

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112619\
 Data File : VX013635.D
 Acq On : 27 Nov 2019 06:12
 Operator : JC/SP
 Sample : K6002-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-5

Quant Time: Nov 27 07:25:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	673576	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1078462	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	963560	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	451015	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	386952	49.49	ug/l	0.00
Spiked Amount			Recovery	=	98.98%	
35) Dibromofluoromethane	5.49	113	325060	48.76	ug/l	0.00
Spiked Amount			Recovery	=	97.52%	
50) Toluene-d8	8.71	98	1289230	49.63	ug/l	0.00
Spiked Amount			Recovery	=	99.26%	
62) 4-Bromofluorobenzene	11.14	95	445154	47.52	ug/l	0.00
Spiked Amount			Recovery	=	95.04%	

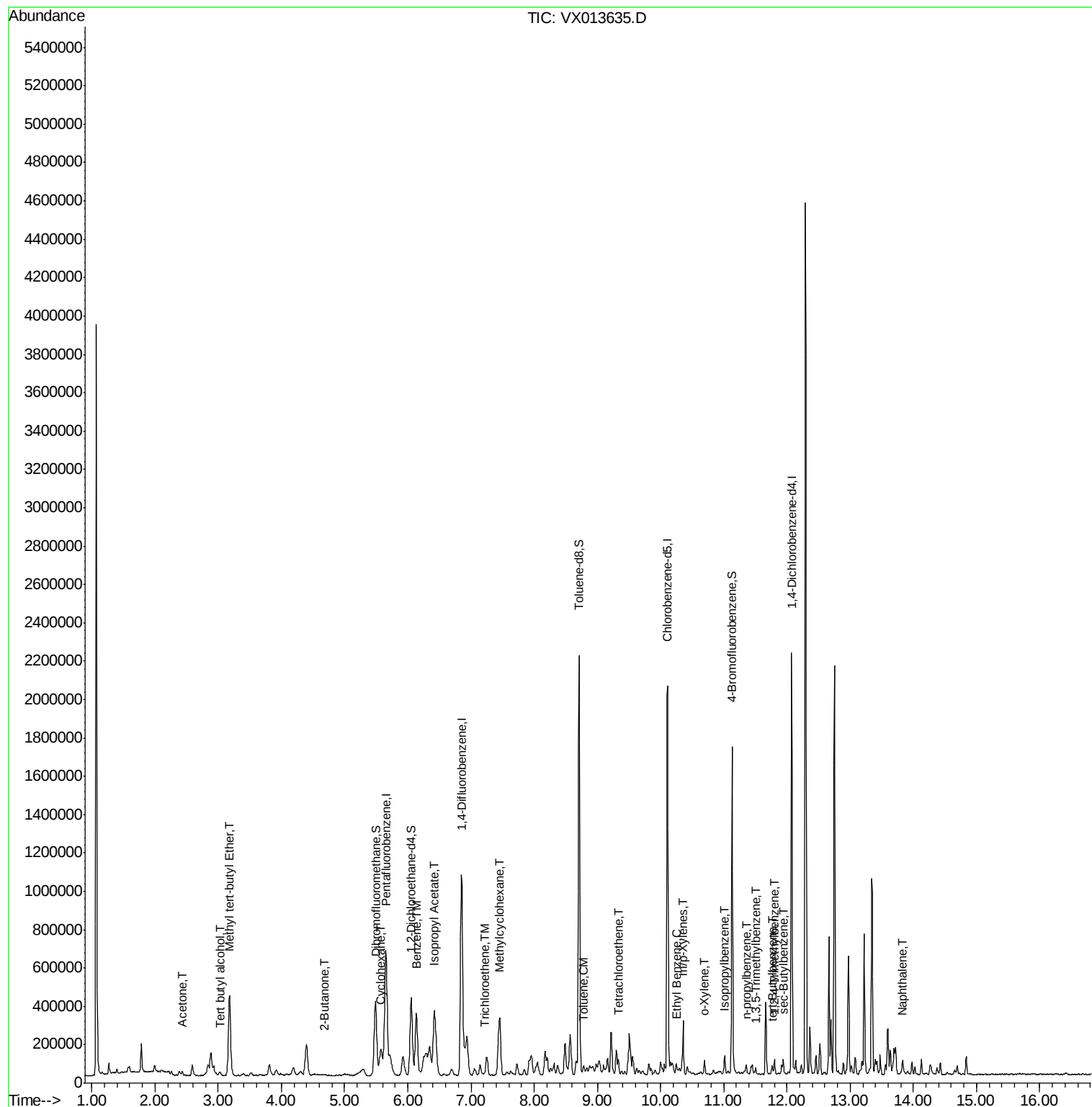
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.02	59	21316	11.045	ug/l #	74
16) Acetone	2.43	43	23910	6.194	ug/l	98
19) Methyl tert-butyl Ether	3.18	73	383310	18.050	ug/l #	73
25) 2-Butanone	4.67	43	10782	1.879	ug/l	99
31) Cyclohexane	5.57	56	98476	8.526	ug/l #	89
39) Methylcyclohexane	7.45	83	123263	10.186	ug/l	91
40) Benzene	6.14	78	397182	13.321	ug/l	100
43) Isopropyl Acetate	6.42	43	118752	6.568	ug/l #	20
44) Trichloroethene	7.22	130	3342	0.408	ug/l	50
52) Toluene	8.78	92	16370	0.884	ug/l	95
64) Tetrachloroethene	9.33	164	16635	2.315	ug/l	96
67) Ethyl Benzene	10.25	91	33946	0.987	ug/l	99
68) m/p-Xylenes	10.35	106	65781	4.998	ug/l	100
69) o-Xylene	10.70	106	16373	1.276	ug/l	99
73) Isopropylbenzene	11.01	105	45955	1.453	ug/l	98
78) n-propylbenzene	11.35	91	16700	0.473	ug/l	95
80) 1,3,5-Trimethylbenzene	11.50	105	12026	0.464	ug/l	96
83) tert-Butylbenzene	11.77	119	8804	0.334	ug/l	74
84) 1,2,4-Trimethylbenzene	11.81	105	37552	1.427	ug/l	99
85) sec-Butylbenzene	11.94	105	39364	1.308	ug/l	98
95) Naphthalene	13.83	128	50544	1.654	ug/l #	94

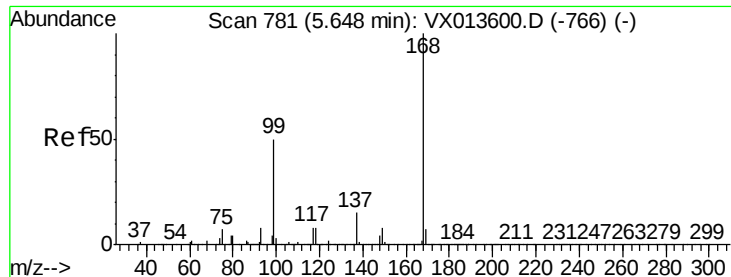
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013635.D

Acq: 27 Nov 2019 06:12

Instrument :

MSVOA_X

ClientSampleId :

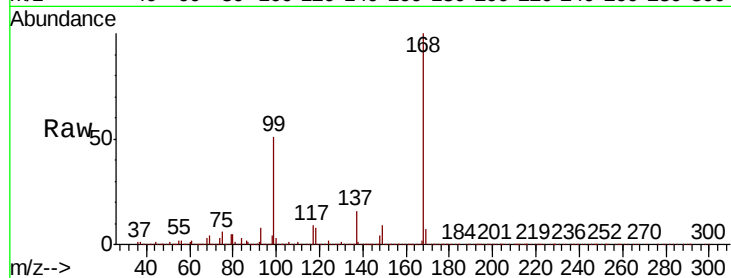
MW-5

Tot Ion:168 Resp: 673576

Ion Ratio Lower Upper

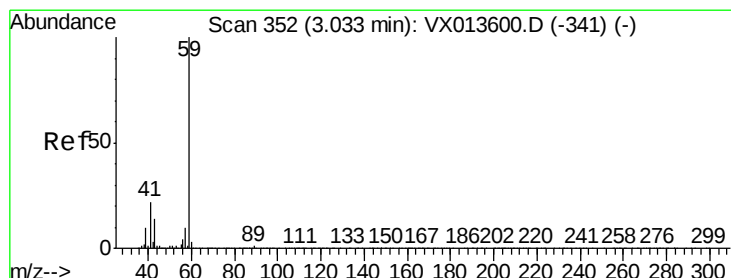
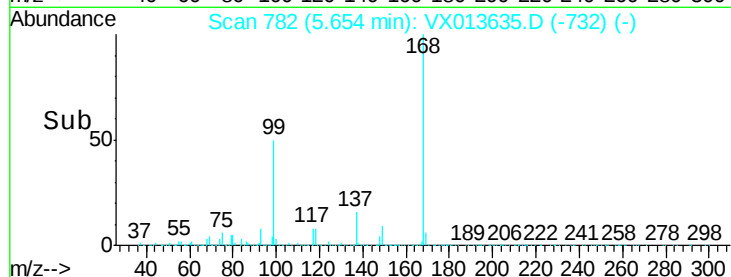
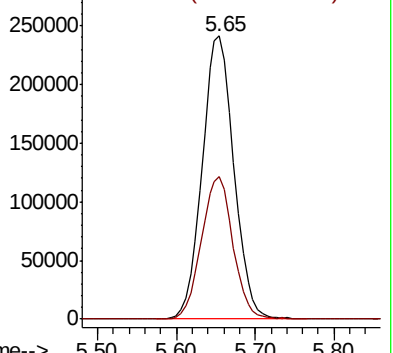
168 100

