

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX090119\
 Data File : VX012004.D
 Acq On : 01 Sep 2019 20:47
 Operator : SY/SP
 Sample : K4529-07
 Misc : 2.61g/5.0mL/MSVOA_X/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 T9-12-13-T4-(1.9)

Quant Time: Sep 02 03:57:01 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	403413	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	519755	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	426442	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	177602	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	161570	41.80	ug/l	0.00
Spiked Amount			Recovery	=	83.60%	
35) Dibromofluoromethane	5.48	113	149211	44.77	ug/l	0.00
Spiked Amount			Recovery	=	89.54%	
50) Toluene-d8	8.71	98	567897	47.67	ug/l	0.00
Spiked Amount			Recovery	=	95.34%	
62) 4-Bromofluorobenzene	11.14	95	182756	34.97	ug/l	0.00
Spiked Amount			Recovery	=	69.94%	

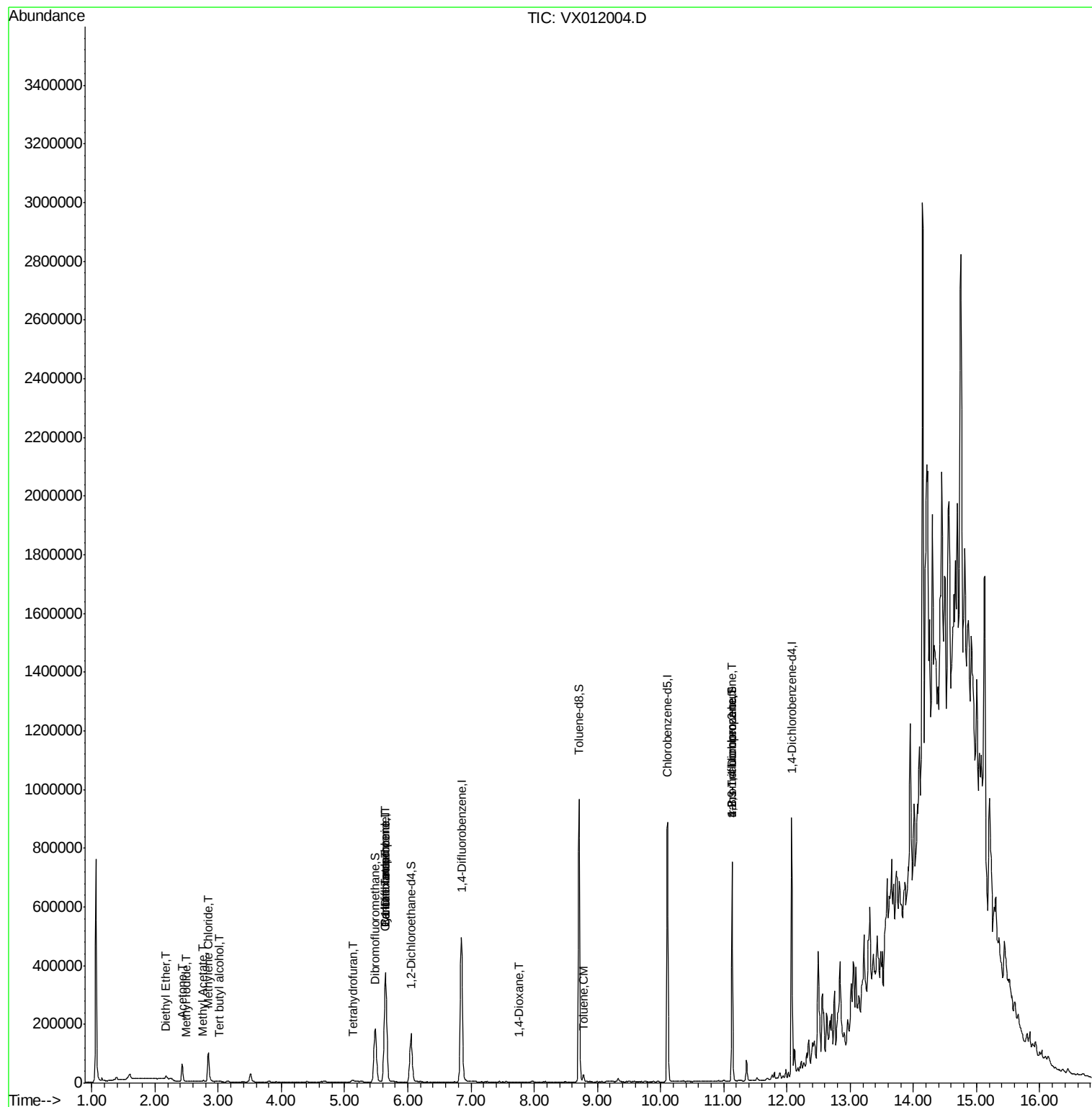
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.17	74	3328	2.069	ug/l	98
10) Methyl Iodide	2.50	142	268	3.751	ug/l #	48
11) Tert butyl alcohol	3.02	59	2793	7.511	ug/l	96
16) Acetone	2.43	43	61476	73.924	ug/l	99
18) Methyl Acetate	2.76	43	5601	2.433	ug/l	91
20) Methylene Chloride	2.84	84	48945	9.850	ug/l	93
29) Tetrahydrofuran	5.13	42	5759	7.618	ug/l #	81
31) Cyclohexane	5.64	56	6111	1.266	ug/l #	6
36) 1,1-Dichloropropene	5.65	75	23292	5.657	ug/l #	52
38) Carbon Tetrachloride	5.65	117	33773	7.072	ug/l #	16
49) 1,4-Dioxane	7.76	88	89	2.692	ug/l #	25
52) Toluene	8.78	92	8294	1.020	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	91857	52.577	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	91857	132.084	ug/l #	11

(#) = 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: VX012004.D

Acq: 01 Sep 2019 20:47

Instrument :

MSVOA_X

ClientSampleId :

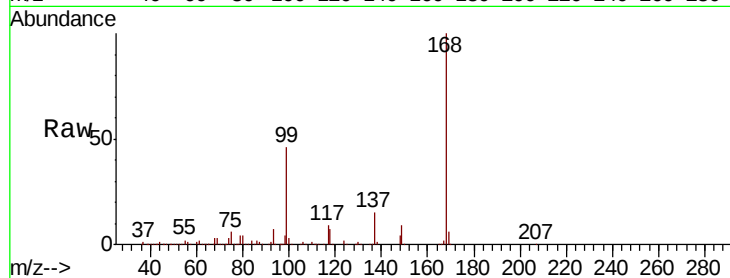
T9-12-13-T4-(1.9)

Tgt Ion:168 Resp: 403413

Ion Ratio Lower Upper

168 100

99 45.9 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

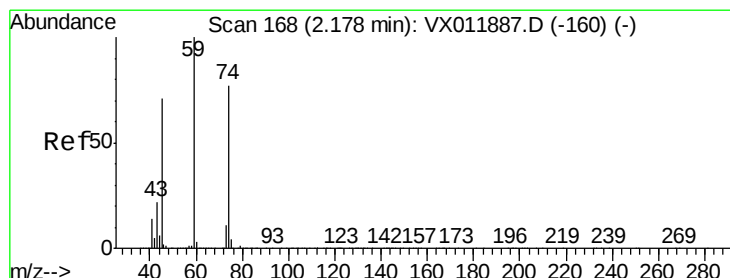
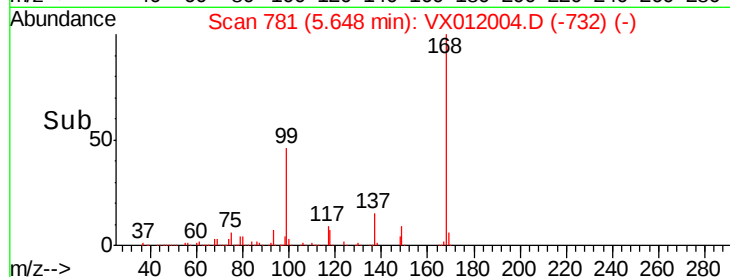
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50000

