

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101019\
 Data File : VX012992.D
 Acq On : 10 Oct 2019 13:47
 Operator : JC/SP
 Sample : K5291-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-JMW1860

Quant Time: Oct 11 04:36:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 01:51:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	181066	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	295764	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	251042	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	95177	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	115401	50.99	ug/l	0.00
Spiked Amount			Recovery	=	101.98%	
35) Dibromofluoromethane	5.49	113	88925	52.38	ug/l	0.00
Spiked Amount			Recovery	=	104.76%	
50) Toluene-d8	8.71	98	346404	52.32	ug/l	0.00
Spiked Amount			Recovery	=	104.64%	
62) 4-Bromofluorobenzene	11.14	95	116824	45.41	ug/l	0.00
Spiked Amount			Recovery	=	90.82%	

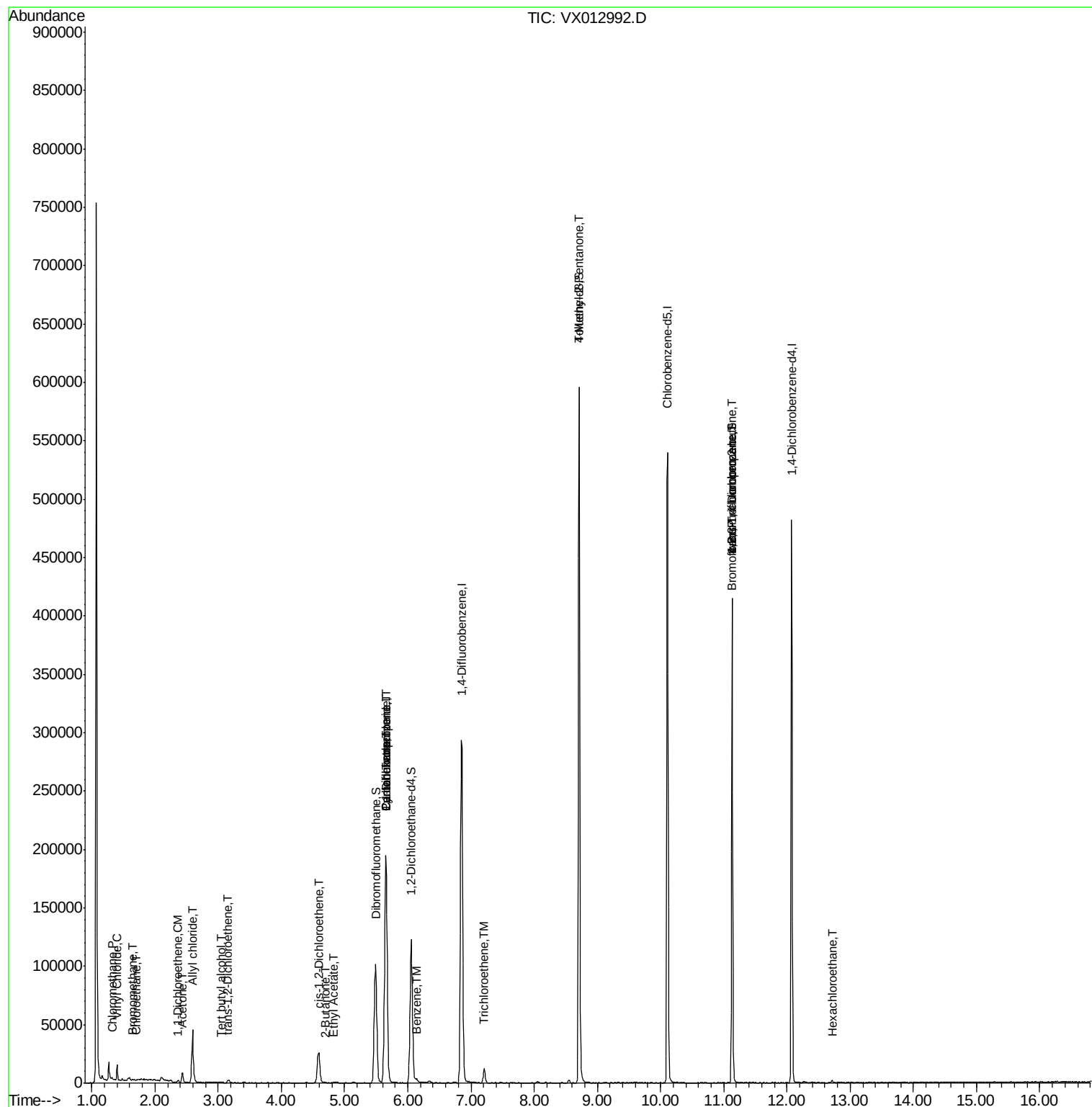
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1007	0.501	ug/l	96
4) Vinyl Chloride	1.40	62	7179	3.463	ug/l	97
5) Bromomethane	1.64	94	310	0.360	ug/l	90
6) Chloroethane	1.71	64	790	0.987	ug/l #	63
11) Tert butyl alcohol	3.03	59	1122	1.870	ug/l #	77
12) 1,1-Dichloroethene	2.37	96	659	0.360	ug/l #	70
14) Allyl chloride	2.60	41	4475	1.373	ug/l #	63
16) Acetone	2.43	43	9242	7.748	ug/l	95
21) trans-1,2-Dichloroethene	3.15	96	1001	0.510	ug/l	84
25) 2-Butanone	4.70	43	337	0.204	ug/l #	49
27) cis-1,2-Dichloroethene	4.59	96	16667	7.373	ug/l	92
31) Cyclohexane	5.65	56	3895	1.186	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14111	5.427	ug/l #	49
37) Ethyl Acetate	4.83	43	1114	0.383	ug/l #	73
38) Carbon Tetrachloride	5.65	117	18982	7.500	ug/l #	17
40) Benzene	6.14	78	3765	0.490	ug/l	99
44) Trichloroethene	7.21	130	4930	2.315	ug/l	80
51) 4-Methyl-2-Pentanone	8.71	43	1712	0.588	ug/l #	1
71) Bromoform	11.12	173	206	3.264	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	57559	27.266	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	57559	68.471	ug/l #	10
90) Hexachloroethane	12.71	117	19	2.134	ug/l #	13

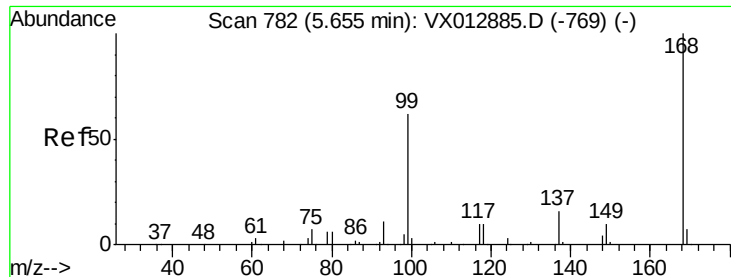
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 09 01:51:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX012992.D

Acq: 10 Oct 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

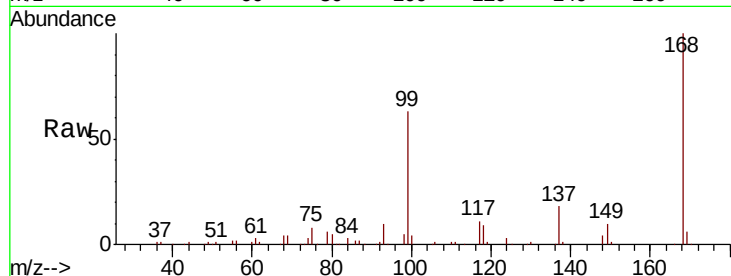
FA19-JMW1860

Tot Ion:168 Resp: 181066

Ion Ratio Lower Upper

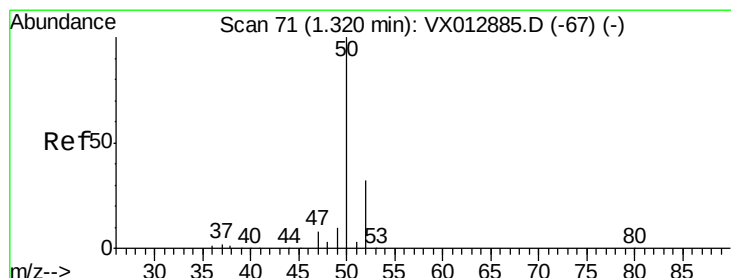
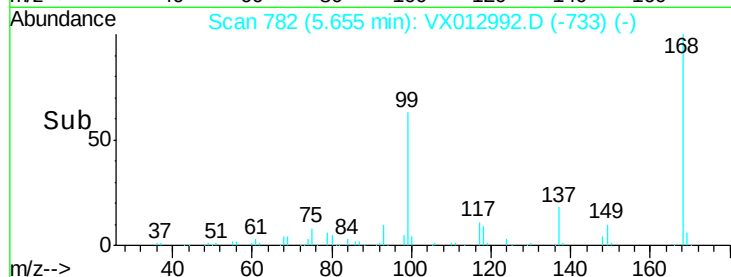
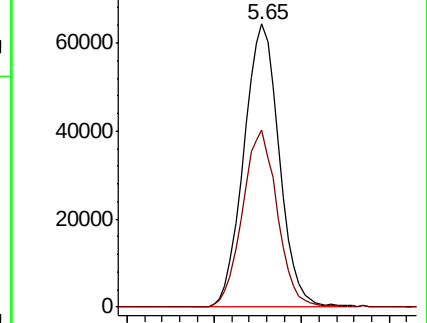
168 100

99 62.7 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.501 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX012992.D

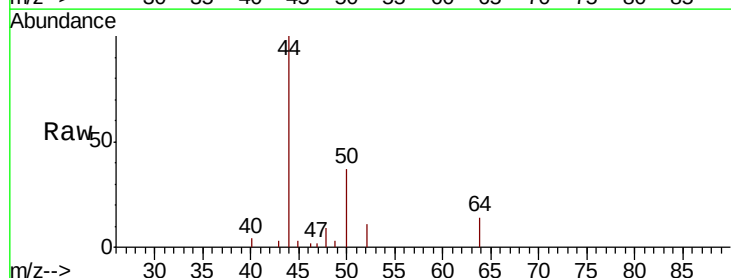
Acq: 10 Oct 2019 13:47

Tgt Ion: 50 Resp: 1007

Ion Ratio Lower Upper

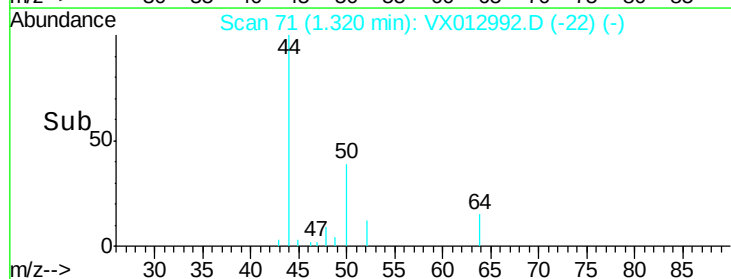
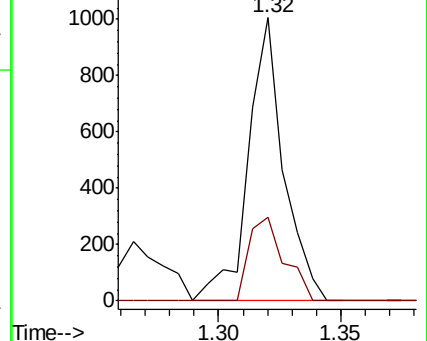
50 100

