

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032519\
 Data File : VX008439.D
 Acq On : 26 Mar 2019 02:48
 Operator : JC/SP
 Sample : K2059-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-4

Quant Time: Mar 26 07:20:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 04:58:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	225764	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	383169	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	330521	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	141585	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	162008	47.33	ug/l	0.00
Spiked Amount			Recovery	=	94.66%	
35) Dibromofluoromethane	5.50	113	119867	47.98	ug/l	0.00
Spiked Amount			Recovery	=	95.96%	
50) Toluene-d8	8.71	98	484941	48.54	ug/l	0.00
Spiked Amount			Recovery	=	97.08%	
62) 4-Bromofluorobenzene	11.13	95	169088	45.67	ug/l	0.00
Spiked Amount			Recovery	=	91.34%	

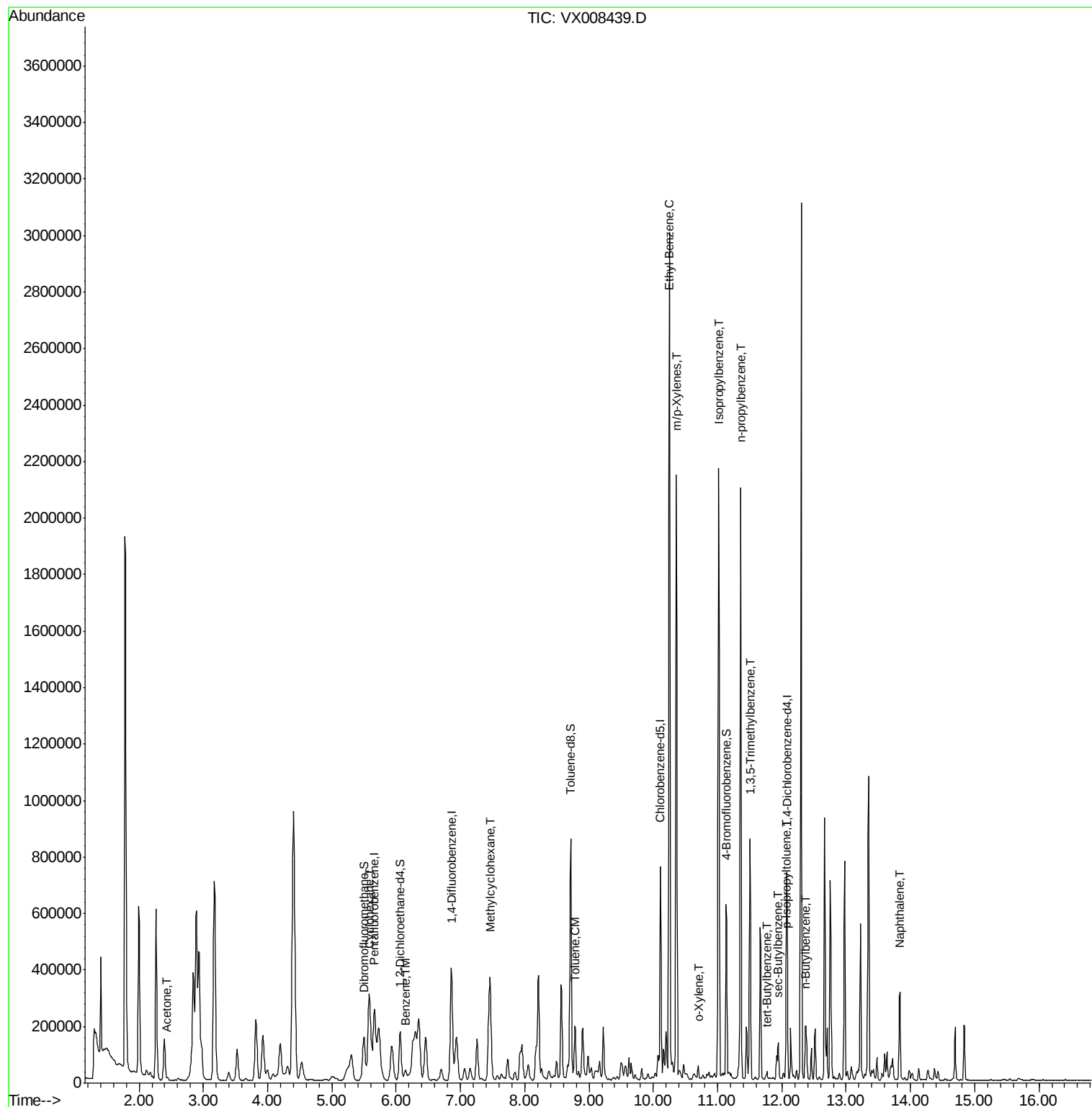
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	2.44	43	8327	4.655	ug/l	93
31) Cyclohexane	5.58	56	229731	41.875	ug/l	98
39) Methylcyclohexane	7.46	83	143832	29.459	ug/l	93
40) Benzene	6.15	78	40684	3.326	ug/l	96
52) Toluene	8.78	92	64916	8.877	ug/l	96
67) Ethyl Benzene	10.25	91	1652624	121.825	ug/l	100
68) m/p-Xylenes	10.36	106	467796	94.790	ug/l	100
69) o-Xylene	10.70	106	7379	1.541	ug/l	99
73) Isopropylbenzene	11.02	105	1073118	93.164	ug/l	99
78) n-propylbenzene	11.36	91	1224614	90.757	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	348883	35.827	ug/l	100
83) tert-Butylbenzene	11.77	119	10258	1.092	ug/l	88
85) sec-Butylbenzene	11.94	105	62083	5.549	ug/l	96
86) p-Isopropyltoluene	12.06	119	9323	0.944	ug/l #	75
89) n-Butylbenzene	12.38	91	69295	7.409	ug/l #	73
95) Naphthalene	13.83	128	185113	16.033	ug/l	99

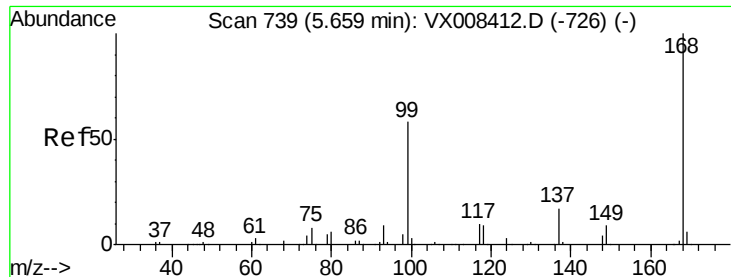
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Mar 26 04:58:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008439.D

Acq: 26 Mar 2019 02:48

Instrument :

MSVOA_X

ClientSampleId :

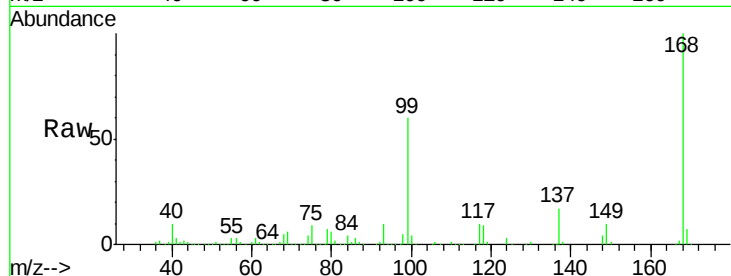
MW-4

Tot Ion:168 Resp: 225764

Ion Ratio Lower Upper

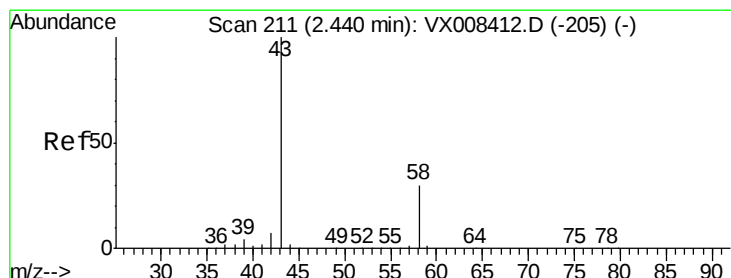
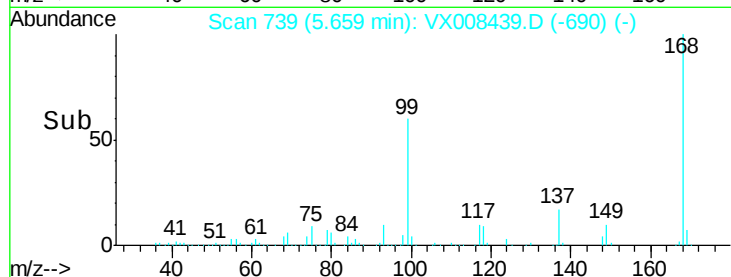
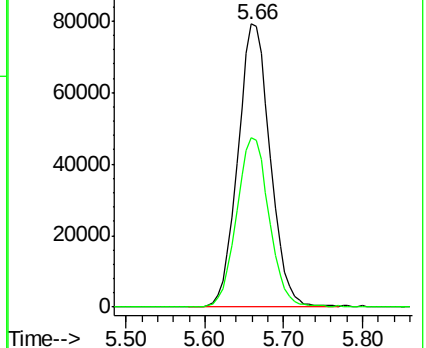
168 100