0

Time-->

5.50 5.60 5.70 5.80



#8

Diethyl Ether

Concen: 2.069 ug/l

RT: 2.17 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX012004.D

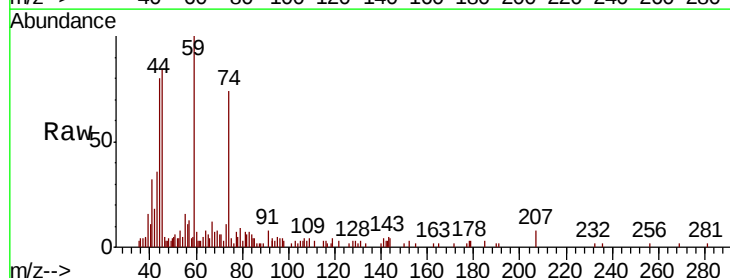
Acq: 01 Sep 2019 20:47

Tgt Ion: 74 Resp: 3328

Ion Ratio Lower Upper

74 100

45 91.1 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

2500

2000

1500

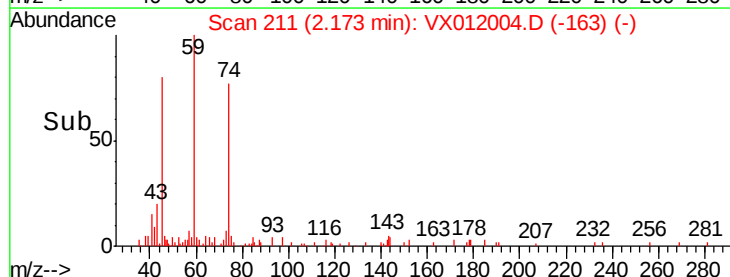
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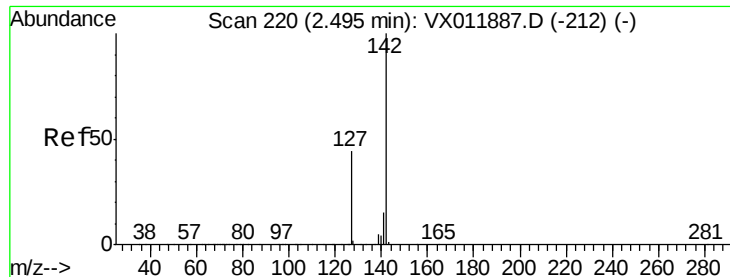
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0

Time-->

2.10 2.15 2.20 2.25

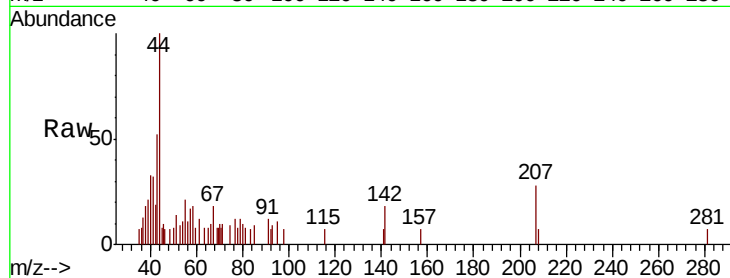




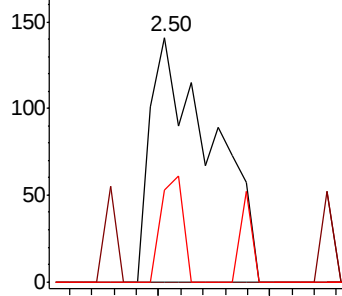
#10
Methyl Iodide
Concen: 3.751 ug/l
RT: 2.50 min Scan# 265
Delta R.T. 0.01 min
Lab File: VX012004.D
Acq: 01 Sep 2019 20:47

Instrument :
MSVOA_X
ClientSampleId :
T9-12-13-T4-(1.9)

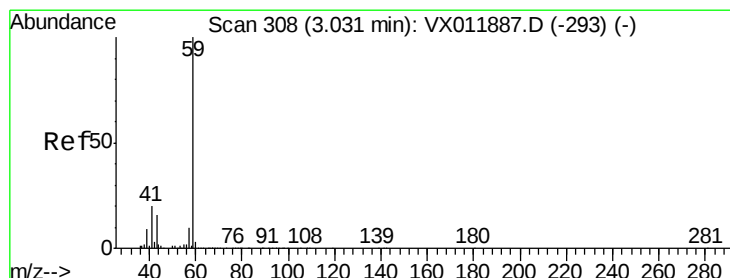
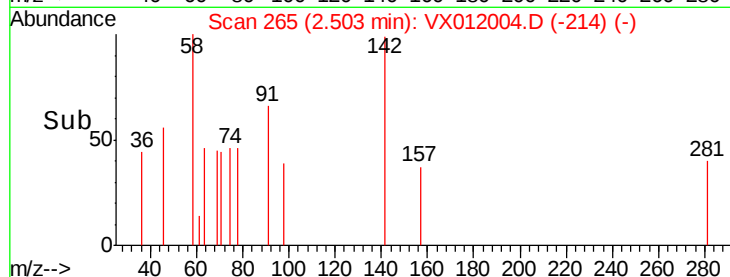
Tgt Ion: 142 Resp: 268
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 15.7 11.8 17.6



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

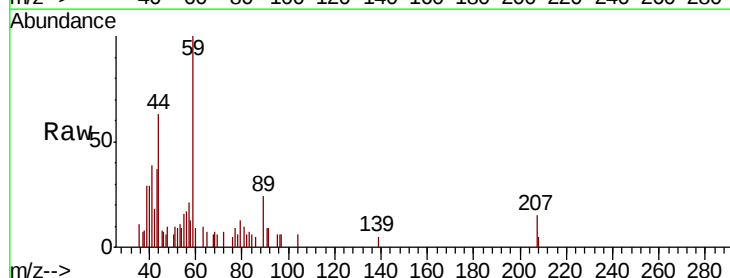


Time-->

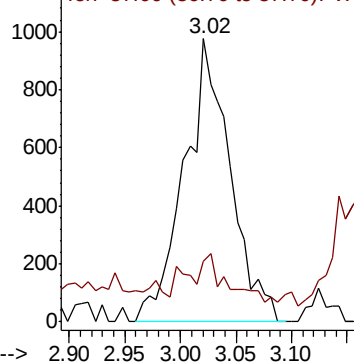


#11
Tert butyl alcohol
Concen: 7.511 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.01 min
Lab File: VX012004.D
Acq: 01 Sep 2019 20:47

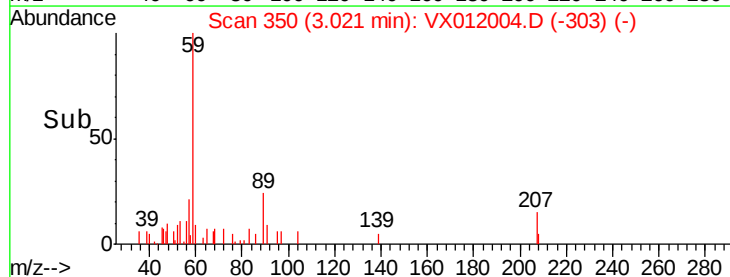
Tgt Ion: 59 Resp: 2793
Ion Ratio Lower Upper
59 100
57 9.1 8.6 12.8

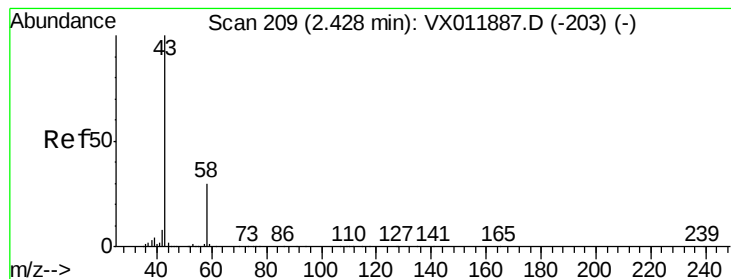


Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0



Time-->





#16

Acetone

Concen: 73.924 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX012004.D

Acq: 01 Sep 2019 20:47

Instrument :

MSVOA_X

ClientSampleId :