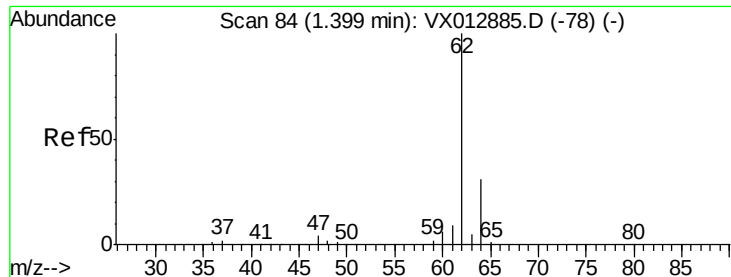
52 29.6 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 3.463 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX012992.D

Acq: 10 Oct 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

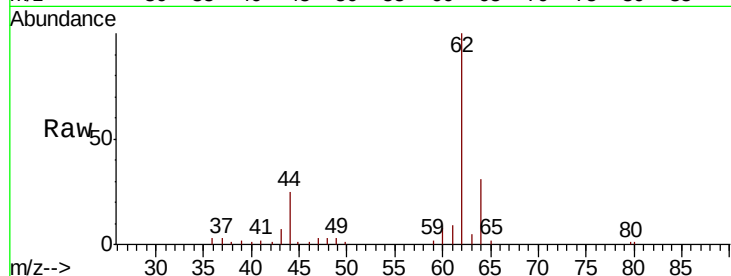
FA19-JMW1860

Tot Ion: 62 Resp: 7179

Ion Ratio Lower Upper

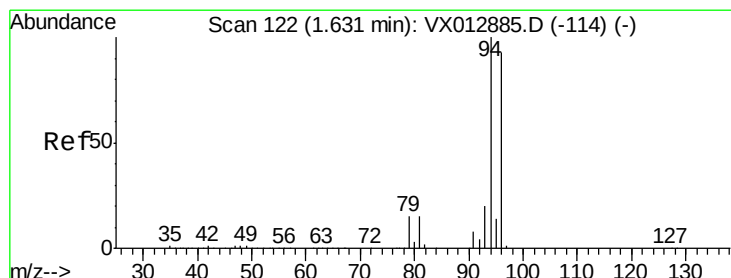
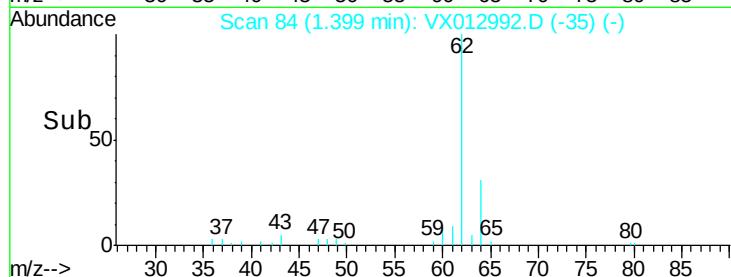
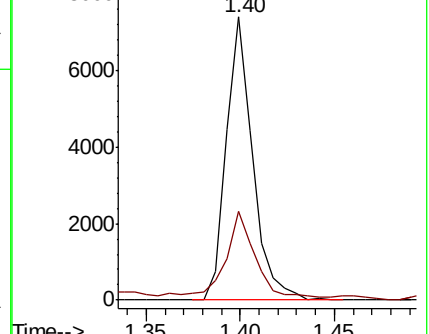
62 100

64 29.7 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.360 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX012992.D

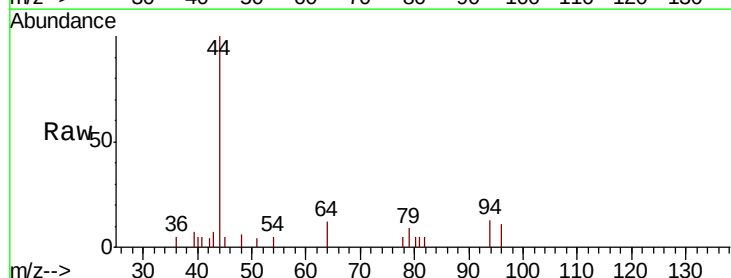
Acq: 10 Oct 2019 13:47

Tgt Ion: 94 Resp: 310

Ion Ratio Lower Upper

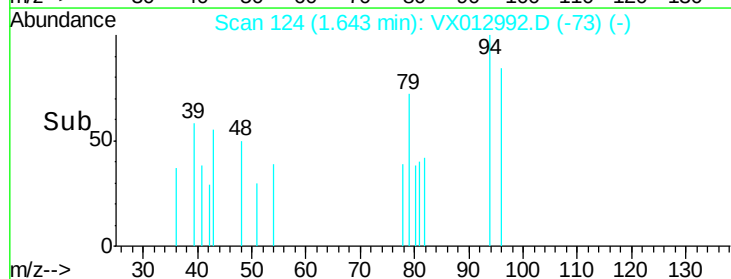
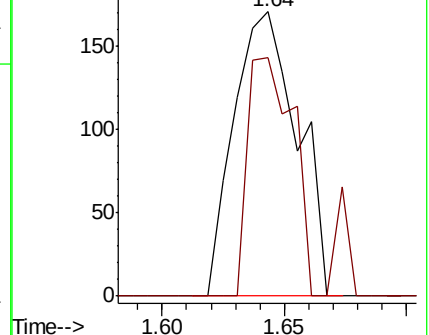
94 100

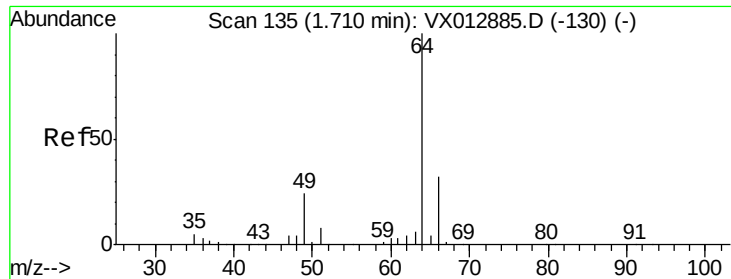
96 83.6 74.7 112.1



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.987 ug/l

RT: 1.71 min Scan# 135

Delta R.T. 0.00 min

Lab File: VX012992.D

Acq: 10 Oct 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

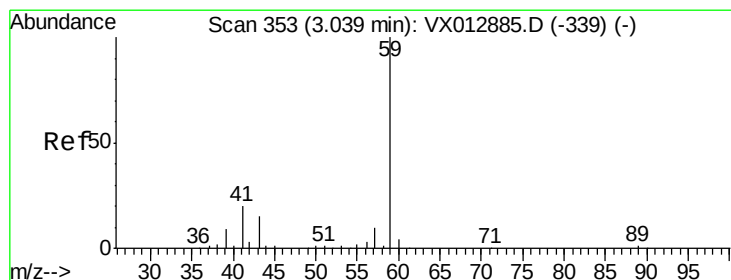
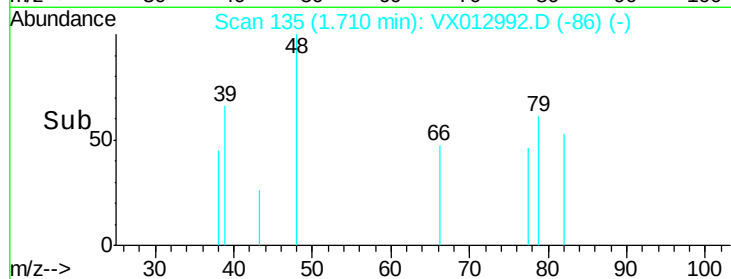
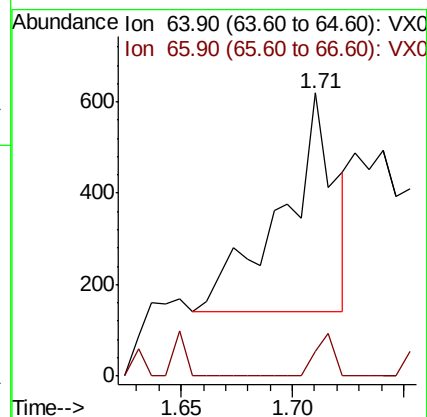
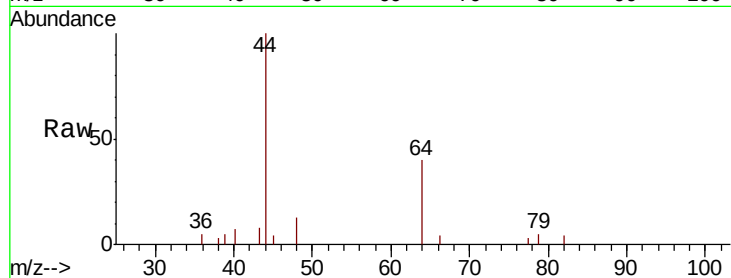
FA19-JMW1860

Tot Ion: 64 Resp: 790

Ion Ratio Lower Upper

64 100

66 11.3 25.6 38.4#



#11

Tert butyl alcohol

Concen: 1.870 ug/l

RT: 3.03 min Scan# 352

Delta R.T. -0.01 min

Lab File: VX012992.D

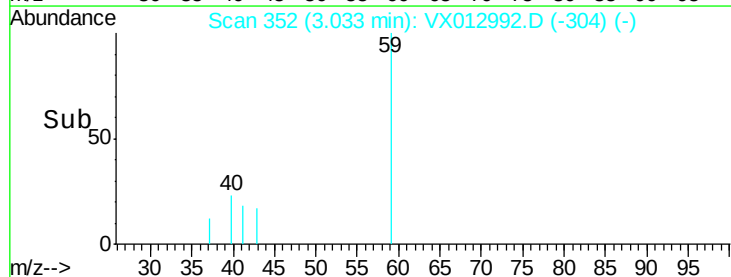
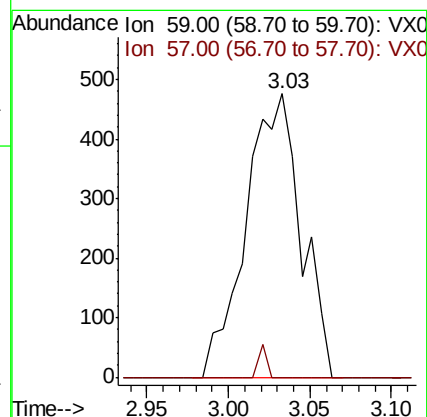
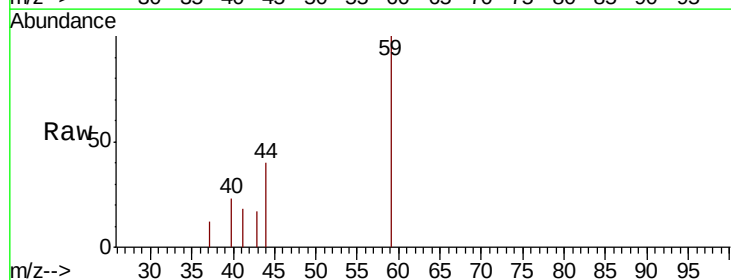
Acq: 10 Oct 2019 13:47