99 59.9 46.0 69.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#16

Acetone

Concen: 4.655 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.00 min

Lab File: VX008439.D

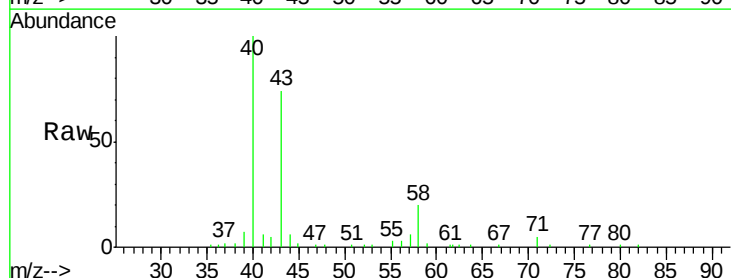
Acq: 26 Mar 2019 02:48

Tgt Ion: 43 Resp: 8327

Ion Ratio Lower Upper

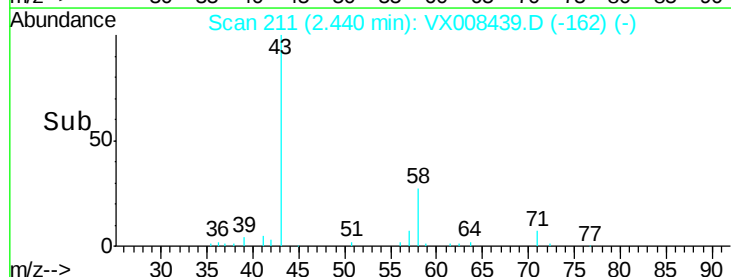
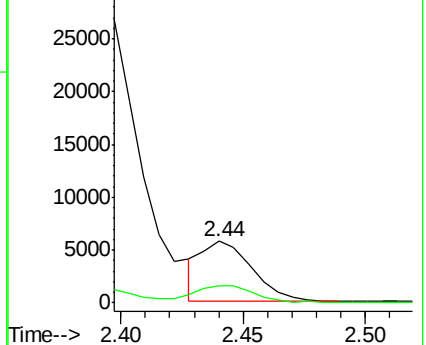
43 100

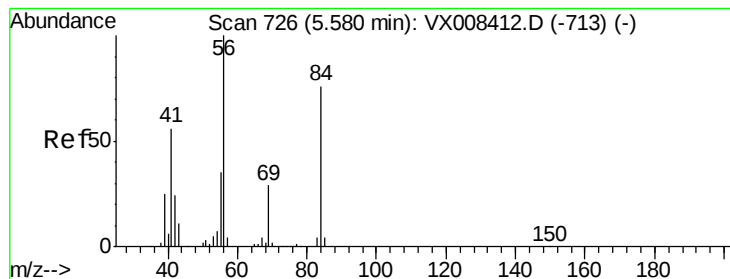
58 26.6 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#31

Cyclohexane

Concen: 41.875 ug/l

RT: 5.58 min Scan# 726

Delta R.T. -0.00 min

Lab File: VX008439.D

Acq: 26 Mar 2019 02:48

Instrument :

MSVOA_X

ClientSampleId :

MW-4

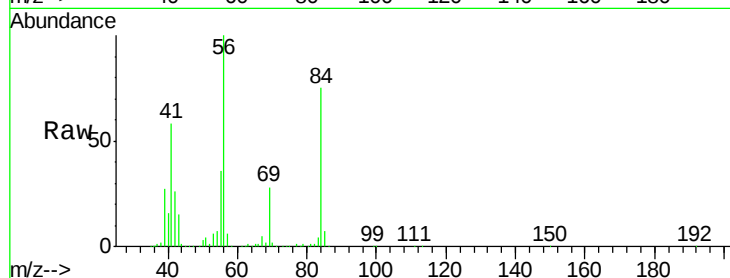
Tot Ion: 56 Resp: 229731

Ion Ratio Lower Upper

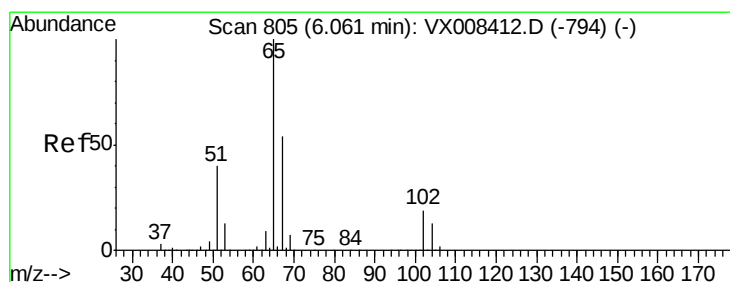
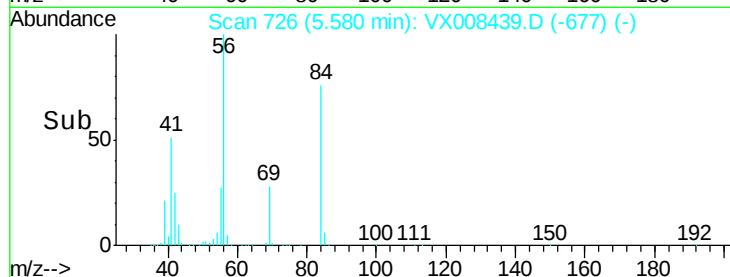
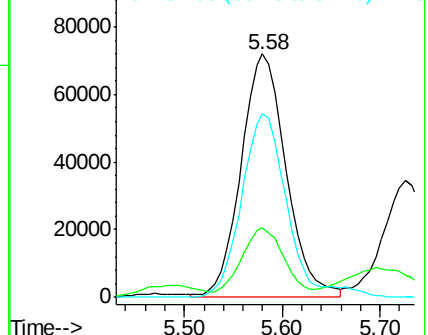
56 100

69 24.6 23.2 34.8

84 76.0 60.7 91.1



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: 47.334 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008439.D

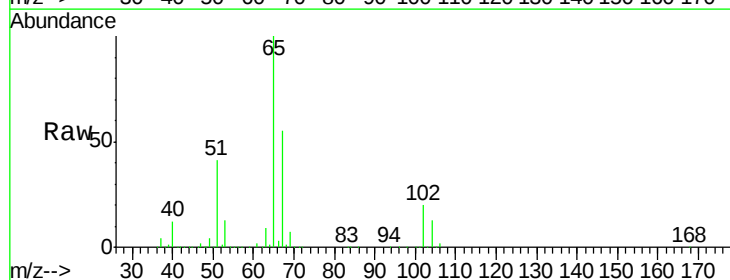
Acq: 26 Mar 2019 02:48

Tgt Ion: 65 Resp: 162008

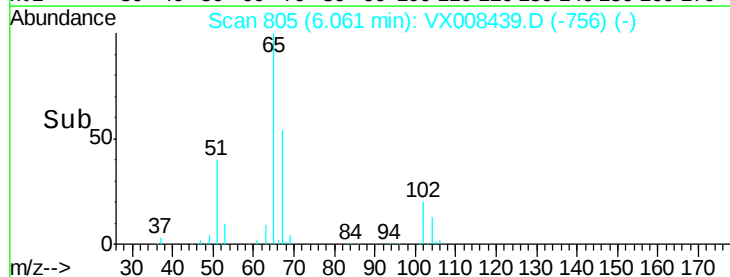
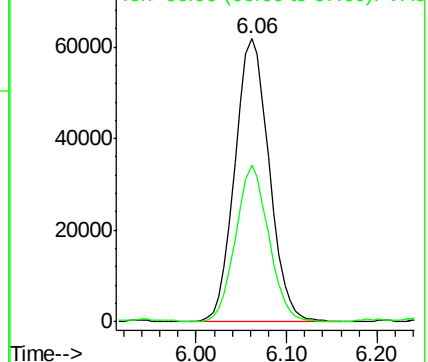
Ion Ratio Lower Upper