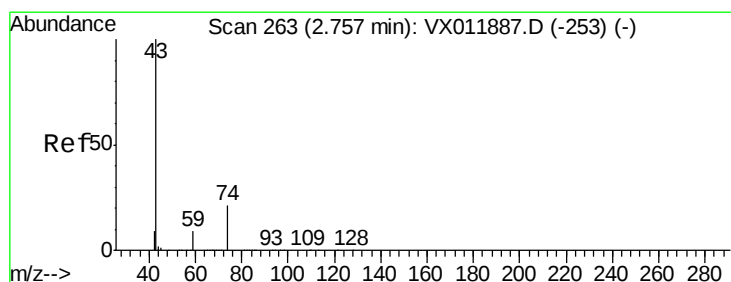
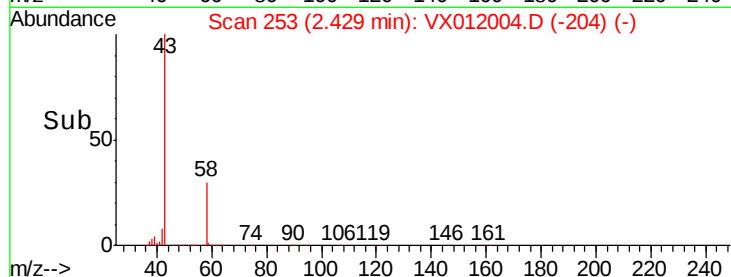
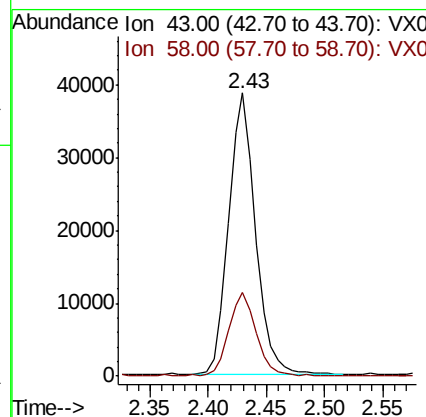
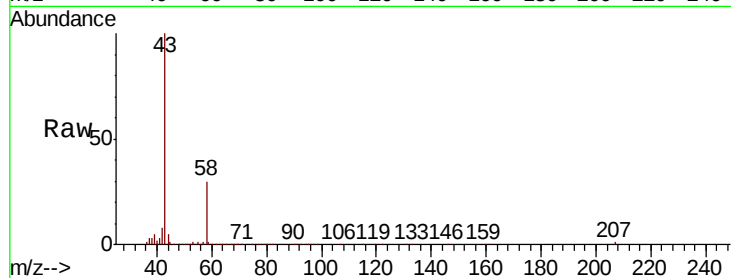
T9-12-13-T4-(1.9)

Tgt Ion: 43 Resp: 61476

Ion Ratio Lower Upper

43 100

58 29.5 23.8 35.8



#18

Methyl Acetate

Concen: 2.433 ug/l

RT: 2.76 min Scan# 307

Delta R.T. 0.00 min

Lab File: VX012004.D

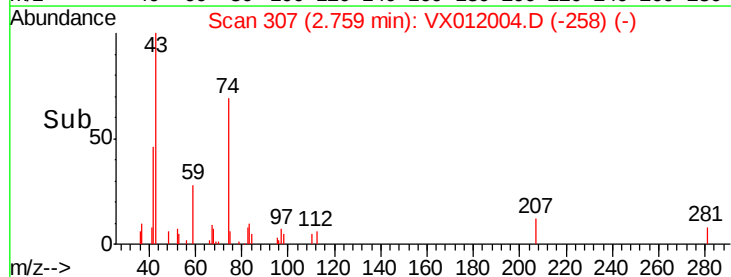
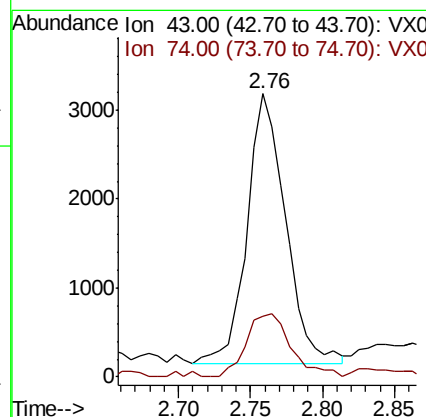
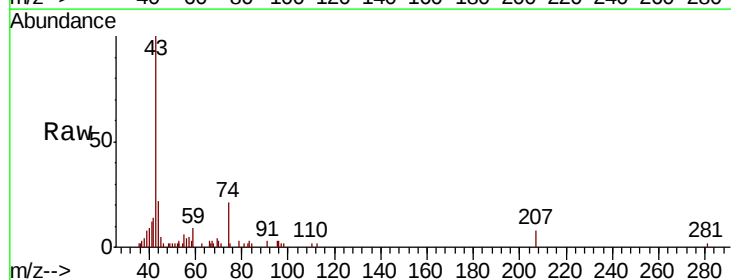
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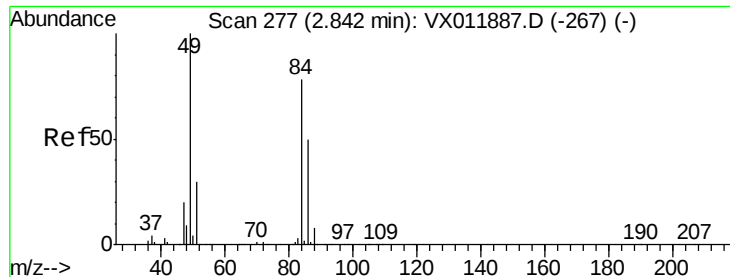
Tgt Ion: 43 Resp: 5601

Ion Ratio Lower Upper

43 100

74 27.2 18.4 27.6

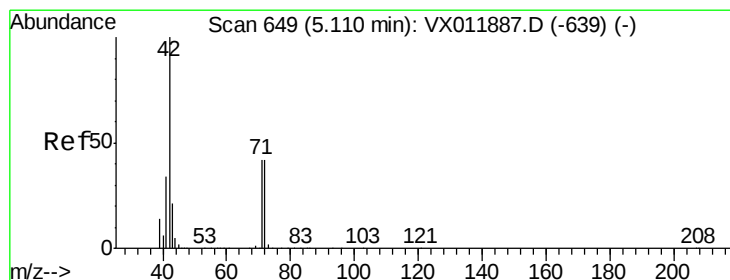
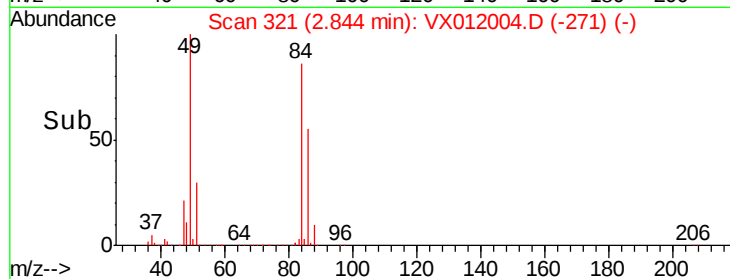
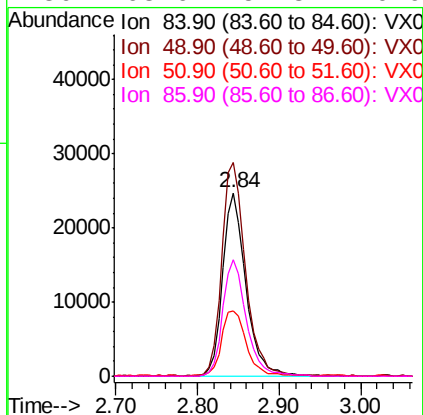
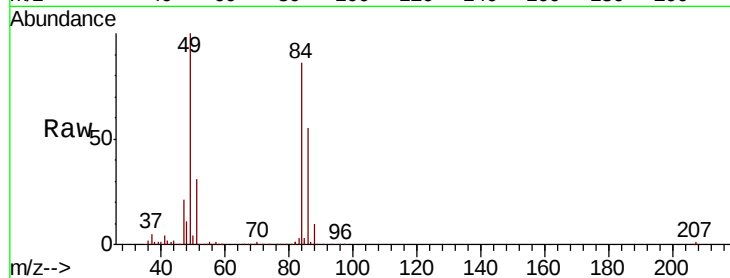




