

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX091119\
 Data File : VX012300.D
 Acq On : 11 Sep 2019 14:13
 Operator : SY/SP
 Sample : K4643-08
 Misc : 3.01g/5.0mL/MSVOA_X/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T11-B3-(4)

Quant Time: Sep 12 05:39:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091019S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 12:55:26 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	169713	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	298409	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	259015	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	108240	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	116610	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
35) Dibromofluoromethane	5.48	113	89722	46.90	ug/l	0.00
Spiked Amount			Recovery	=	93.80%	
50) Toluene-d8	8.71	98	347224	51.75	ug/l	0.00
Spiked Amount			Recovery	=	103.50%	
62) 4-Bromofluorobenzene	11.13	95	133357	42.87	ug/l	0.00
Spiked Amount			Recovery	=	85.74%	

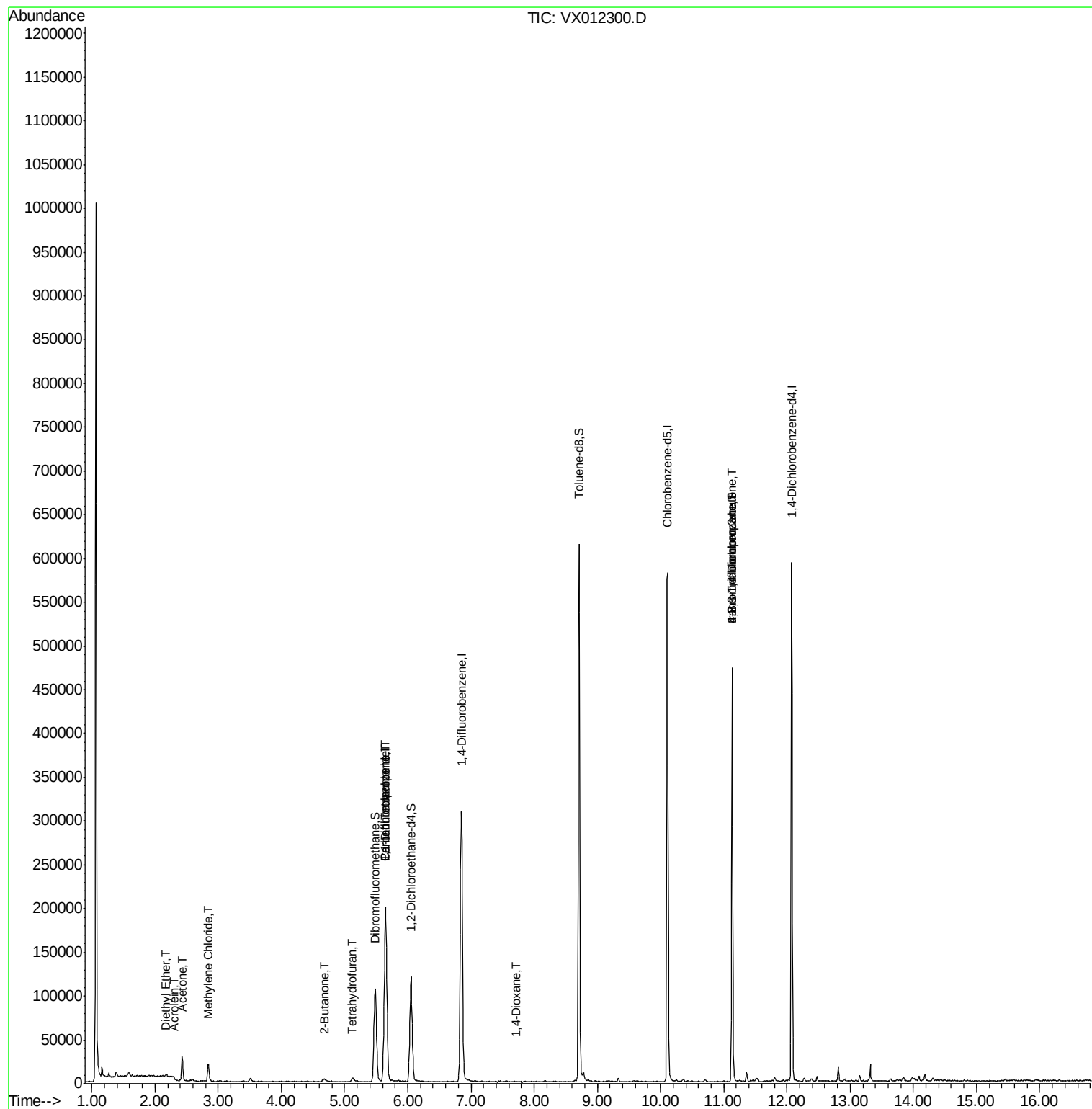
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.59	94	108	Below Cal	#	3
8) Diethyl Ether	2.18	74	995	1.299	ug/l	85
11) Tert butyl alcohol	3.03	59	961	Below Cal		98
13) Acrolein	2.29	56	182	1.451	ug/l	99
16) Acetone	2.43	43	28720	50.562	ug/l	96
20) Methylene Chloride	2.84	84	9052	2.611	ug/l	97
25) 2-Butanone	4.67	43	2700	3.718	ug/l	93
29) Tetrahydrofuran	5.12	42	4927	12.576	ug/l	95
36) 1,1-Dichloropropene	5.65	75	15439	7.095	ug/l #	52
38) Carbon Tetrachloride	5.65	117	19883	7.788	ug/l #	14
49) 1,4-Dioxane	7.72	88	40	2.184	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	69428	49.930	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	69428	149.602	ug/l #	5

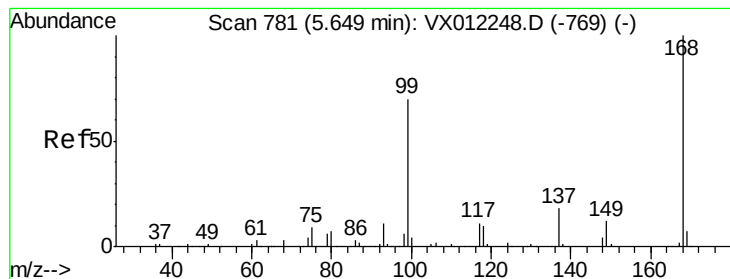
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX091119\
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Quant Time: Sep 12 05:39:05 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091019S.M
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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: VX012300.D

Acq: 11 Sep 2019 14:13

Instrument :

MSVOA_X

ClientSampleId :

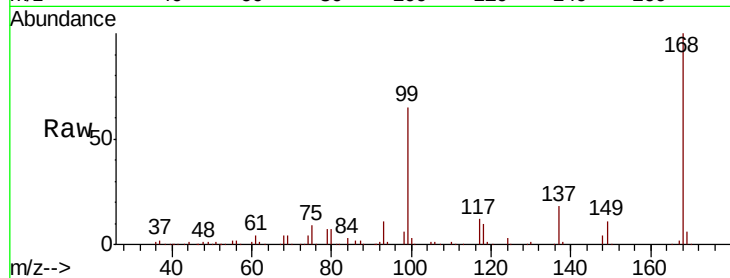
T11-B3-(4)