99 50.5 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#11

Tert butyl alcohol

Concen: 11.045 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX013635.D

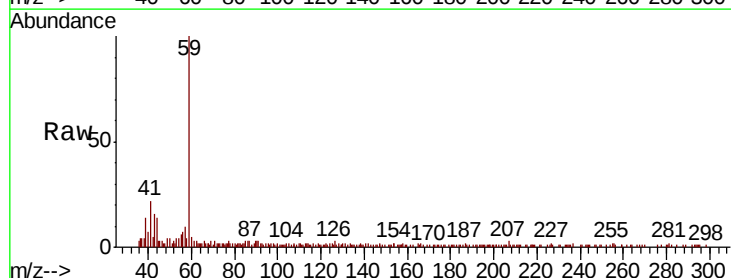
Acq: 27 Nov 2019 06:12

Tgt Ion: 59 Resp: 21316

Ion Ratio Lower Upper

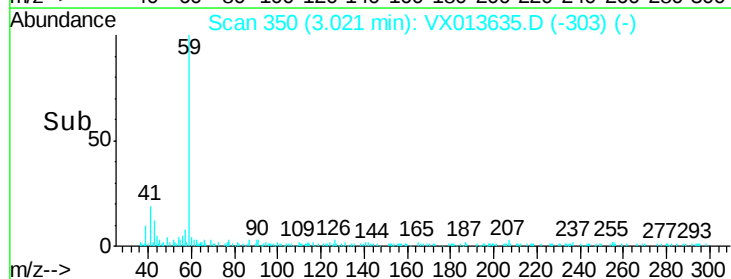
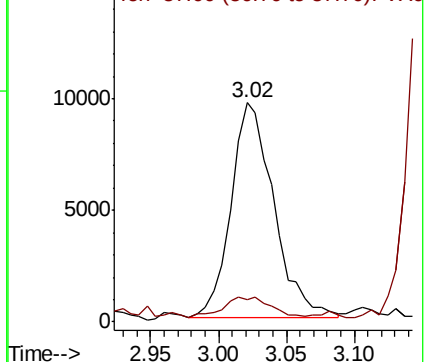
59 100

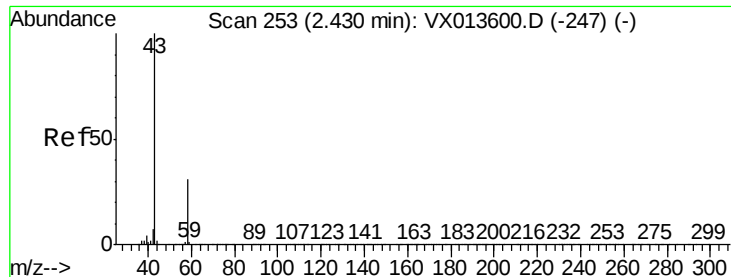
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 6.194 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013635.D

Acq: 27 Nov 2019 06:12

Instrument :

MSVOA_X

ClientSampleId :

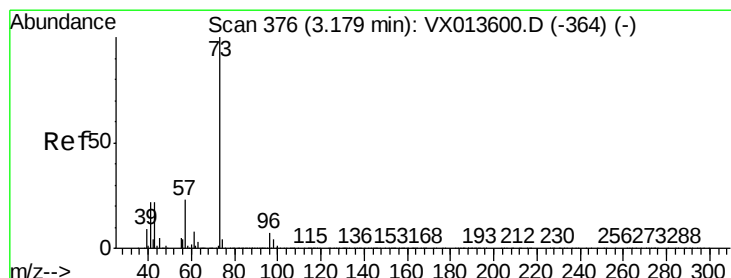
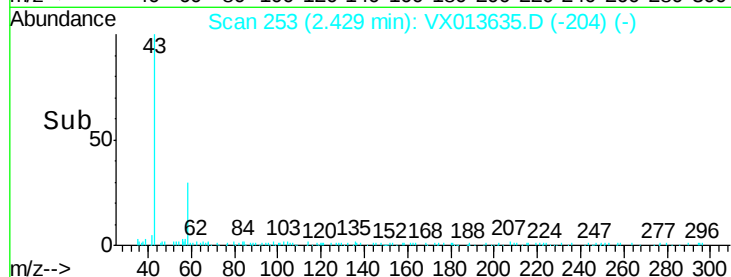
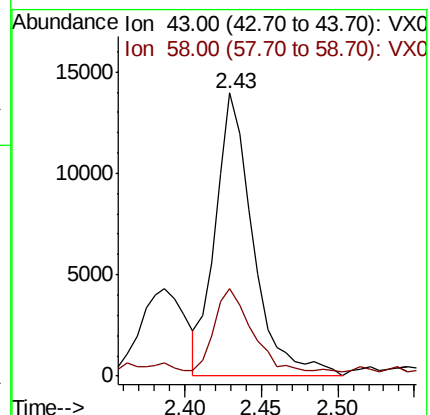
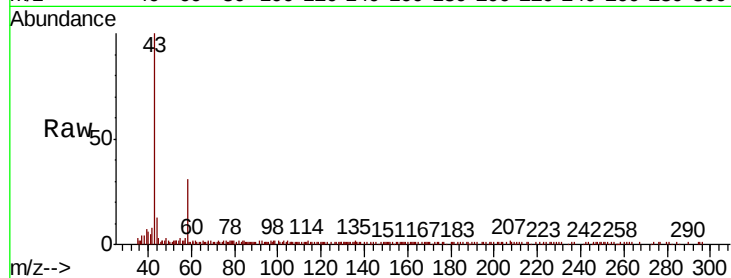
MW-5

Tot Ion: 43 Resp: 23910

Ion Ratio Lower Upper

43 100

58 29.6 24.6 36.8



#19

Methyl tert-butyl Ether

Concen: 18.050 ug/l

RT: 3.18 min Scan# 376

Delta R.T. -0.00 min

Lab File: VX013635.D

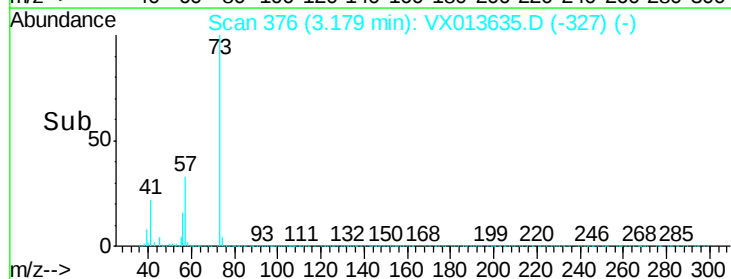
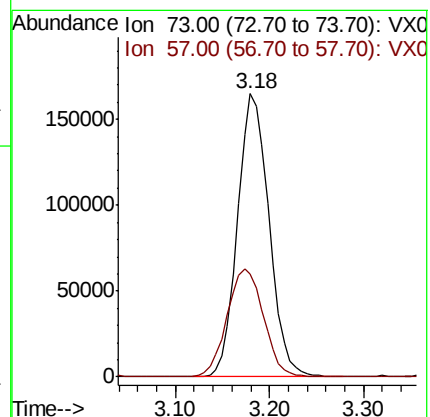
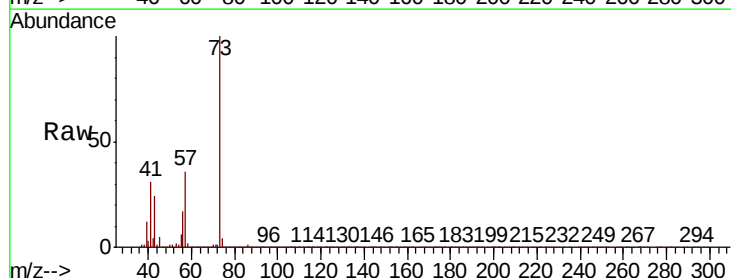
Acq: 27 Nov 2019 06:12

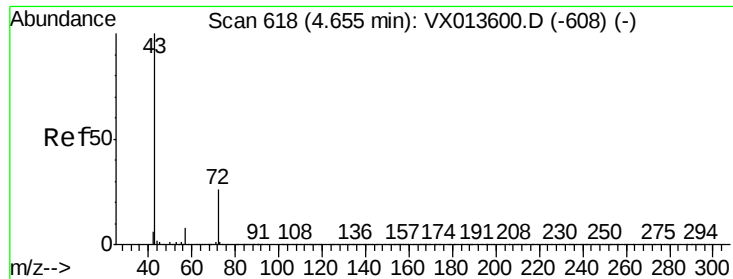
Tgt Ion: 73 Resp: 383310

Ion Ratio Lower Upper

73 100

57 36.1 18.3 27.5#





#25

2-Butanone

Concen: 1.879 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.02 min

Lab File: VX013635.D

Acq: 27 Nov 2019 06:12

Instrument :

MSVOA_X

ClientSampleId :

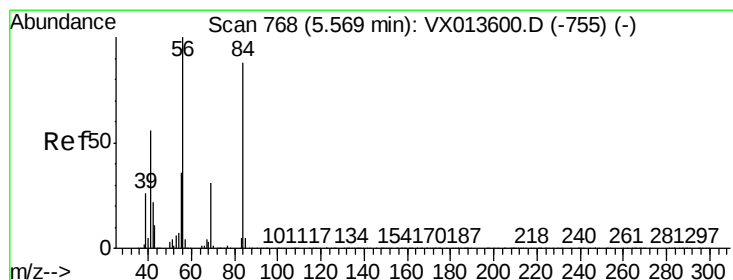
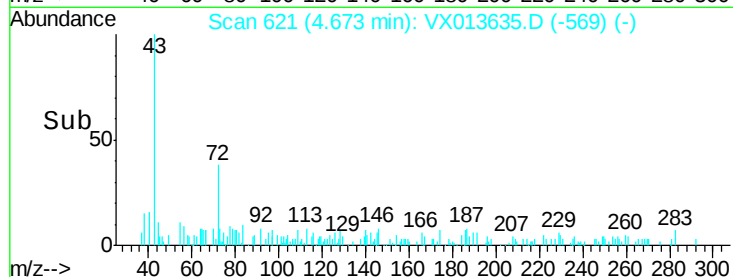
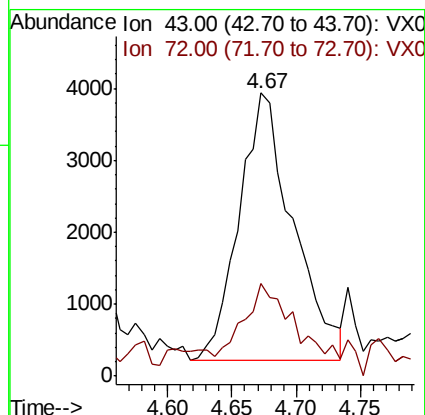
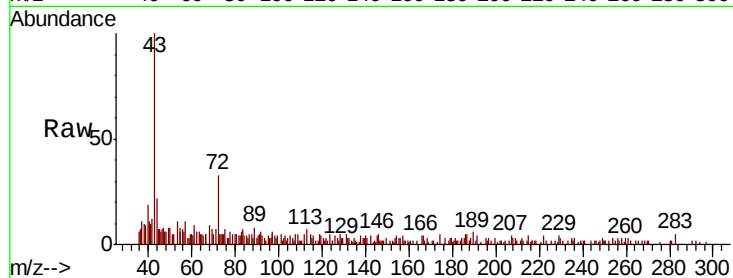
MW-5

