

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052219\
 Data File : VX009839.D
 Acq On : 23 May 2019 05:58
 Operator : JC/SP
 Sample : K2976-20 50X
 Misc : 5.74u/5mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 23 07:26:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	180837	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	294617	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	279454	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	143705	50.00	ug/l	0.00

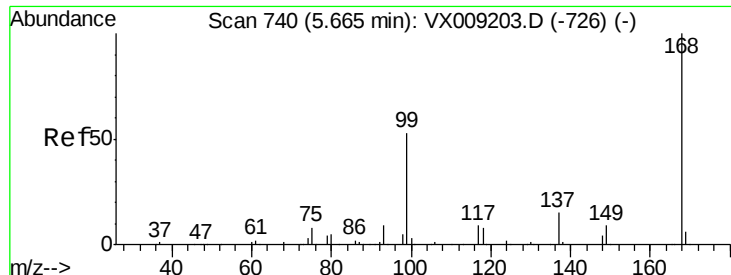
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	126171	51.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.22%	
35) Dibromofluoromethane	5.50	113	89754	48.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.92%	
50) Toluene-d8	8.71	98	381263	50.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.98%	
62) 4-Bromofluorobenzene	11.13	95	148244	54.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.12%	

Target Compounds

					Qvalue	
16) Acetone	2.45	43	594	0.448	ug/l #	70
28) Bromochloromethane	5.01	49	108	Below Cal	#	20
31) Cyclohexane	5.67	56	4337	1.188	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14261	5.209	ug/l #	51
38) Carbon Tetrachloride	5.67	117	17393	6.992	ug/l #	16
55) 1,1,2-Trichloroethane	9.16	97	1523	0.725	ug/l #	21
59) 2-Hexanone	9.45	43	4927	1.573	ug/l #	33
73) Isopropylbenzene	11.02	105	30722	2.940	ug/l	98
74) N-amyl acetate	10.91	43	52427	8.605	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	11.27	83	24705	6.342	ug/l #	25
76) 1,2,3-Trichloropropane	11.13	75	75516	22.654	ug/l #	34
78) n-propylbenzene	11.36	91	53885	4.515	ug/l	98
79) 2-Chlorotoluene	11.36	91	53885	7.318	ug/l #	42
81) trans-1,4-Dichloro-2-buten	11.13	75	75516	57.964	ug/l #	12
82) 4-Chlorotoluene	11.77	91	5044	0.606	ug/l	94
83) tert-Butylbenzene	11.77	119	6162	0.720	ug/l	72
84) 1,2,4-Trimethylbenzene	11.80	105	35945	4.070	ug/l	99
85) sec-Butylbenzene	11.94	105	47811	4.711	ug/l	95
86) p-Isopropyltoluene	12.23	119	11812	1.295	ug/l	94
89) n-Butylbenzene	12.38	91	29261	3.549	ug/l #	84
90) Hexachloroethane	12.59	117	1122	0.722	ug/l #	7

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009839.D

Acq: 23 May 2019 05:58

Instrument :

MSVOA_X

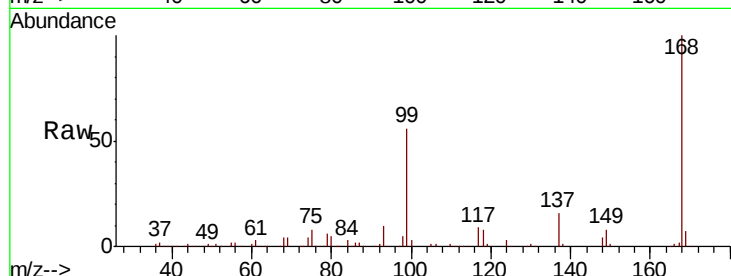
ClientSampleId :

Tot Ion:168 Resp: 180837

Ion Ratio Lower Upper

168 100

99 56.3 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

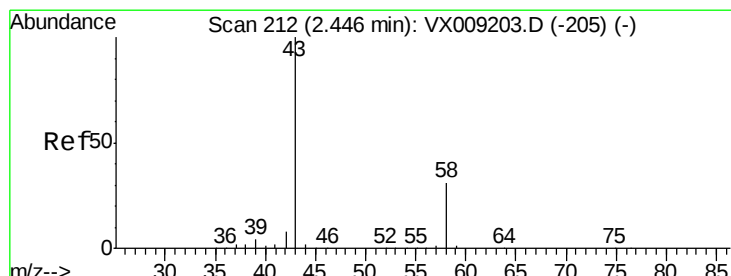
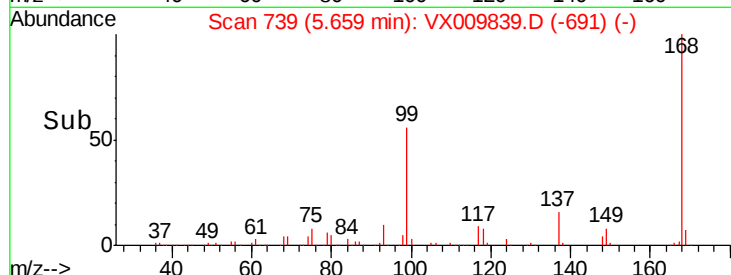
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#16

Acetone

Concen: 0.448 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009839.D

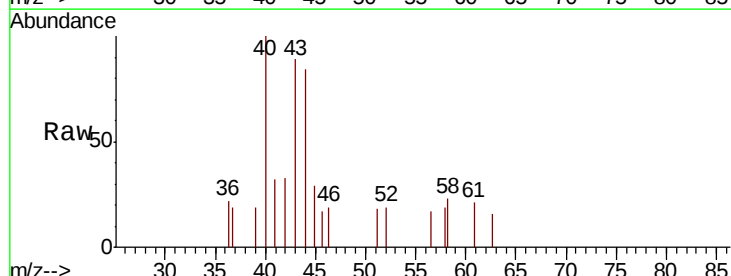
Acq: 23 May 2019 05:58

Tgt Ion: 43 Resp: 594

Ion Ratio Lower Upper

43 100

58 47.8 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

300

250

200

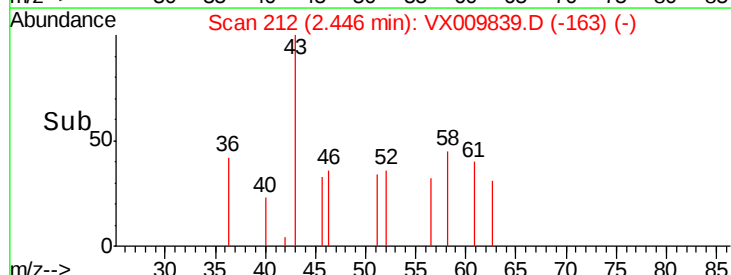
150

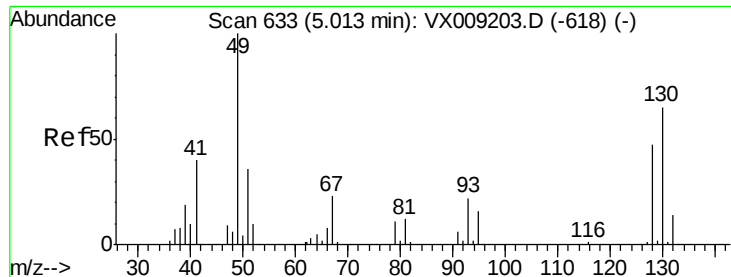
100

50

0

Time--> 2.40 2.45





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX009839.D

Acq: 23 May 2019 05:58

Instrument :

MSVOA_X

ClientSampleId :