Tgt Ion:168 Resp: 169713

Ion Ratio Lower Upper

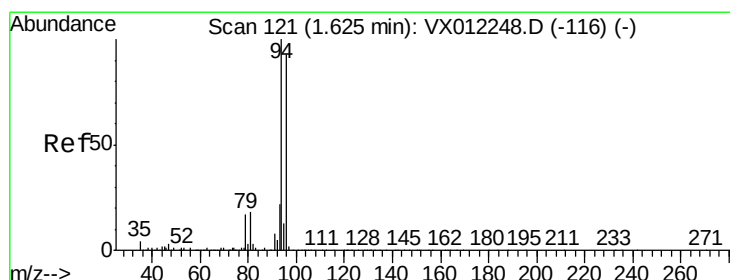
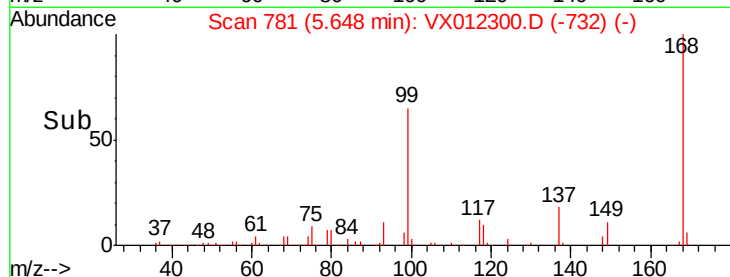
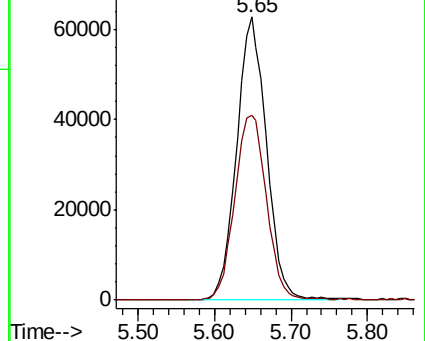
168 100

99 65.3 55.8 83.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.59 min Scan# 116

Delta R.T. -0.03 min

Lab File: VX012300.D

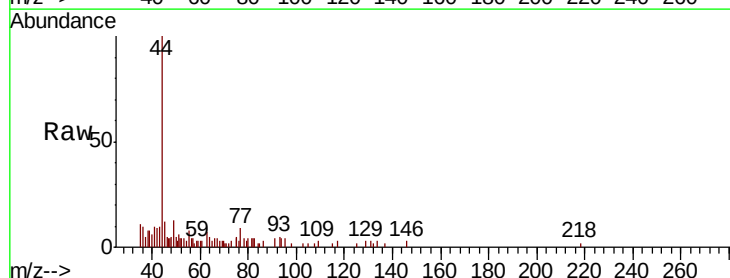
Acq: 11 Sep 2019 14:13

Tgt Ion: 94 Resp: 108

Ion Ratio Lower Upper

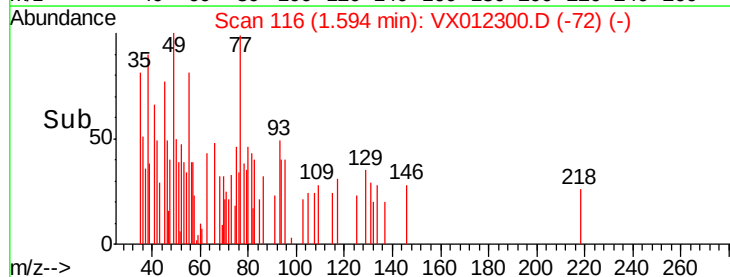
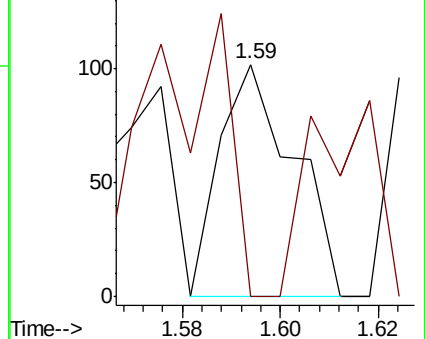
94 100

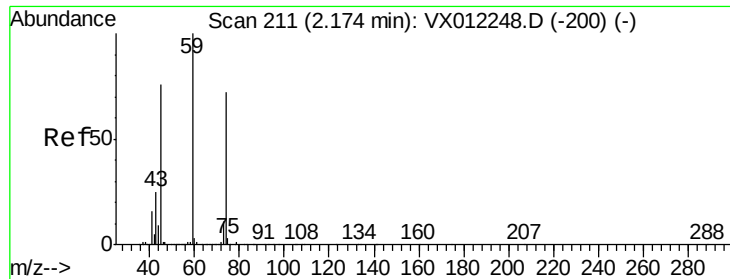
96 0.0 74.0 111.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

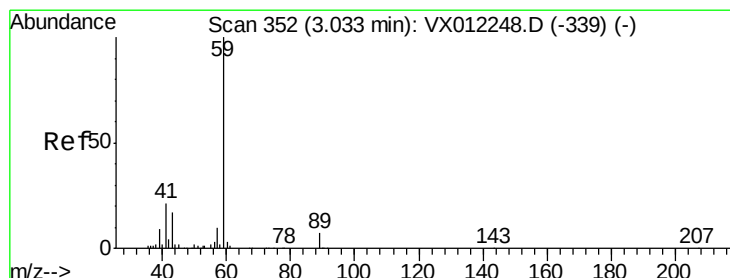
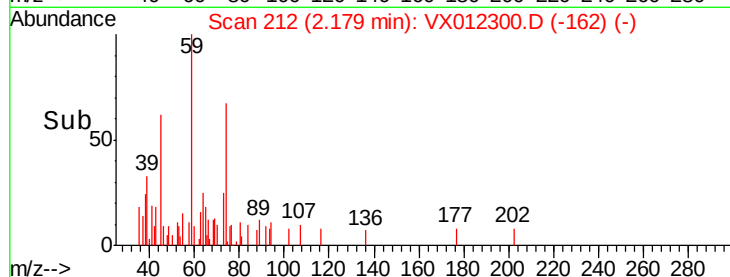
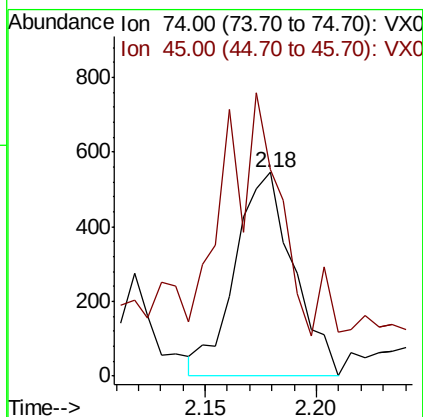
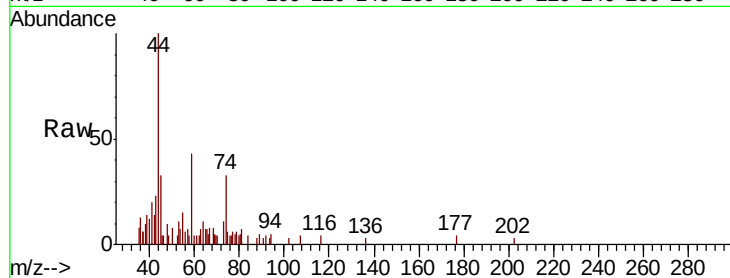




#8
Diethyl Ether
Concen: 1.299 ug/l
RT: 2.18 min Scan# 212
Delta R.T. 0.01 min
Lab File: VX012300.D
Acq: 11 Sep 2019 14:13

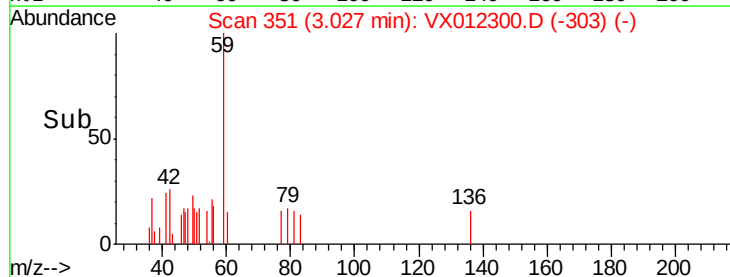
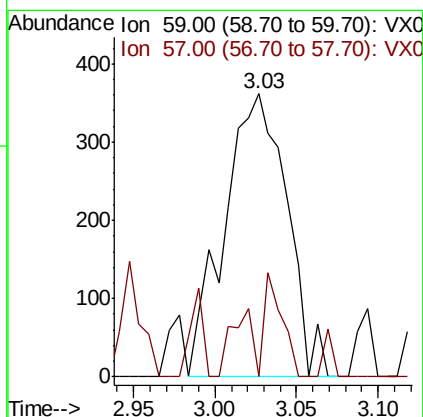
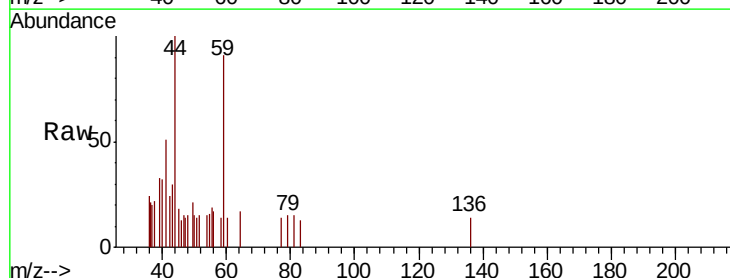
Instrument :
MSVOA_X
ClientSampleId :
T11-B3-(4)