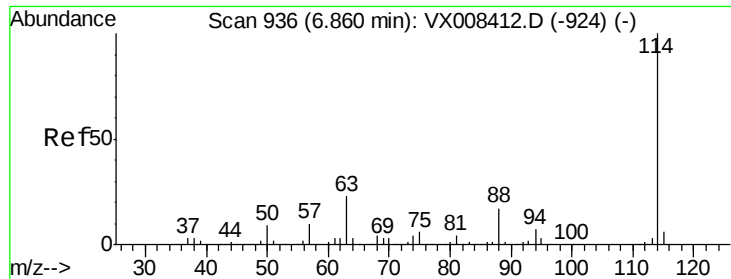
65 100

67 53.2 0.0 109.4



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

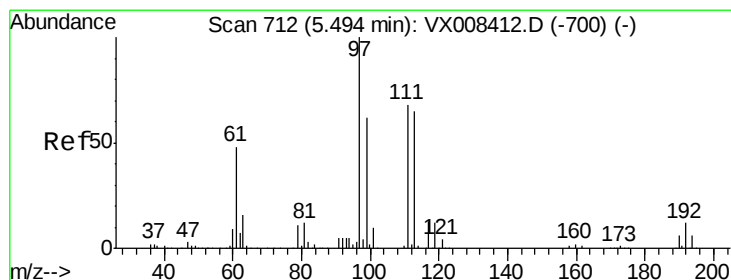
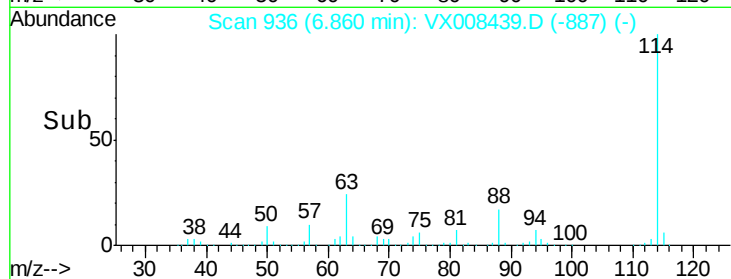
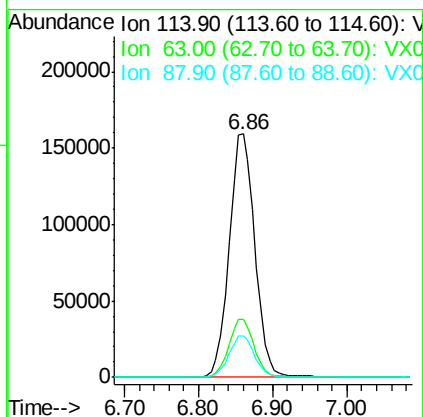
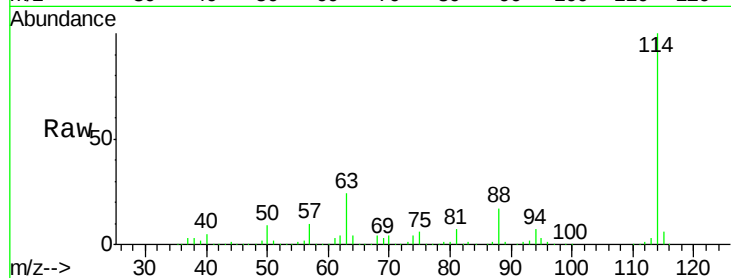




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008439.D
 Acq: 26 Mar 2019 02:48

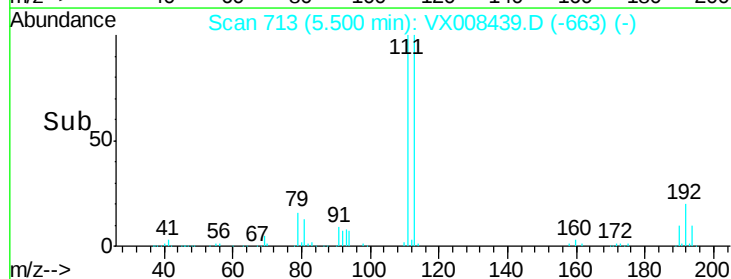
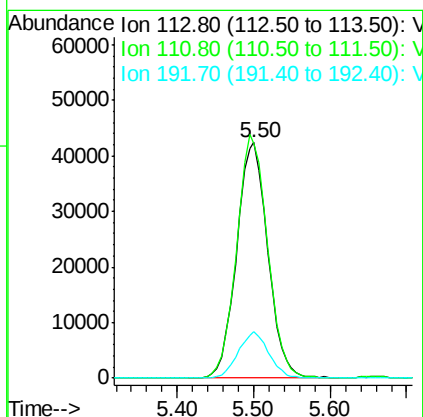
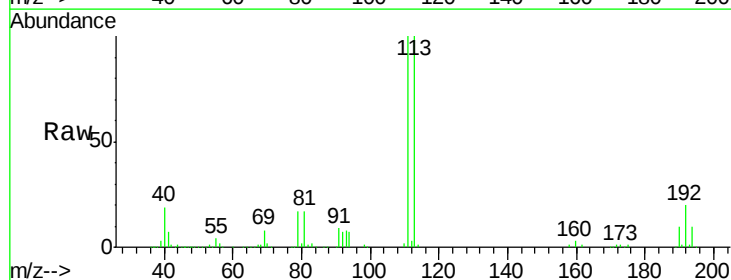
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-4

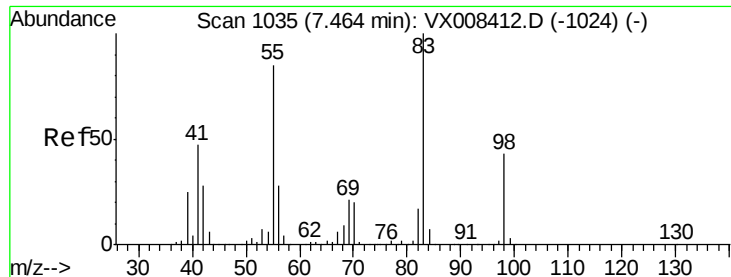
Tot Ion:114 Resp: 383169
 Ion Ratio Lower Upper
 114 100
 63 23.9 0.0 46.4
 88 17.2 0.0 33.2



#35
 Dibromofluoromethane
 Concen: 47.977 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX008439.D
 Acq: 26 Mar 2019 02:48

Tgt Ion:113 Resp: 119867
 Ion Ratio Lower Upper
 113 100
 111 102.4 83.0 124.4
 192 19.2 15.6 23.4





#39

Methvlcvclohexane

Concen: 29.459 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. -0.00 min

Lab File: VX008439.D

Acq: 26 Mar 2019 02:48

Instrument :

MSVOA_X

ClientSampleId :

MW-4

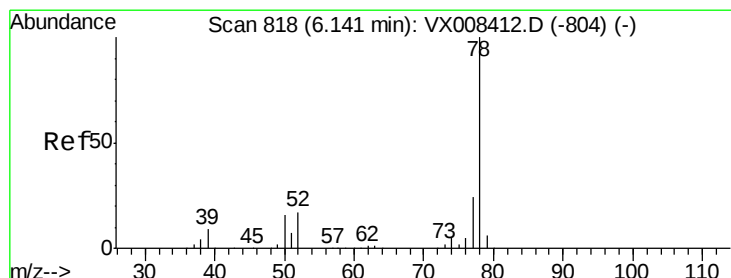
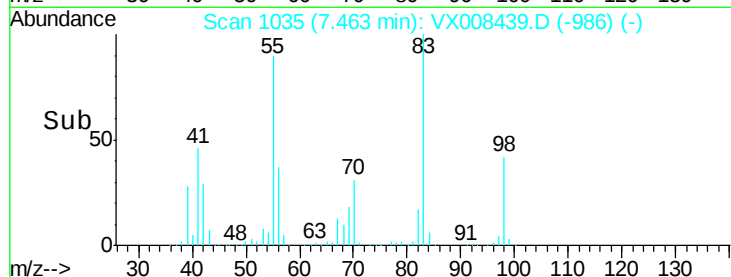
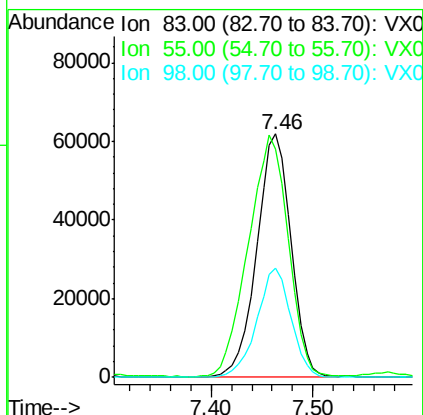
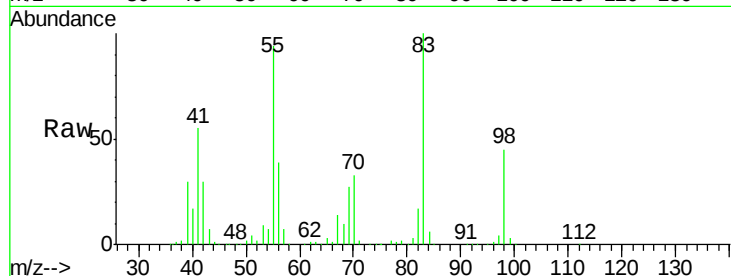
Tot Ion: 83 Resp: 143832