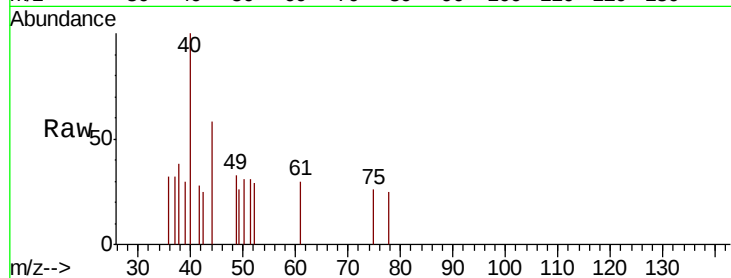
Tot Ion: 49 Resp: 108

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

5.01

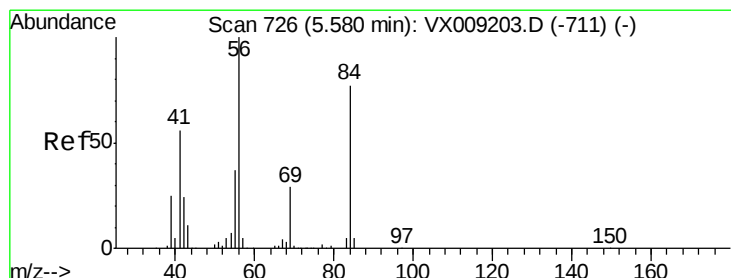
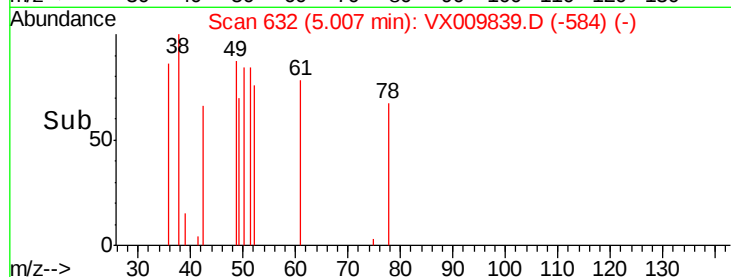
100

50

0

4.98 5.00 5.02 5.04

Time-->



#31

Cyclohexane

Concen: 1.188 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX009839.D

Acq: 23 May 2019 05:58

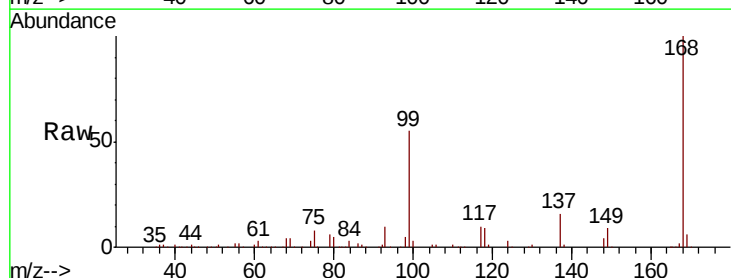
Tgt Ion: 56 Resp: 4337

Ion Ratio Lower Upper

56 100

69 169.7 23.4 35.0#

84 149.0 61.9 92.9#



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

3000

2500

2000

1500

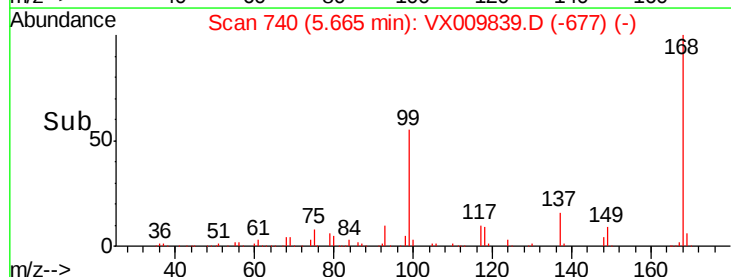
1000

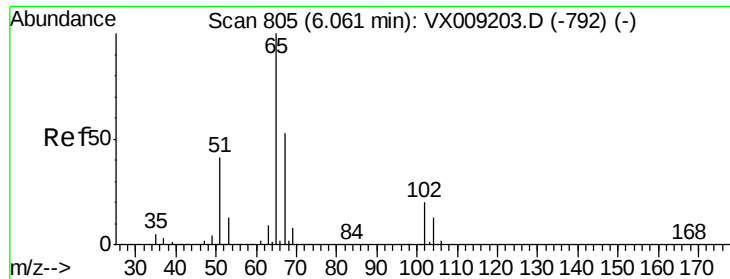
500

0

5.60 5.67 5.70

Time-->





#33

1,2-Dichloroethane-d4

Concen: 51.110 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009839.D

Acq: 23 May 2019 05:58

Instrument :

MSVOA_X

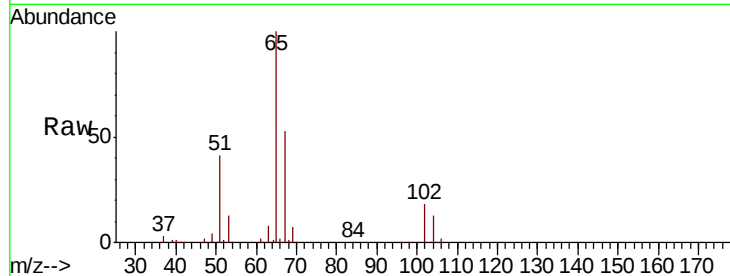
ClientSampled :

Tot Ion: 65 Resp: 126171

Ion Ratio Lower Upper

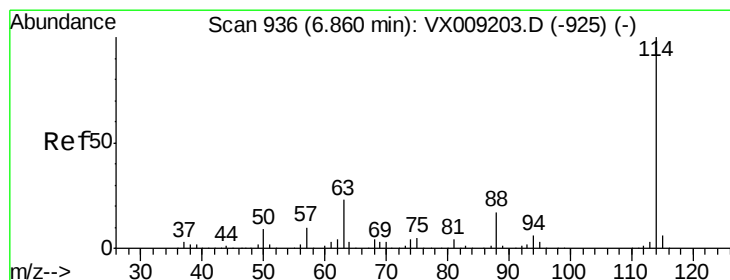
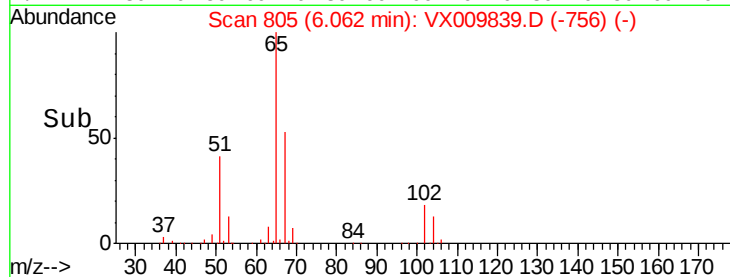
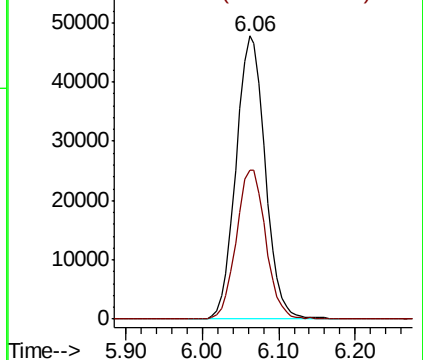
65 100