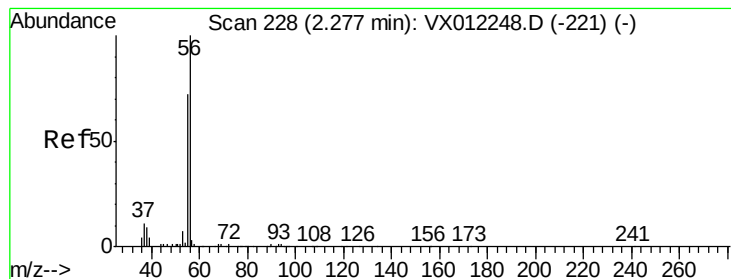
Tgt Ion: 74 Resp: 995
Ion Ratio Lower Upper
74 100
45 117.7 51.3 153.9



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.03 min Scan# 351
Delta R.T. -0.01 min
Lab File: VX012300.D
Acq: 11 Sep 2019 14:13

Tgt Ion: 59 Resp: 961
Ion Ratio Lower Upper
59 100
57 10.5 7.8 11.6





#13

Acrolein

Concen: 1.451 ug/l

RT: 2.29 min Scan# 230

Delta R.T. 0.01 min

Lab File: VX012300.D

Acq: 11 Sep 2019 14:13

Instrument :

MSVOA_X

ClientSampled :

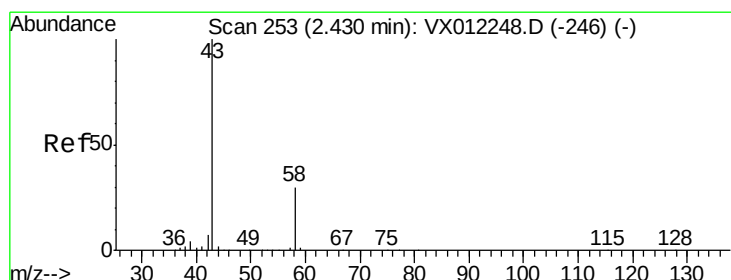
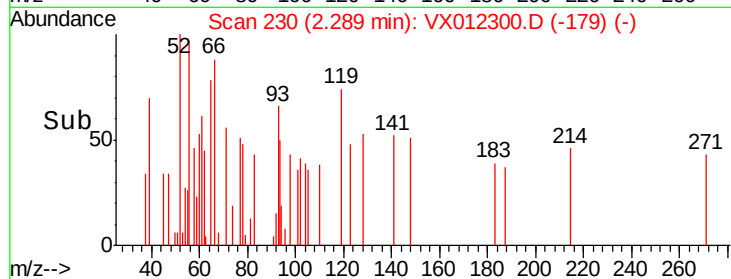
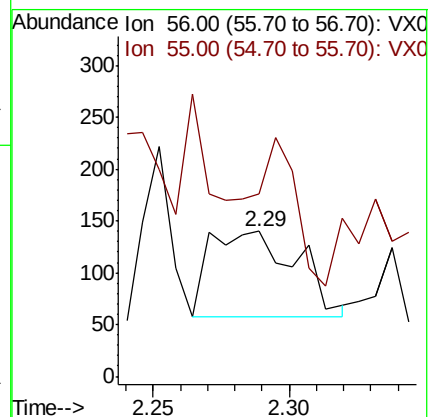
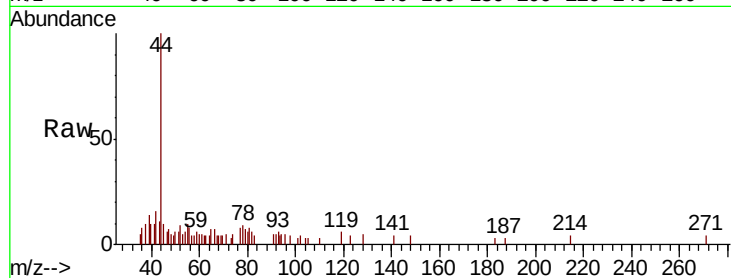
T11-B3-(4)

Tgt Ion: 56 Resp: 182

Ion Ratio Lower Upper

56 100

55 73.6 59.8 89.6



#16

Acetone

Concen: 50.562 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX012300.D

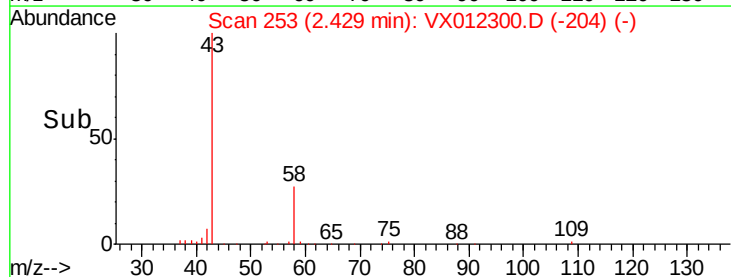
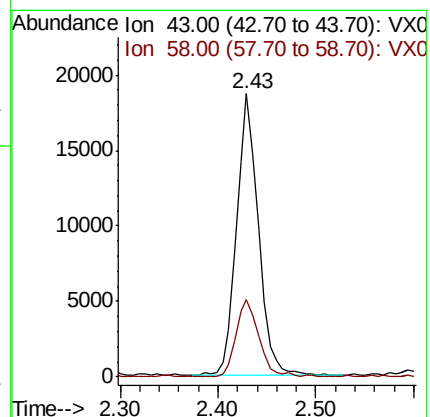
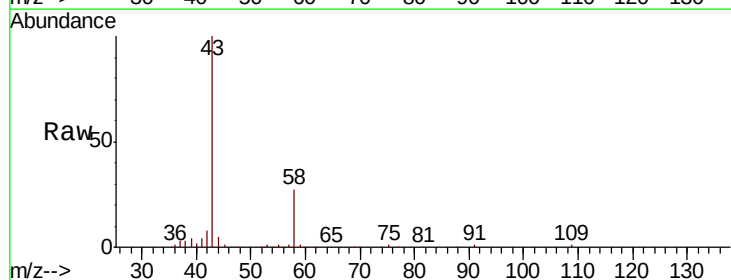
Acq: 11 Sep 2019 14:13