Ion Ratio Lower Upper

83 100

55 93.7 68.2 102.4

98 44.5 34.2 51.4



#40

Benzene

Concen: 3.326 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX008439.D

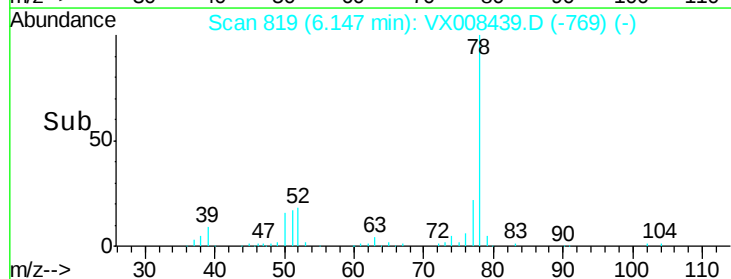
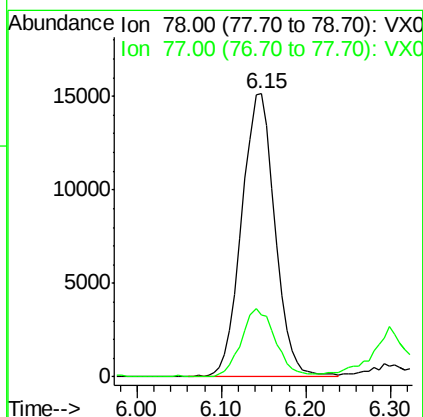
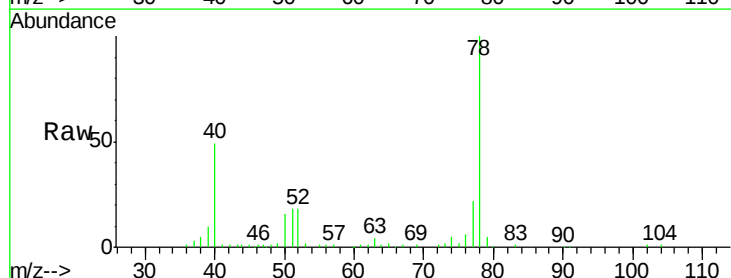
Acq: 26 Mar 2019 02:48

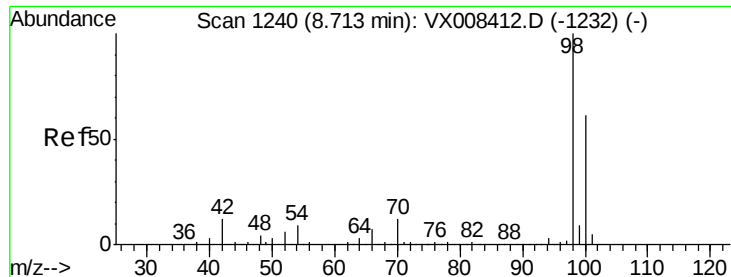
Tgt Ion: 78 Resp: 40684

Ion Ratio Lower Upper

78 100

77 21.9 19.3 28.9

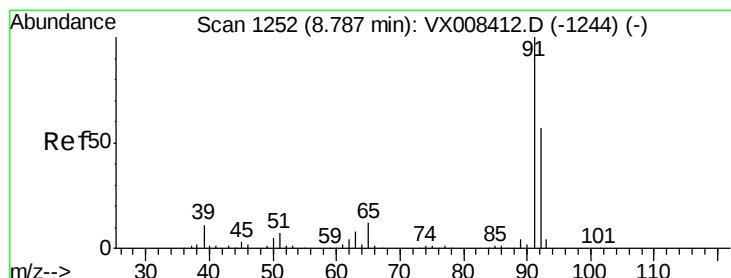
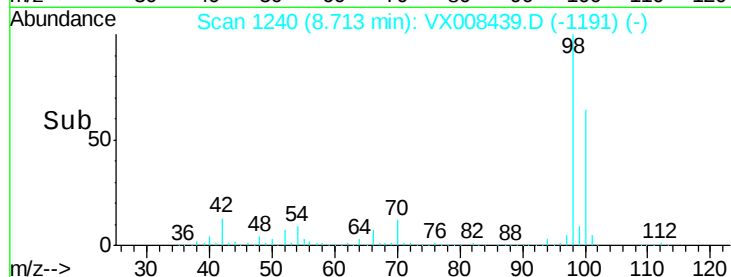
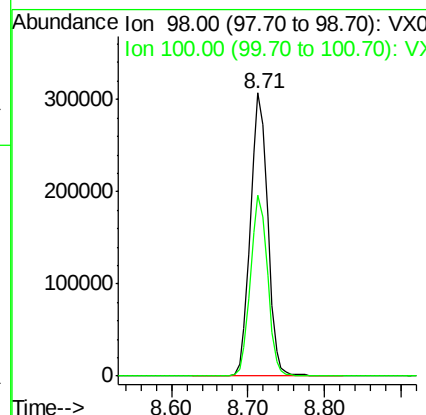
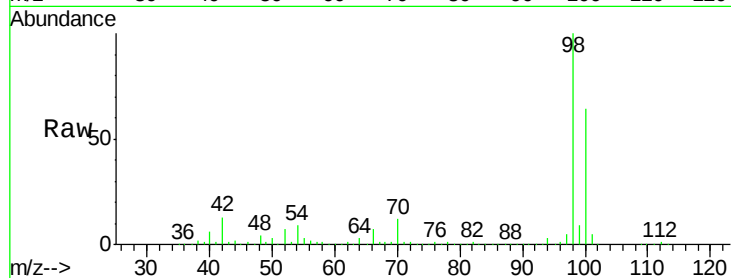




#50
Toluene-d8
Concen: 48.542 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008439.D
Acq: 26 Mar 2019 02:48

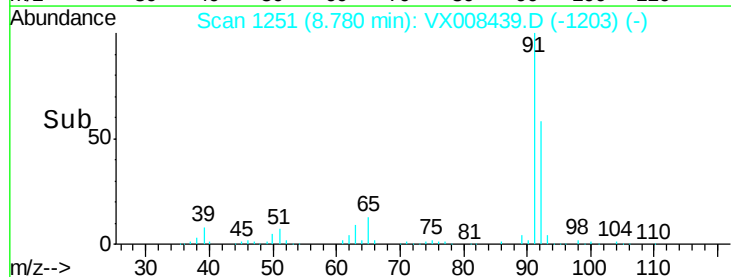
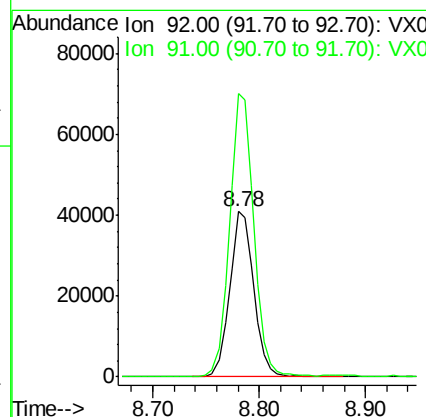
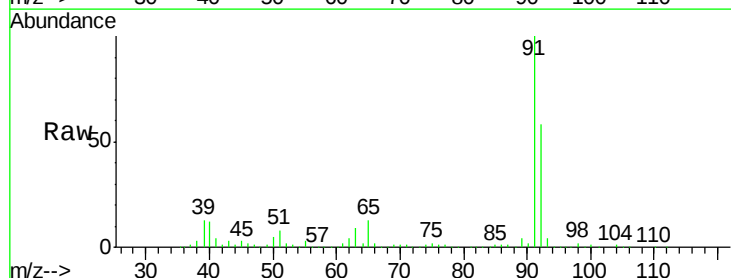
Instrument :
MSVOA_X
ClientSampleId :
MW-4

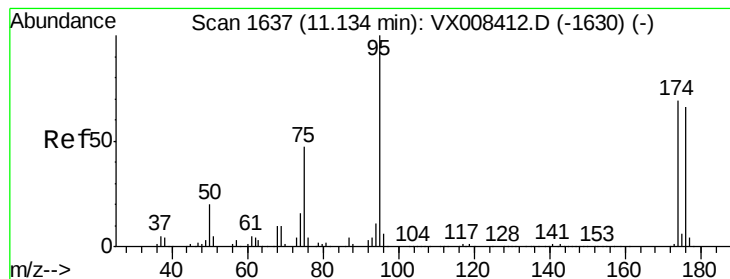
Tot Ion: 98 Resp: 484941
Ion Ratio Lower Upper
98 100
100 63.5 51.1 76.7



#52
Toluene
Concen: 8.877 ug/l
RT: 8.78 min Scan# 1251
Delta R.T. -0.01 min
Lab File: VX008439.D
Acq: 26 Mar 2019 02:48

Tgt Ion: 92 Resp: 64916
Ion Ratio Lower Upper
92 100
91 170.2 140.2 210.4





#62

4-Bromofluorobenzene

Concen: 45.675 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008439.D

Acq: 26 Mar 2019 02:48

Instrument :

MSVOA_X

ClientSampleId :