67 53.4 0.0 106.6



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: VX009839.D

Acq: 23 May 2019 05:58

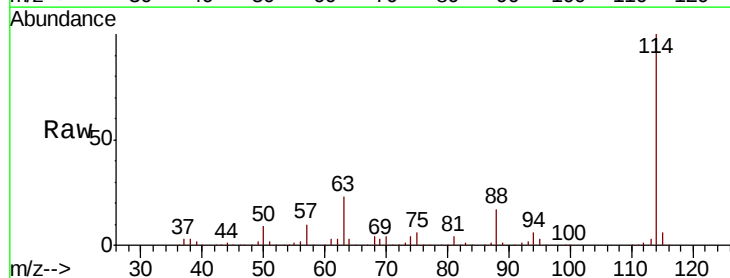
Tgt Ion: 114 Resp: 294617

Ion Ratio Lower Upper

114 100

63 23.0 0.0 45.6

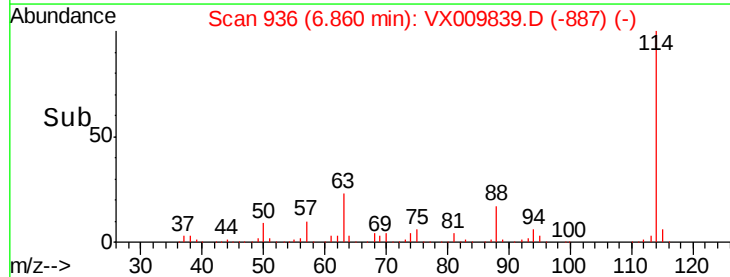
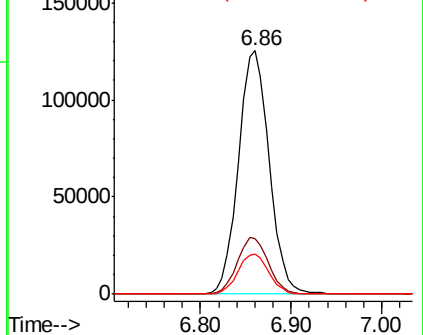
88 16.5 0.0 33.2

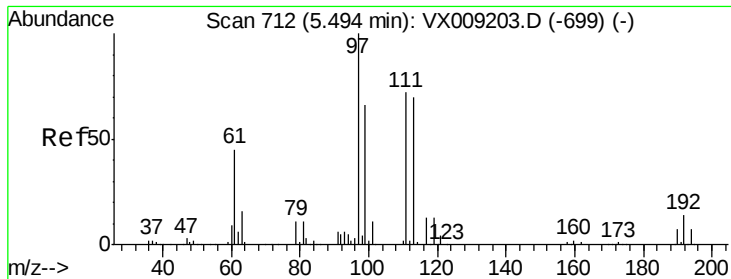


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

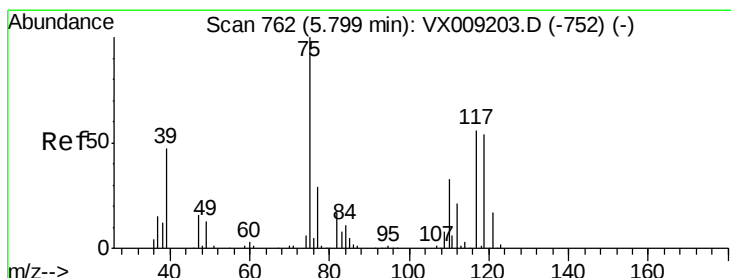
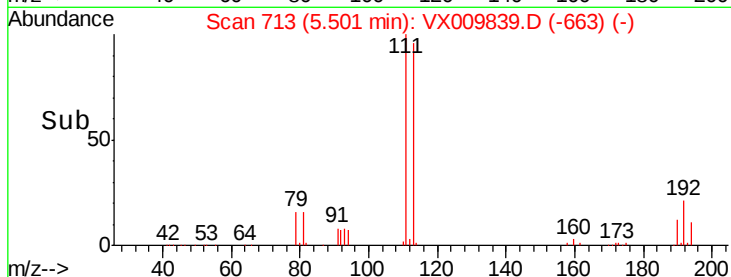
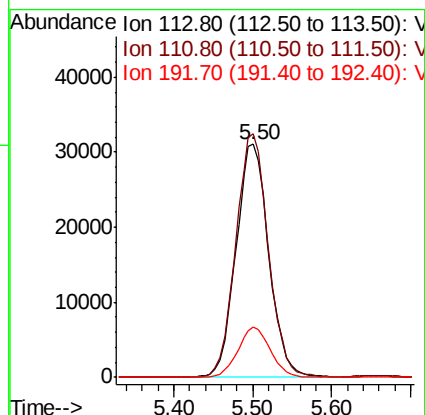
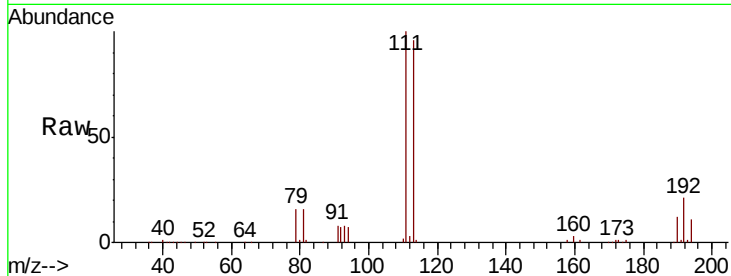




#35
 Dibromofluoromethane
 Concen: 48.461 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009839.D
 Acq: 23 May 2019 05:58

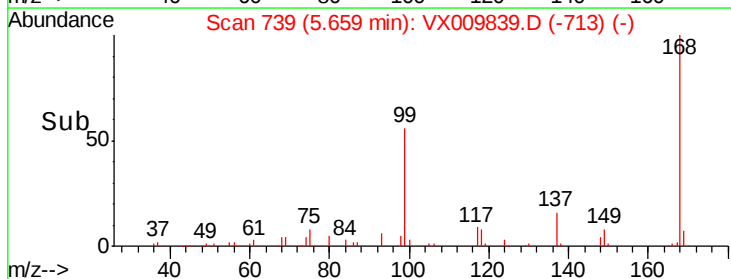
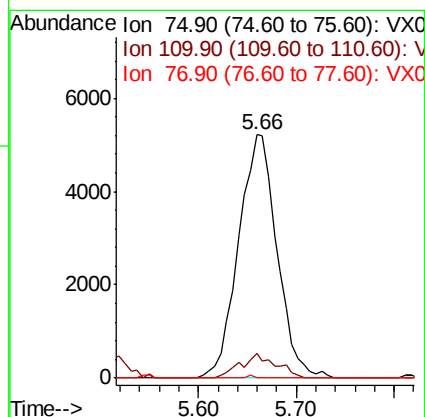
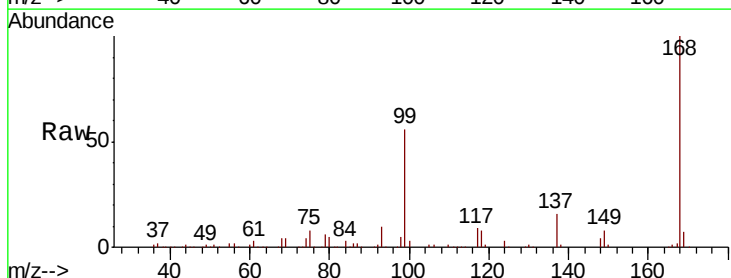
Instrument :
 MSVOA_X
 ClientSampleId :

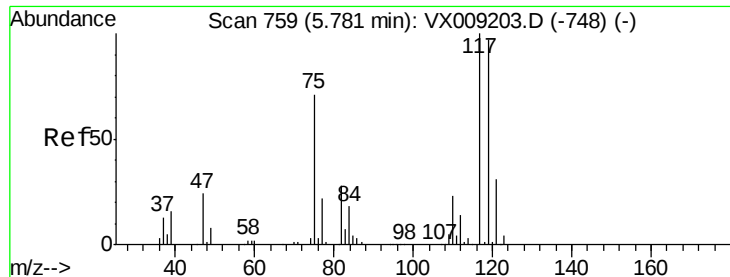
Tot Ion:113 Resp: 89754
 Ion Ratio Lower Upper
 113 100
 111 103.6 82.8 124.2
 192 21.2 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.209 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009839.D
 Acq: 23 May 2019 05:58

Tgt Ion: 75 Resp: 14261
 Ion Ratio Lower Upper
 75 100
 110 9.4 16.9 50.6#
 77 0.1 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.992 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009839.D

Acq: 23 May 2019 05:58

Instrument :

MSVOA_X

ClientSampleId :