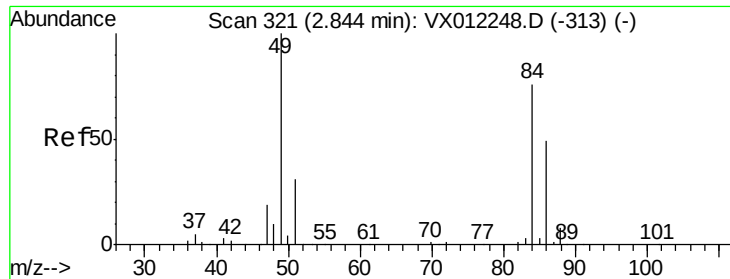
Tgt Ion: 43 Resp: 28720

Ion Ratio Lower Upper

43 100

58 27.6 23.6 35.4

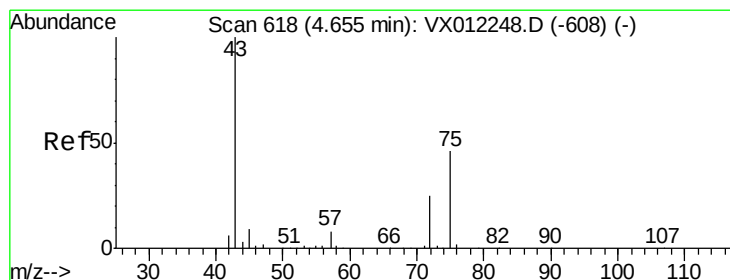
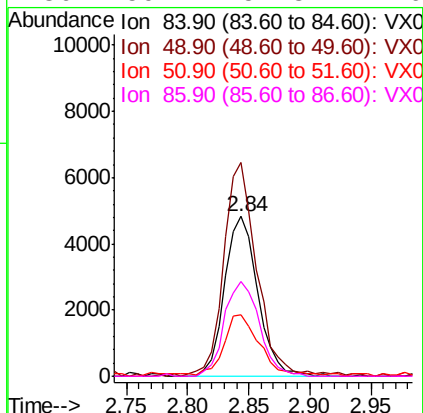
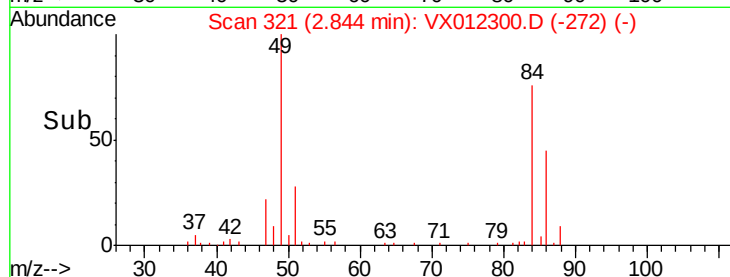
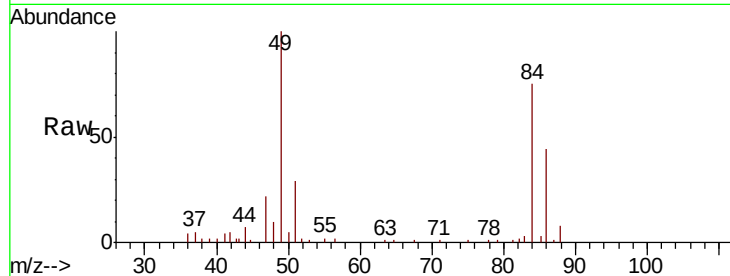




#20
Methylene Chloride
Concen: 2.611 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.00 min
Lab File: VX012300.D
Acq: 11 Sep 2019 14:13

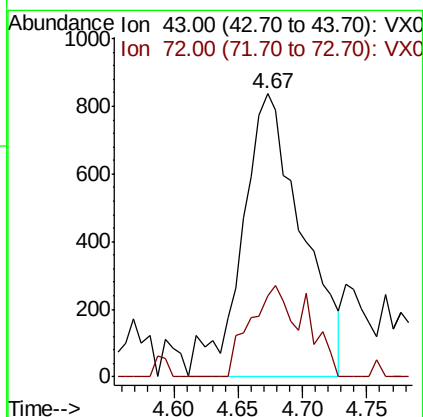
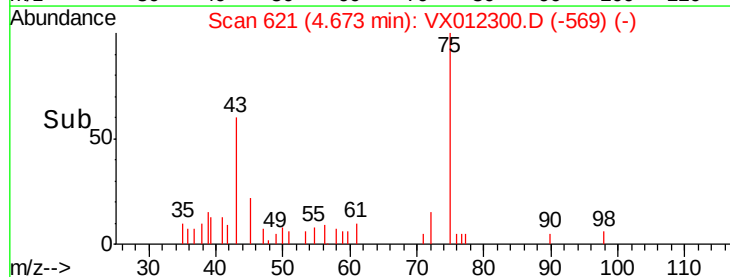
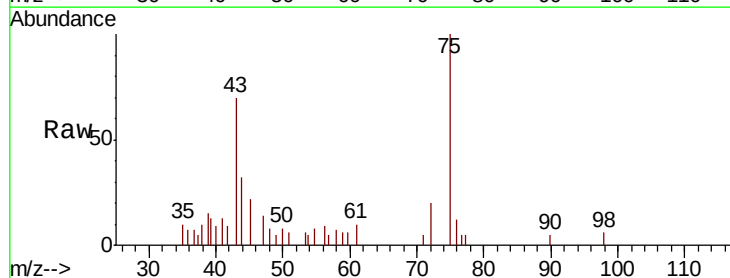
Instrument :
MSVOA_X
ClientSampleId :
T11-B3-(4)

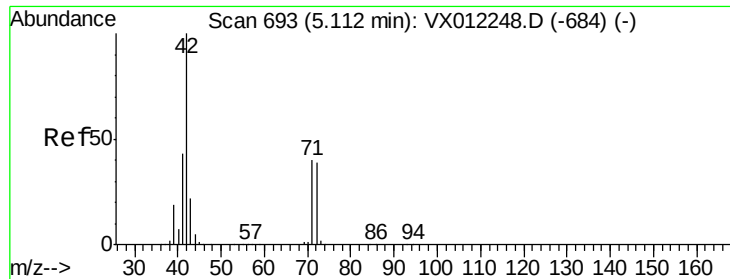
Tgt Ion: 84 Resp: 9052
Ion Ratio Lower Upper
84 100
49 132.6 105.0 157.6
51 37.3 32.6 48.8
86 59.4 51.8 77.6



#25
2-Butanone
Concen: 3.718 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.02 min
Lab File: VX012300.D
Acq: 11 Sep 2019 14:13

Tgt Ion: 43 Resp: 2700
Ion Ratio Lower Upper
43 100
72 28.7 20.2 30.2





#29

Tetrahydrofuran

Concen: 12.576 ug/l

RT: 5.12 min Scan# 694

Delta R.T. 0.01 min

Lab File: VX012300.D

Acq: 11 Sep 2019 14:13

Instrument :

MSVOA_X

ClientSampleId :

T11-B3-(4)

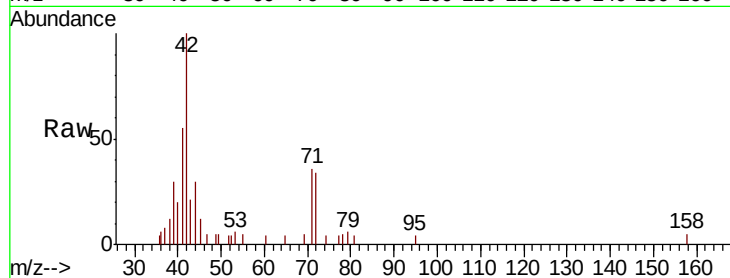
Tgt Ion: 42 Resp: 4927

Ion Ratio Lower Upper

42 100

72 46.1 35.2 52.8

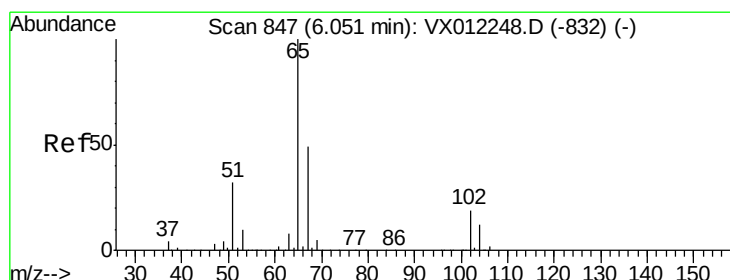
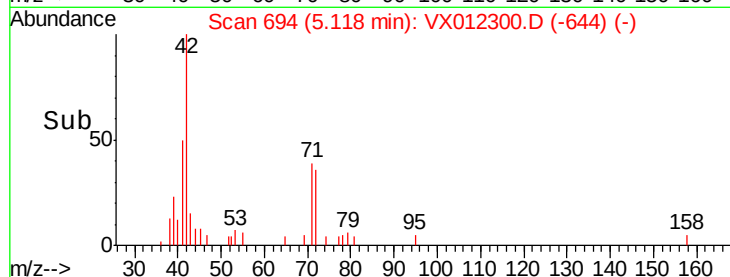
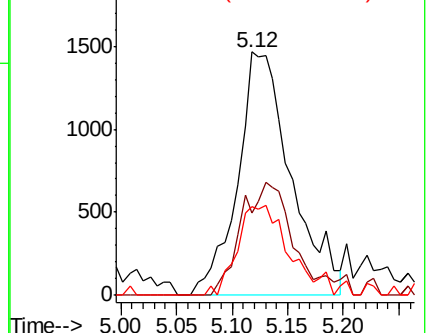
71 36.7 32.5 48.7