#20
Methylene Chloride
Concen: 9.850 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX012004.D
Acq: 01 Sep 2019 20:47

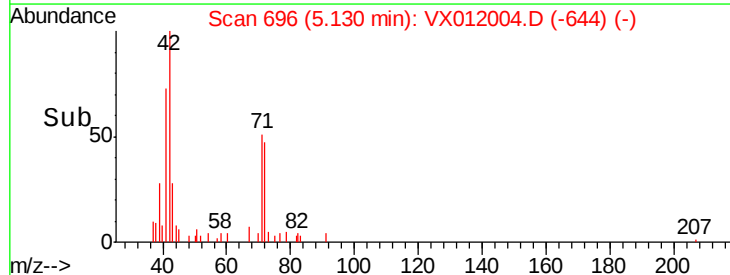
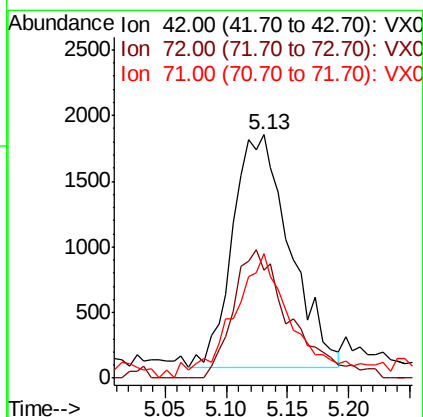
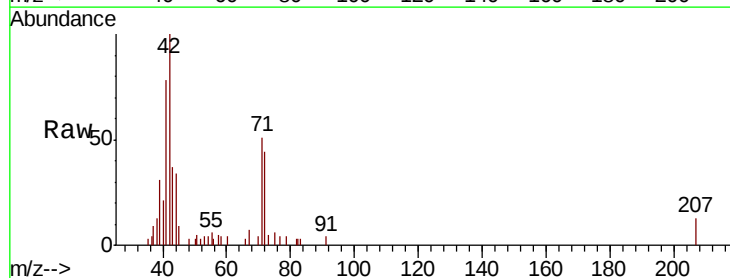
Instrument :
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ClientSampleId :
T9-12-13-T4-(1.9)

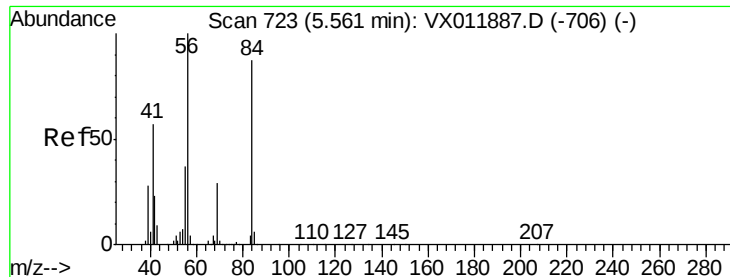
Tgt Ion: 84 Resp: 48945
Ion Ratio Lower Upper
84 100
49 115.9 103.0 154.4
51 35.5 30.8 46.2
86 63.6 51.3 76.9



#29
Tetrahydrofuran
Concen: 7.618 ug/l
RT: 5.13 min Scan# 696
Delta R.T. 0.02 min
Lab File: VX012004.D
Acq: 01 Sep 2019 20:47

Tgt Ion: 42 Resp: 5759
Ion Ratio Lower Upper
42 100
72 55.6 36.2 54.4#
71 56.2 33.1 49.7#

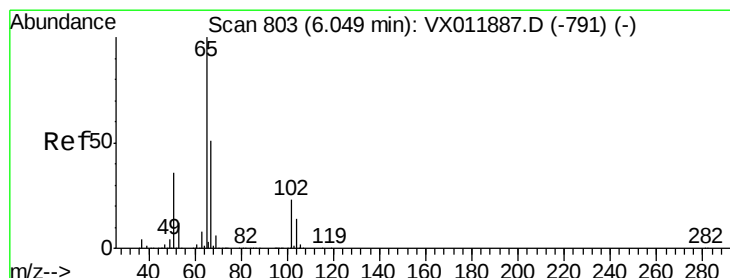
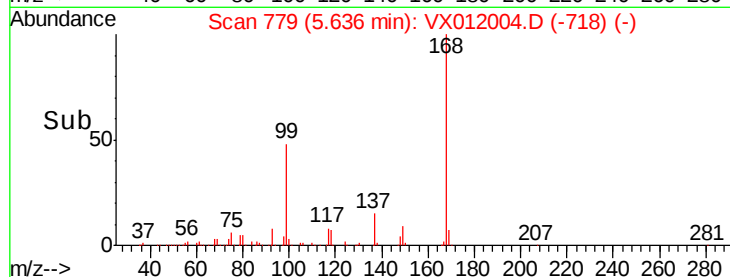
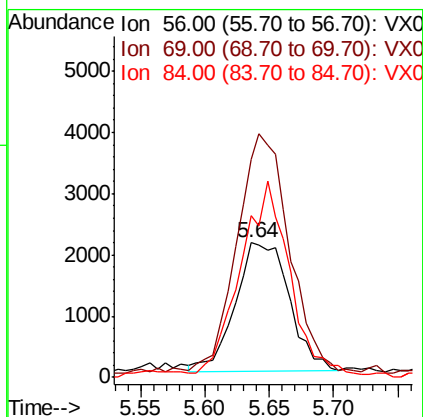
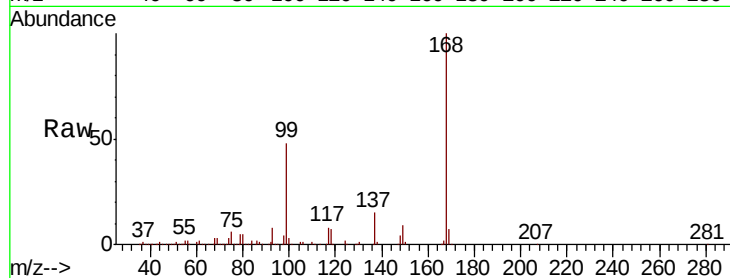




#31
Cyclohexane
Concen: 1.266 ug/l
RT: 5.64 min Scan# 779
Delta R.T. 0.07 min
Lab File: VX012004.D
Acq: 01 Sep 2019 20:47

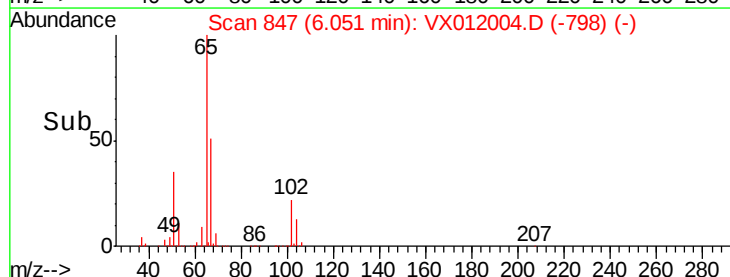
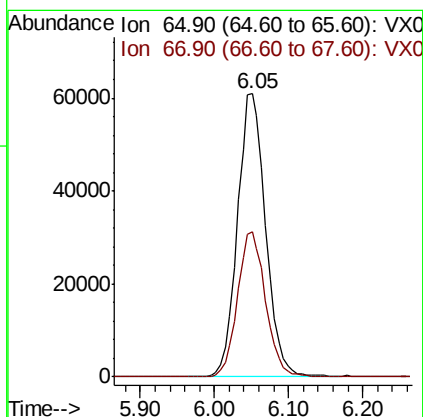
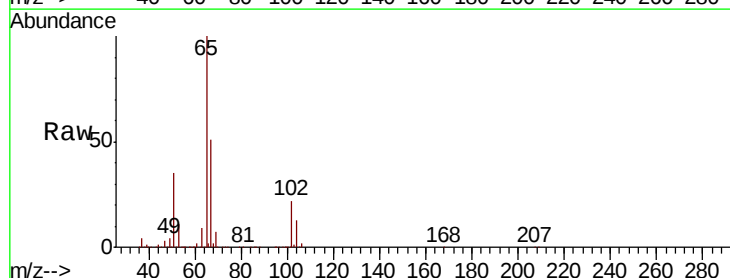
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T9-12-13-T4-(1.9)