Tot Ion: 43 Resp: 10782

Ion Ratio Lower Upper

43 100

72 25.5 20.6 31.0



#31

Cyclohexane

Concen: 8.526 ug/l

RT: 5.57 min Scan# 768

Delta R.T. -0.00 min

Lab File: VX013635.D

Acq: 27 Nov 2019 06:12

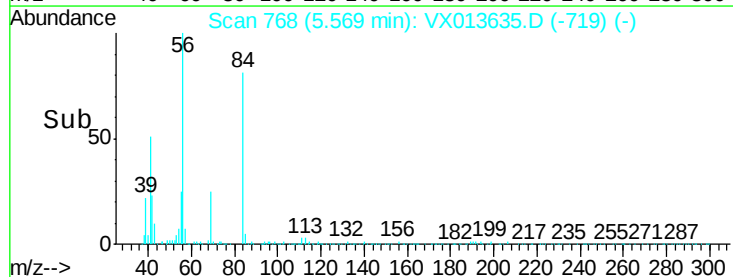
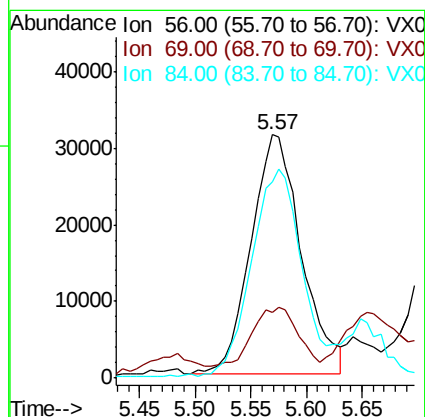
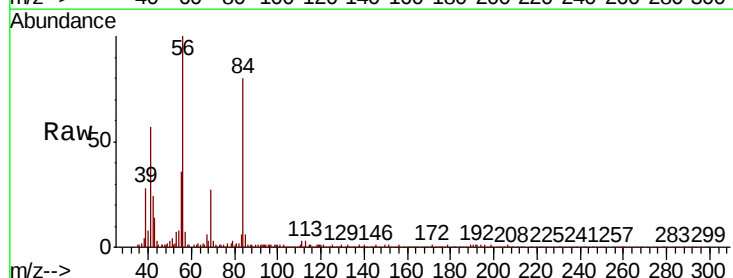
Tgt Ion: 56 Resp: 98476

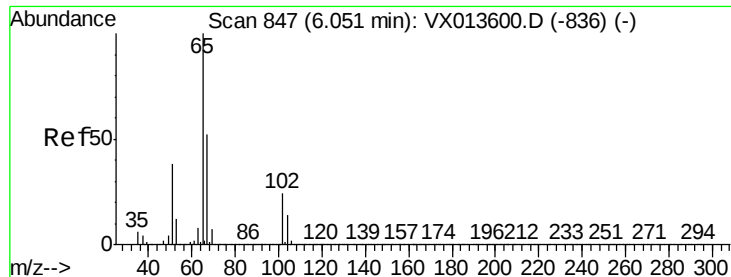
Ion Ratio Lower Upper

56 100

69 20.2 24.6 36.8#

84 80.2 70.0 105.0





#33

1,2-Dichloroethane-d4

Concen: 49.491 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013635.D

Acq: 27 Nov 2019 06:12

Instrument :

MSVOA_X

ClientSampleId :

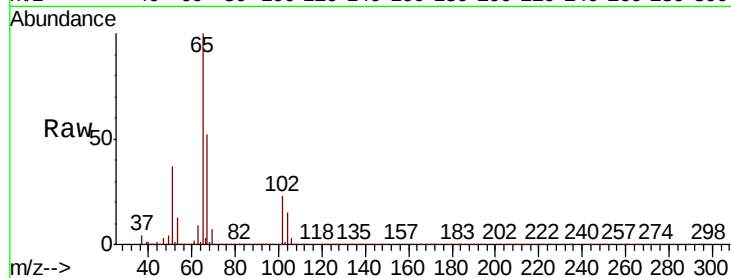
MW-5

Tot Ion: 65 Resp: 386952

Ion Ratio Lower Upper

65 100

67 52.3 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

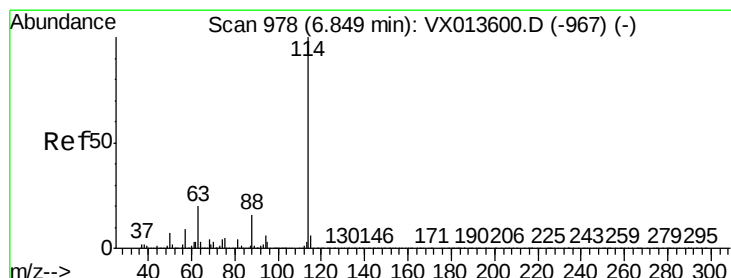
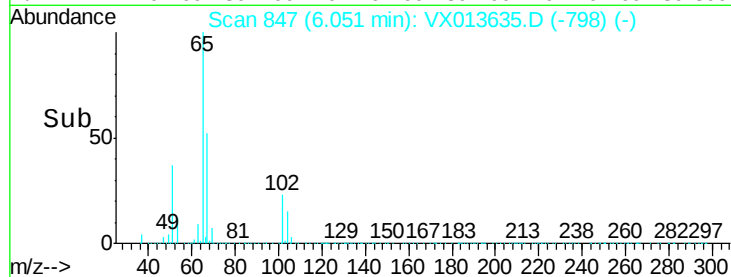
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013635.D

Acq: 27 Nov 2019 06:12

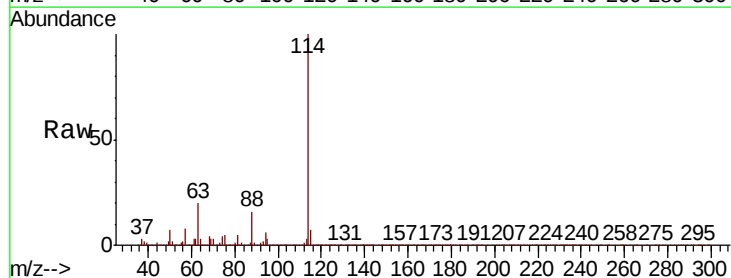
Tgt Ion: 114 Resp: 1078462

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.6

88 15.5 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.85

600000

500000

400000

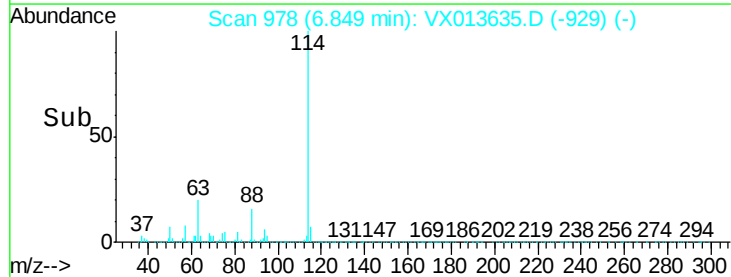
300000

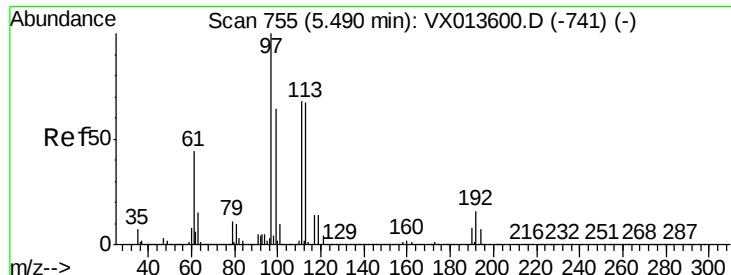
200000

100000

0

Time-->

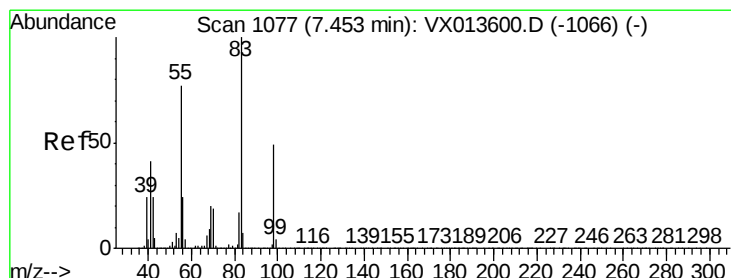
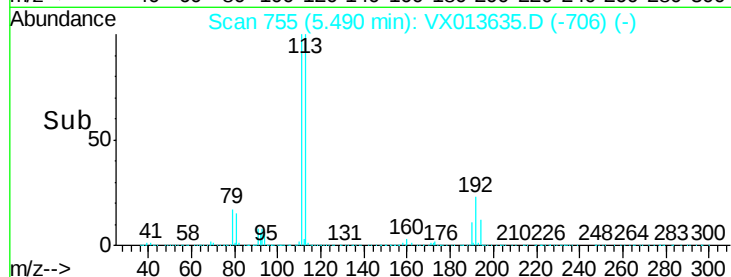
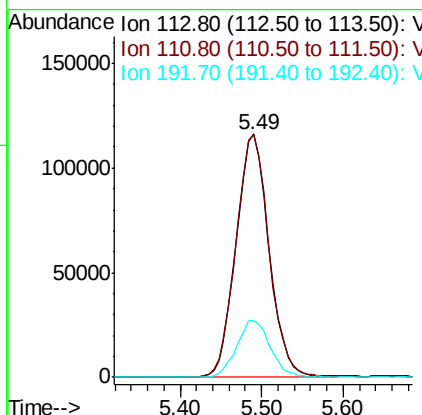
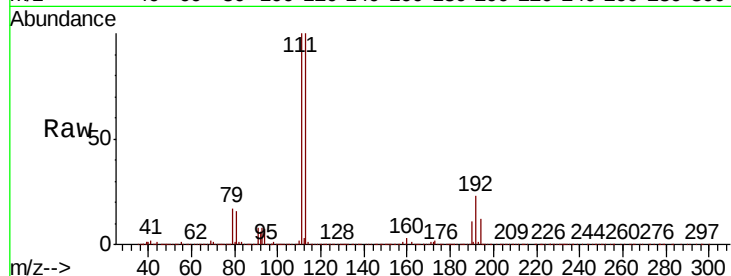




#35
Dibromofluoromethane
Concen: 48.755 ug/l
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX013635.D
Acq: 27 Nov 2019 06:12