MW-4

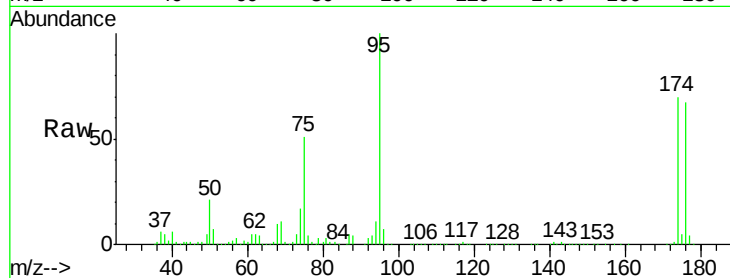
Tot Ion: 95 Resp: 169088

Ion Ratio Lower Upper

95 100

174 72.5 0.0 147.2

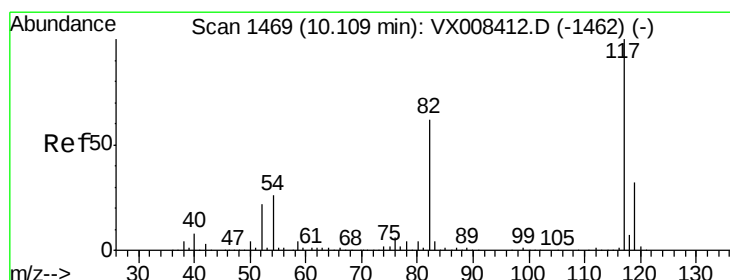
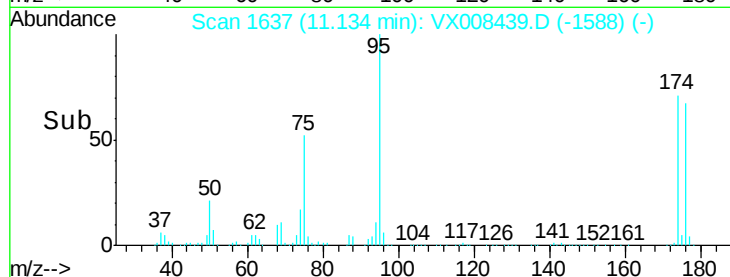
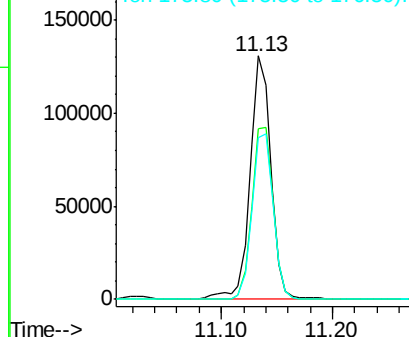
176 69.5 0.0 142.4



Abundance Ion 94.90 (94.60 to 95.60): VX008439.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX008439.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX008439.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008439.D

Acq: 26 Mar 2019 02:48

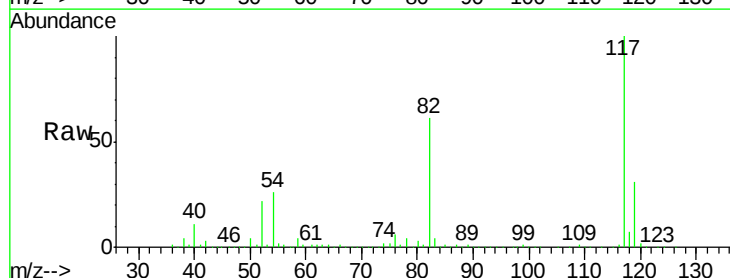
Tgt Ion: 117 Resp: 330521

Ion Ratio Lower Upper

117 100

82 61.4 49.4 74.2

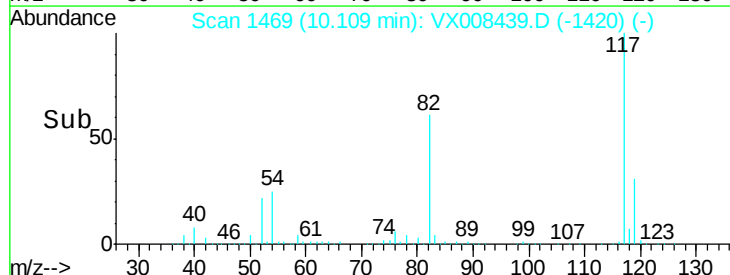
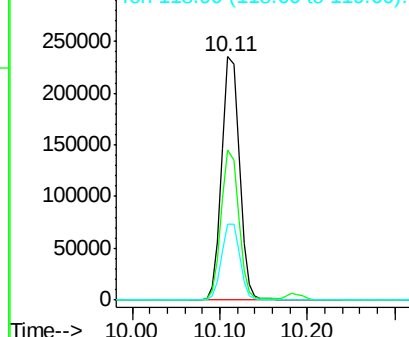
119 31.2 25.4 38.0

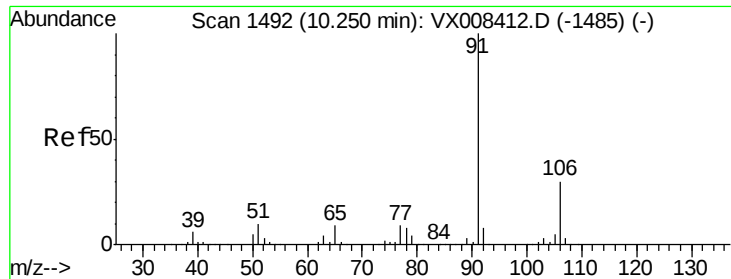


Abundance Ion 116.90 (116.60 to 117.60): VX008439.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX008439.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX008439.D (-1420) (-)

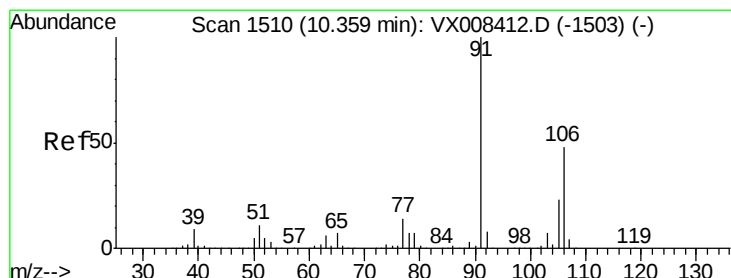
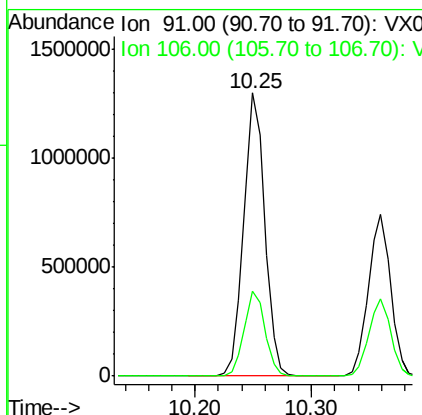
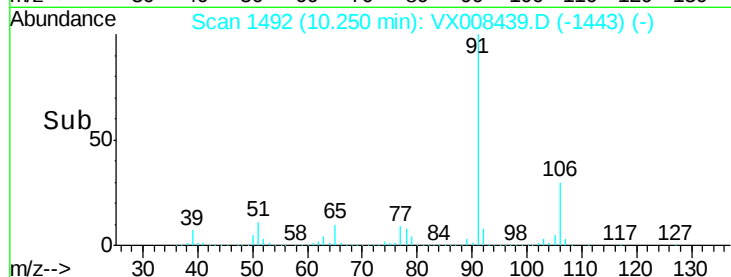
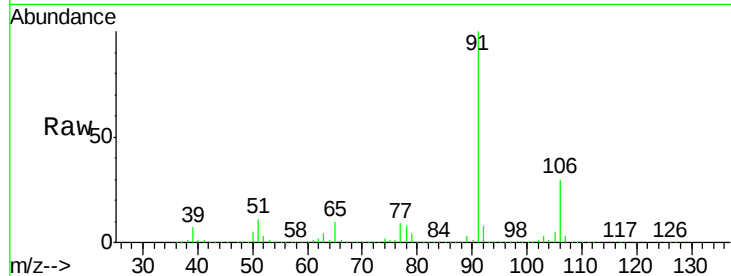




#67
Ethyl Benzene
Concen: 121.825 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VX008439.D
Acq: 26 Mar 2019 02:48

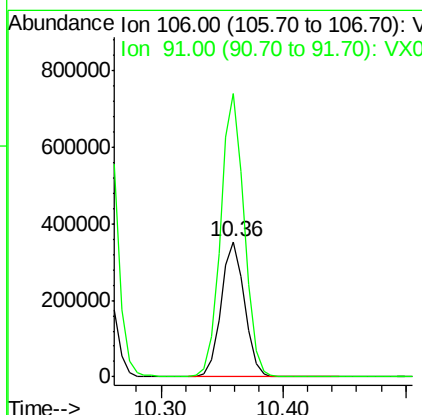
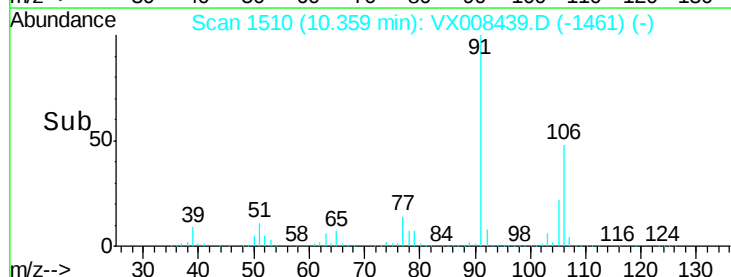
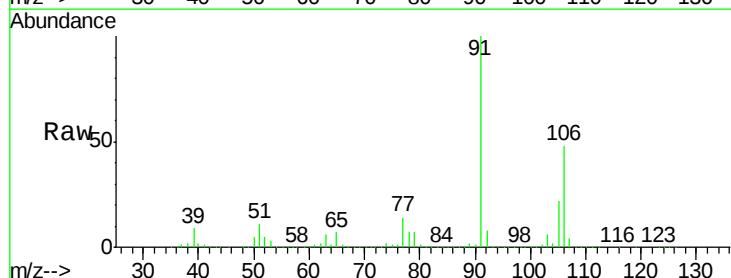
Instrument :
MSVOA_X
ClientSampled :
MW-4