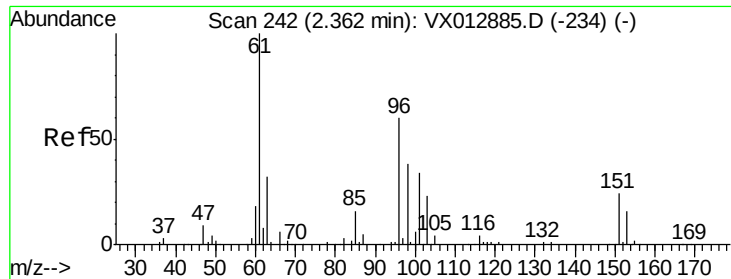
Tgt Ion: 59 Resp: 1122

Ion Ratio Lower Upper

59 100

57 1.8 8.3 12.5#





#12

1,1-Dichloroethene

Concen: 0.360 ug/l

RT: 2.37 min Scan# 243

Delta R.T. 0.01 min

Lab File: VX012992.D

Acq: 10 Oct 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

FA19-JMW1860

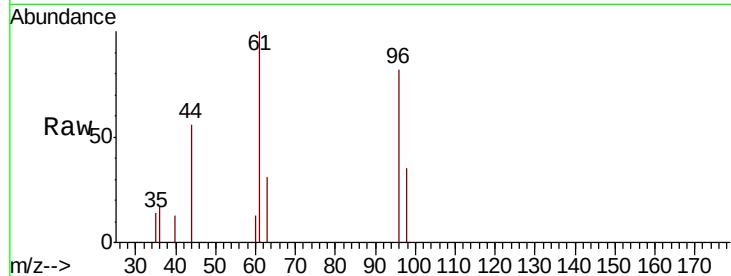
Tot Ion: 96 Resp: 659

Ion Ratio Lower Upper

96 100

61 122.2 132.2 198.4#

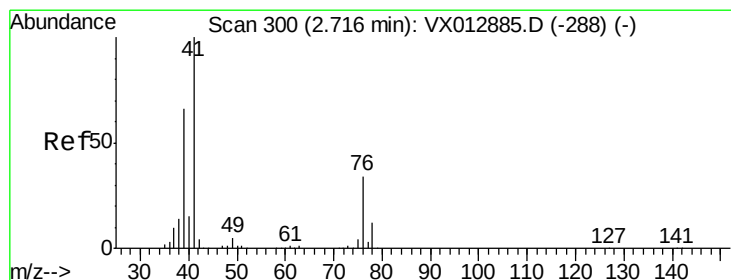
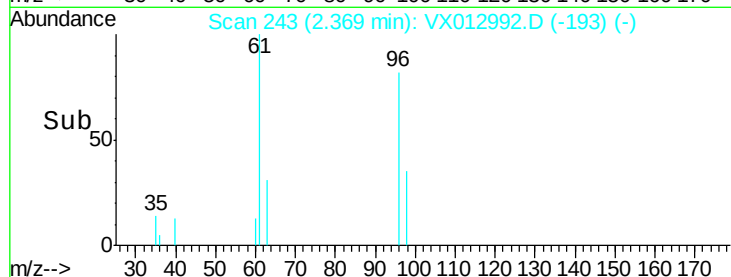
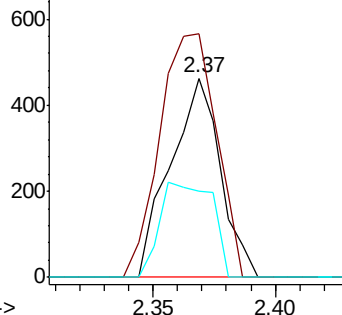
98 43.0 50.5 75.7#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#14

Allyl chloride

Concen: 1.373 ug/l

RT: 2.60 min Scan# 281

Delta R.T. -0.12 min

Lab File: VX012992.D

Acq: 10 Oct 2019 13:47

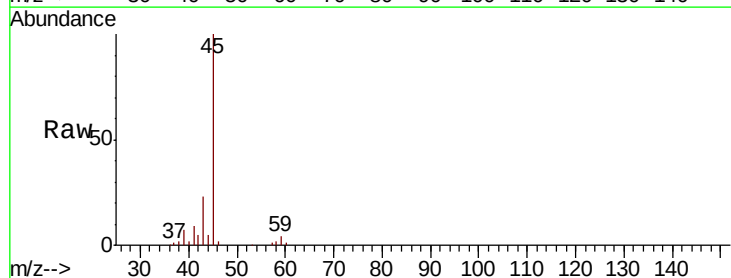
Tgt Ion: 41 Resp: 4475

Ion Ratio Lower Upper

41 100

39 84.6 51.0 76.6#

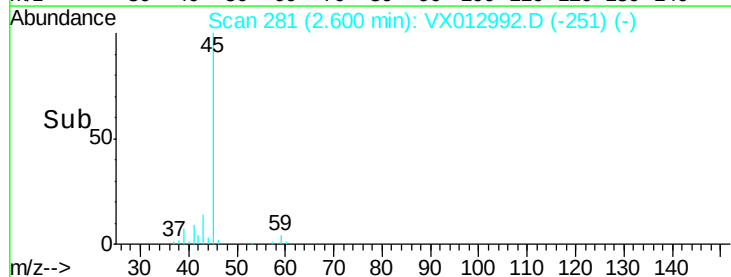
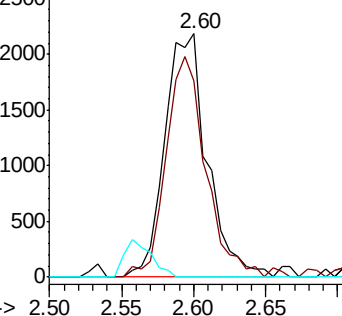
76 0.0 26.2 39.4#

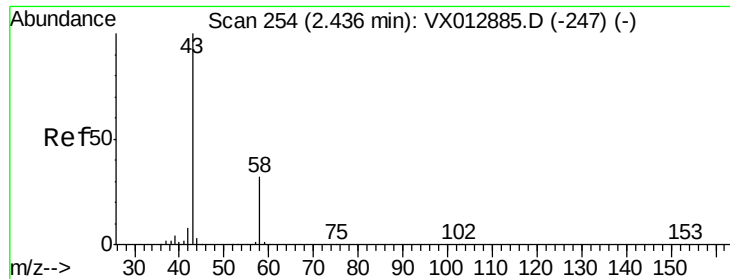


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0





#16

Acetone

Concen: 7.748 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012992.D

Acq: 10 Oct 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

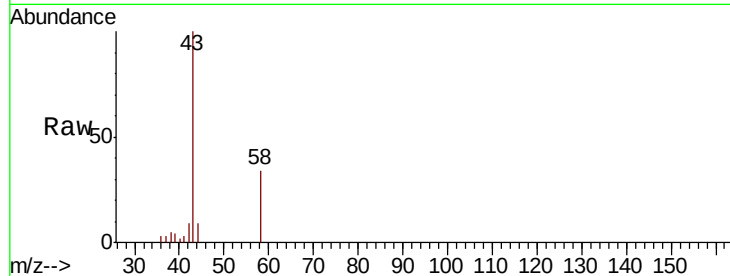
FA19-JMW1860

Tot Ion: 43 Resp: 9242

Ion Ratio Lower Upper

43 100

58 34.4 25.4 38.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

6000

5000

4000

3000

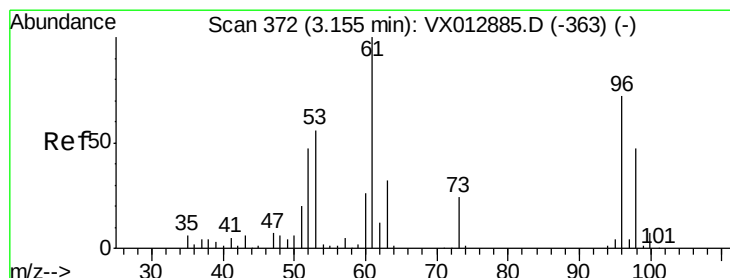
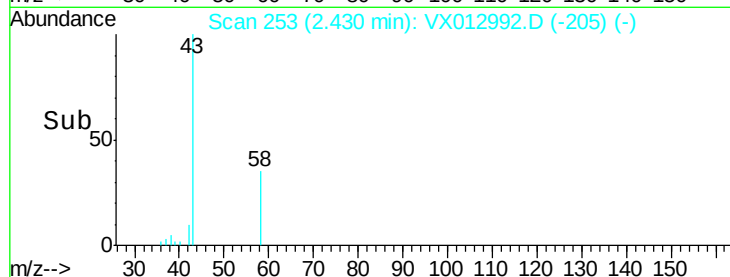
2000