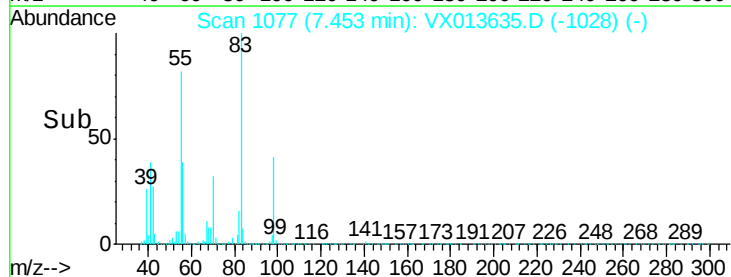
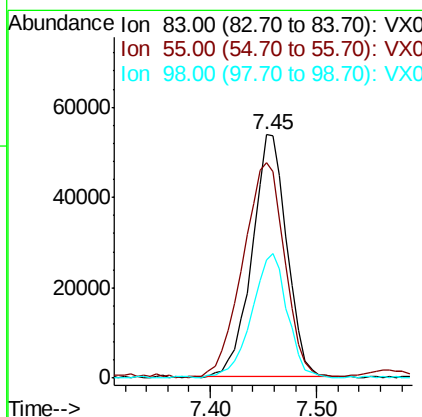
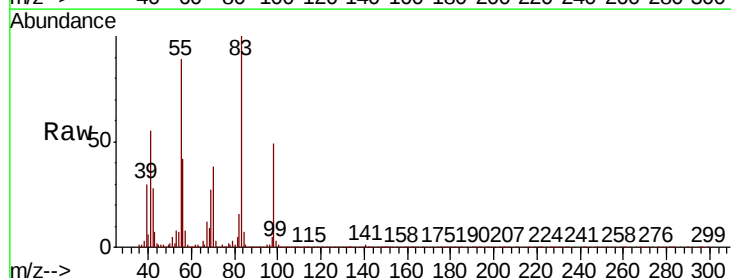
Instrument :
MSVOA_X
ClientSampleId :
MW-5

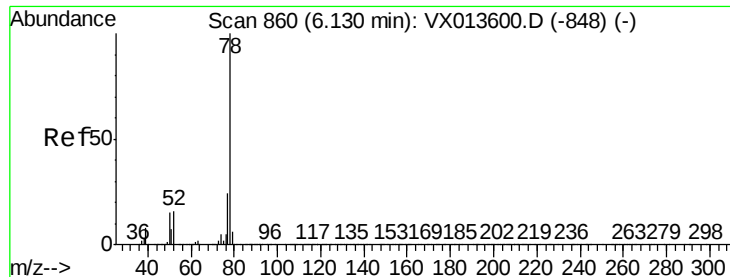
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.7	83.6	125.4
192	24.1	19.2	28.8



#39
Methylcyclohexane
Concen: 10.186 ug/l
RT: 7.45 min Scan# 1077
Delta R.T. -0.00 min
Lab File: VX013635.D
Acq: 27 Nov 2019 06:12

Tgt Ion	Ratio	Lower	Upper
83	100		
55	89.2	61.9	92.9
98	48.3	39.4	59.0





#40

Benzene

Concen: 13.321 ug/l

RT: 6.14 min Scan# 861

Delta R.T. 0.01 min

Lab File: VX013635.D

Acq: 27 Nov 2019 06:12

Instrument :

MSVOA_X

ClientSampleId :

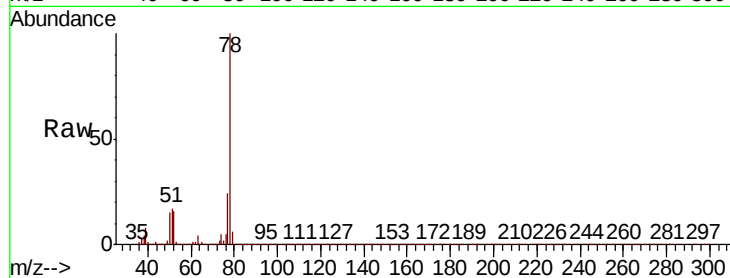
MW-5

Tot Ion: 78 Resp: 397182

Ion Ratio Lower Upper

78 100

77 23.9 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.14

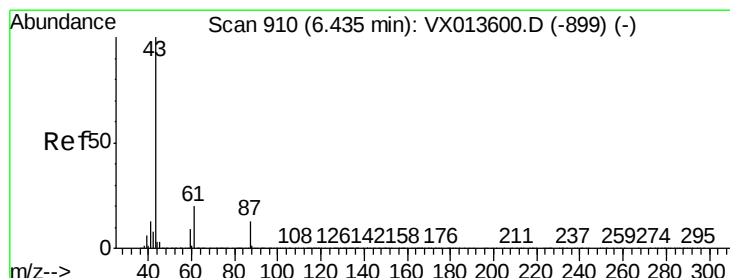
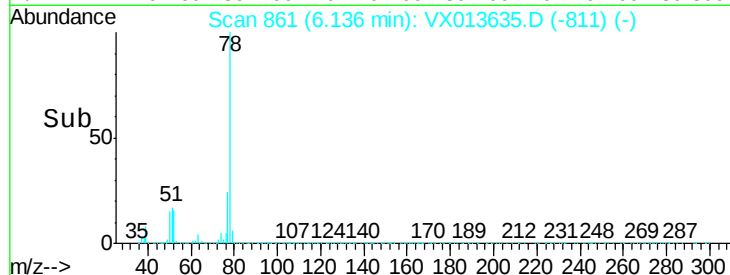
150000

100000

50000

0

Time-->



#43

Isopropyl Acetate

Concen: 6.568 ug/l

RT: 6.42 min Scan# 907

Delta R.T. -0.02 min

Lab File: VX013635.D

Acq: 27 Nov 2019 06:12

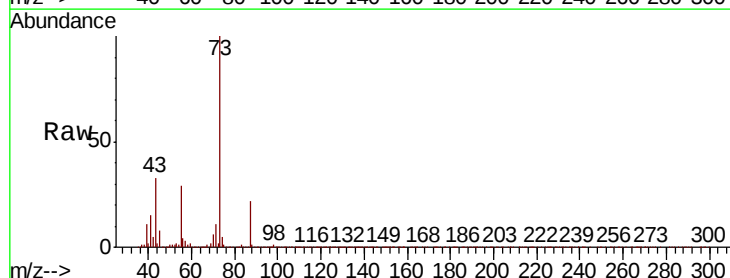
Tgt Ion: 43 Resp: 118752

Ion Ratio Lower Upper

43 100

61 0.0 16.3 24.5#

87 67.4 10.8 16.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

50000

40000

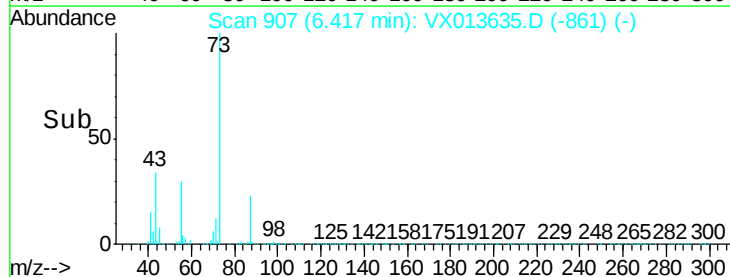
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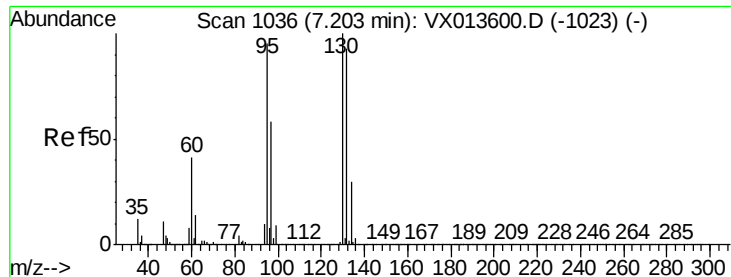
20000

10000

0

Time-->





#44

Trichloroethene

Concen: 0.408 ug/l

RT: 7.22 min Scan# 1038

Delta R.T. 0.01 min

Lab File: VX013635.D

Acq: 27 Nov 2019 06:12

Instrument :

MSVOA_X

ClientSampled :

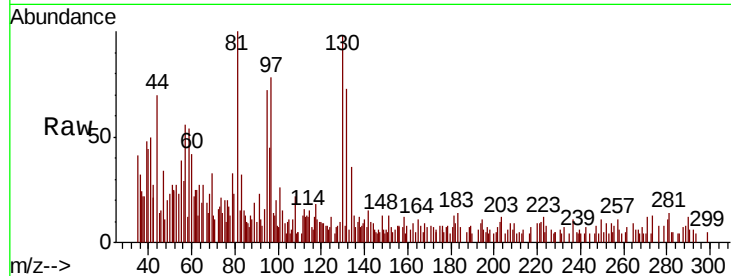
MW-5

Tot Ion:130 Resp: 3342

Ion Ratio Lower Upper

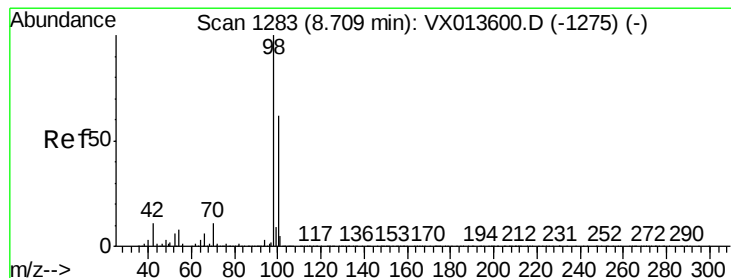
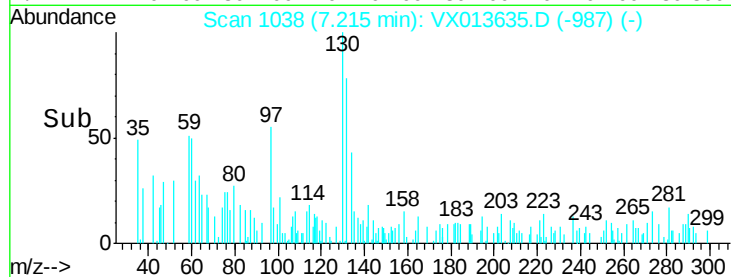
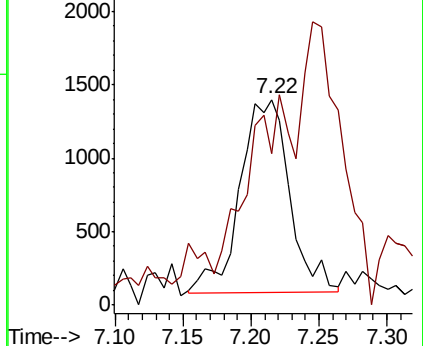
130 100

95 46.8 0.0 190.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 49.631 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013635.D