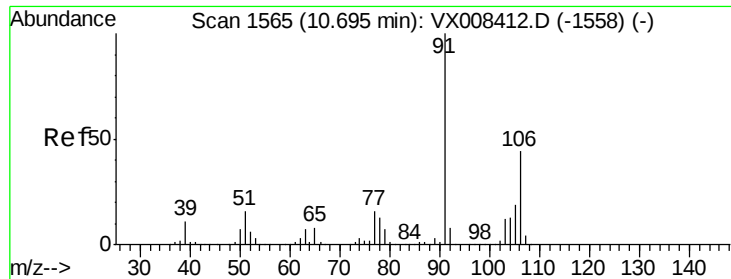
Tot Ion: 91 Resp: 1652624
Ion Ratio Lower Upper
91 100
106 29.9 24.0 36.0



#68
m/p-Xylenes
Concen: 94.790 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX008439.D
Acq: 26 Mar 2019 02:48

Tgt Ion: 106 Resp: 467796
Ion Ratio Lower Upper
106 100
91 210.6 168.6 253.0

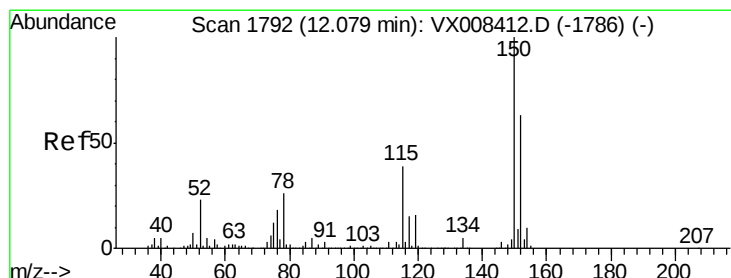
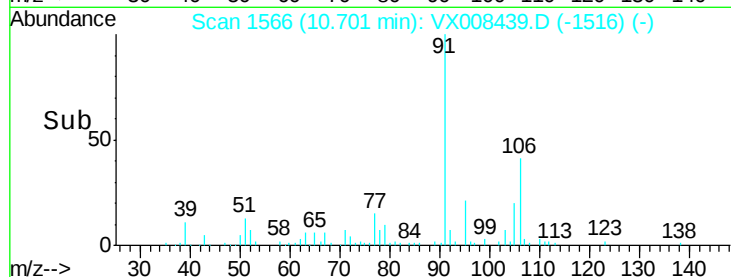
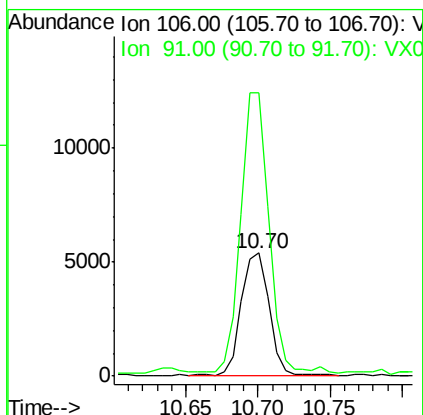
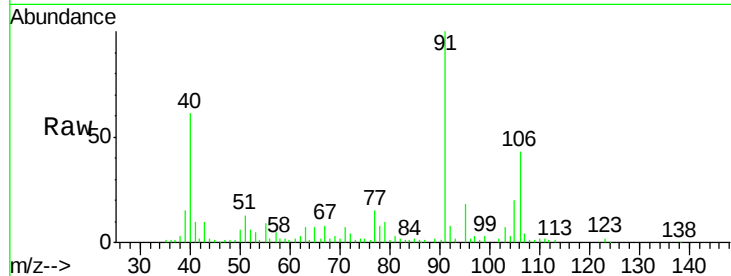




#69
o-Xylene
Concen: 1.541 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VX008439.D
Acq: 26 Mar 2019 02:48

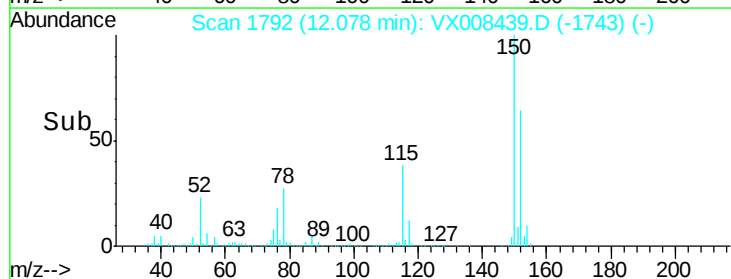
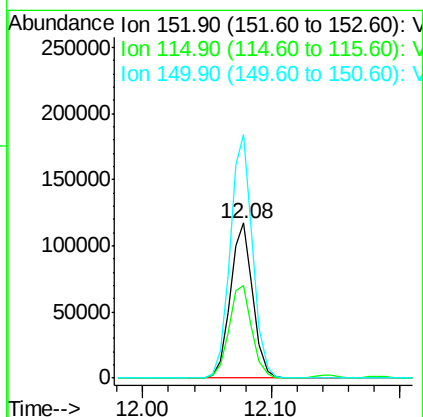
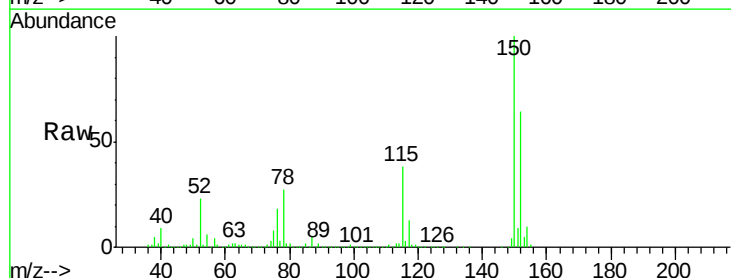
Instrument :
MSVOA_X
ClientSampled :
MW-4

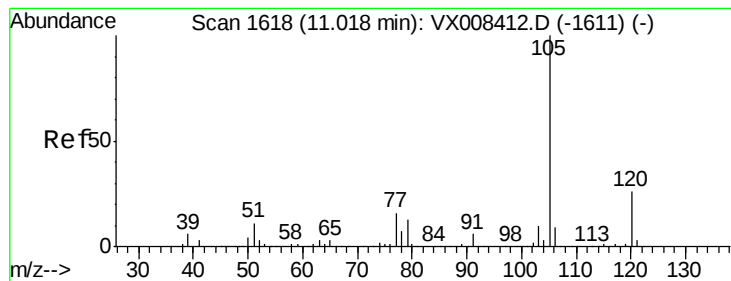
Tot Ion:106 Resp: 7379
Ion Ratio Lower Upper
106 100
91 225.2 111.4 334.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008439.D
Acq: 26 Mar 2019 02:48

Tgt Ion:152 Resp: 141585
Ion Ratio Lower Upper
152 100
115 61.3 43.5 130.5
150 157.5 0.0 348.8





#73

Isopropylbenzene

Concen: 93.164 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX008439.D

Acq: 26 Mar 2019 02:48

Instrument :

MSVOA_X

ClientSampleId :

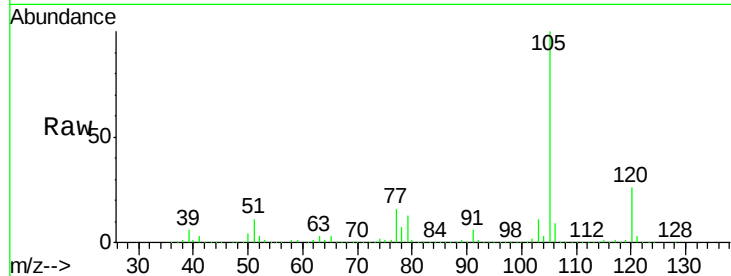
MW-4

Tot Ion:105 Resp: 1073118

Ion Ratio Lower Upper

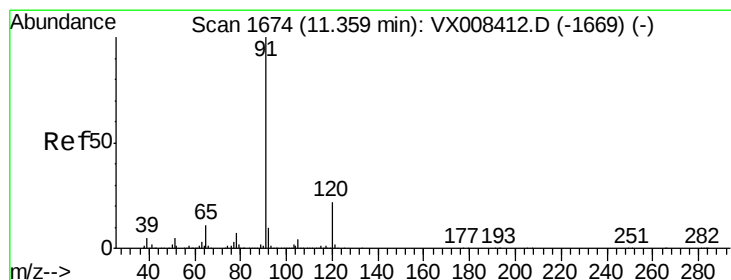
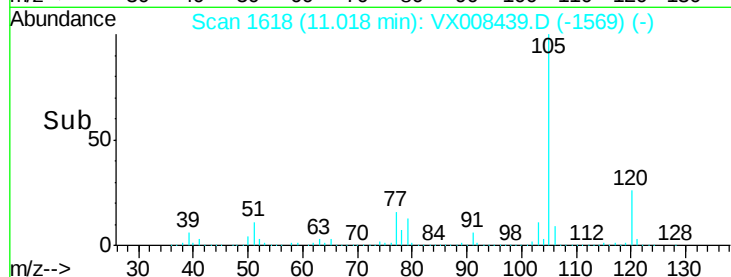
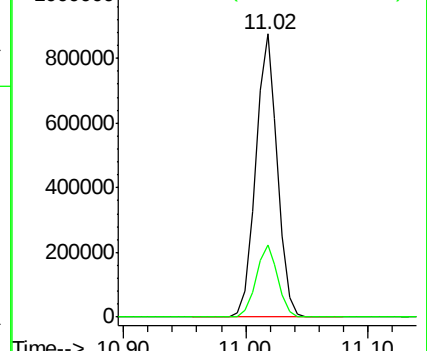
105 100