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



#33

1,2-Dichloroethane-d4

Concen: 48.599 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX012300.D

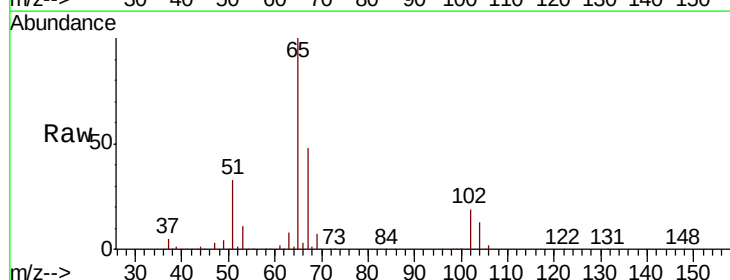
Acq: 11 Sep 2019 14:13

Tgt Ion: 65 Resp: 116610

Ion Ratio Lower Upper

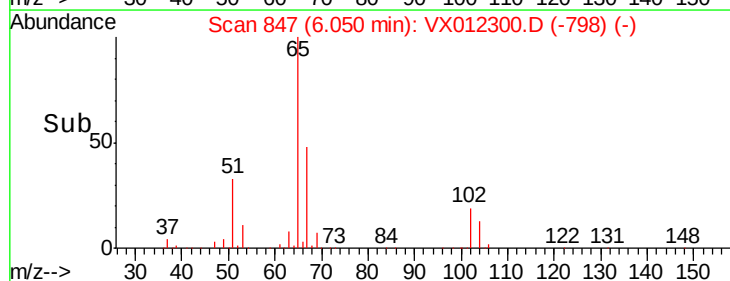
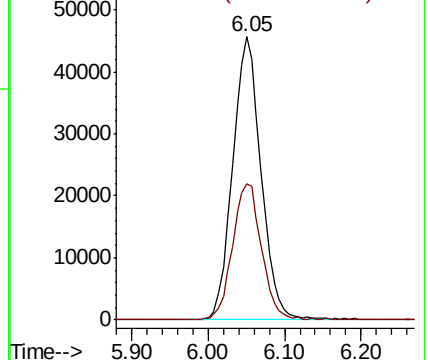
65 100

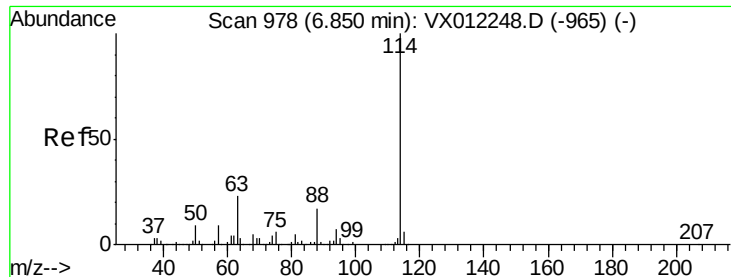
67 49.4 0.0 99.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX012300.D

Acq: 11 Sep 2019 14:13

Instrument :

MSVOA_X

ClientSampleId :

T11-B3-(4)

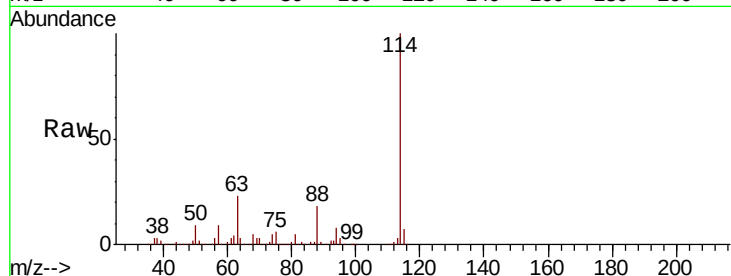
Tgt Ion:114 Resp: 298409

Ion Ratio Lower Upper

114 100

63 23.1 0.0 45.2

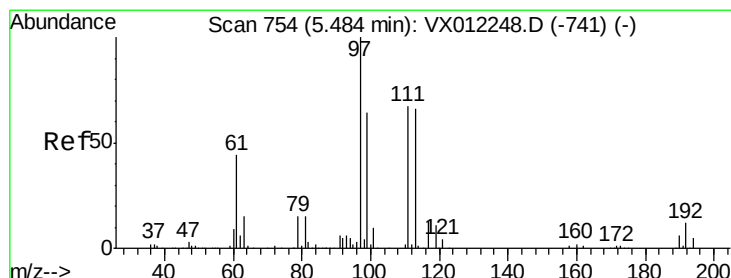
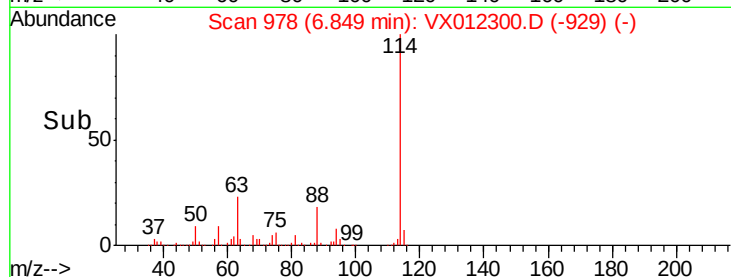
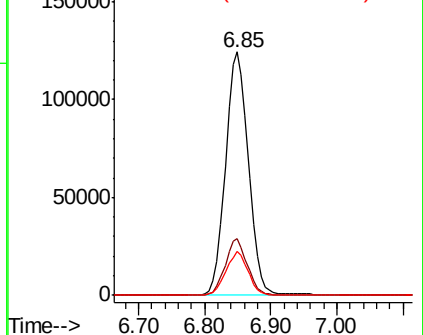
88 18.3 0.0 34.8



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: 46.903 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.00 min

Lab File: VX012300.D

Acq: 11 Sep 2019 14:13

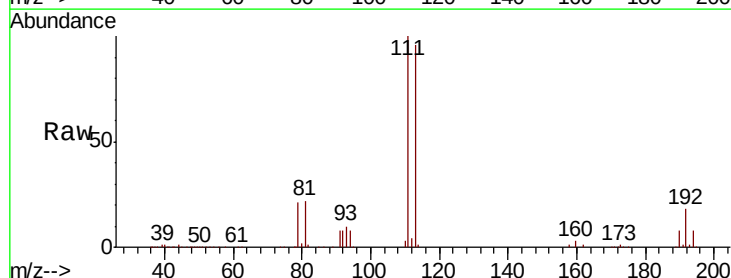
Tgt Ion:113 Resp: 89722

Ion Ratio Lower Upper

113 100

111 101.7 83.0 124.6

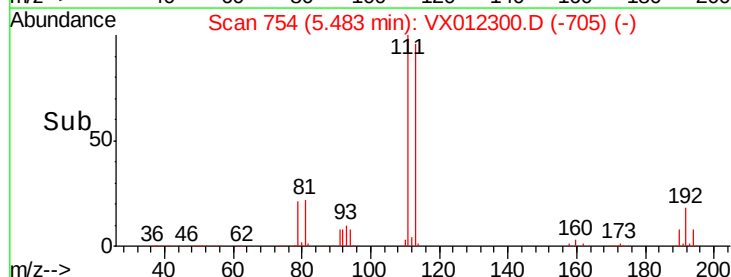
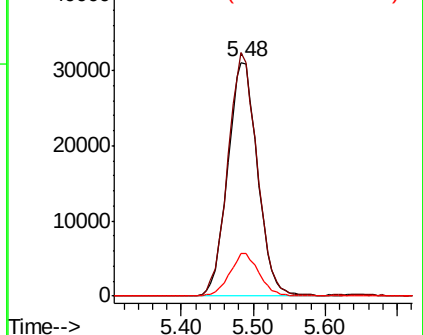
192 17.7 14.3 21.5