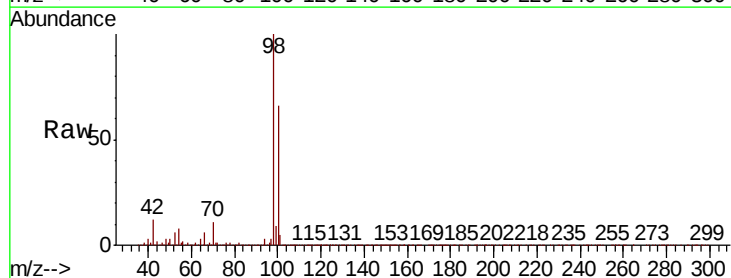
Acq: 27 Nov 2019 06:12

Tgt Ion: 98 Resp: 1289230

Ion Ratio Lower Upper

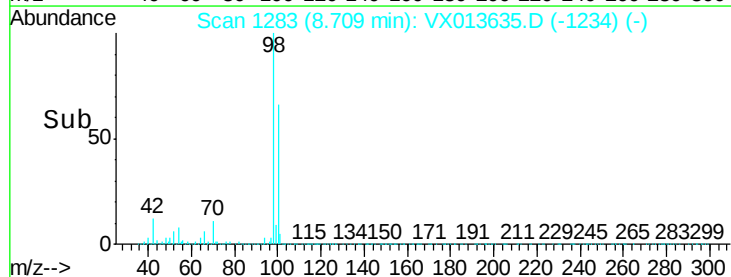
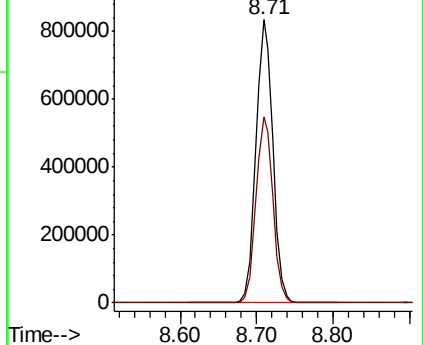
98 100

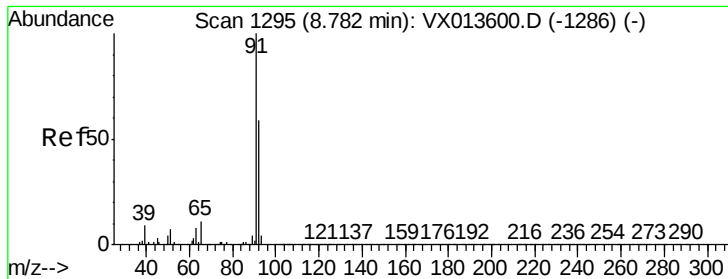
100 66.0 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 0.884 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VX013635.D

Acq: 27 Nov 2019 06:12

Instrument :

MSVOA_X

ClientSampleId :

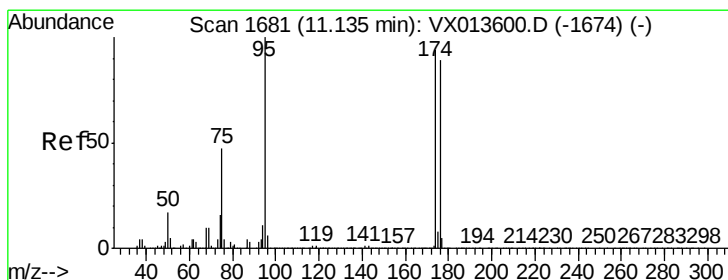
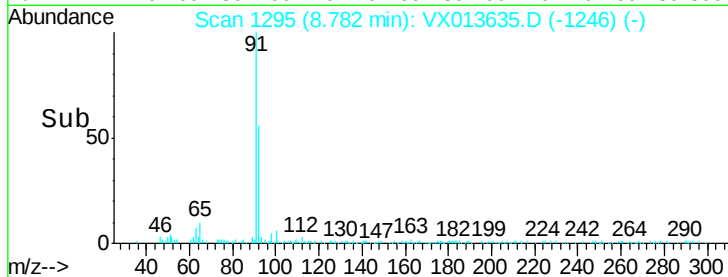
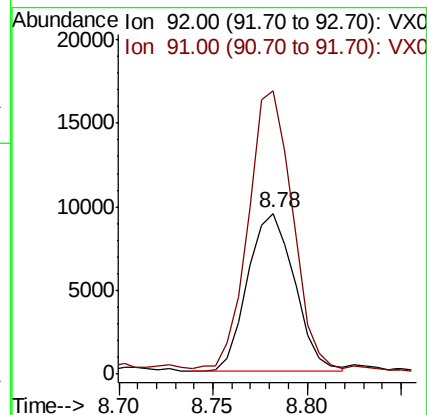
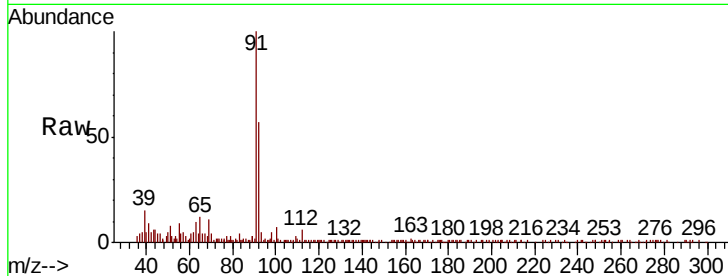
MW-5

Tot Ion: 92 Resp: 16370

Ion Ratio Lower Upper

92 100

91 164.0 136.2 204.2



#62

4-Bromofluorobenzene

Concen: 47.523 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013635.D

Acq: 27 Nov 2019 06:12

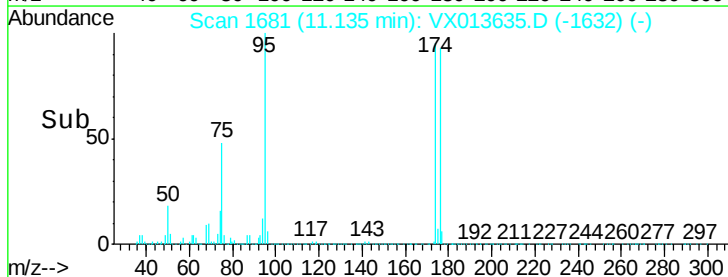
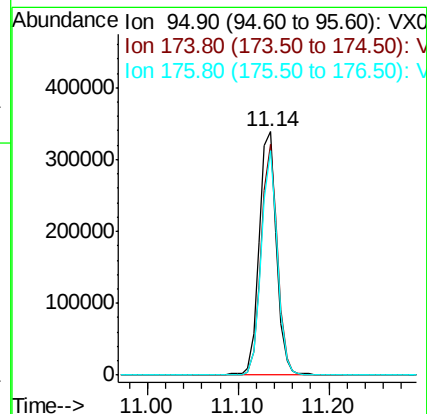
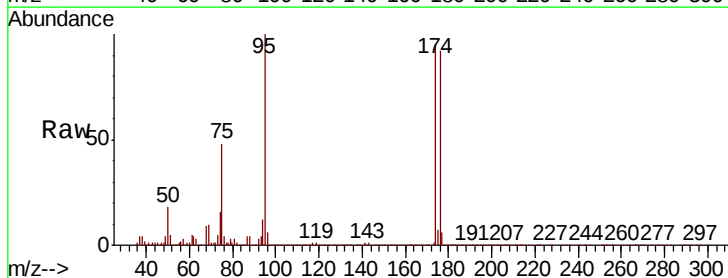
Tgt Ion: 95 Resp: 445154

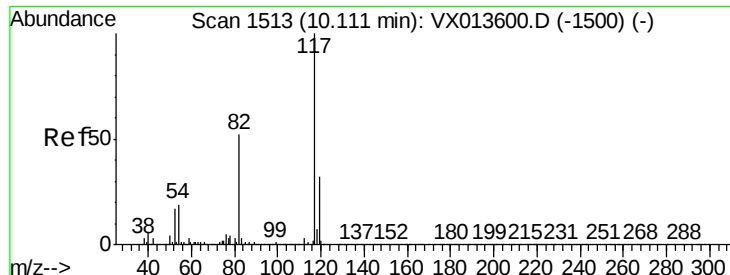
Ion Ratio Lower Upper

95 100

174 89.8 0.0 180.0

176 86.1 0.0 173.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013635.D

Acq: 27 Nov 2019 06:12

Instrument :

MSVOA_X

ClientSampleId :

MW-5

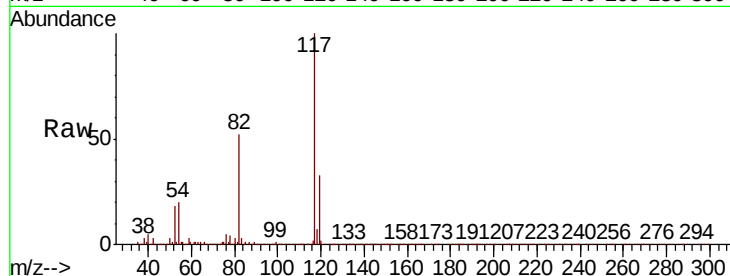
Tot Ion:117 Resp: 963560

Ion Ratio Lower Upper

117 100

82 52.4 41.8 62.8

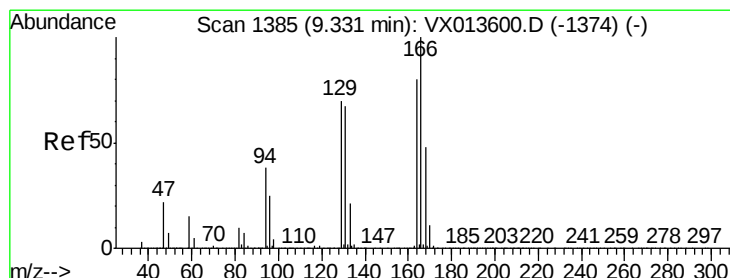
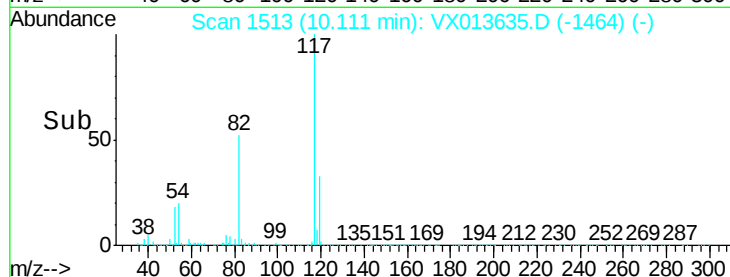
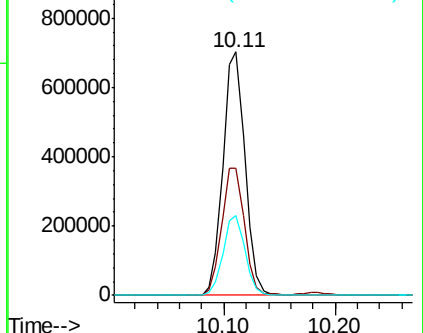
119 32.7 25.8 38.8