120 25.5 12.9 38.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 90.757 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX008439.D

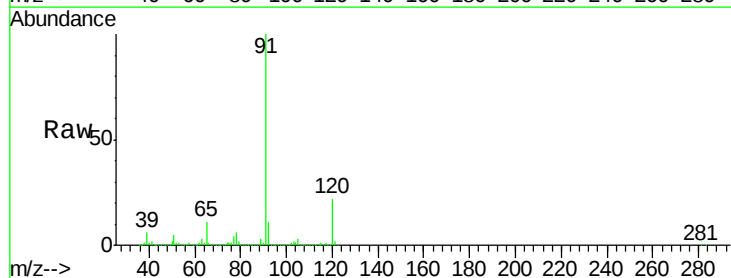
Acq: 26 Mar 2019 02:48

Tgt Ion: 91 Resp: 1224614

Ion Ratio Lower Upper

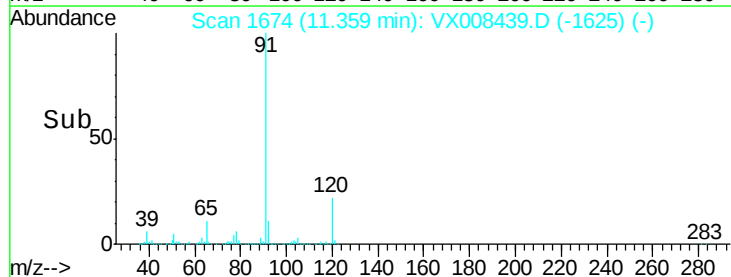
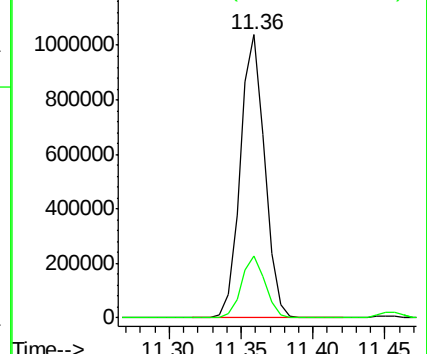
91 100

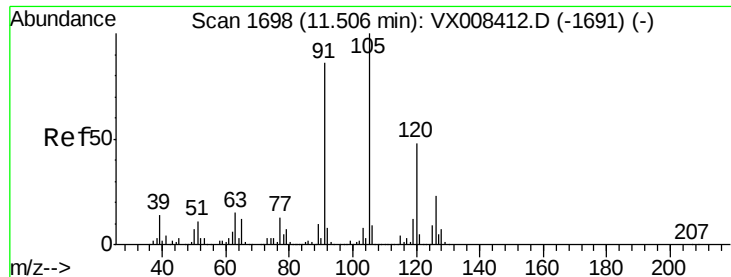
120 21.4 10.8 32.4



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#80

1,3,5-Trimethylbenzene

Concen: 35.827 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX008439.D

Acq: 26 Mar 2019 02:48

Instrument :

MSVOA_X

ClientSampleId :

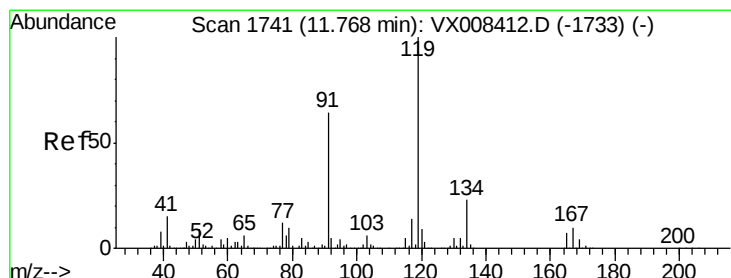
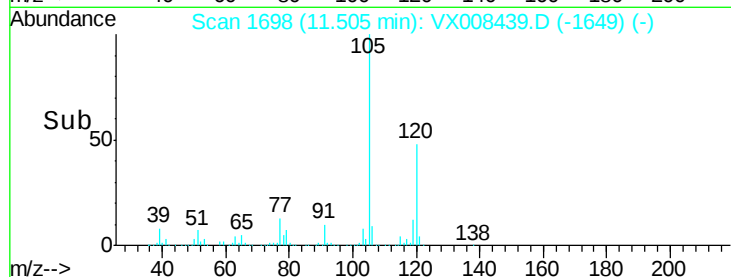
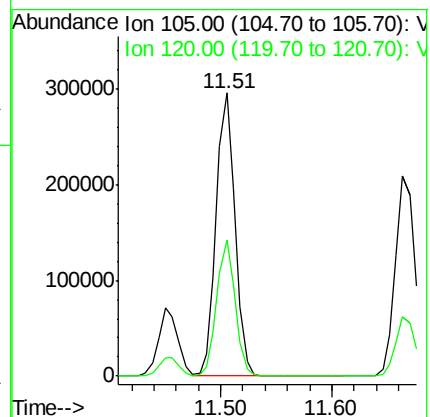
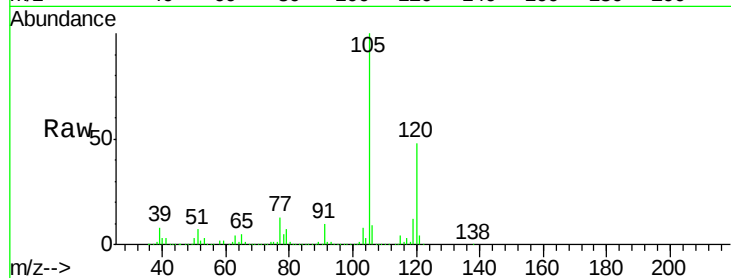
MW-4

Tot Ion:105 Resp: 348883

Ion Ratio Lower Upper

105 100

120 46.9 23.4 70.3



#83

tert-Butylbenzene

Concen: 1.092 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX008439.D

Acq: 26 Mar 2019 02:48

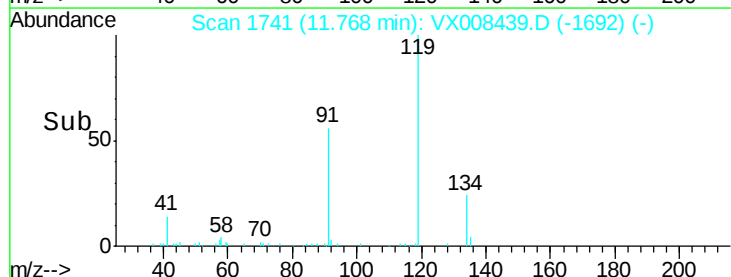
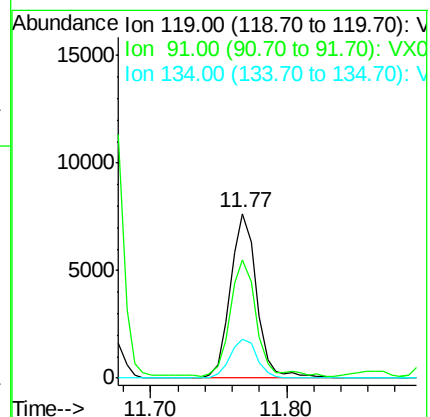
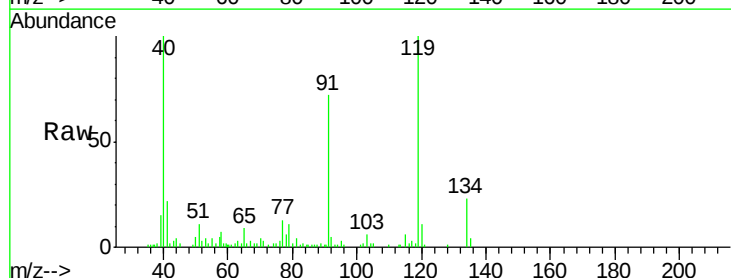
Tgt Ion:119 Resp: 10258