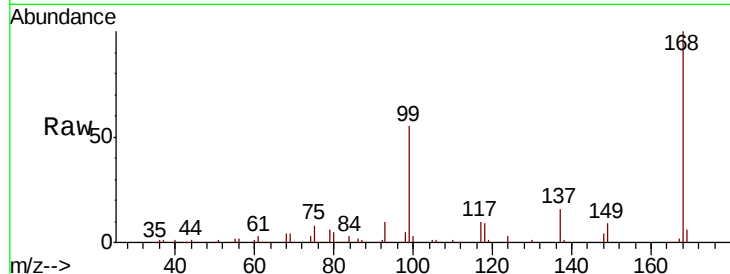
Tot Ion:117 Resp: 17393

Ion Ratio Lower Upper

117 100

119 6.3 77.5 116.3#

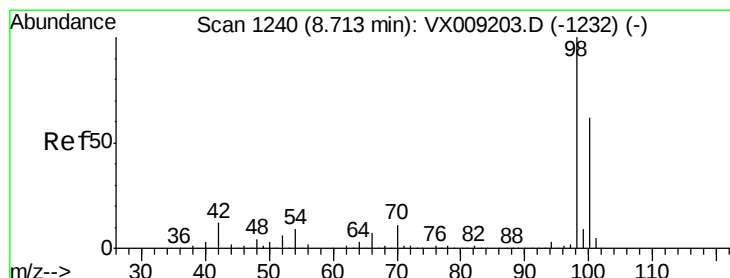
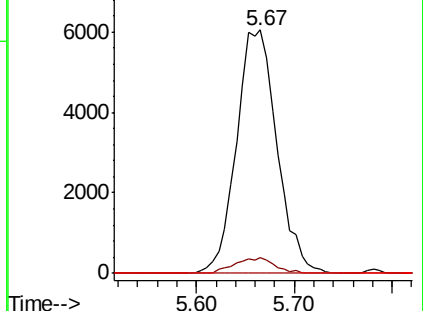
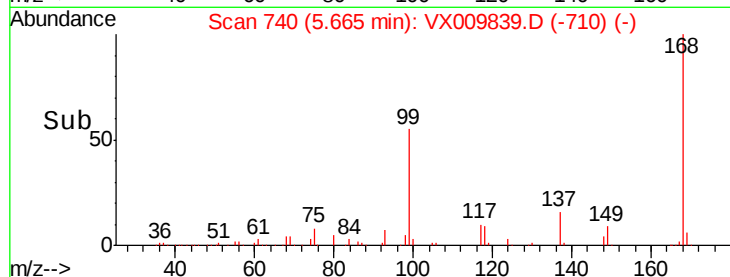
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 50.989 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009839.D

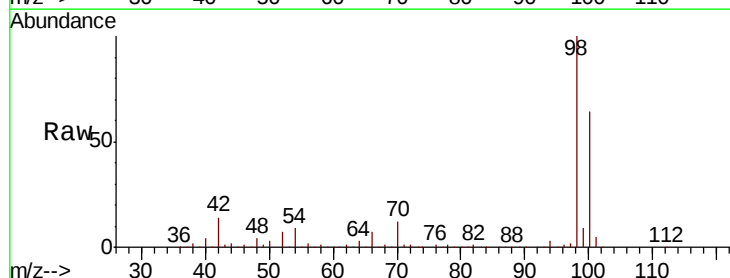
Acq: 23 May 2019 05:58

Tgt Ion: 98 Resp: 381263

Ion Ratio Lower Upper

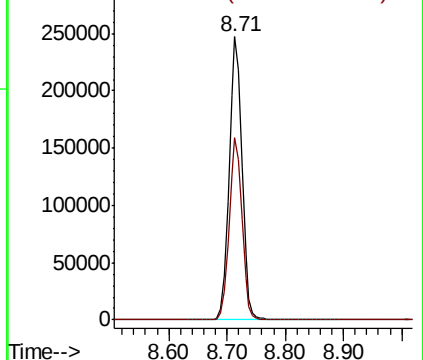
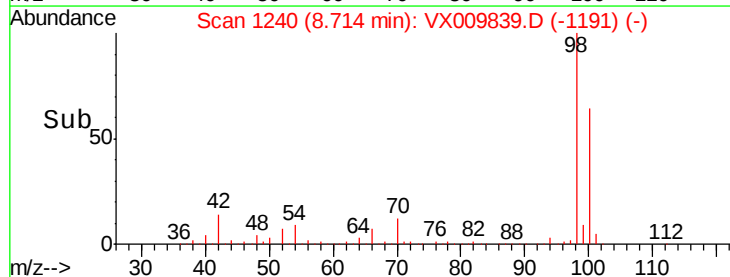
98 100

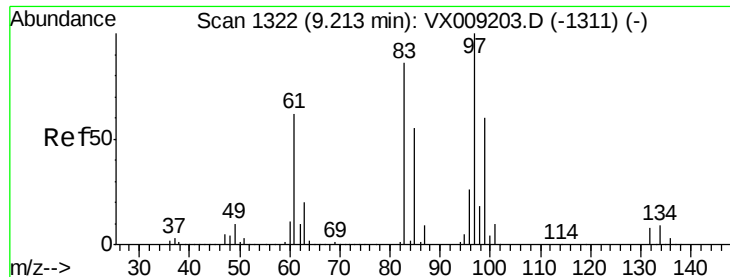
100 64.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

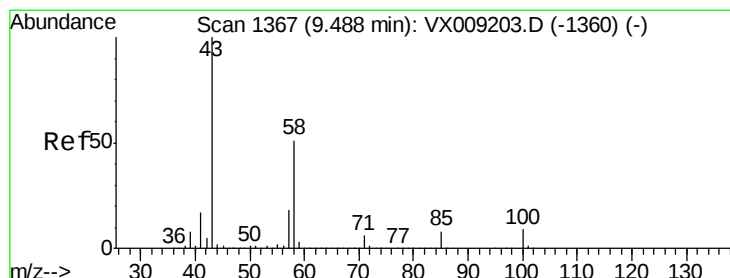
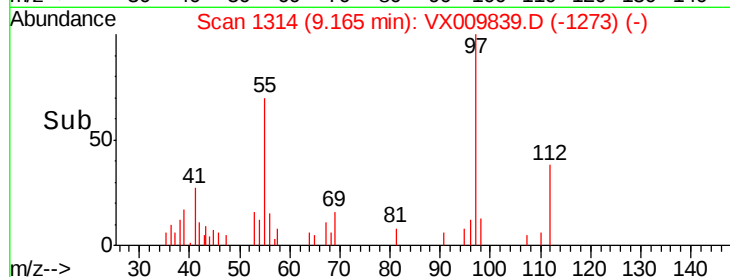
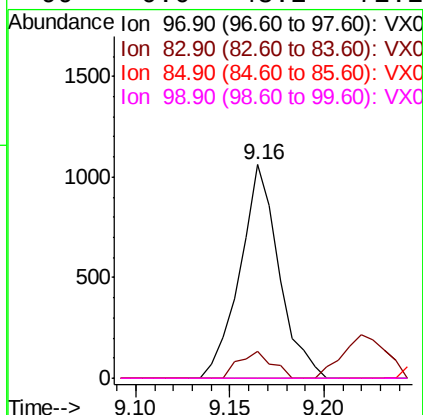
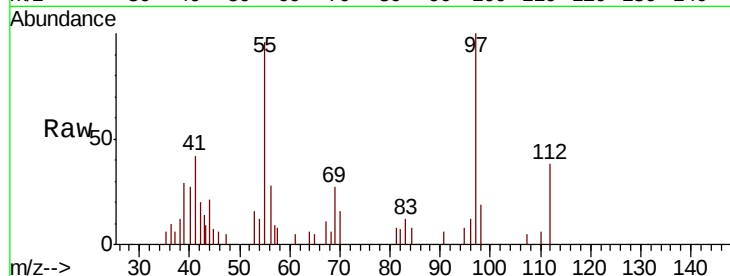




#55
 1,1,2-Trichloroethane
 Concen: 0.725 ug/l
 RT: 9.16 min Scan# 1314
 Delta R.T. -0.05 min
 Lab File: VX009839.D
 Acq: 23 May 2019 05:58