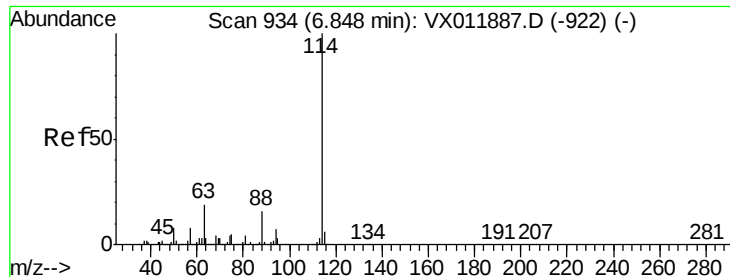
Tgt Ion: 56 Resp: 6111
Ion Ratio Lower Upper
56 100
69 165.8 23.1 34.7#
84 123.5 69.6 104.4#



#33
1,2-Dichloroethane-d4
Concen: 41.802 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX012004.D
Acq: 01 Sep 2019 20:47

Tgt Ion: 65 Resp: 161570
Ion Ratio Lower Upper
65 100
67 50.5 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: VX012004.D

Acq: 01 Sep 2019 20:47

Instrument :

MSVOA_X

ClientSampleId :

T9-12-13-T4-(1.9)

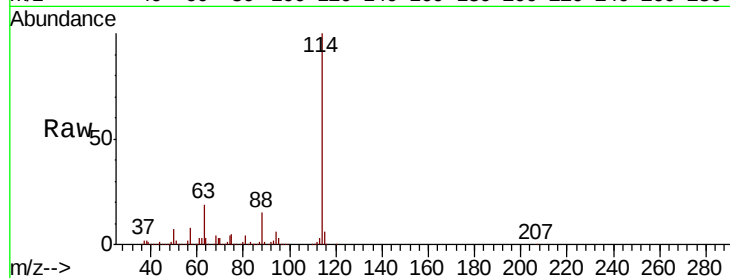
Tgt Ion:114 Resp: 519755

Ion Ratio Lower Upper

114 100

63 18.6 0.0 38.8

88 15.1 0.0 31.2



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

300000

250000

200000

150000

100000

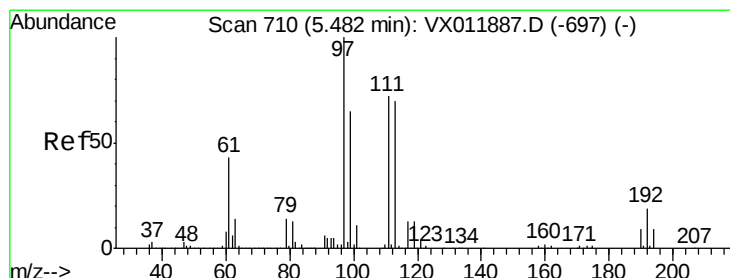
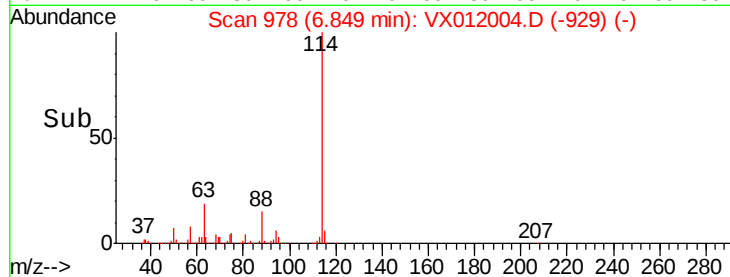
50000

0

6.85

6.70 6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 44.769 ug/l

RT: 5.48 min Scan# 754

Delta R.T. 0.00 min

Lab File: VX012004.D

Acq: 01 Sep 2019 20:47

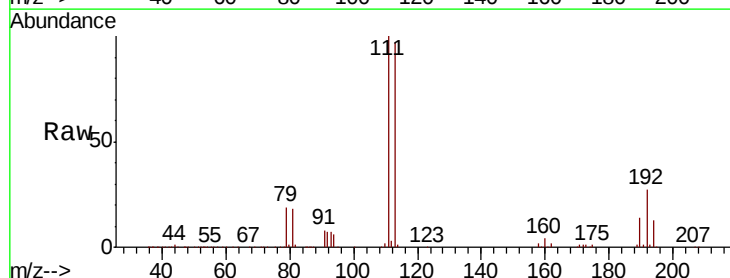
Tgt Ion:113 Resp: 149211

Ion Ratio Lower Upper

113 100

111 102.1 82.1 123.1

192 28.3 21.5 32.3



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

60000

40000

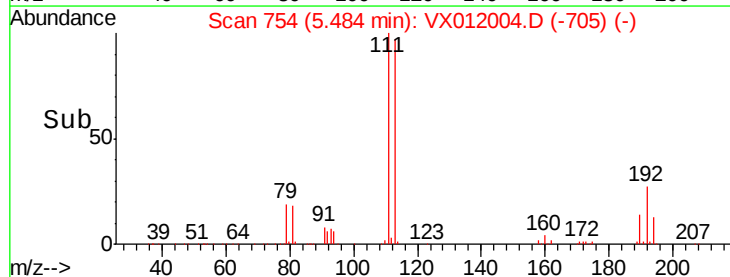
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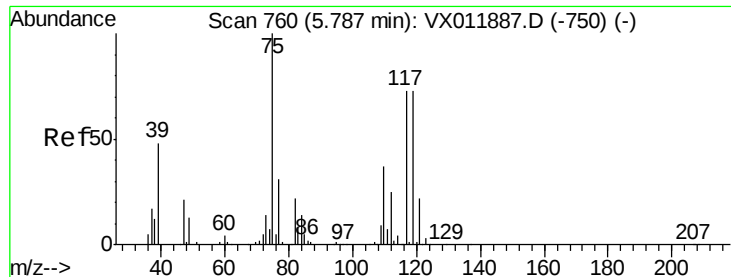
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5.48

5.40 5.50 5.60

Time-->

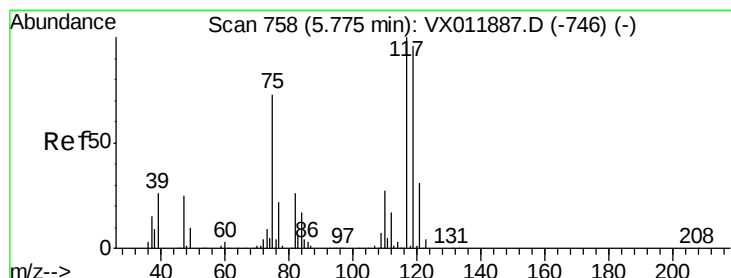
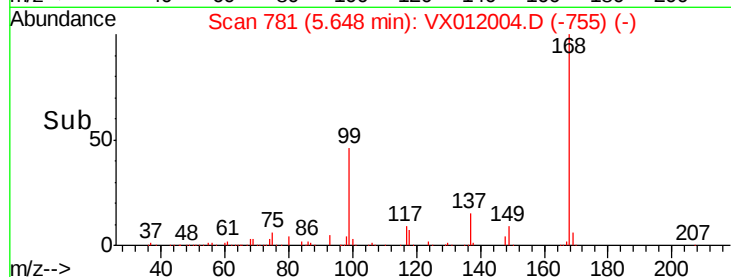
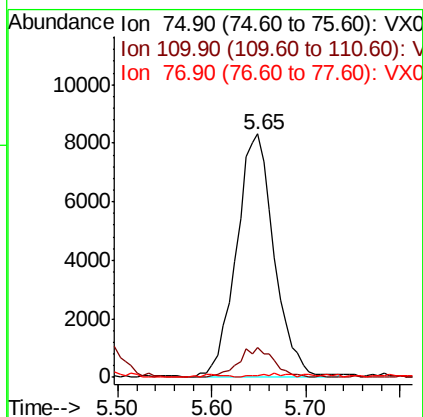
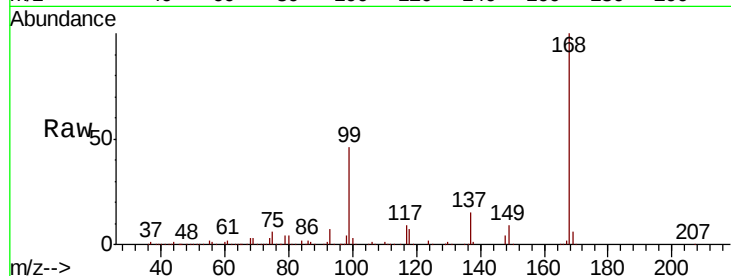