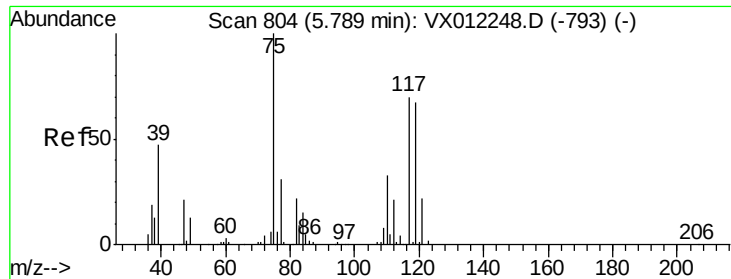


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 7.095 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012300.D

Acq: 11 Sep 2019 14:13

Instrument :

MSVOA_X

ClientSampled :

T11-B3-(4)

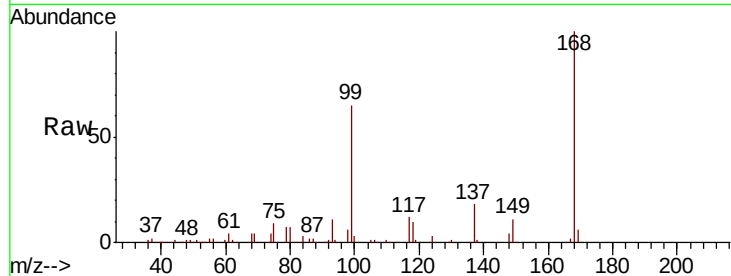
Tgt Ion: 75 Resp: 15439

Ion Ratio Lower Upper

75 100

110 10.5 16.8 50.4#

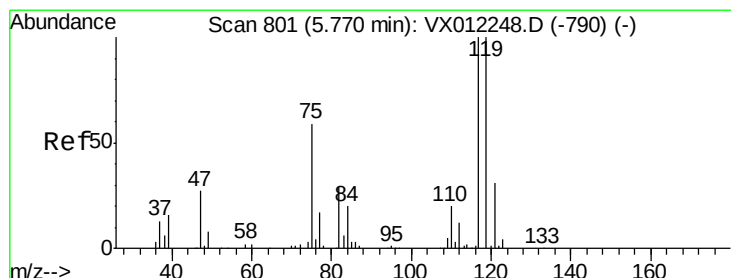
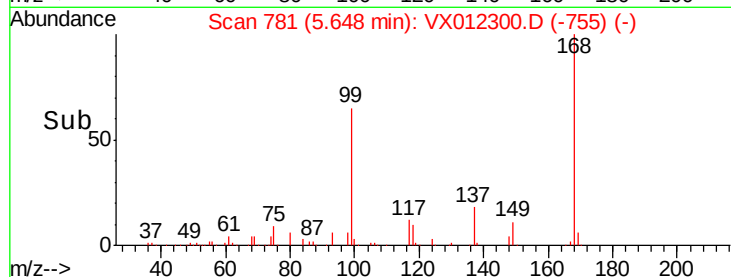
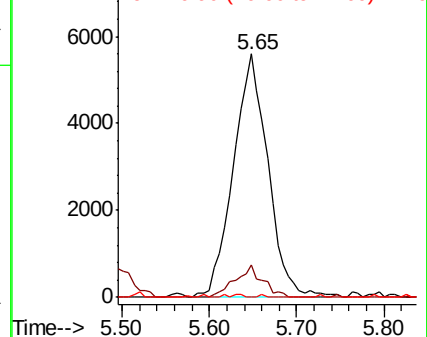
77 0.2 24.5 36.7#



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: 7.788 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.12 min

Lab File: VX012300.D

Acq: 11 Sep 2019 14:13

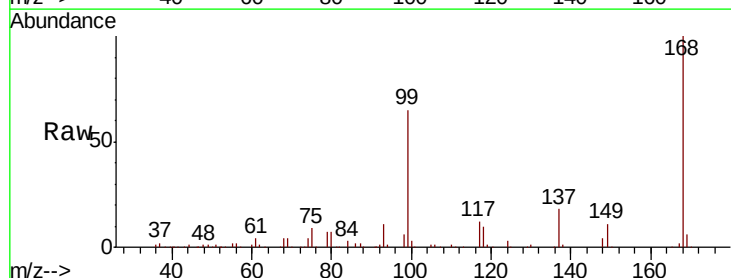
Tgt Ion: 117 Resp: 19883

Ion Ratio Lower Upper

117 100

119 4.5 79.6 119.4#

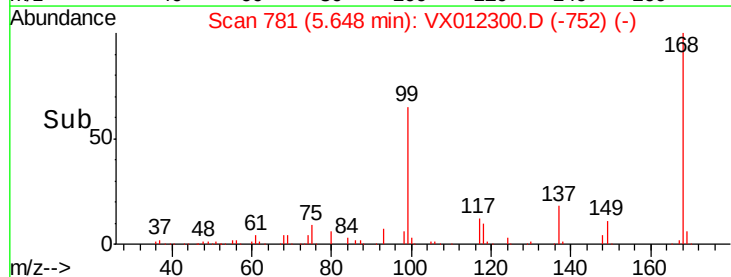
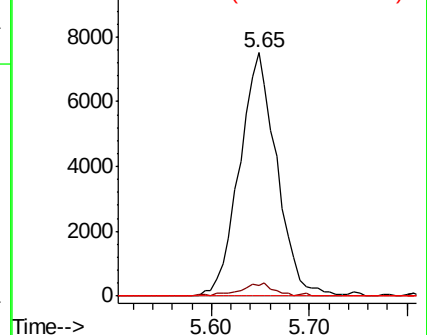
121 0.0 24.7 37.1#

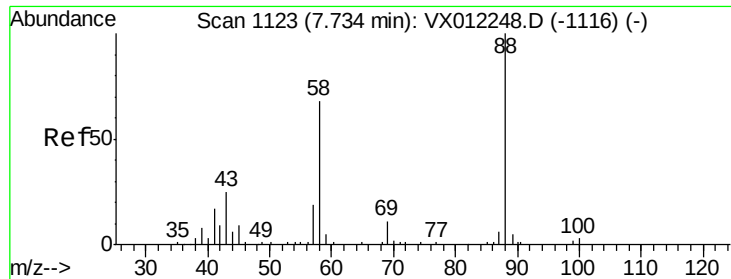


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

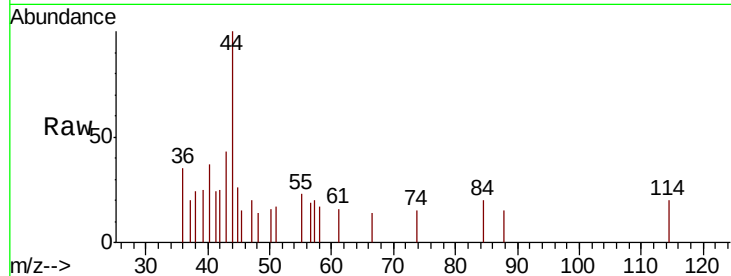




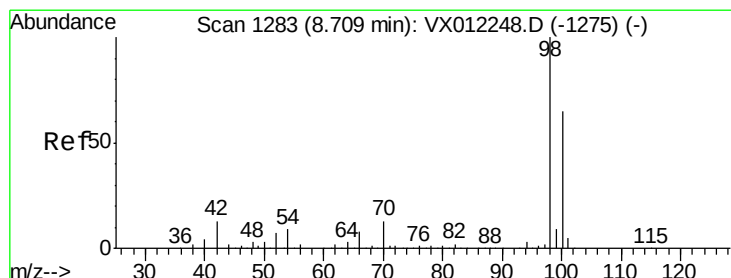
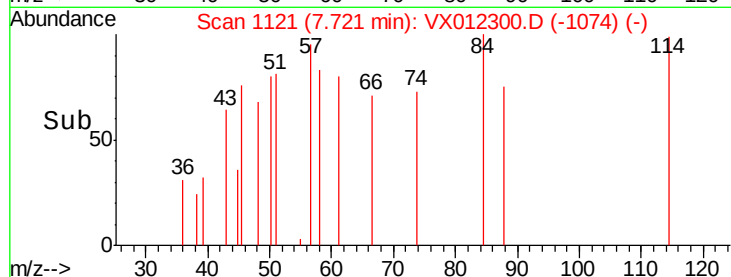
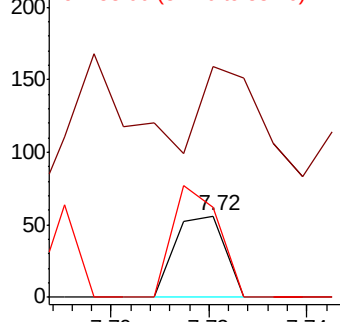
#49
1,4-Dioxane
Concen: 2.184 ug/l
RT: 7.72 min Scan# 1121
Delta R.T. -0.01 min
Lab File: VX012300.D
Acq: 11 Sep 2019 14:13