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



#64

Tetrachloroethene

Concen: 2.315 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VX013635.D

Acq: 27 Nov 2019 06:12

Tgt Ion:164 Resp: 16635

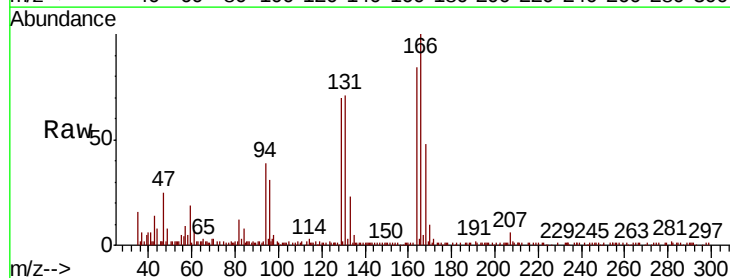
Ion Ratio Lower Upper

164 100

166 120.4 99.7 149.5

129 82.1 70.1 105.1

131 84.7 66.9 100.3

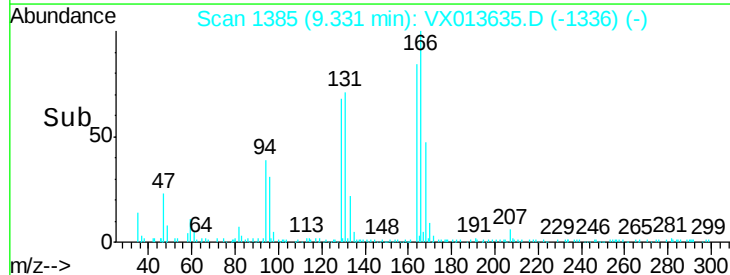
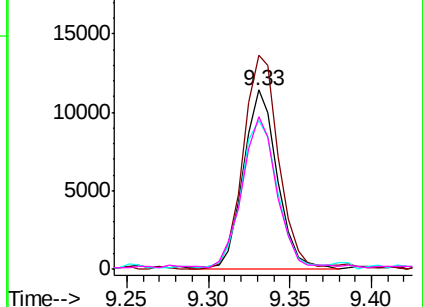


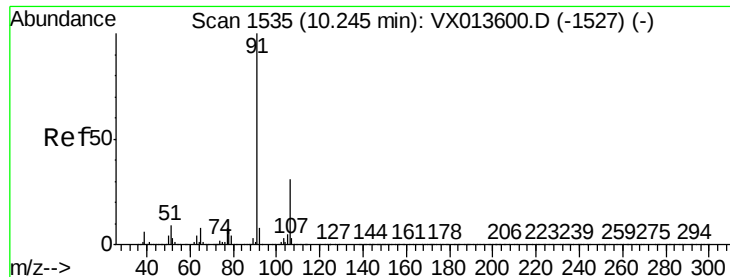
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#67

Ethyl Benzene

Concen: 0.987 ug/l

RT: 10.25 min Scan# 1536

Delta R.T. 0.01 min

Lab File: VX013635.D

Acq: 27 Nov 2019 06:12

Instrument :

MSVOA_X

ClientSampled :

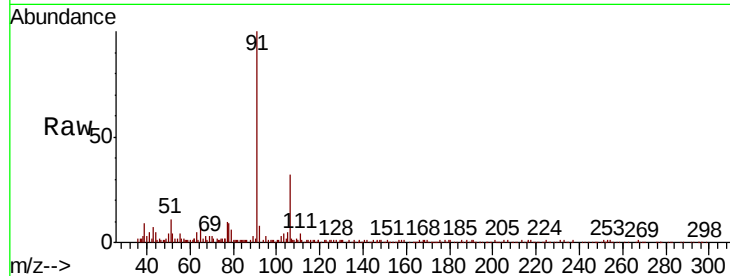
MW-5

Tot Ion: 91 Resp: 33946

Ion Ratio Lower Upper

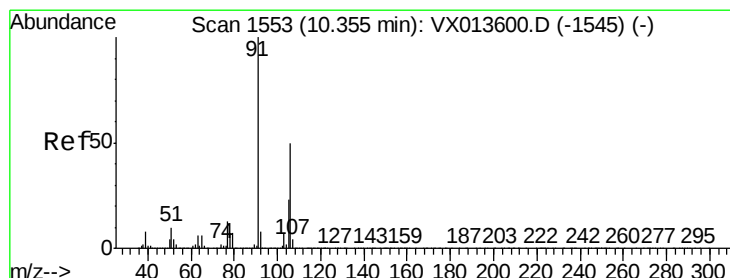
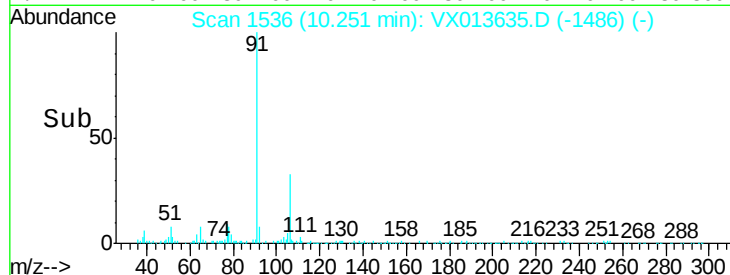
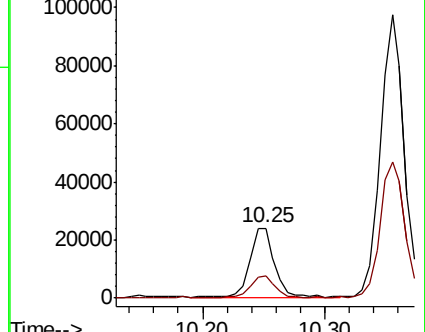
91 100

106 31.1 24.5 36.7



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 4.998 ug/l

RT: 10.35 min Scan# 1553

Delta R.T. -0.00 min

Lab File: VX013635.D

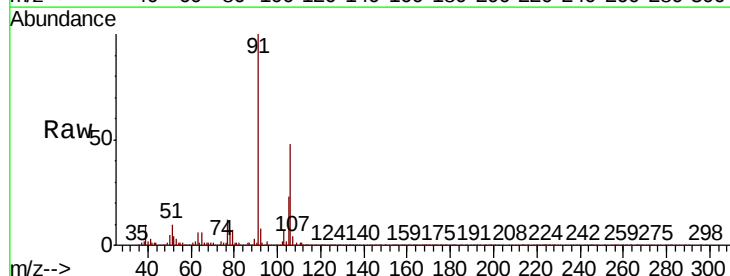
Acq: 27 Nov 2019 06:12

Tgt Ion: 106 Resp: 65781

Ion Ratio Lower Upper

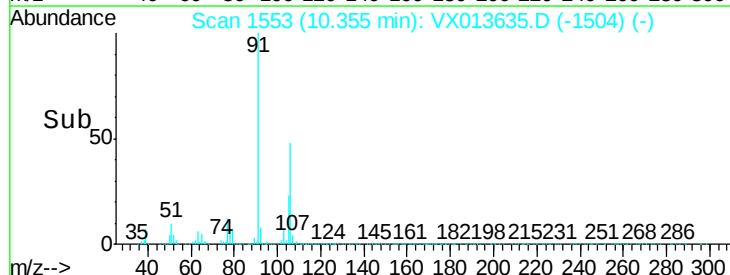
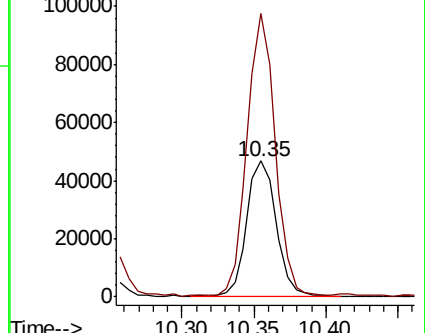
106 100

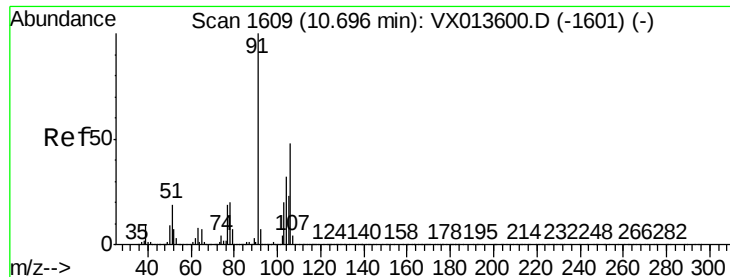
91 198.0 159.0 238.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

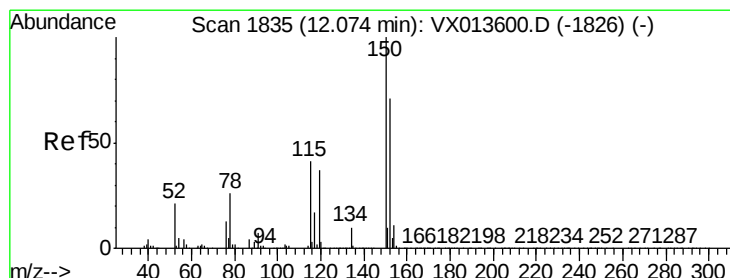
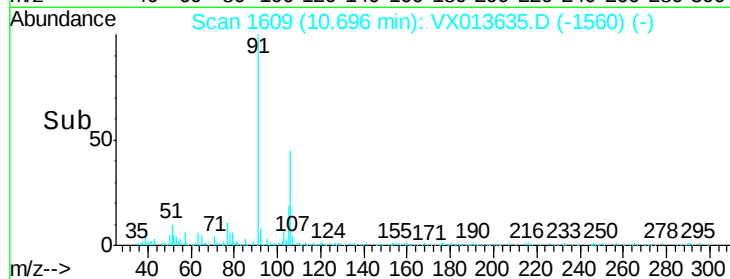
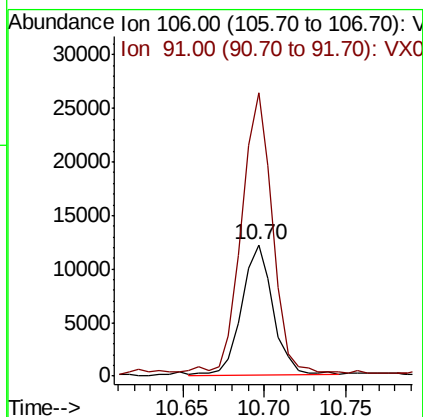
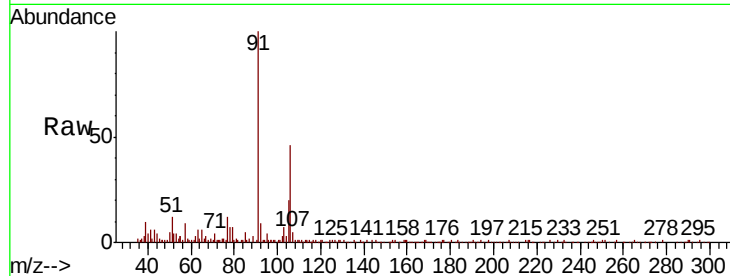