1000

0

Time-->

2.35 2.40 2.45 2.50



#21

trans-1,2-Dichloroethene

Concen: 0.510 ug/l

RT: 3.15 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX012992.D

Acq: 10 Oct 2019 13:47

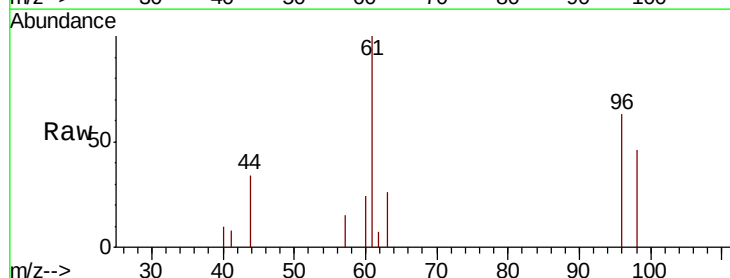
Tgt Ion: 96 Resp: 1001

Ion Ratio Lower Upper

96 100

61 159.6 110.4 165.6

98 72.7 51.5 77.3



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

1000

800

600

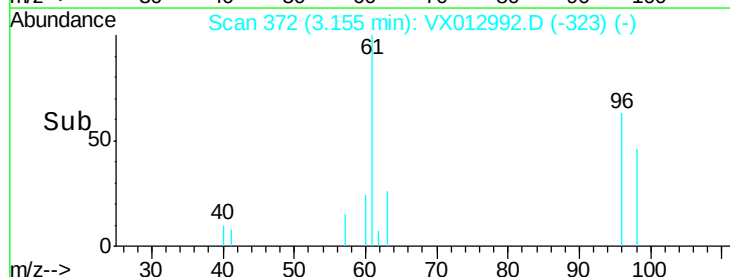
400

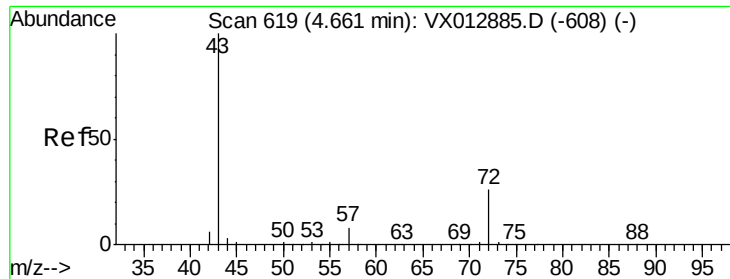
200

0

Time-->

3.10 3.15 3.20

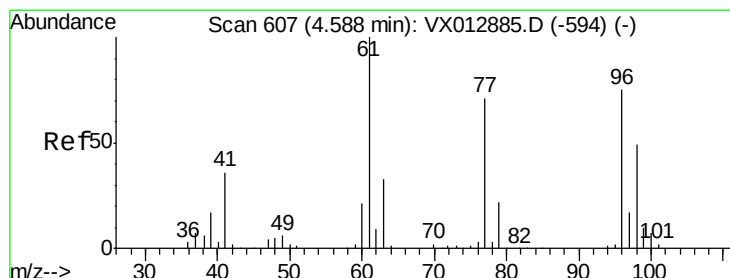
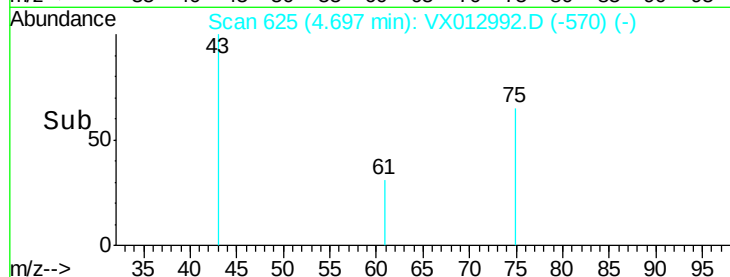
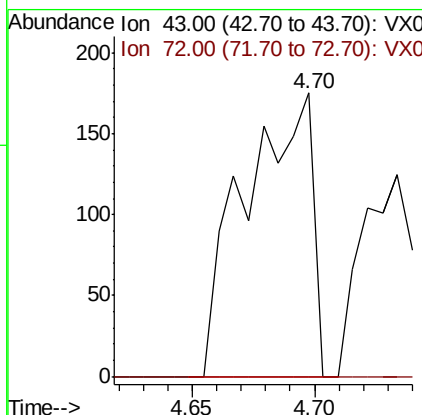
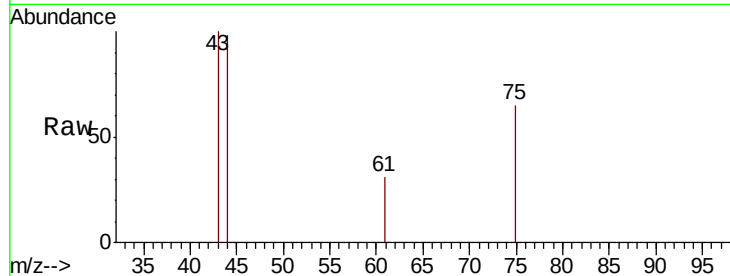




#25
 2-Butanone
 Concen: 0.204 ug/l
 RT: 4.70 min Scan# 625
 Delta R.T. 0.04 min
 Lab File: VX012992.D
 Acq: 10 Oct 2019 13:47

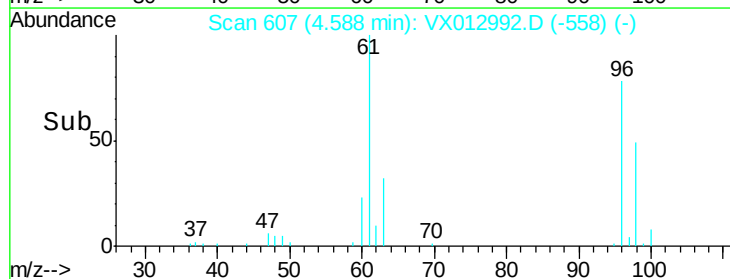
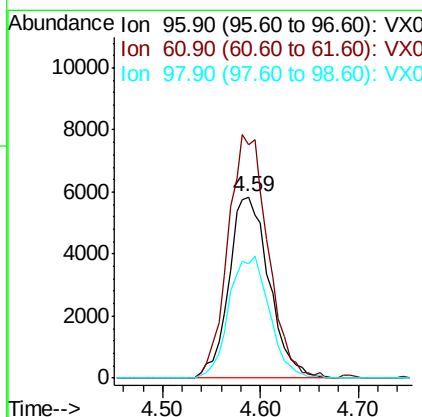
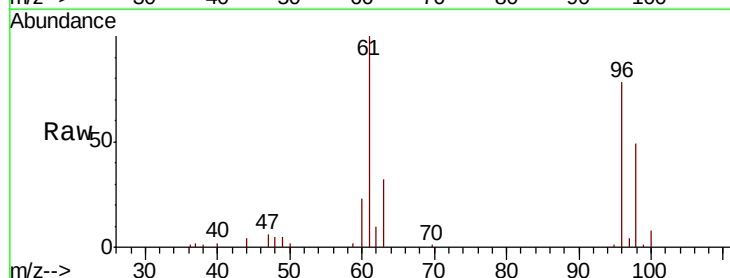
Instrument :
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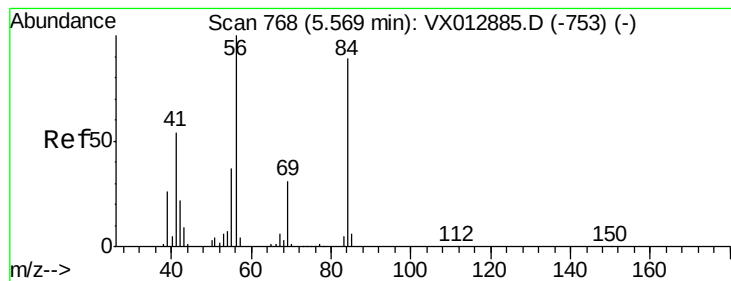
Tot Ion: 43 Resp: 337
 Ion Ratio Lower Upper
 43 100
 72 0.0 21.0 31.6#



#27
 cis-1,2-Dichloroethene
 Concen: 7.373 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. -0.00 min
 Lab File: VX012992.D
 Acq: 10 Oct 2019 13:47

Tgt Ion: 96 Resp: 16667
 Ion Ratio Lower Upper
 96 100
 61 133.2 0.0 290.6
 98 67.2 0.0 128.8





#31

Cyclohexane

Concen: 1.186 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.09 min

Lab File: VX012992.D

Acq: 10 Oct 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

FA19-JMW1860

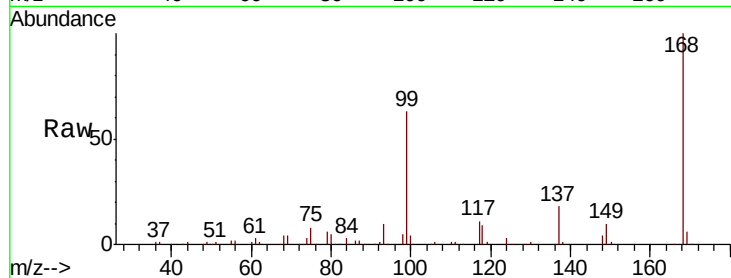
Tot Ion: 56 Resp: 3895

Ion Ratio Lower Upper

56 100

69 164.9 25.2 37.8#

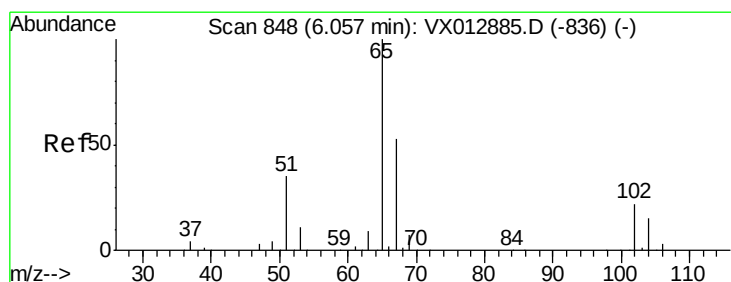
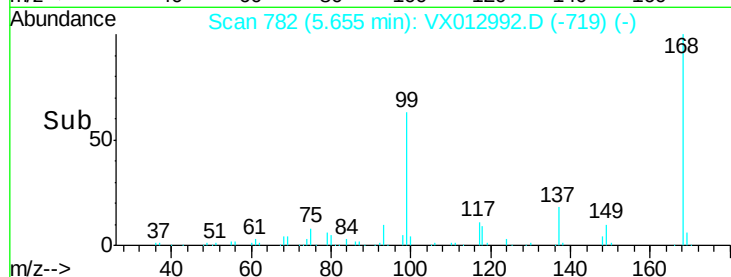
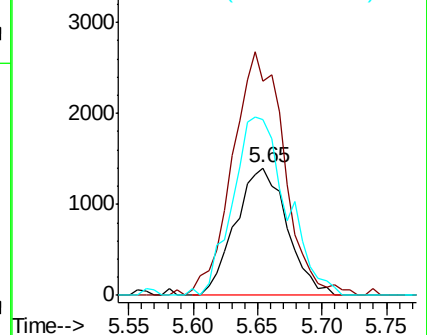
84 138.5 71.3 106.9#



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: 50.993 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.01 min

Lab File: VX012992.D

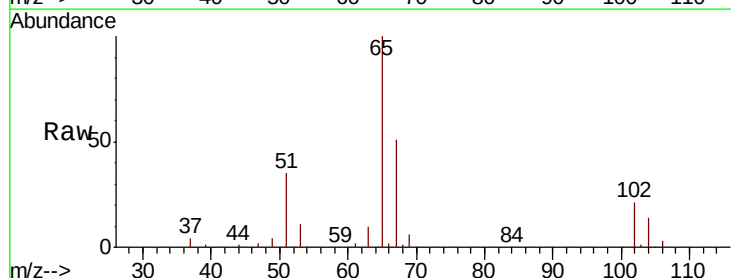
Acq: 10 Oct 2019 13:47

Tgt Ion: 65 Resp: 115401

Ion Ratio Lower Upper

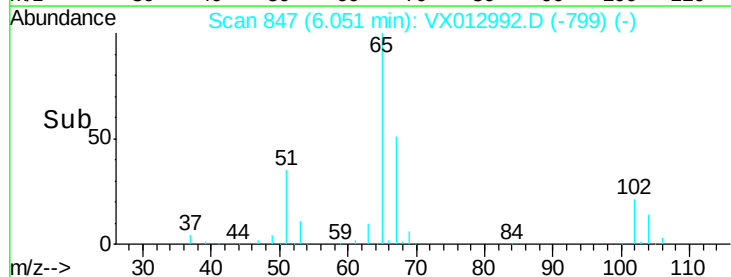
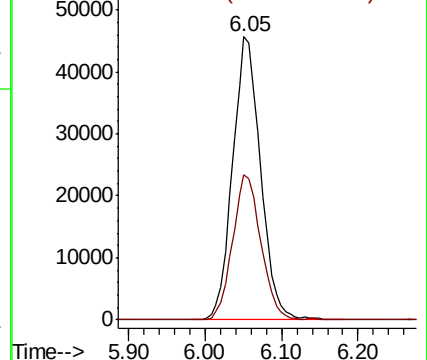
65 100