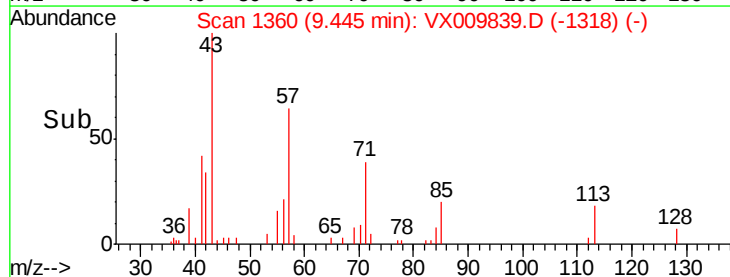
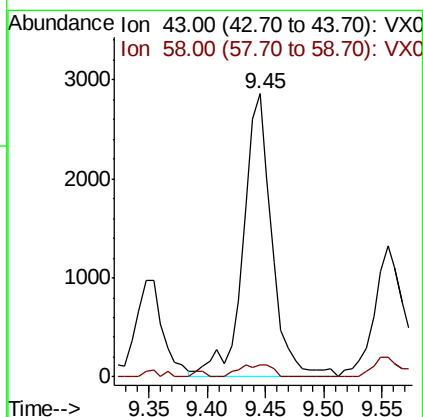
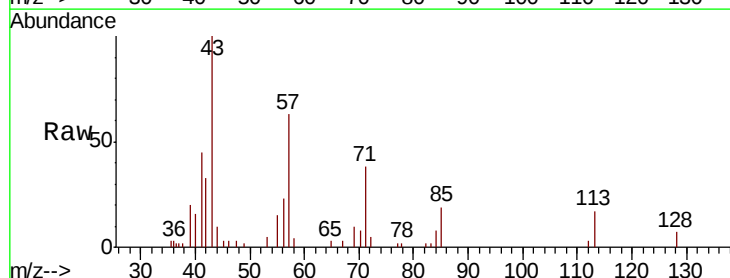
Instrument :
 MSVOA_X
 ClientSampleId :

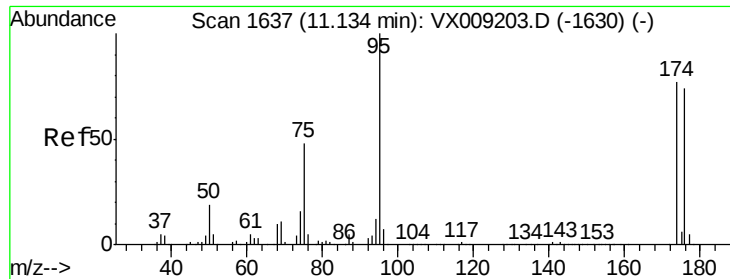
Tot Ion: 97 Resp: 1523
 Ion Ratio Lower Upper
 97 100
 83 12.3 68.9 103.3#
 85 0.0 43.8 65.6#
 99 0.0 48.2 72.2#



#59
 2-Hexanone
 Concen: 1.573 ug/l
 RT: 9.45 min Scan# 1360
 Delta R.T. -0.04 min
 Lab File: VX009839.D
 Acq: 23 May 2019 05:58

Tgt Ion: 43 Resp: 4927
 Ion Ratio Lower Upper
 43 100
 58 5.0 25.9 77.7#





#62

4-Bromofluorobenzene

Concen: 54.562 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009839.D

Acq: 23 May 2019 05:58

Instrument :

MSVOA_X

ClientSampleId :

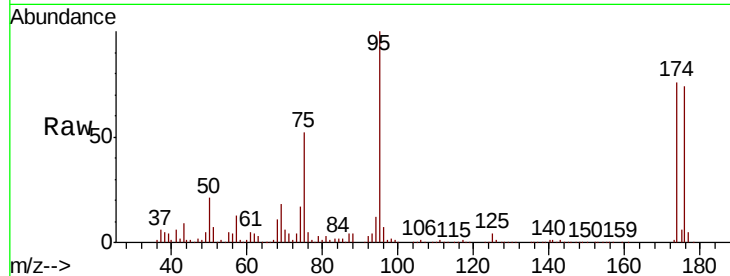
Tot Ion: 95 Resp: 148244

Ion Ratio Lower Upper

95 100

174 79.3 0.0 161.6

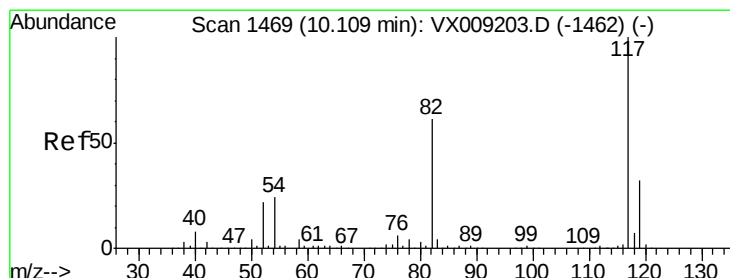
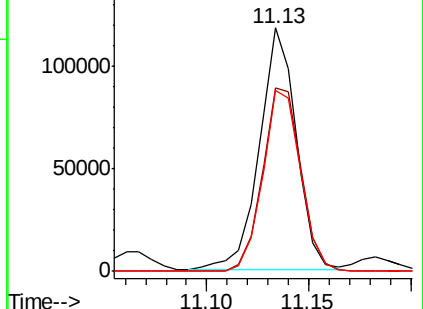
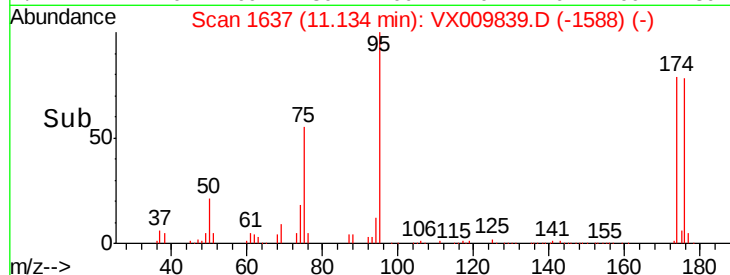
176 77.0 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX009839.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX009839.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX009839.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009839.D

Acq: 23 May 2019 05:58

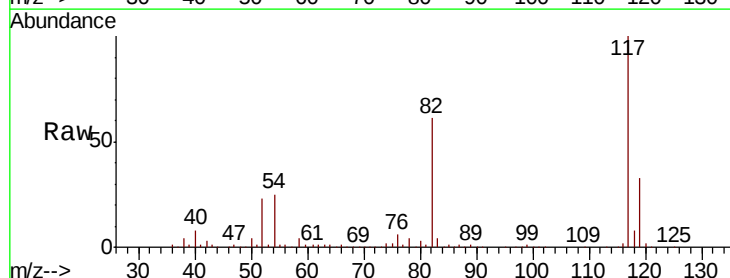
Tgt Ion: 117 Resp: 279454

Ion Ratio Lower Upper

117 100

82 61.1 48.8 73.2

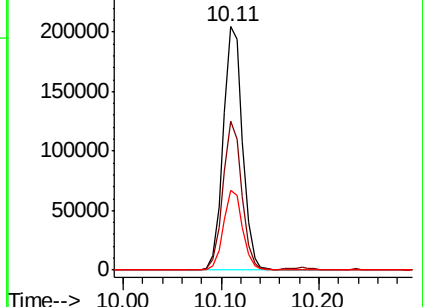
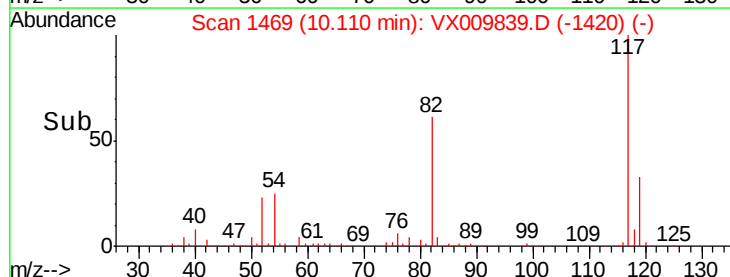
119 32.8 25.8 38.6