#69
o-Xylene
Concen: 1.276 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. -0.00 min
Lab File: VX013635.D
Acq: 27 Nov 2019 06:12

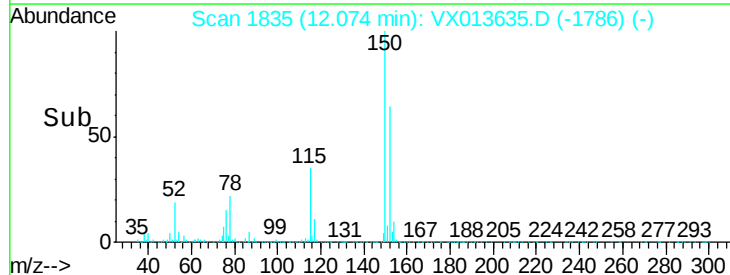
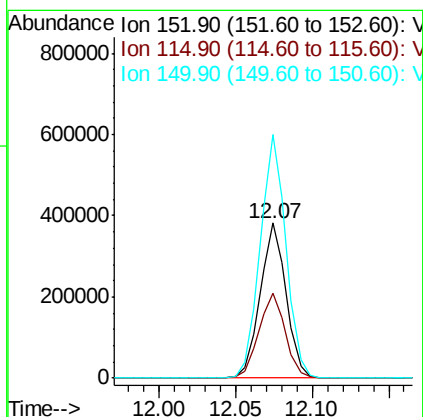
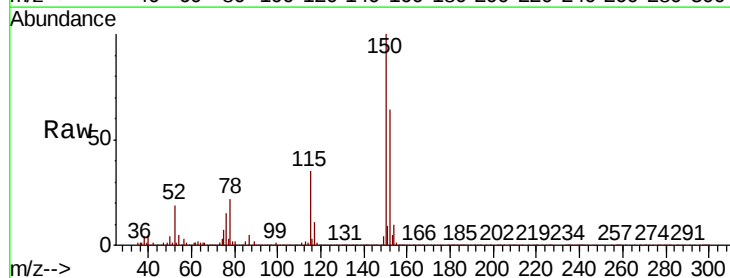
Instrument :
MSVOA_X
ClientSampled :
MW-5

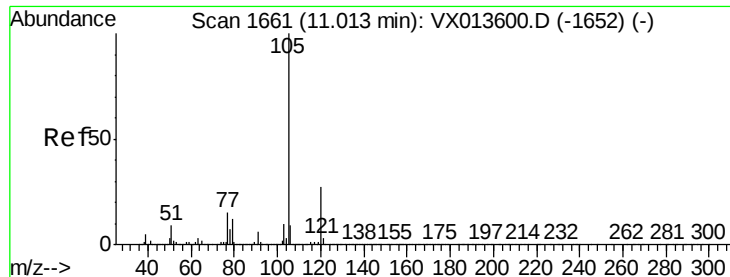
Tot Ion:106 Resp: 16373
Ion Ratio Lower Upper
106 100
91 209.8 104.1 312.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013635.D
Acq: 27 Nov 2019 06:12

Tgt Ion:152 Resp: 451015
Ion Ratio Lower Upper
152 100
115 55.9 38.4 115.1
150 157.4 0.0 346.8





#73

Isopropylbenzene

Concen: 1.453 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VX013635.D

Acq: 27 Nov 2019 06:12

Instrument :

MSVOA_X

ClientSampled :

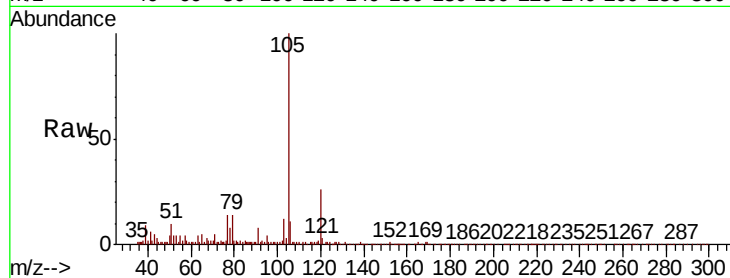
MW-5

Tot Ion:105 Resp: 45955

Ion Ratio Lower Upper

105 100

120 27.9 13.5 40.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.01

40000

30000

20000

10000

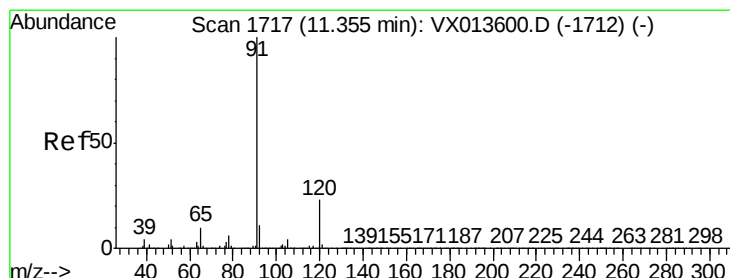
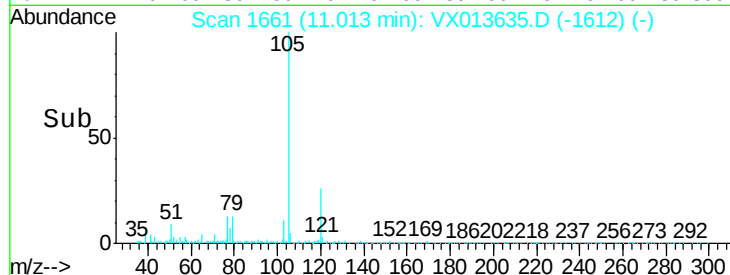
0

Time-->

10.90

11.00

11.10



#78

n-propylbenzene

Concen: 0.473 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. -0.00 min

Lab File: VX013635.D

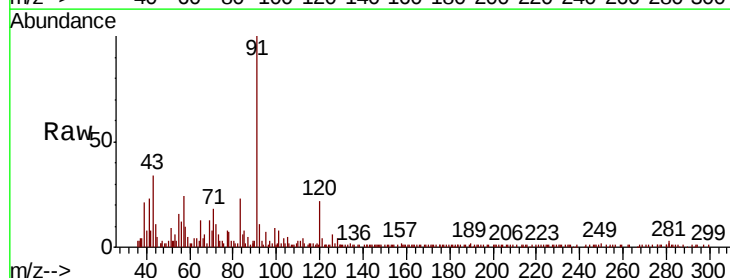
Acq: 27 Nov 2019 06:12

Tgt Ion: 91 Resp: 16700

Ion Ratio Lower Upper

91 100

120 26.1 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

15000

10000

5000

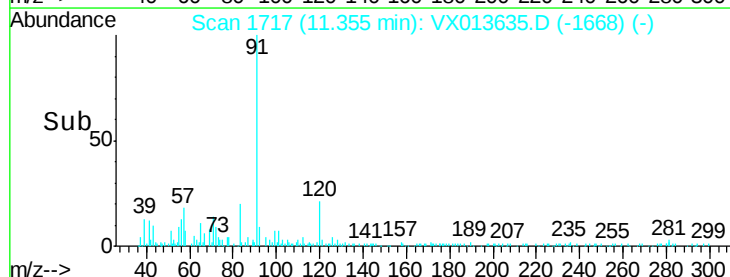
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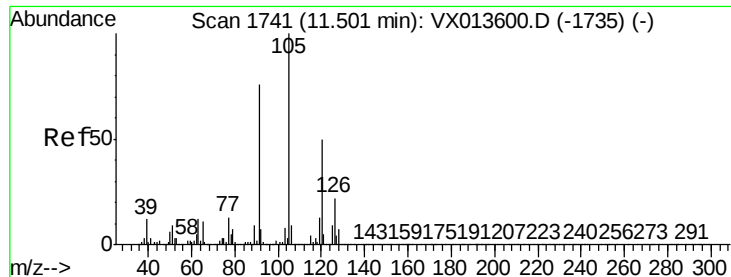
Time-->

11.30

11.35

11.40

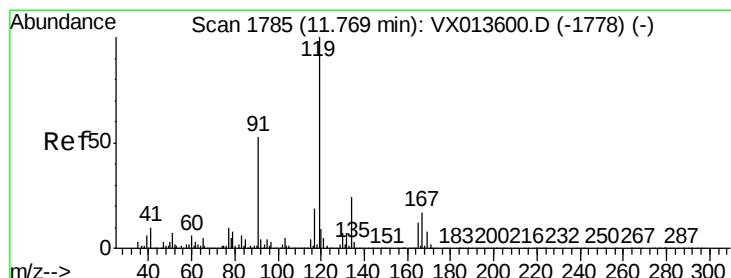
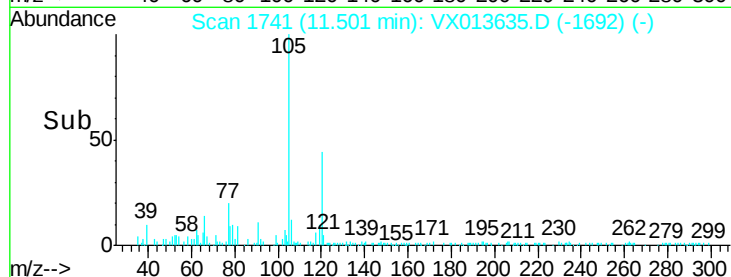
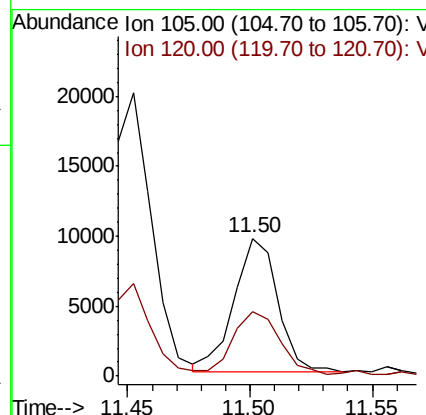
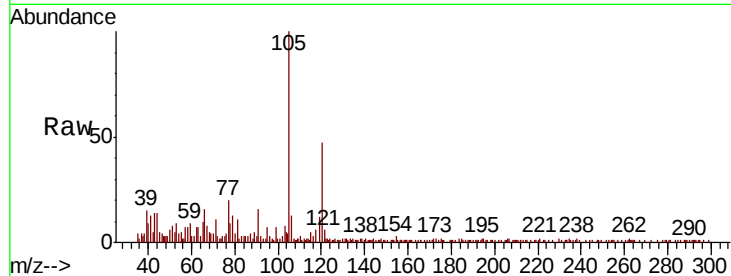