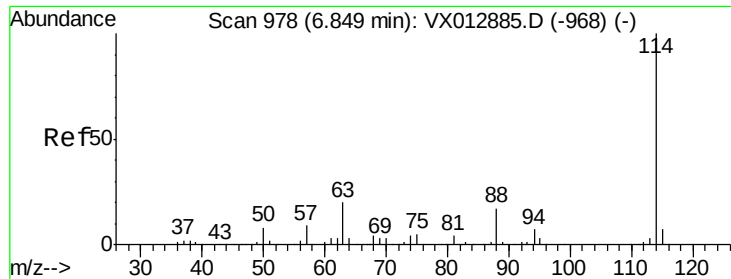
67 52.1 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

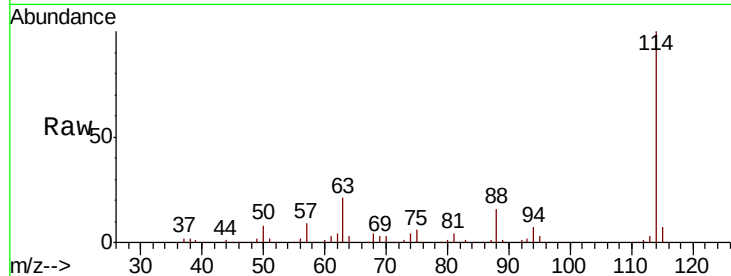




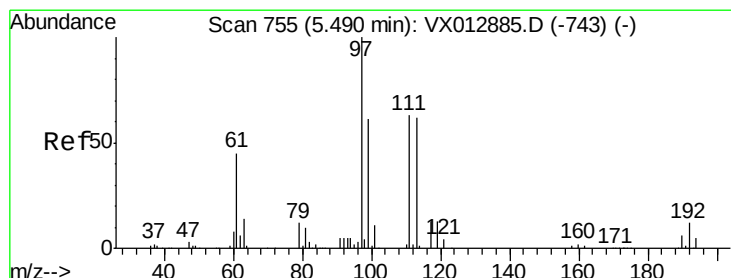
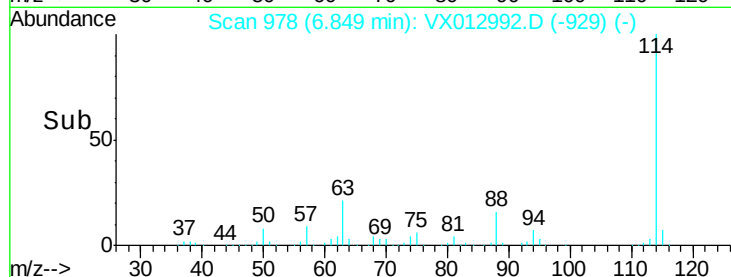
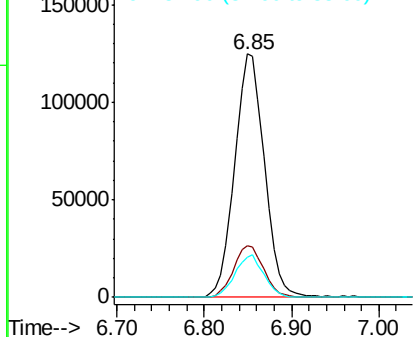
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX012992.D
 Acq: 10 Oct 2019 13:47

Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-JMW1860

Tot Ion:114 Resp: 295764
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 40.8
 88 16.4 0.0 33.8

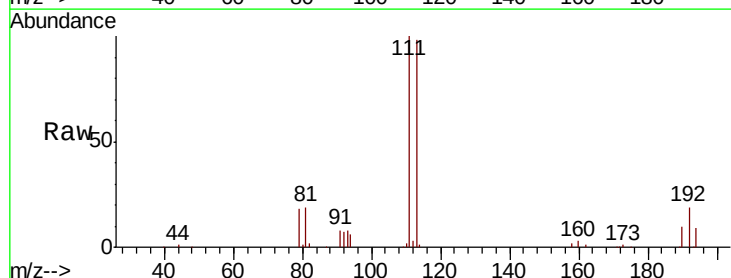


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

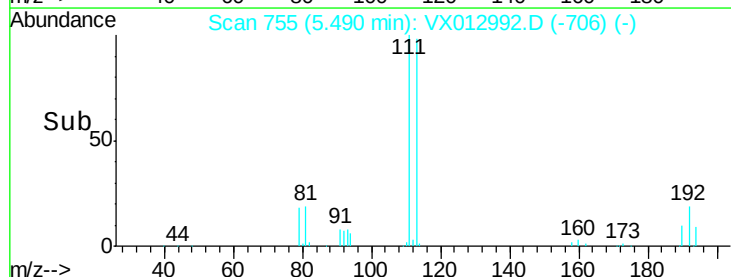
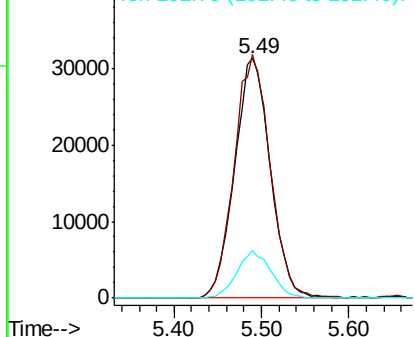


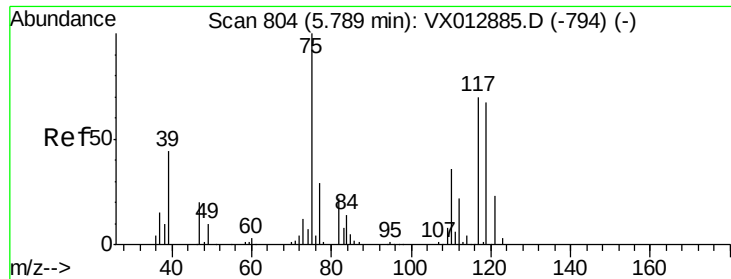
#35
 Dibromofluoromethane
 Concen: 52.385 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. -0.00 min
 Lab File: VX012992.D
 Acq: 10 Oct 2019 13:47

Tgt Ion:113 Resp: 88925
 Ion Ratio Lower Upper
 113 100
 111 102.1 83.2 124.8
 192 18.9 15.4 23.2



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

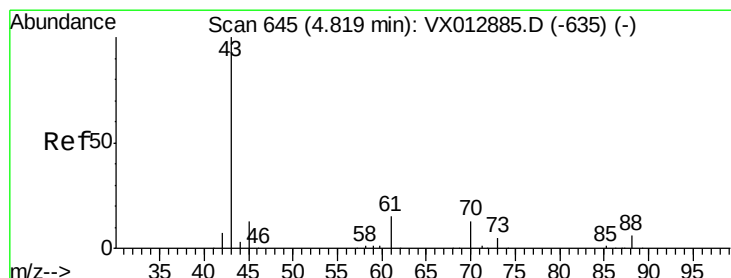
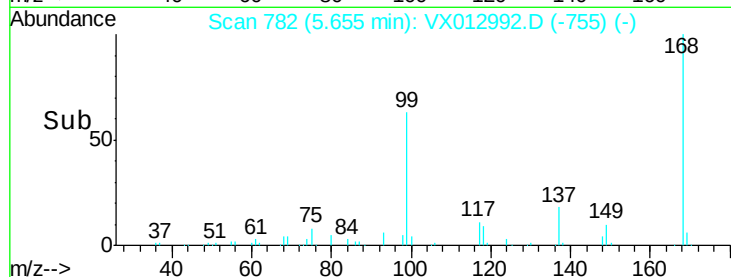
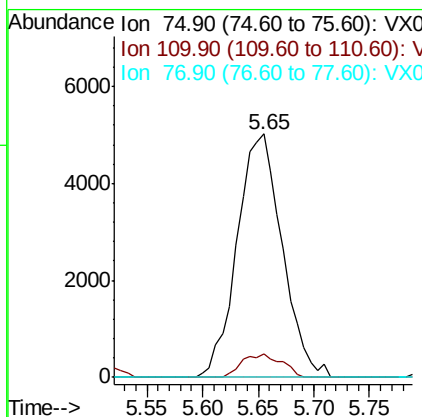
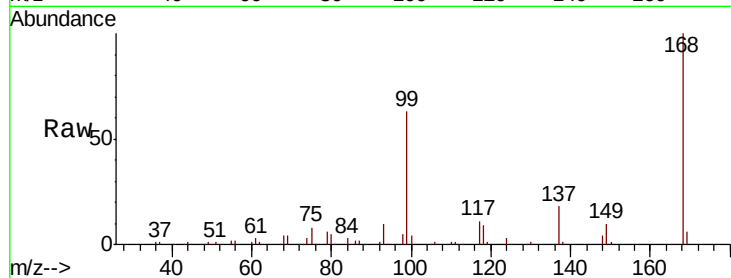




#36
 1,1-Dichloropropene
 Concen: 5.427 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX012992.D
 Acq: 10 Oct 2019 13:47

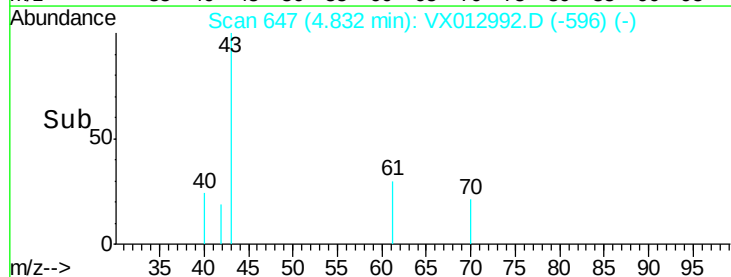
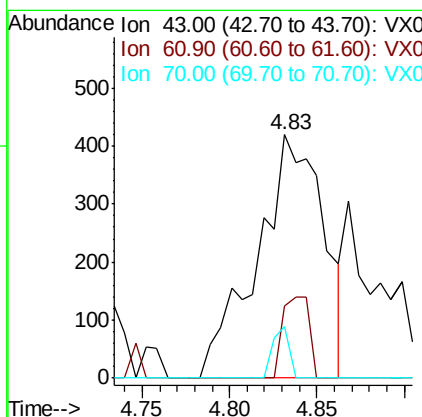
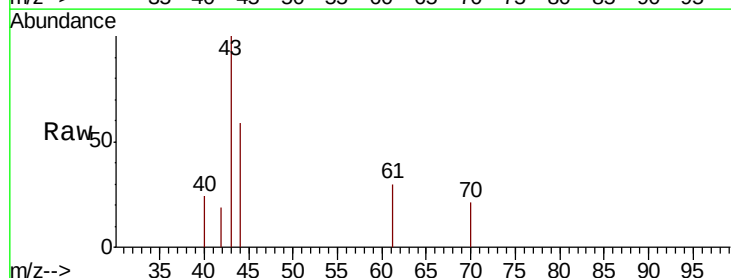
Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-JMW1860