#36
 1,1-Dichloropropene
 Concen: 5.657 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX012004.D
 Acq: 01 Sep 2019 20:47

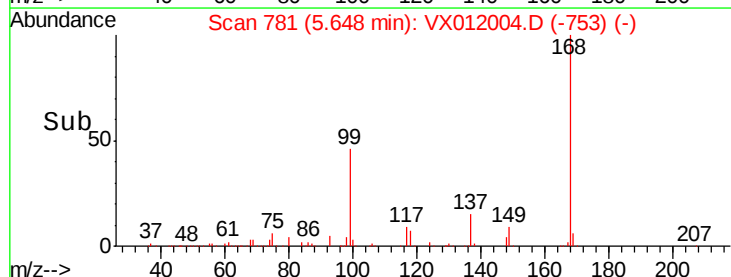
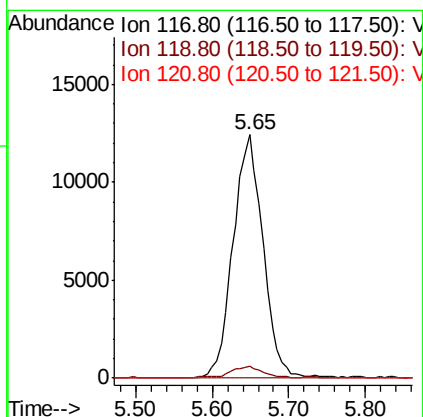
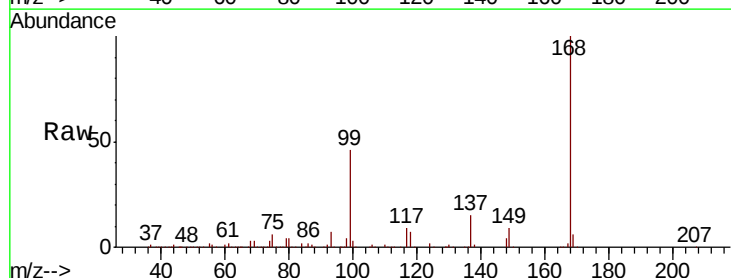
Instrument :
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 T9-12-13-T4-(1.9)

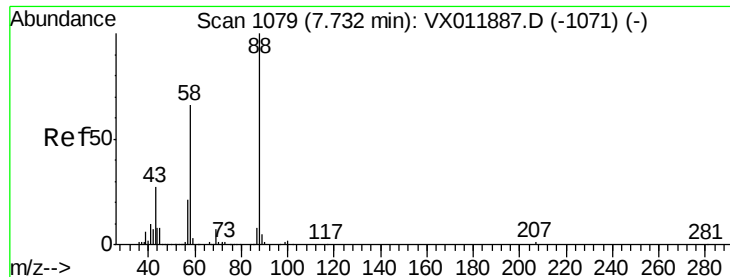
Tgt Ion: 75 Resp: 23292
 Ion Ratio Lower Upper
 75 100
 110 11.5 19.1 57.3#
 77 1.1 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 7.072 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX012004.D
 Acq: 01 Sep 2019 20:47

Tgt Ion: 117 Resp: 33773
 Ion Ratio Lower Upper
 117 100
 119 4.8 76.6 114.8#
 121 0.0 24.7 37.1#

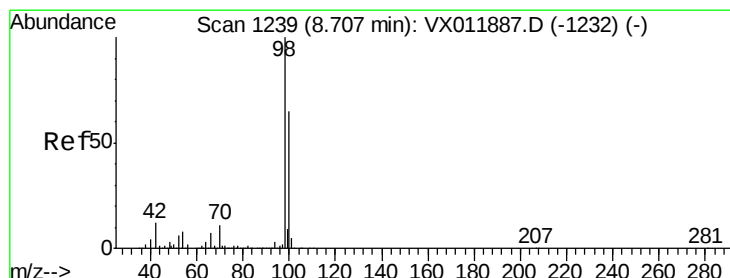
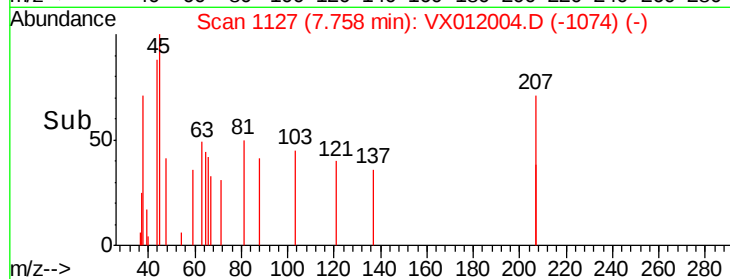
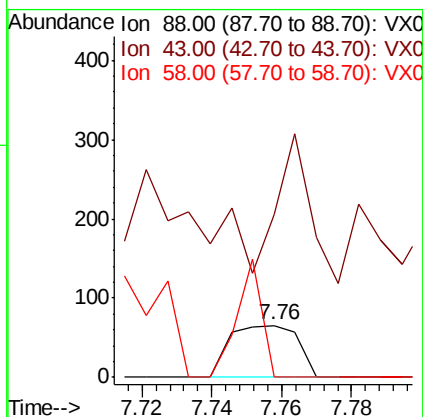
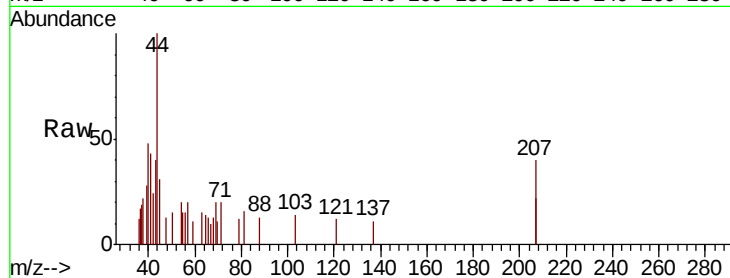




#49
 1,4-Dioxane
 Concen: 2.692 ug/l
 RT: 7.76 min Scan# 1127
 Delta R.T. 0.03 min
 Lab File: VX012004.D
 Acq: 01 Sep 2019 20:47

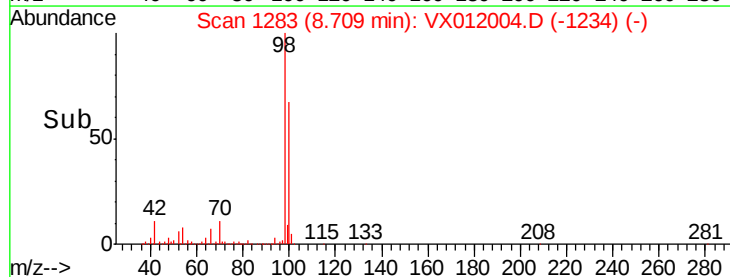
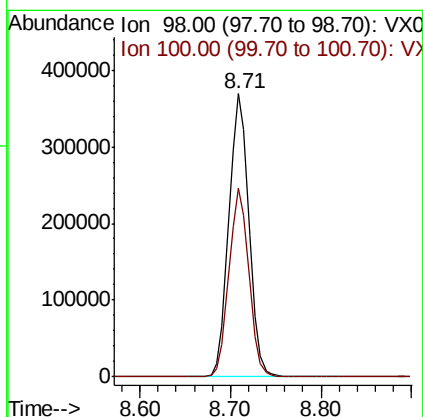
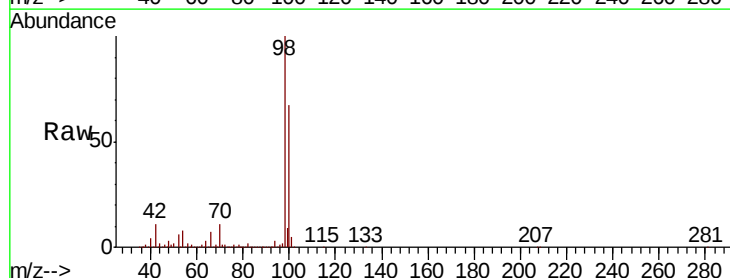
Instrument :
 MSVOA_X
 ClientSampleId :
 T9-12-13-T4-(1.9)