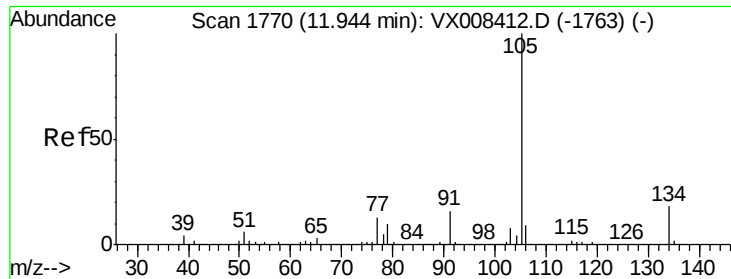
Ion Ratio Lower Upper

119 100

91 71.3 30.1 90.3

134 24.0 10.9 32.9





#85

sec-Butylbenzene

Concen: 5.549 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX008439.D

Acq: 26 Mar 2019 02:48

Instrument :

MSVOA_X

ClientSampleId :

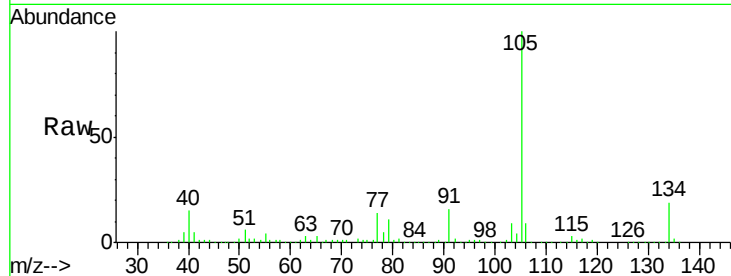
MW-4

Tot Ion:105 Resp: 62083

Ion Ratio Lower Upper

105 100

134 16.7 9.3 28.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

60000

50000

40000

30000

20000

10000

0

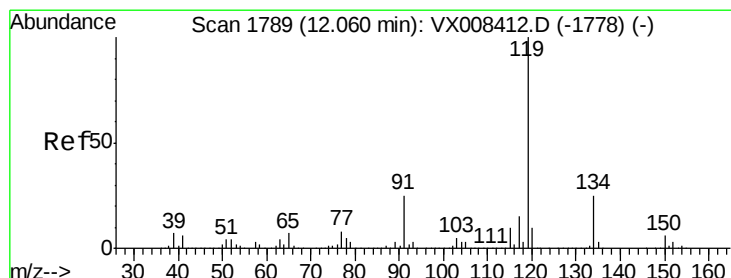
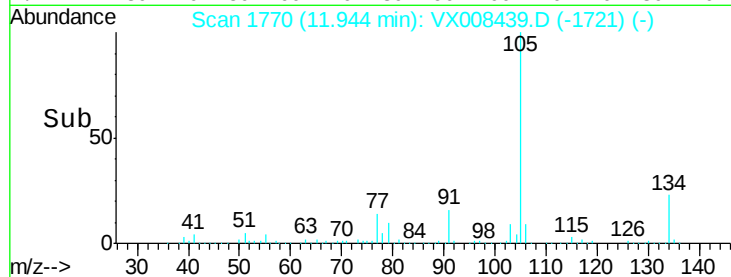
11.85

11.90

11.95

12.00

Time-->



#86

p-Isopropyltoluene

Concen: 0.944 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX008439.D

Acq: 26 Mar 2019 02:48

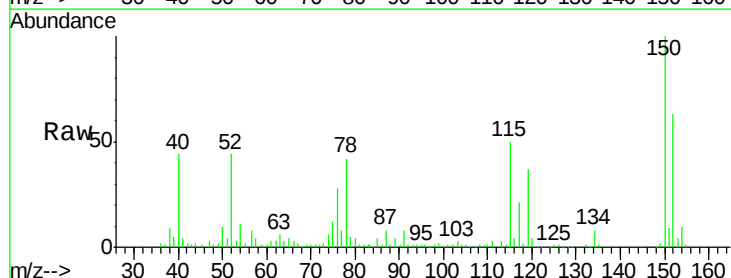
Tgt Ion:119 Resp: 9323

Ion Ratio Lower Upper

119 100

134 26.4 12.8 38.4

91 0.0 12.4 37.0#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

10000

8000

6000

4000

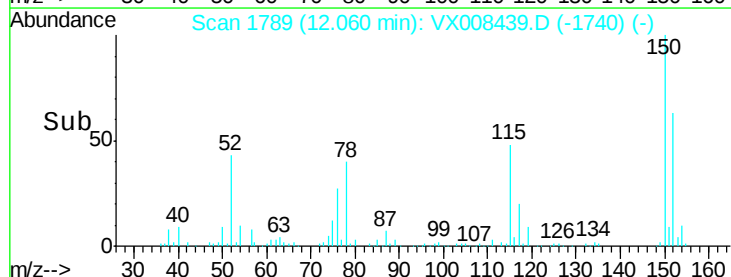
2000

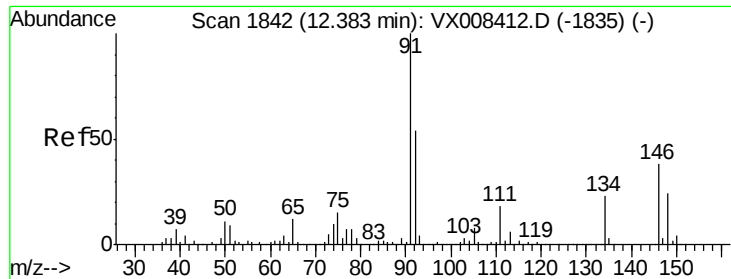
0

12.05

12.10

Time-->





#89

n-Butylbenzene

Concen: 7.409 ug/l

RT: 12.38 min Scan# 1842

Delta R.T. -0.00 min

Lab File: VX008439.D

Acq: 26 Mar 2019 02:48

Instrument :

MSVOA_X

ClientSampled :

MW-4

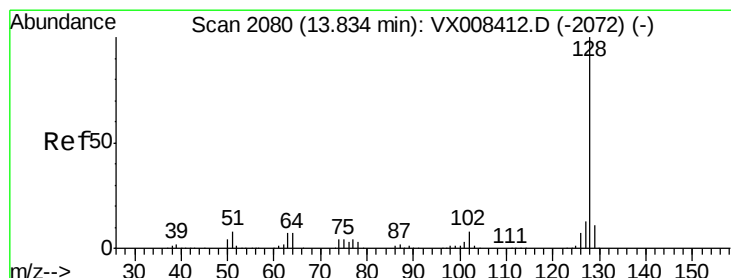
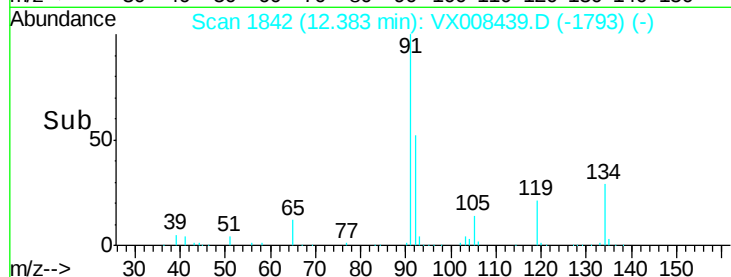
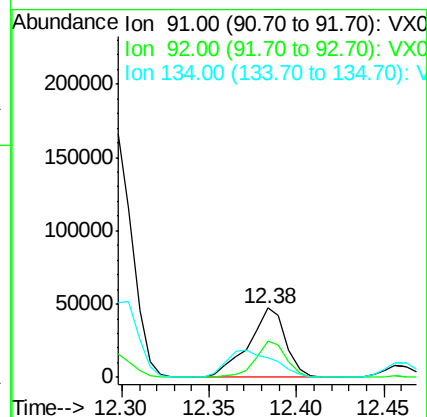
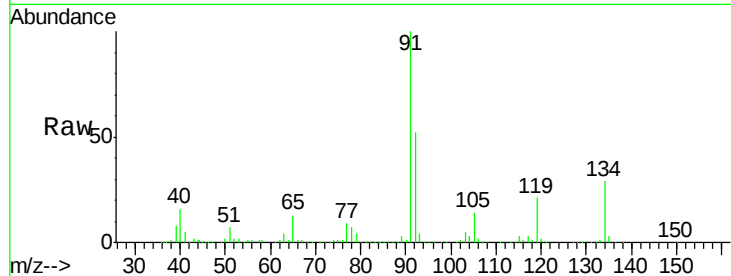
Tot Ion: 91 Resp: 69295

Ion Ratio Lower Upper

91 100

92 43.3 26.5 79.5

134 51.0 11.8 35.4#



#95

Naphthalene

Concen: 16.033 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX008439.D

Acq: 26 Mar 2019 02:48

Tgt Ion:128 Resp: 185113

Ion Ratio Lower Upper

128 100

127 13.2 10.4 15.6

129 11.5 8.7 13.1

