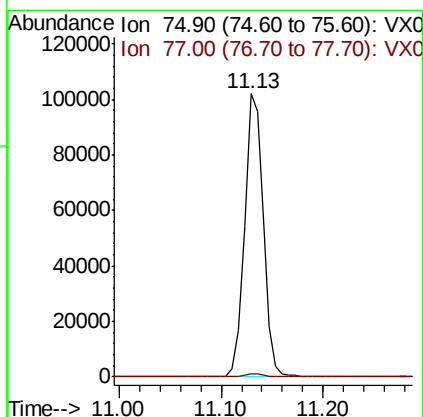
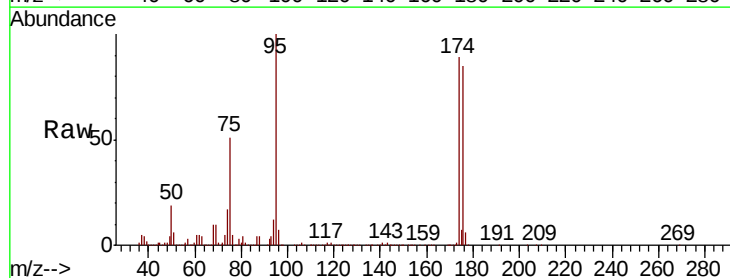
Tgt Ion	Ratio	Lower	Upper
152	100		
115	52.9	37.1	111.3
150	154.9	0.0	339.6

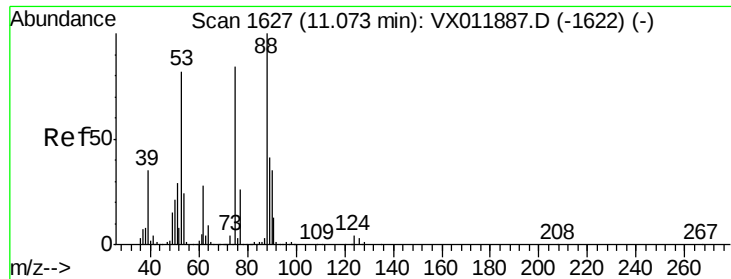


#76

1,2,3-Trichloropropane
Concen: 45.612 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX011912.D
Acq: 30 Aug 2019 16:54

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.2	20.9	62.7#





#81

trans-1,4-Dichloro-2-butene

Concen: 114.586 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX011912.D

Acq: 30 Aug 2019 16:54

Instrument :

MSVOA_X

ClientSampleId :

T1-2-C-(2.5)

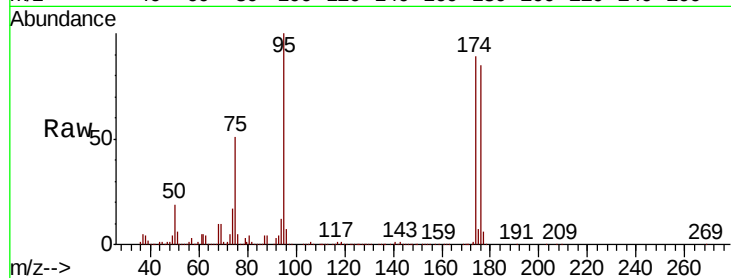
Tgt Ion: 75 Resp: 128681

Ion Ratio Lower Upper

75 100

53 0.0 77.1 115.7#

89 0.0 38.2 57.2#



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