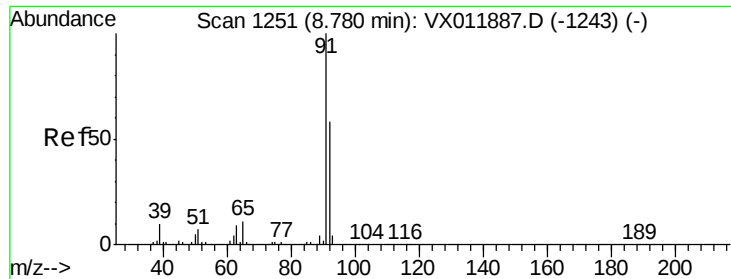
Tgt Ion: 88 Resp: 89
 Ion Ratio Lower Upper
 88 100
 43 138.2 27.3 40.9#
 58 84.3 53.9 80.9#



#50
 Toluene-d8
 Concen: 47.666 ug/l
 RT: 8.71 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VX012004.D
 Acq: 01 Sep 2019 20:47

Tgt Ion: 98 Resp: 567897
 Ion Ratio Lower Upper
 98 100
 100 66.1 53.0 79.6





#52

Toluene

Concen: 1.020 ug/l

RT: 8.78 min Scan# 1294

Delta R.T. -0.00 min

Lab File: VX012004.D

Acq: 01 Sep 2019 20:47

Instrument :

MSVOA_X

ClientSampleId :

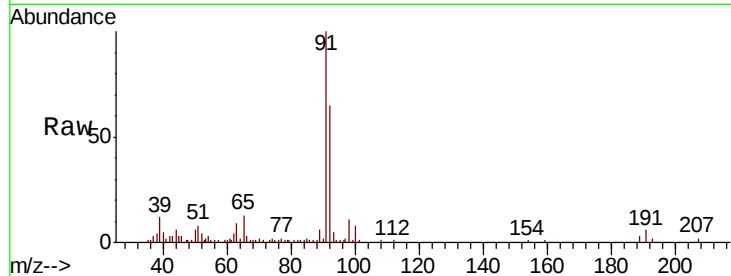
T9-12-13-T4-(1.9)

Tgt Ion: 92 Resp: 8294

Ion Ratio Lower Upper

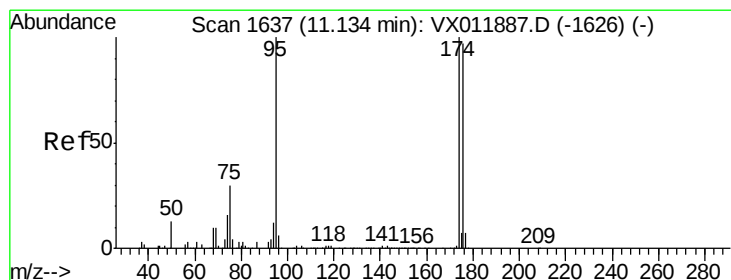
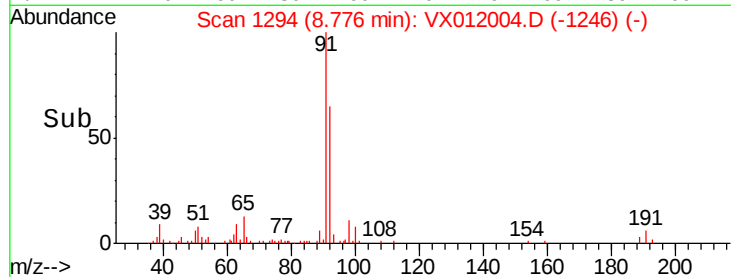
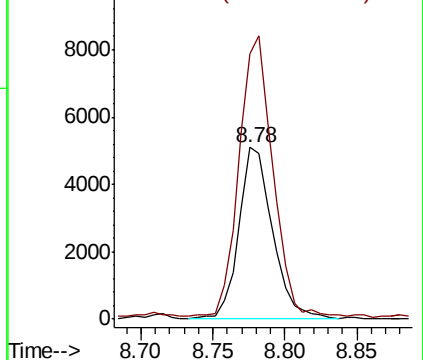
92 100

91 163.7 136.8 205.2



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 34.969 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012004.D

Acq: 01 Sep 2019 20:47

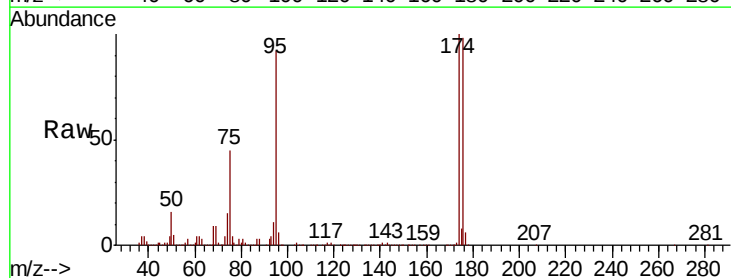
Tgt Ion: 95 Resp: 182756

Ion Ratio Lower Upper

95 100

174 104.0 0.0 196.0

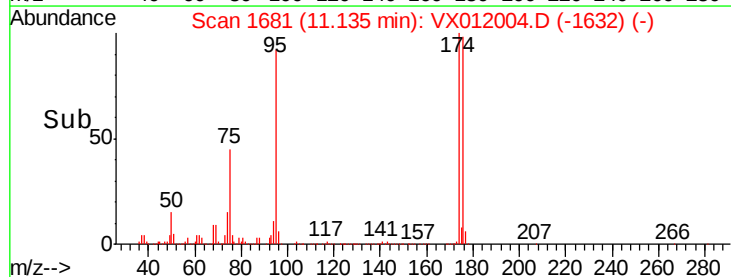
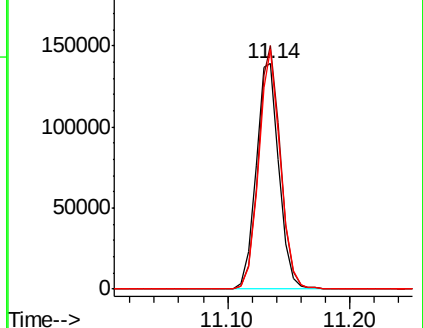
176 100.3 0.0 191.4