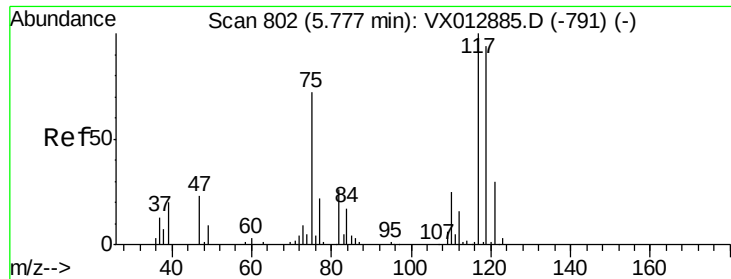
Tot Ion: 75 Resp: 14111
 Ion Ratio Lower Upper
 75 100
 110 8.6 17.6 52.9#
 77 0.0 24.4 36.6#



#37
 Ethyl Acetate
 Concen: 0.383 ug/l
 RT: 4.83 min Scan# 647
 Delta R.T. 0.01 min
 Lab File: VX012992.D
 Acq: 10 Oct 2019 13:47

Tgt Ion: 43 Resp: 1114
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.4 17.0#
 70 5.1 9.8 14.6#

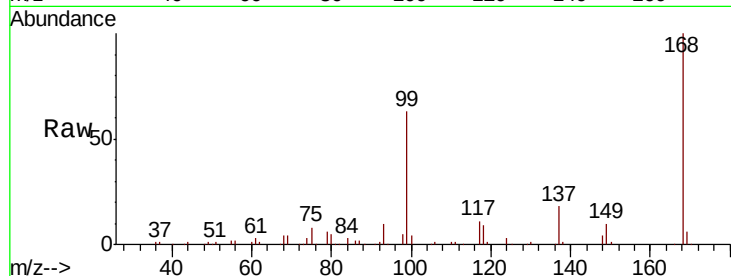




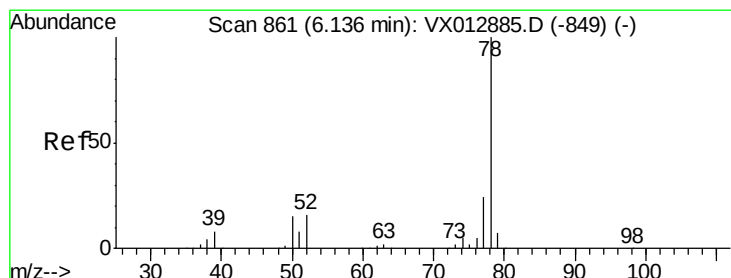
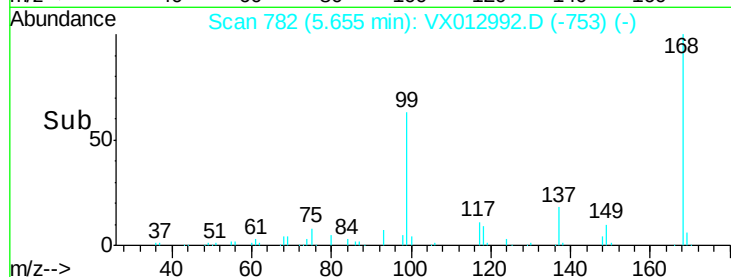
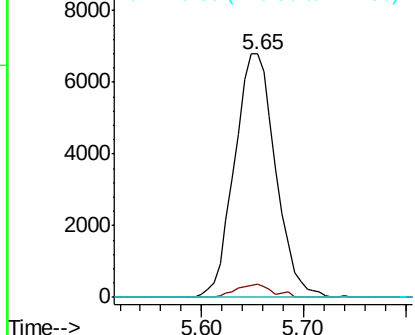
#38
Carbon Tetrachloride
Concen: 7.500 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX012992.D
Acq: 10 Oct 2019 13:47

Instrument :
MSVOA_X
ClientSampleId :
FA19-JMW1860

Tot Ion:117 Resp: 18982
Ion Ratio Lower Upper
117 100
119 5.5 74.5 111.7#
121 0.0 24.2 36.4#

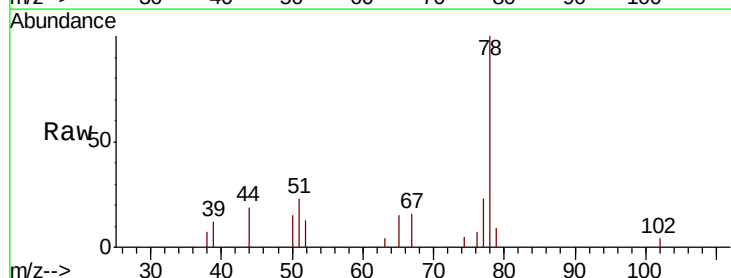


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

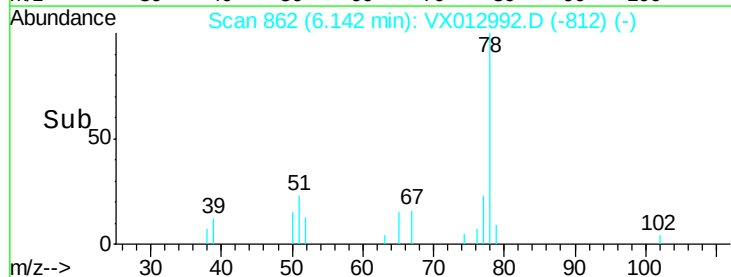
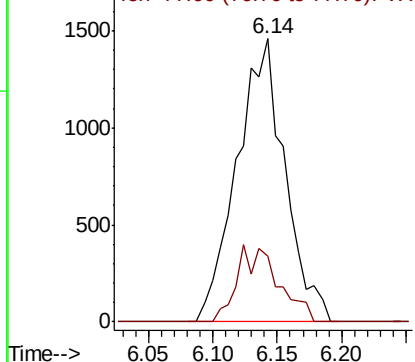


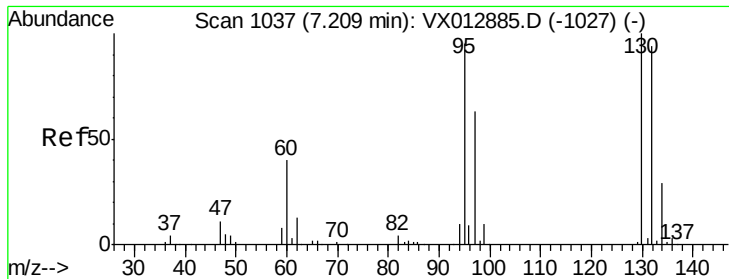
#40
Benzene
Concen: 0.490 ug/l
RT: 6.14 min Scan# 862
Delta R.T. 0.01 min
Lab File: VX012992.D
Acq: 10 Oct 2019 13:47

Tgt Ion: 78 Resp: 3765
Ion Ratio Lower Upper
78 100
77 23.1 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0

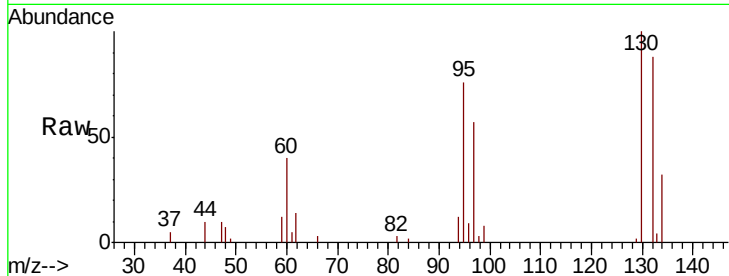




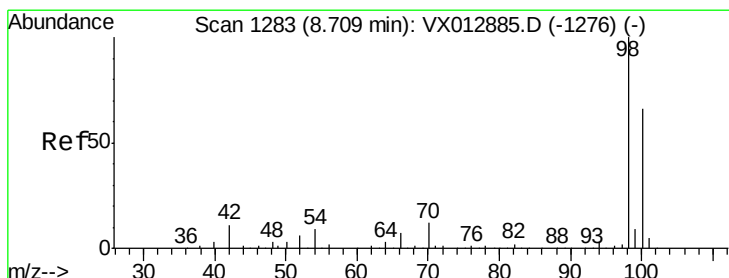
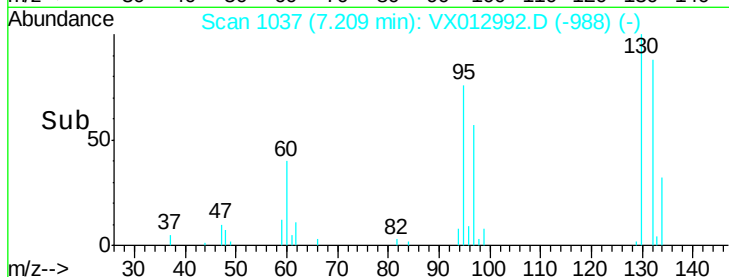
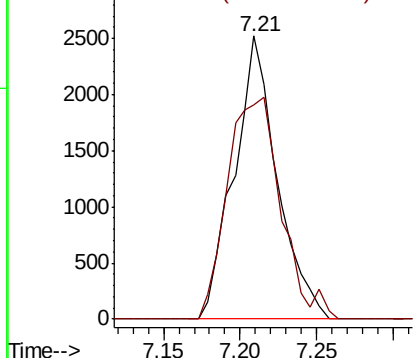
#44
 Trichloroethene
 Concen: 2.315 ug/l
 RT: 7.21 min Scan# 1037
 Delta R.T. -0.00 min
 Lab File: VX012992.D
 Acq: 10 Oct 2019 13:47

Instrument :
 MSVOA_X
 ClientSampleId :
 FA19-JMW1860

Tot Ion:130 Resp: 4930
 Ion Ratio Lower Upper
 130 100
 95 75.7 0.0 189.2

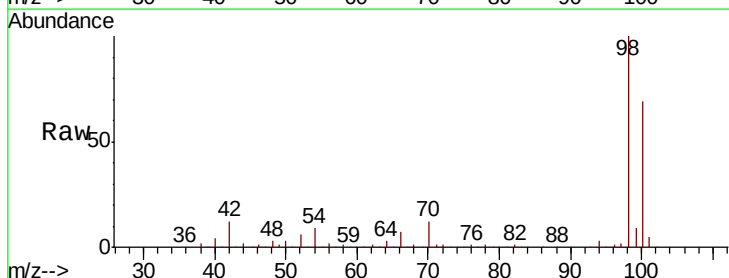


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

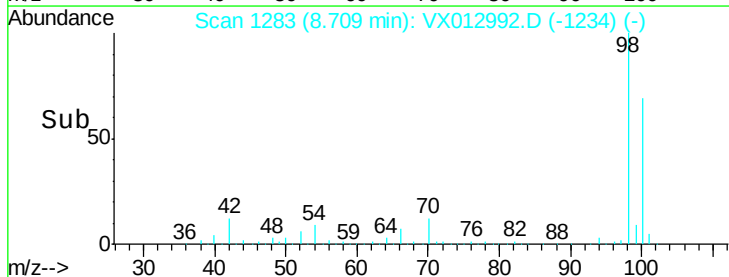
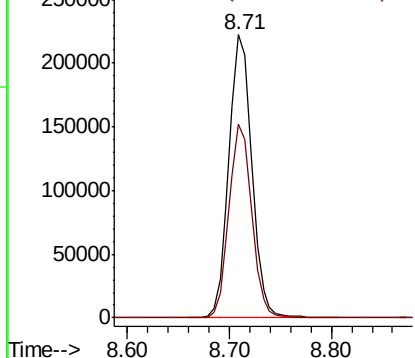