#80
 1,3,5-Trimethylbenzene
 Concen: 0.464 ug/l
 RT: 11.50 min Scan# 1741
 Delta R.T. -0.00 min
 Lab File: VX013635.D
 Acq: 27 Nov 2019 06:12

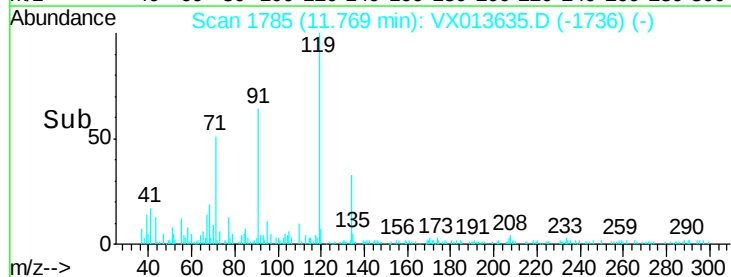
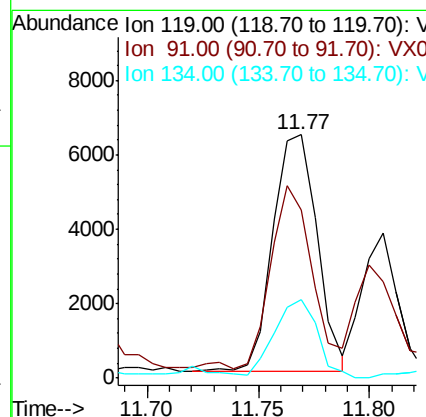
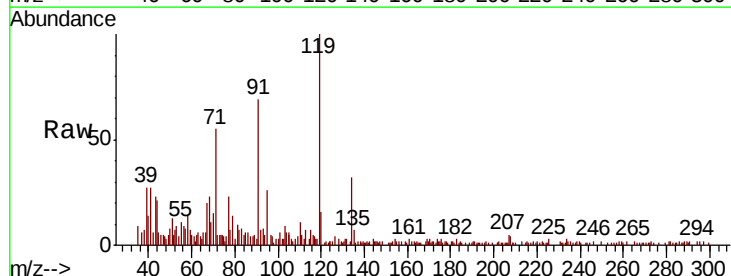
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-5

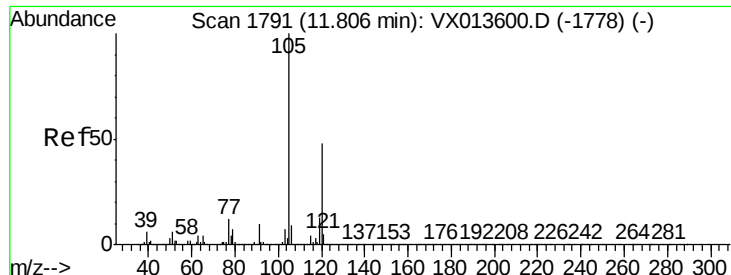
Tot Ion:105 Resp: 12026
 Ion Ratio Lower Upper
 105 100
 120 47.9 25.3 75.9



#83
 tert-Butylbenzene
 Concen: 0.334 ug/l
 RT: 11.77 min Scan# 1785
 Delta R.T. -0.00 min
 Lab File: VX013635.D
 Acq: 27 Nov 2019 06:12

Tgt Ion:119 Resp: 8804
 Ion Ratio Lower Upper
 119 100
 91 75.5 27.2 81.6
 134 32.6 11.7 35.1

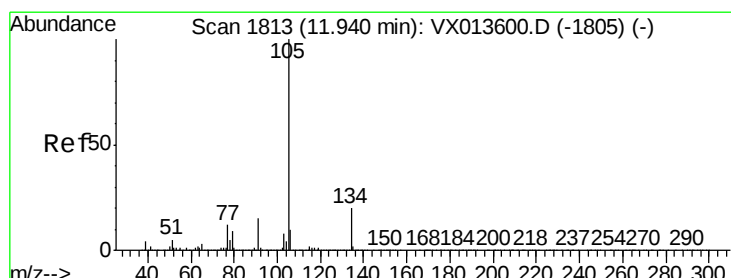
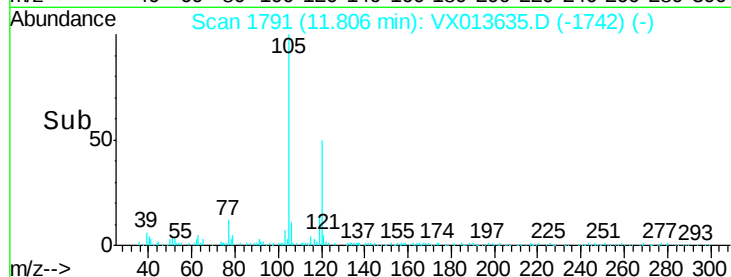
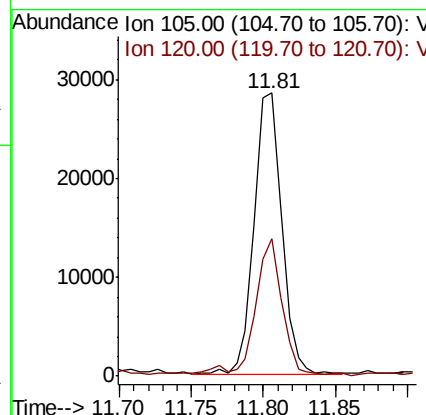
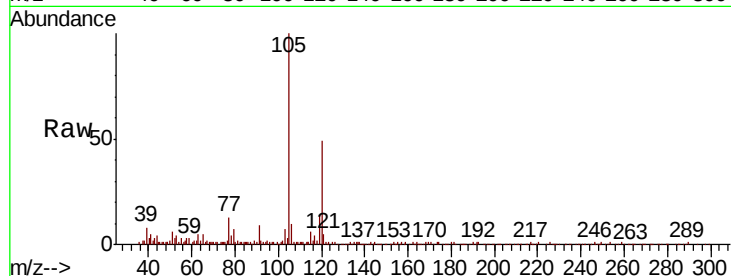




#84
 1,2,4-Trimethylbenzene
 Concen: 1.427 ug/l
 RT: 11.81 min Scan# 1791
 Delta R.T. -0.00 min
 Lab File: VX013635.D
 Acq: 27 Nov 2019 06:12

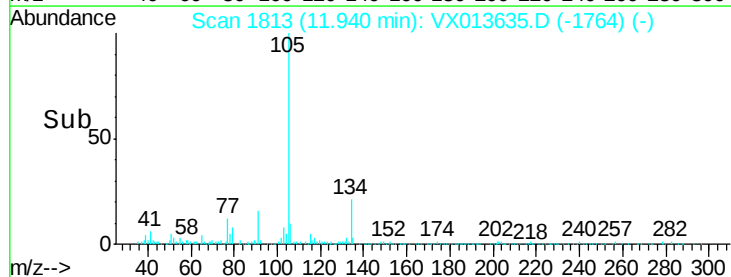
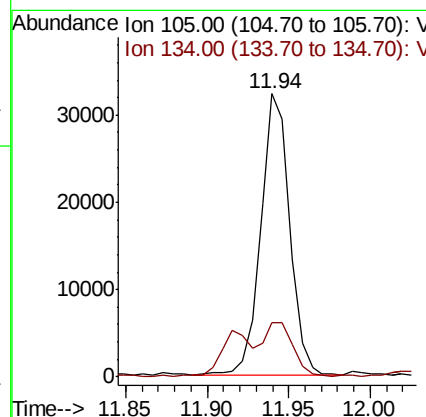
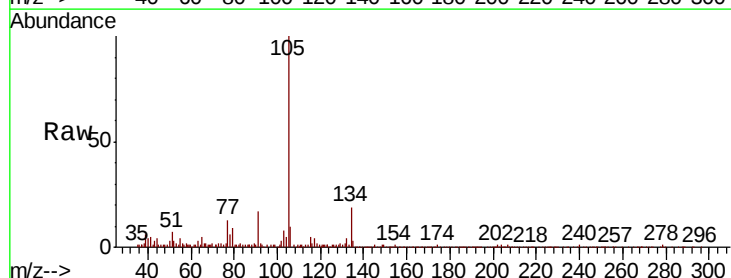
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-5

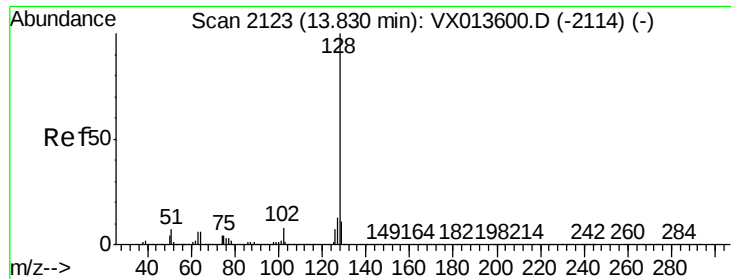
Tot Ion:105 Resp: 37552
 Ion Ratio Lower Upper
 105 100
 120 46.8 23.1 69.3



#85
 sec-Butylbenzene
 Concen: 1.308 ug/l
 RT: 11.94 min Scan# 1813
 Delta R.T. -0.00 min
 Lab File: VX013635.D
 Acq: 27 Nov 2019 06:12

Tgt Ion:105 Resp: 39364
 Ion Ratio Lower Upper
 105 100
 134 20.0 10.4 31.2





#95
Naphthalene
Concen: 1.654 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. -0.00 min
Lab File: VX013635.D
Acq: 27 Nov 2019 06:12

Instrument :
MSVOA_X
ClientSampleId :
MW-5

Tot Ion:128 Resp: 50544
Ion Ratio Lower Upper
128 100
127 13.7 10.3 15.5
129 15.1 8.7 13.1#