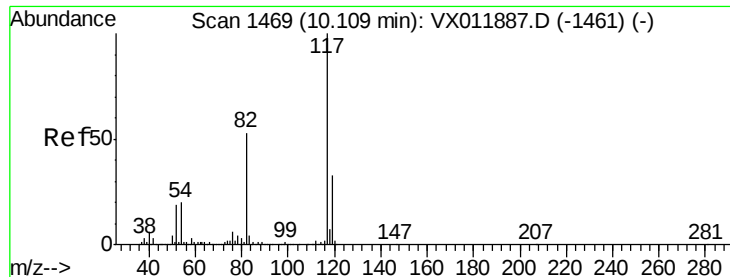


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

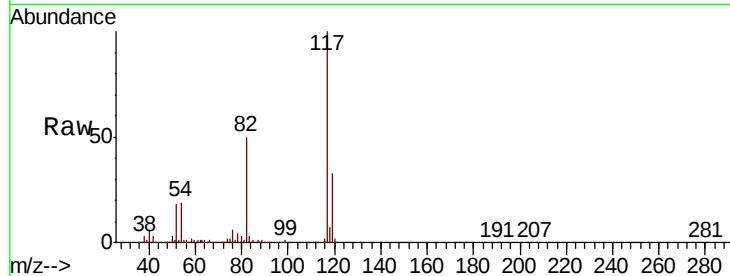




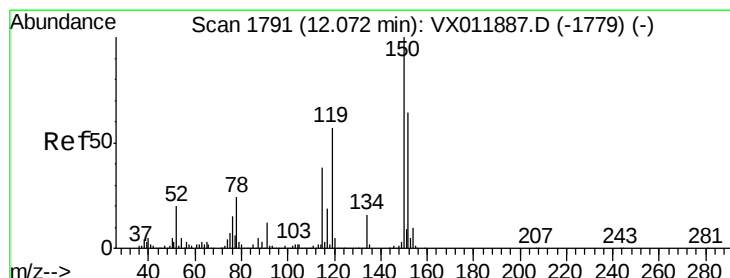
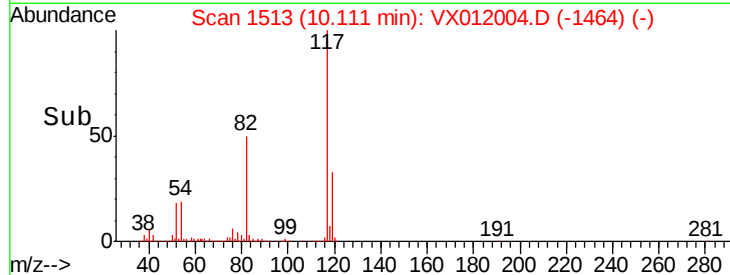
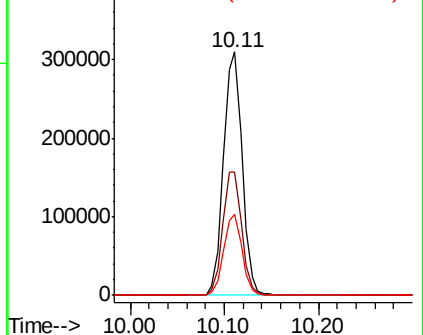
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012004.D
Acq: 01 Sep 2019 20:47

Instrument :
MSVOA_X
ClientSampleId :
T9-12-13-T4-(1.9)

Tgt Ion:117 Resp: 426442
Ion Ratio Lower Upper
117 100
82 50.4 42.0 63.0
119 33.0 26.2 39.4

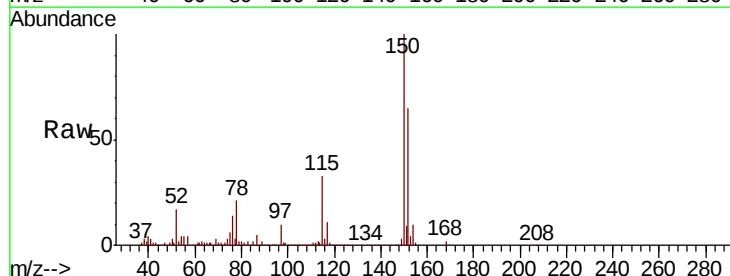


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

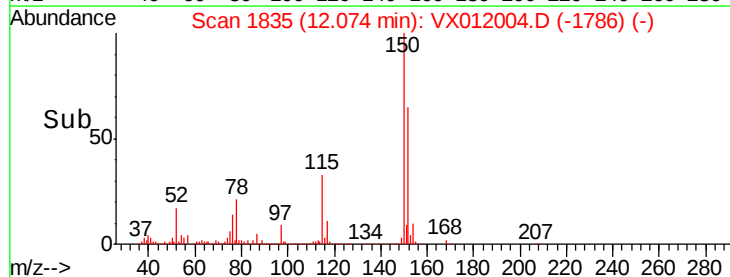
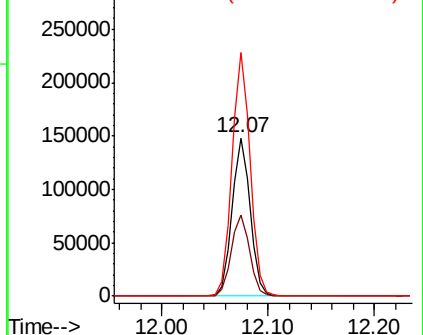


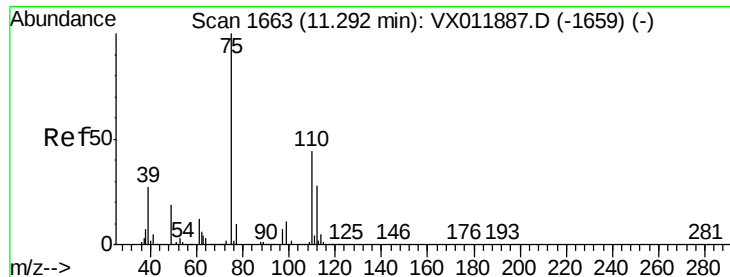
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012004.D
Acq: 01 Sep 2019 20:47

Tgt Ion:152 Resp: 177602
Ion Ratio Lower Upper
152 100
115 51.9 37.1 111.3
150 154.2 0.0 339.6



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: 52.577 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012004.D

Acq: 01 Sep 2019 20:47

Instrument :

MSVOA_X

ClientSampleId :

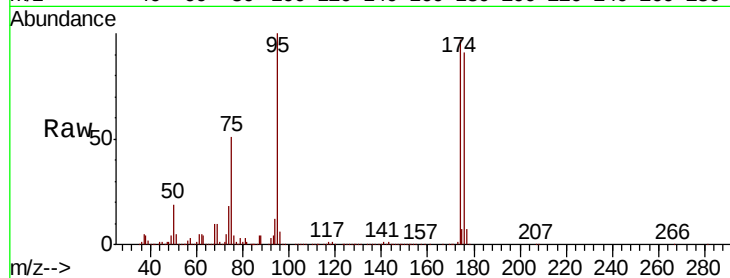
T9-12-13-T4-(1.9)

Tgt Ion: 75 Resp: 91857

Ion Ratio Lower Upper

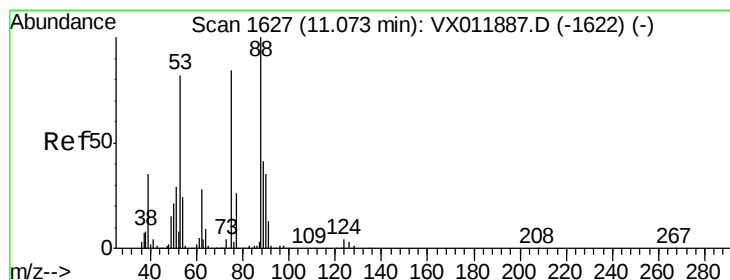
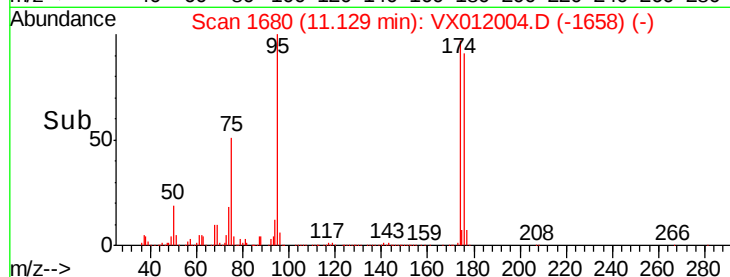
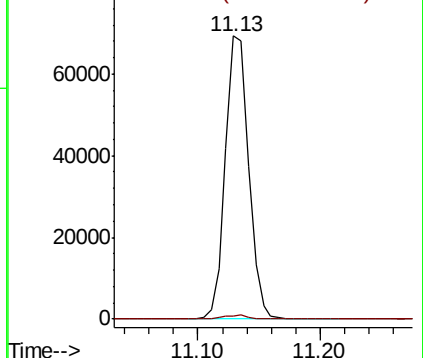
75 100

77 1.6 20.9 62.7#



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: 132.084 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012004.D

Acq: 01 Sep 2019 20:47

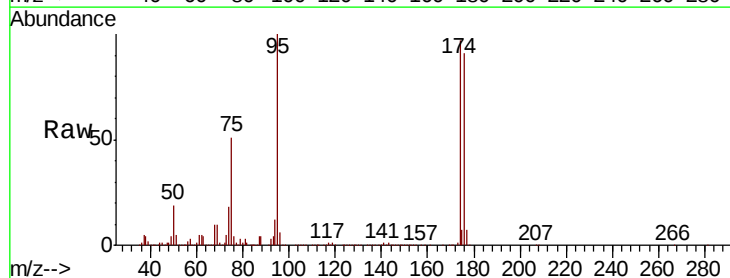
Tgt Ion: 75 Resp: 91857

Ion Ratio Lower Upper

75 100

53 0.2 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