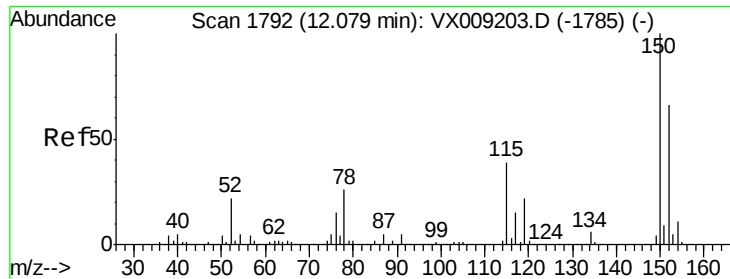


Abundance Ion 116.90 (116.60 to 117.60): VX009839.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX009839.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX009839.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009839.D

Acq: 23 May 2019 05:58

Instrument :

MSVOA_X

ClientSampled :

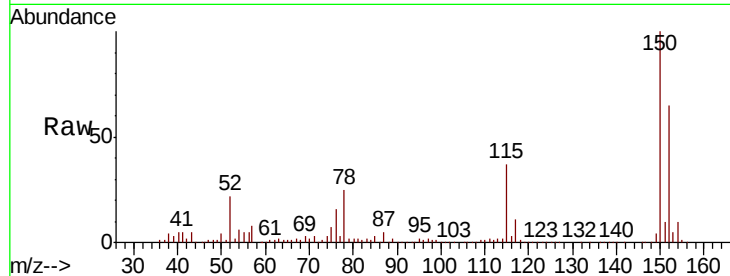
Tot Ion:152 Resp: 143705

Ion Ratio Lower Upper

152 100

115 59.3 41.2 123.6

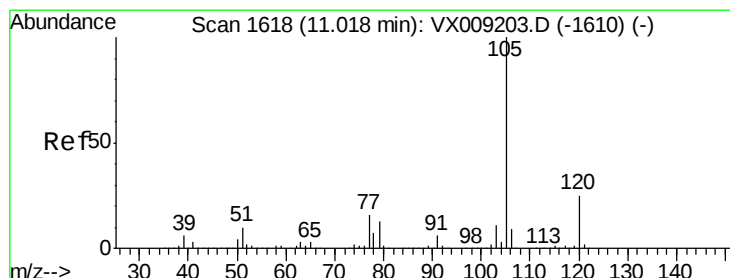
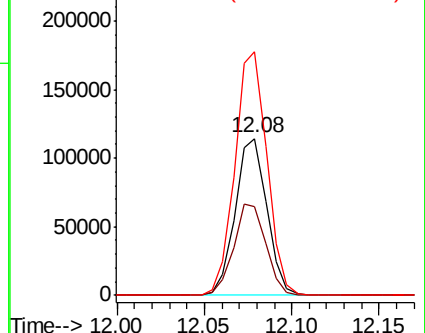
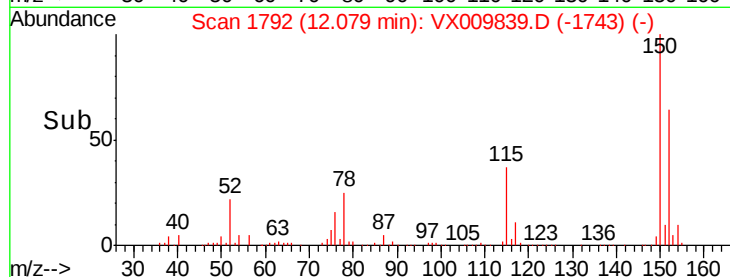
150 157.6 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 2.940 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX009839.D

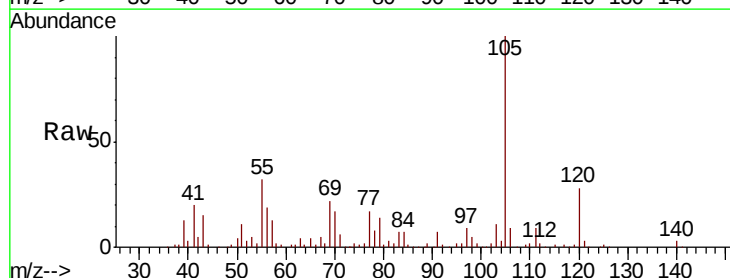
Acq: 23 May 2019 05:58

Tgt Ion:105 Resp: 30722

Ion Ratio Lower Upper

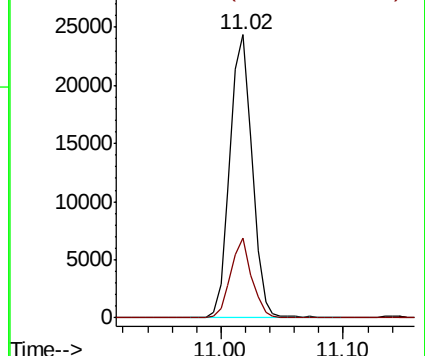
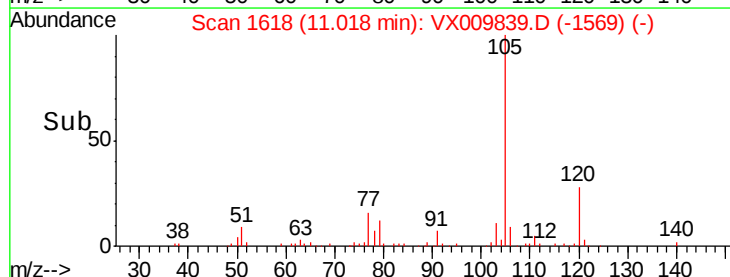
105 100

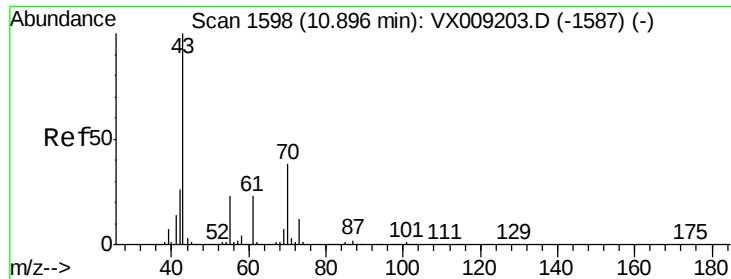
120 26.5 12.8 38.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 8.605 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX009839.D

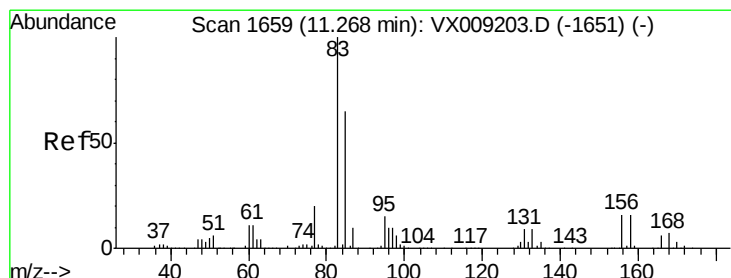
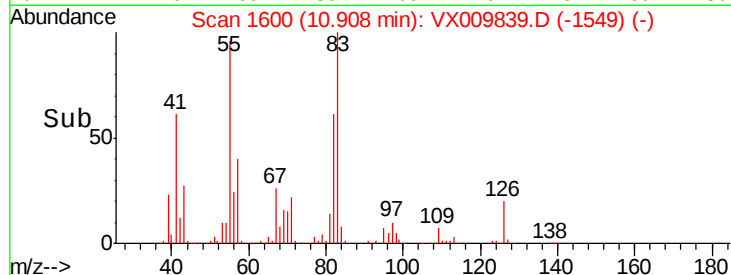
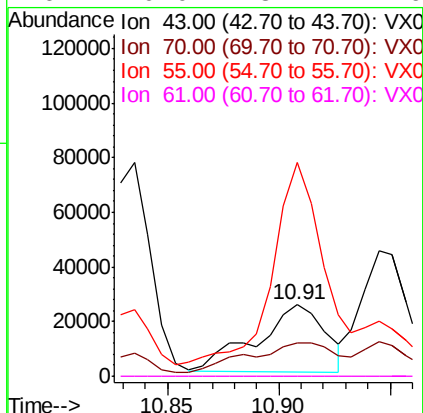
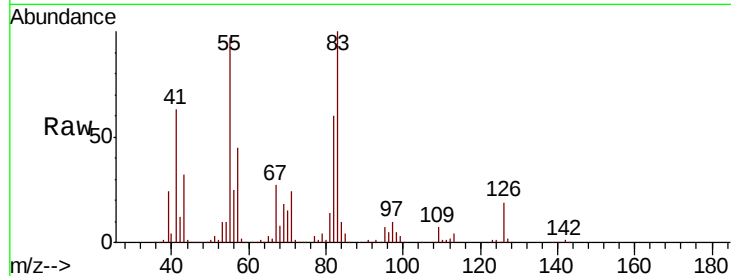
Acq: 23 May 2019 05:58