Instrument :
MSVOA_X
ClientSampleId :
T11-B3-(4)

Tgt Ion: 88 Resp: 40
Ion Ratio Lower Upper
88 100
43 190.0 31.0 46.4#
58 127.5 61.5 92.3#

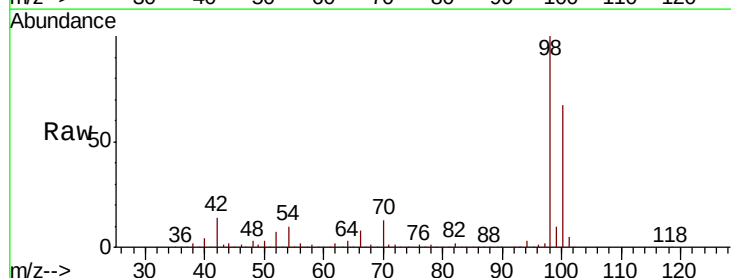


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

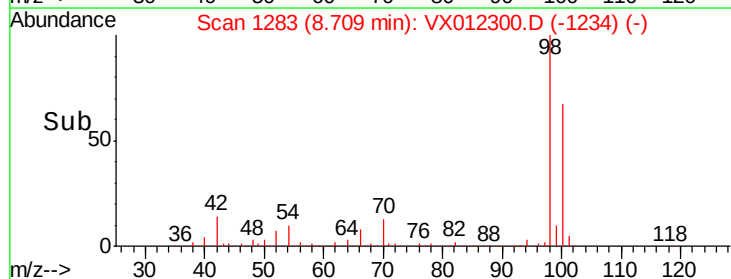
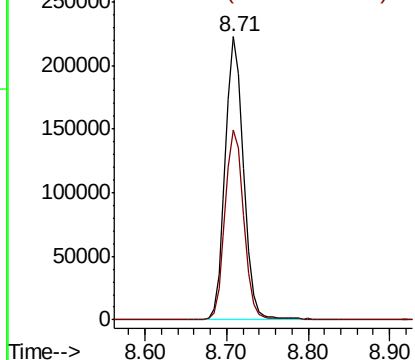


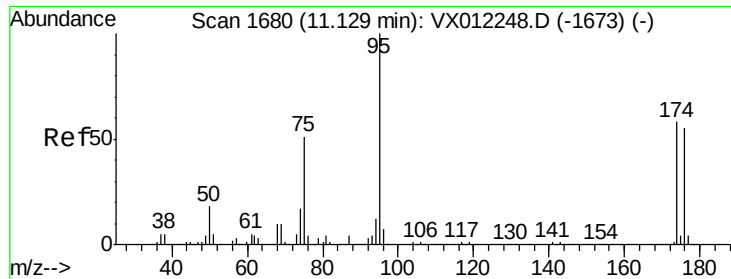
#50
Toluene-d8
Concen: 51.752 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX012300.D
Acq: 11 Sep 2019 14:13

Tgt Ion: 98 Resp: 347224
Ion Ratio Lower Upper
98 100
100 68.5 54.1 81.1



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 42.874 ug/l

RT: 11.13 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX012300.D

Acq: 11 Sep 2019 14:13

Instrument :

MSVOA_X

ClientSampleId :

T11-B3-(4)

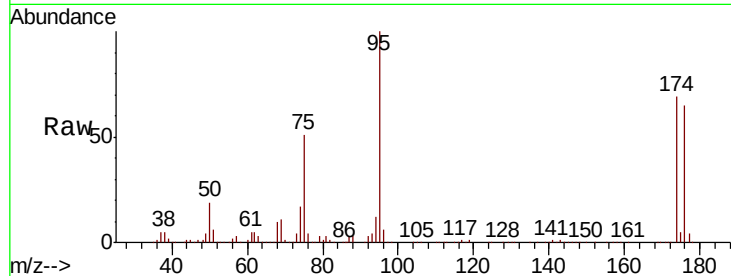
Tgt Ion: 95 Resp: 133357

Ion Ratio Lower Upper

95 100

174 65.9 0.0 127.0

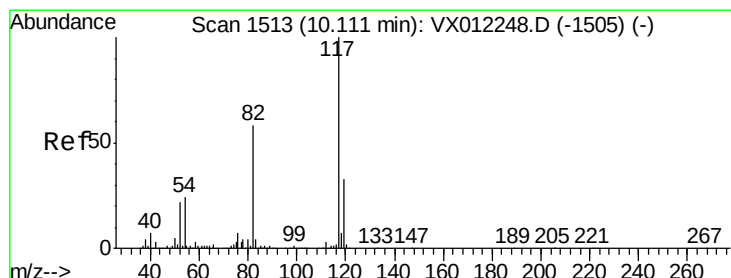
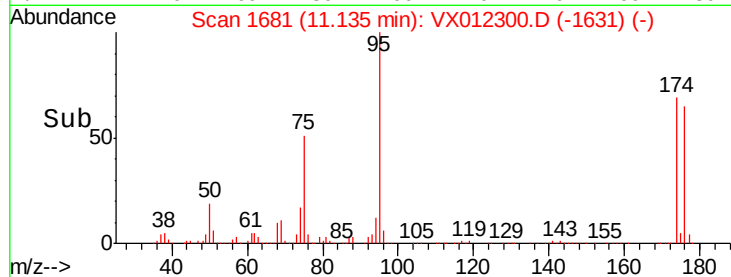
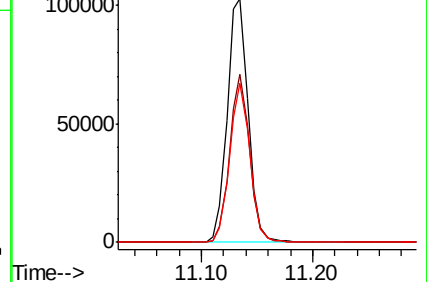
176 62.9 0.0 125.8



Abundance Ion 94.90 (94.60 to 95.60): VX012248.D (-1673) (-)

Ion 173.80 (173.50 to 174.50): VX012248.D (-1673) (-)

Ion 175.80 (175.50 to 176.50): VX012248.D (-1673) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX012300.D