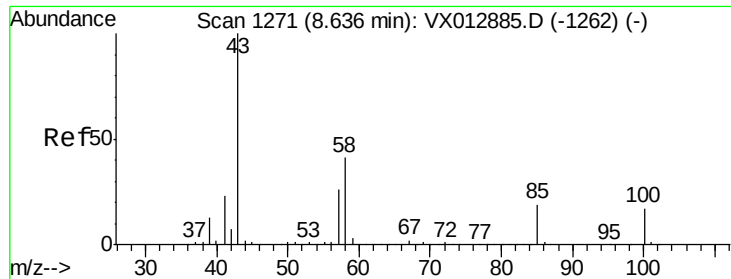
#50
 Toluene-d8
 Concen: 52.321 ug/l
 RT: 8.71 min Scan# 1283
 Delta R.T. -0.00 min
 Lab File: VX012992.D
 Acq: 10 Oct 2019 13:47

Tgt Ion: 98 Resp: 346404
 Ion Ratio Lower Upper
 98 100
 100 68.0 53.4 80.2



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





#51

4-Methyl-2-Pentanone

Concen: 0.588 ug/l

RT: 8.71 min Scan# 1284

Delta R.T. 0.08 min

Lab File: VX012992.D

Acq: 10 Oct 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

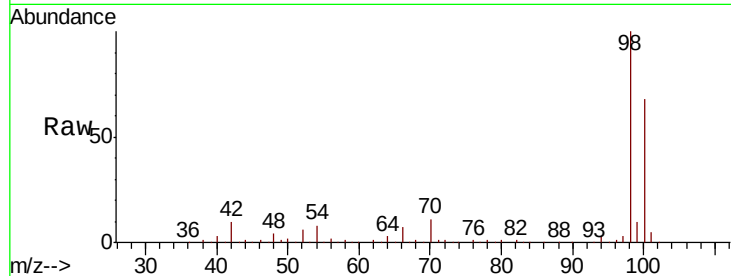
FA19-JMW1860

Tot Ion: 43 Resp: 1712

Ion Ratio Lower Upper

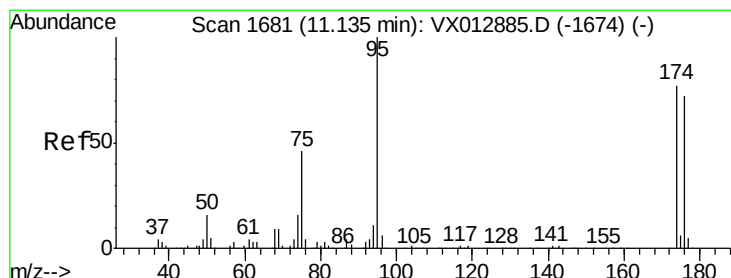
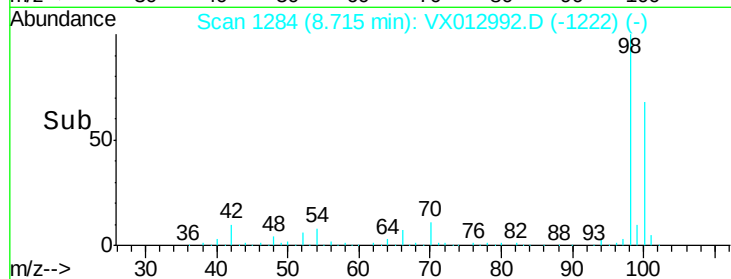
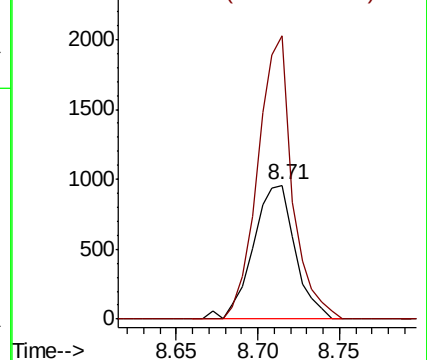
43 100

58 174.3 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 45.412 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012992.D

Acq: 10 Oct 2019 13:47

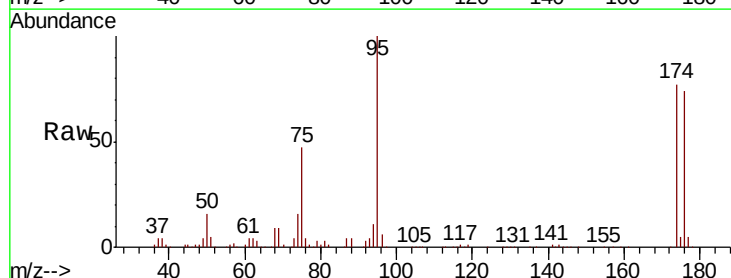
Tgt Ion: 95 Resp: 116824

Ion Ratio Lower Upper

95 100

174 71.6 0.0 143.4

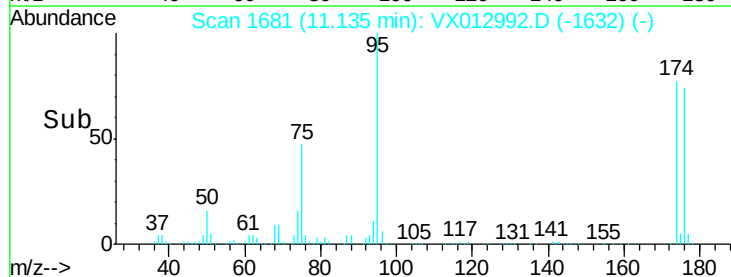
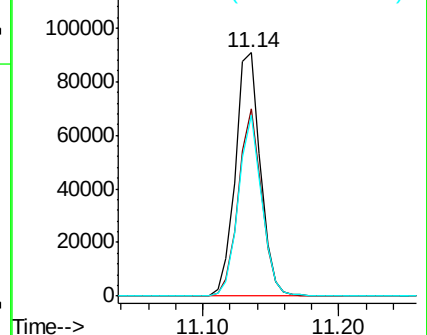
176 69.1 0.0 136.0

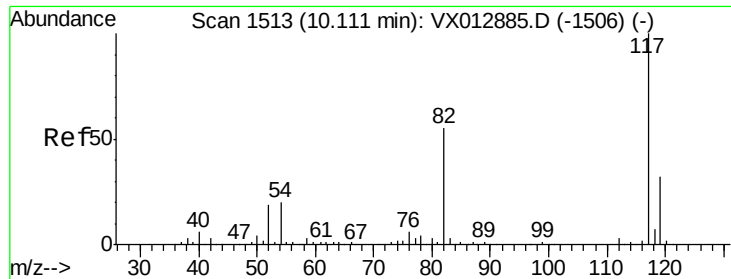


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

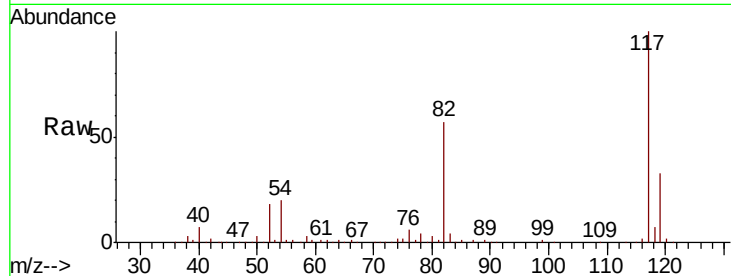




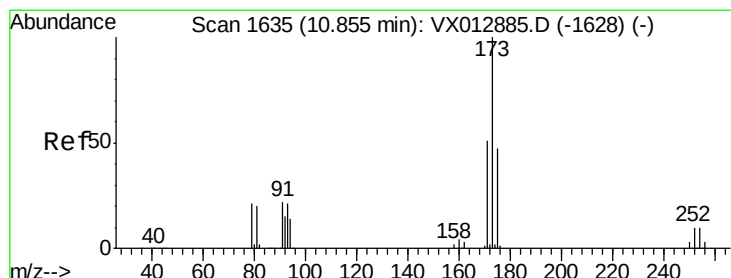
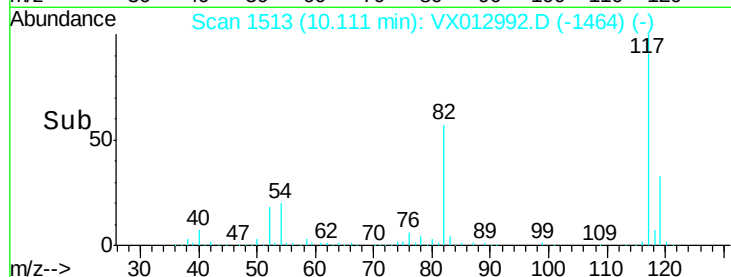
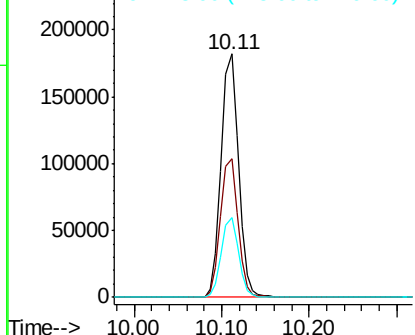
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX012992.D
Acq: 10 Oct 2019 13:47

Instrument :
MSVOA_X
ClientSampleId :
FA19-JMW1860

Tot Ion:117 Resp: 251042
Ion Ratio Lower Upper
117 100
82 56.9 44.1 66.1
119 32.6 25.8 38.8