Instrument :

MSVOA_X

ClientSampled :

Tot Ion:	43	Resp:	52427
Ion	Ratio	Lower	Upper
43	100		
70	63.7	30.0	45.0#
55	229.9	17.9	26.9#
61	0.0	18.4	27.6#



#75

1,1,2,2-Tetrachloroethane

Concen: 6.342 ug/l

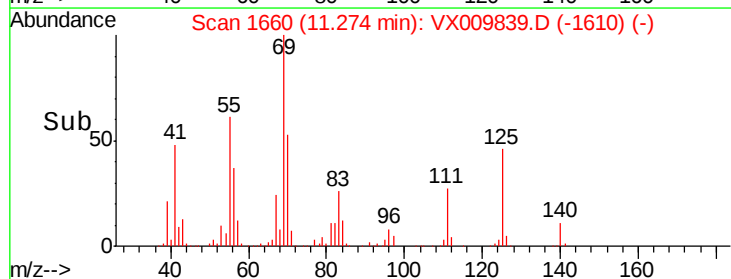
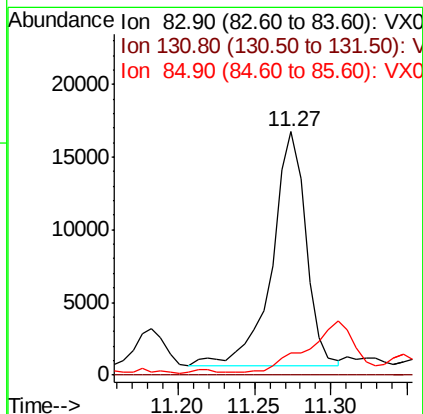
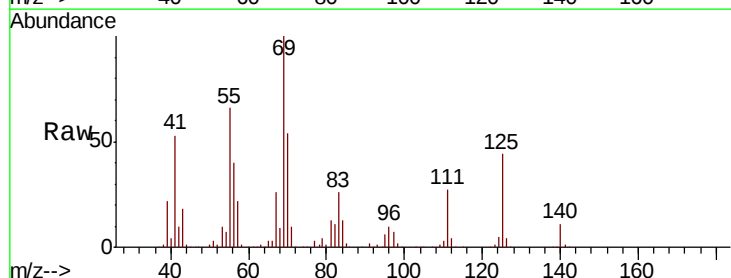
RT: 11.27 min Scan# 1660

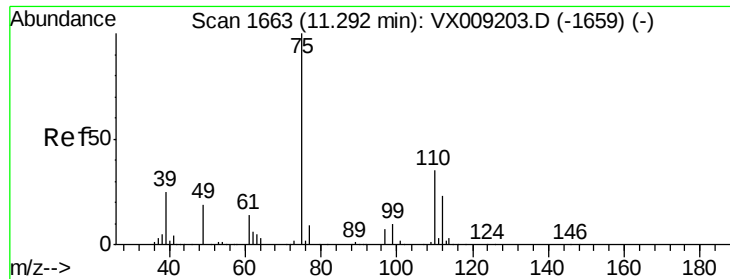
Delta R.T. 0.01 min

Lab File: VX009839.D

Acq: 23 May 2019 05:58

Tgt Ion:	83	Resp:	24705
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.6	13.8#
85	0.0	32.0	96.2#

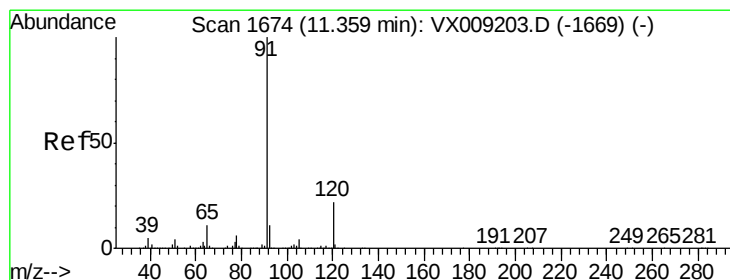
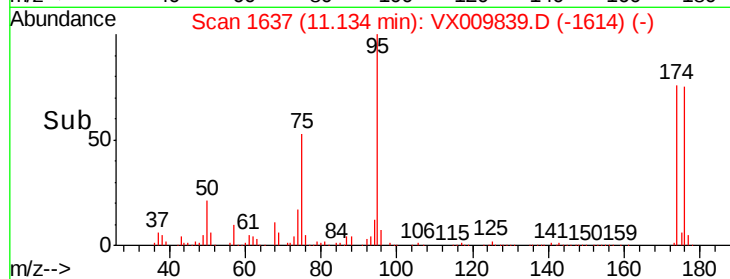
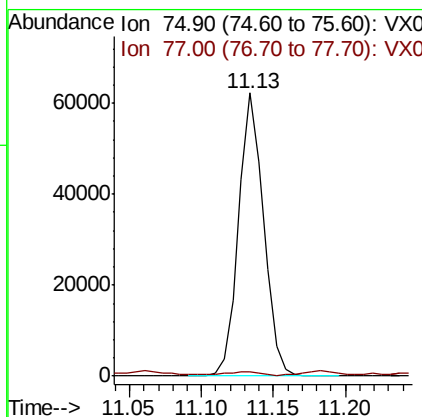
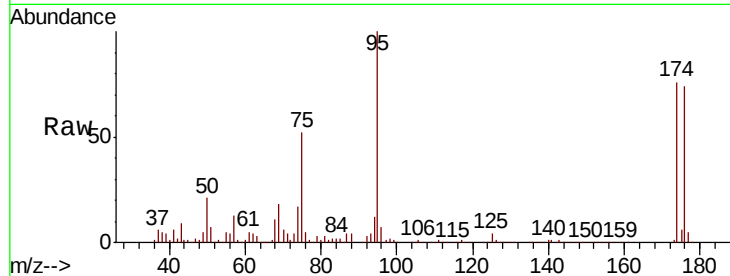




#76
 1,2,3-Trichloropropane
 Concen: 22.654 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009839.D
 Acq: 23 May 2019 05:58