Acq: 11 Sep 2019 14:13

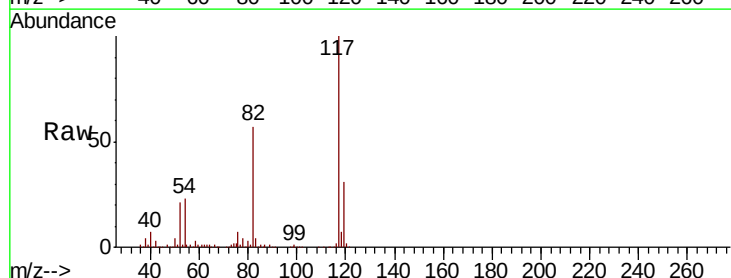
Tgt Ion: 117 Resp: 259015

Ion Ratio Lower Upper

117 100

82 57.0 46.4 69.6

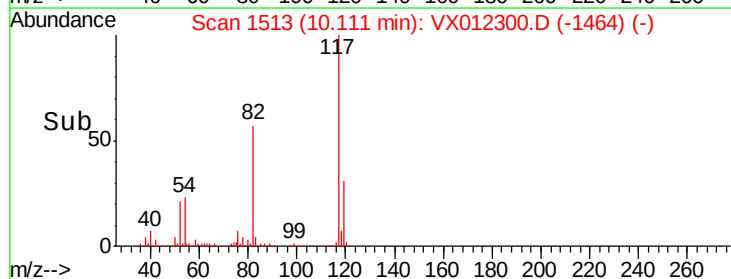
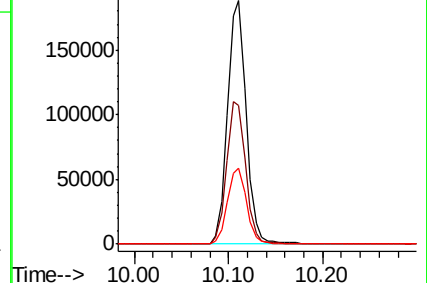
119 31.2 26.6 39.8

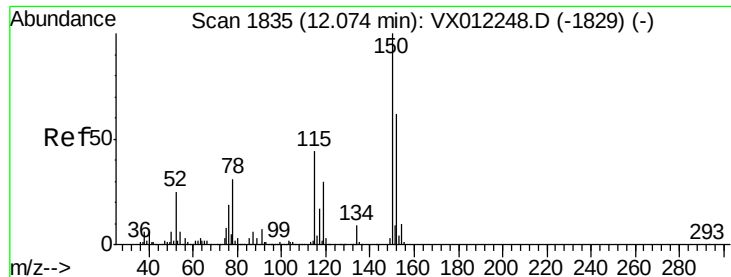


Abundance Ion 116.90 (116.60 to 117.60): VX012248.D (-1505) (-)

Ion 82.00 (81.70 to 82.70): VX012248.D (-1505) (-)

Ion 118.90 (118.60 to 119.60): VX012248.D (-1505) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX012300.D

Acq: 11 Sep 2019 14:13

Instrument :

MSVOA_X

ClientSampleId :

T11-B3-(4)

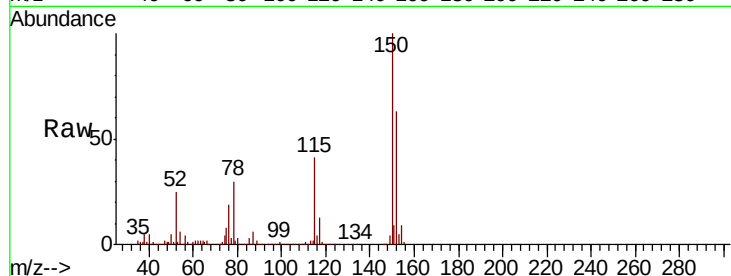
Tgt Ion:152 Resp: 108240

Ion Ratio Lower Upper

152 100

115 64.9 45.5 136.4

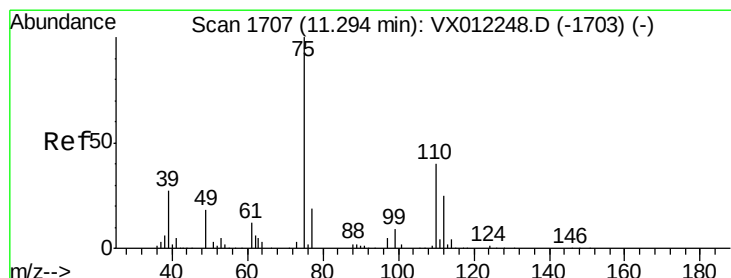
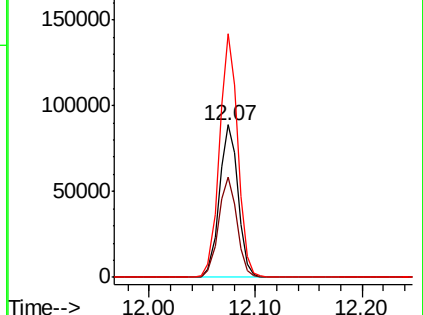
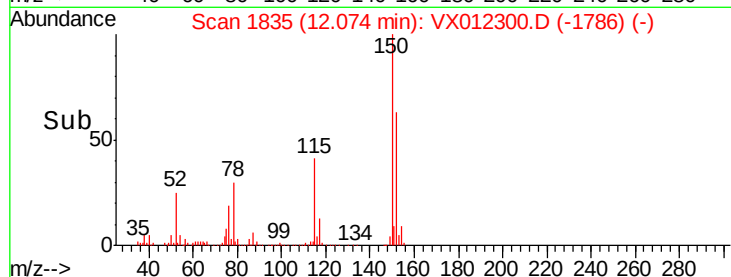
150 156.6 0.0 346.4



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: 49.930 ug/l

RT: 11.13 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012300.D

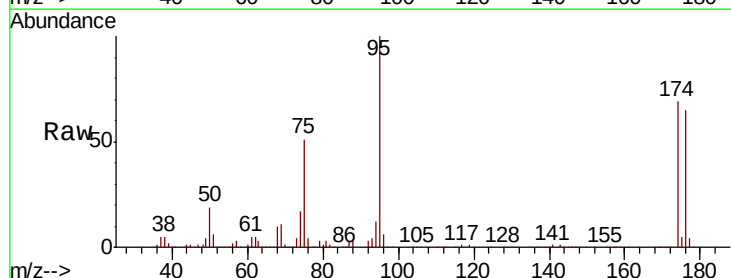
Acq: 11 Sep 2019 14:13

Tgt Ion: 75 Resp: 69428

Ion Ratio Lower Upper

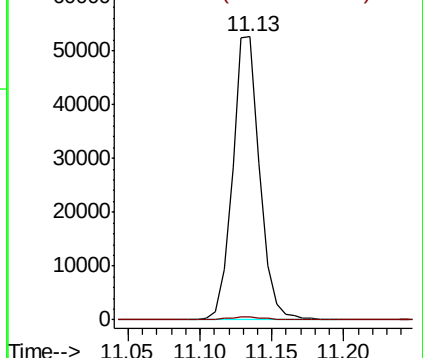
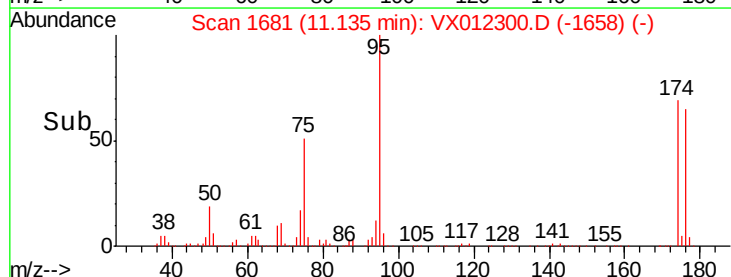
75 100

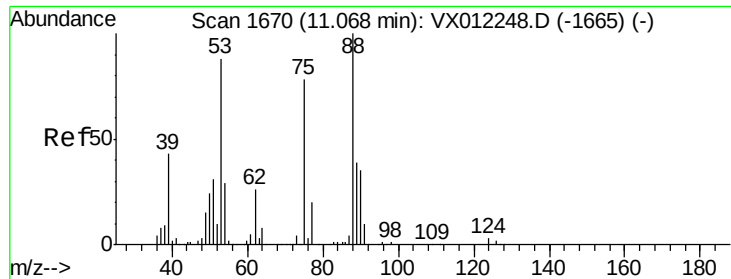
77 1.2 19.7 59.0#



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: 149.602 ug/l

RT: 11.13 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012300.D

Acq: 11 Sep 2019 14:13

Instrument :

MSVOA_X

ClientSampleId :

T11-B3-(4)

Tgt Ion: 75 Resp: 69428

Ion Ratio Lower Upper

75 100

53 0.2 88.1 132.1#

89 0.0 43.5 65.3#