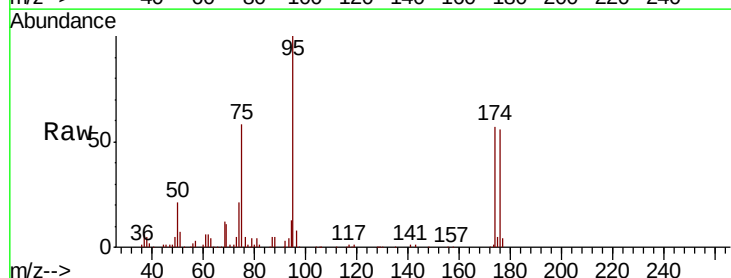


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

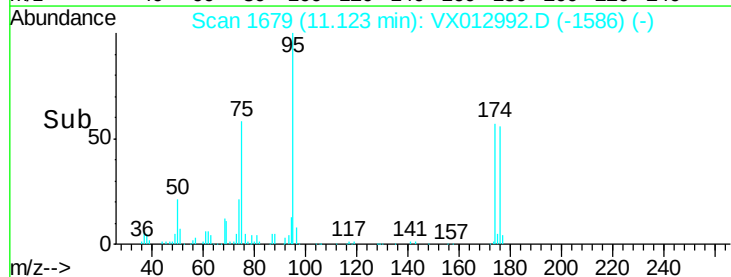
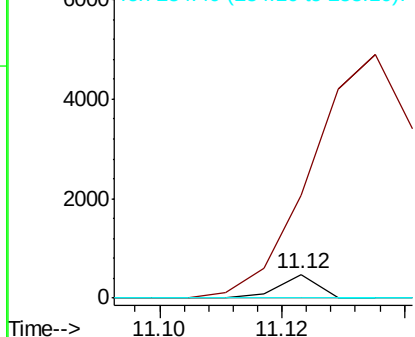


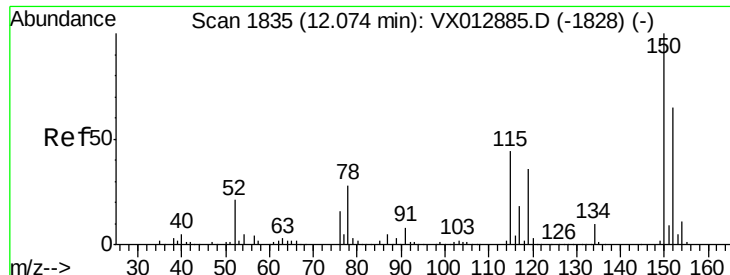
#71
Bromoform
Concen: 3.264 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. 0.27 min
Lab File: VX012992.D
Acq: 10 Oct 2019 13:47

Tgt Ion:173 Resp: 206
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.3#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): 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: VX012992.D

Acq: 10 Oct 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

FA19-JMW1860

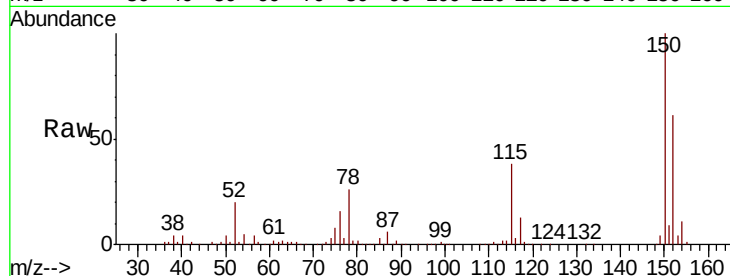
Tot Ion:152 Resp: 95177

Ion Ratio Lower Upper

152 100

115 63.6 44.5 133.5

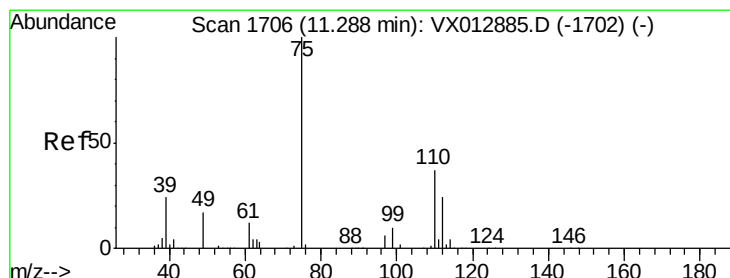
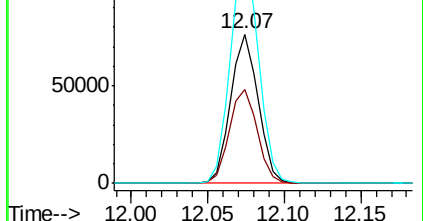
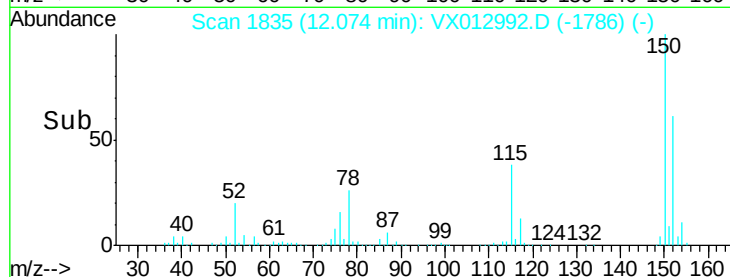
150 157.6 0.0 353.4



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: 27.266 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012992.D

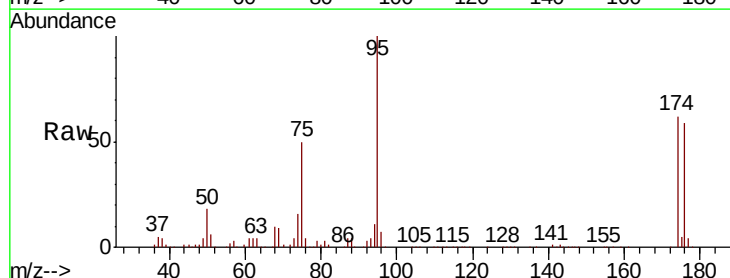
Acq: 10 Oct 2019 13:47

Tgt Ion: 75 Resp: 57559

Ion Ratio Lower Upper

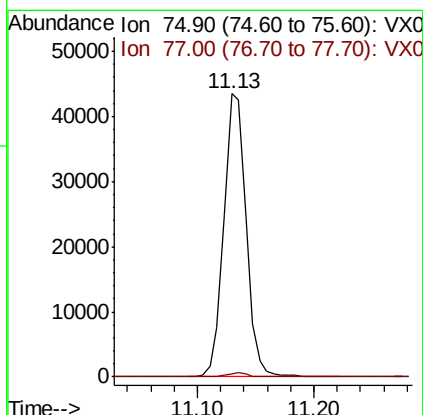
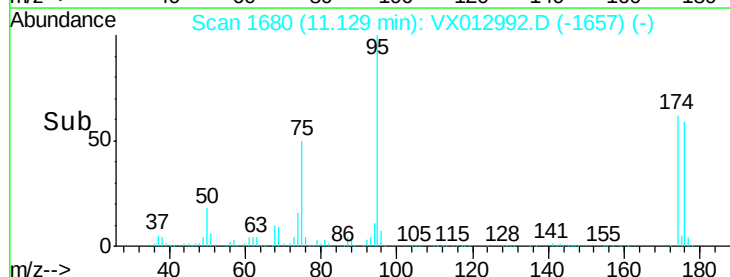
75 100

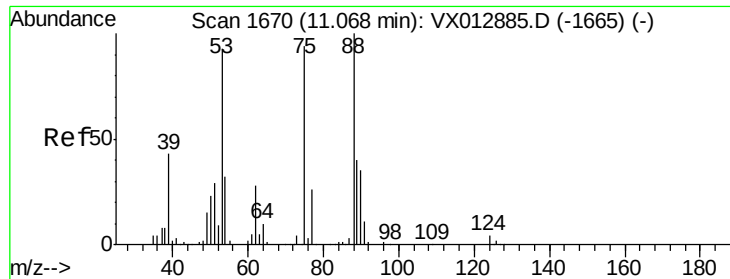
77 1.2 22.9 68.8#



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: 68.471 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012992.D

Acq: 10 Oct 2019 13:47

Instrument :

MSVOA_X

ClientSampleId :

FA19-JMW1860

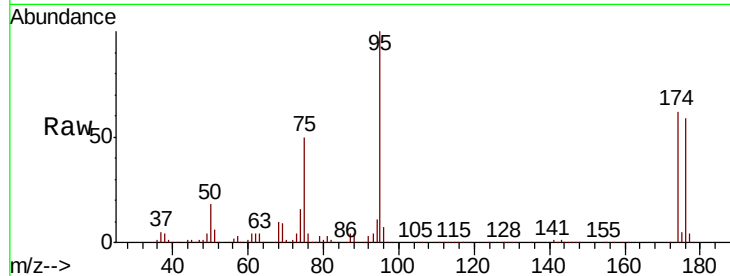
Tot Ion: 75 Resp: 57559

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

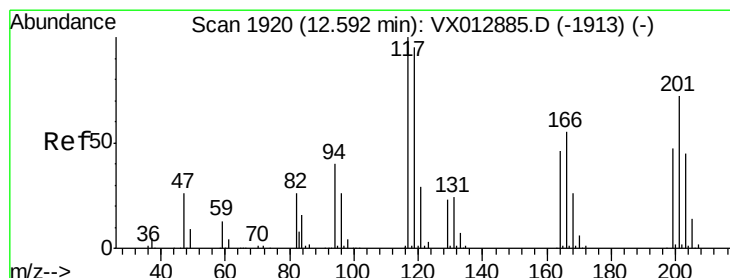
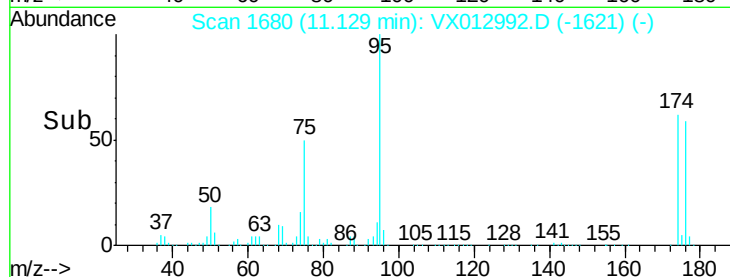
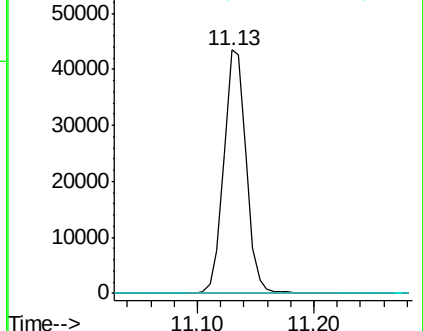
89 0.0 37.4 56.2#



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



#90

Hexachloroethane

Concen: 2.134 ug/l

RT: 12.71 min Scan# 1939

Delta R.T. 0.12 min

Lab File: VX012992.D

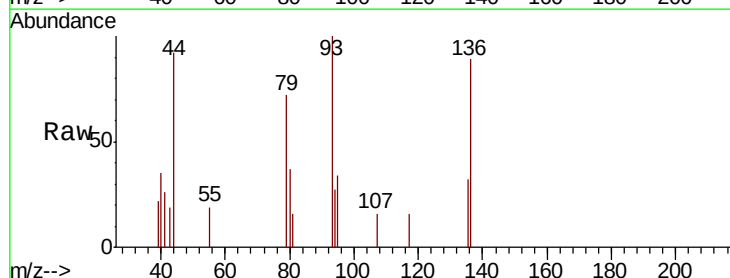
Acq: 10 Oct 2019 13:47

Tgt Ion: 117 Resp: 19

Ion Ratio Lower Upper

117 100

201 0.0 36.9 110.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