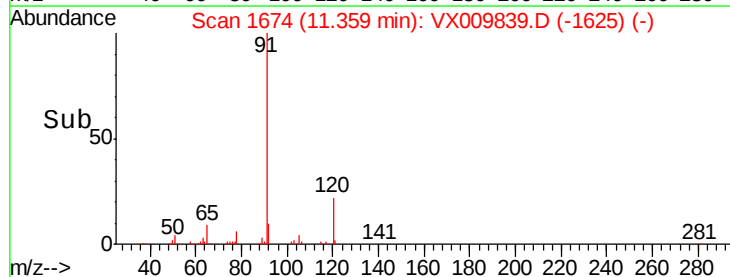
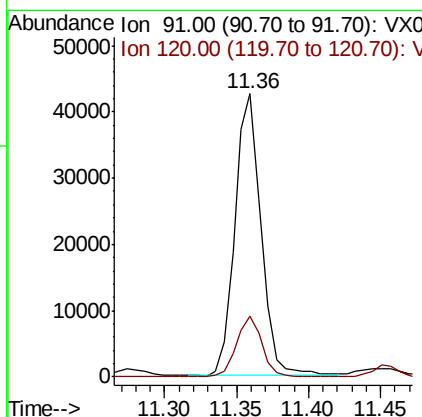
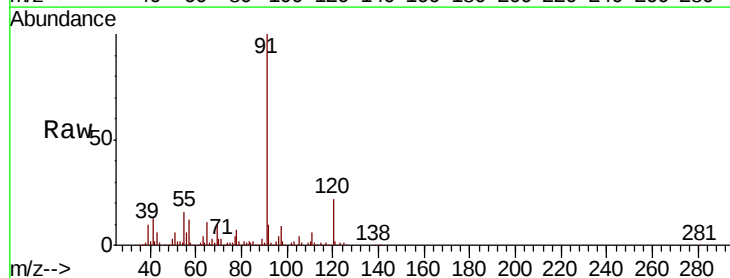
Instrument :
 MSVOA_X
 ClientSampleId :

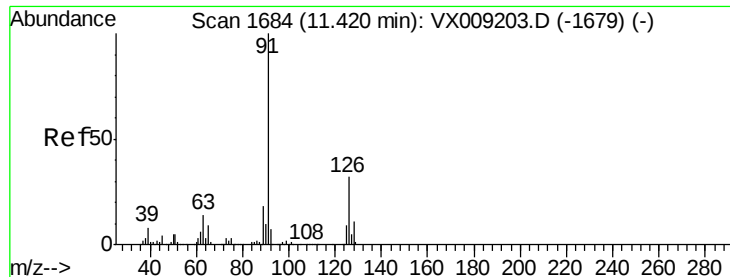
Tot Ion: 75 Resp: 75516
 Ion Ratio Lower Upper
 75 100
 77 1.6 22.1 66.1#



#78
 n-propylbenzene
 Concen: 4.515 ug/l
 RT: 11.36 min Scan# 1674
 Delta R.T. 0.00 min
 Lab File: VX009839.D
 Acq: 23 May 2019 05:58

Tgt Ion: 91 Resp: 53885
 Ion Ratio Lower Upper
 91 100
 120 20.8 11.0 33.0

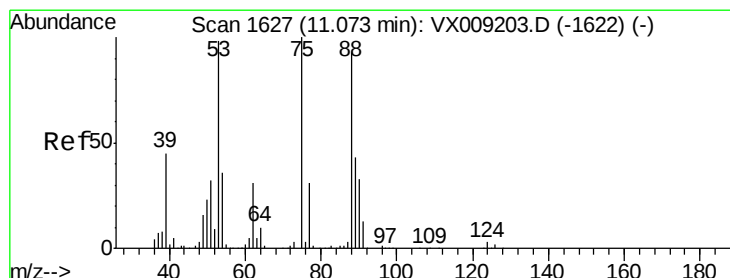
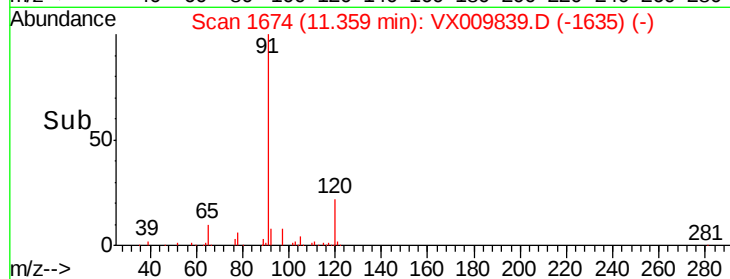
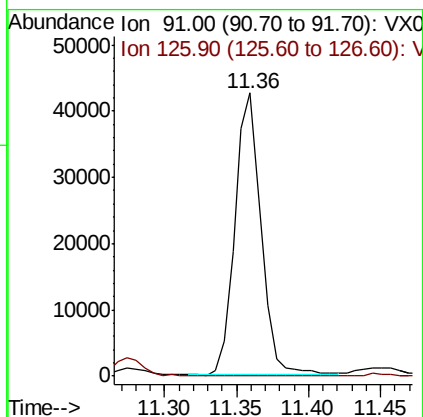
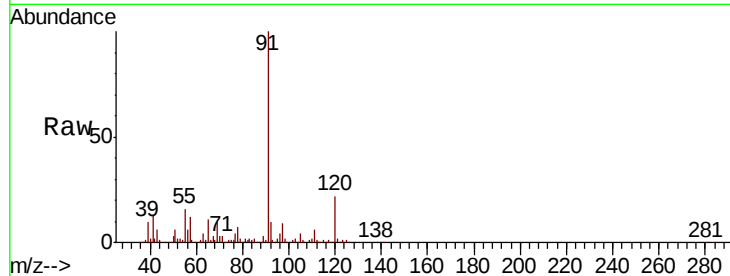




#79
 2-Chlorotoluene
 Concen: 7.318 ug/l
 RT: 11.36 min Scan# 1674
 Delta R.T. -0.06 min
 Lab File: VX009839.D
 Acq: 23 May 2019 05:58

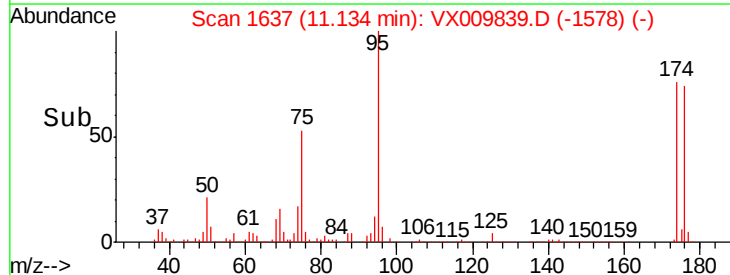
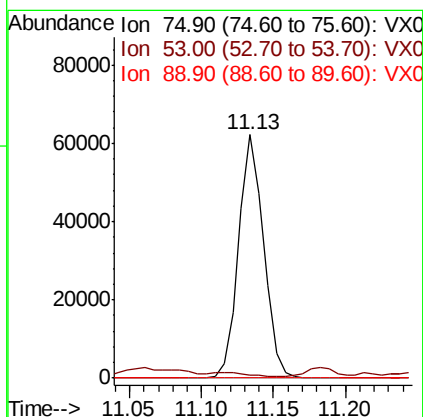
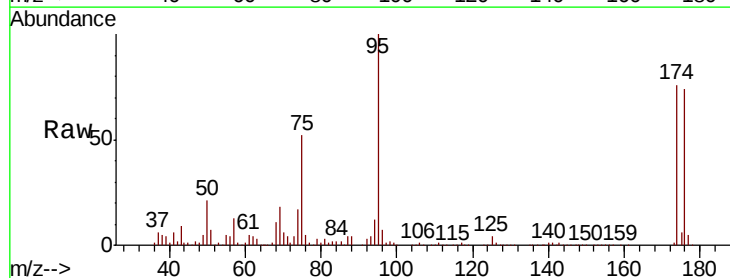
Instrument :
 MSVOA_X
 ClientSampleId :

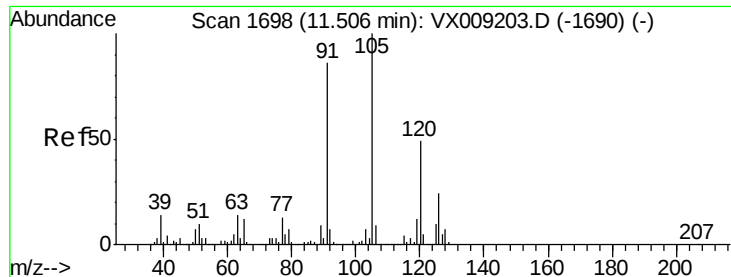
Tot Ion: 91 Resp: 53885
 Ion Ratio Lower Upper
 91 100
 126 0.3 16.3 48.9#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.964 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009839.D
 Acq: 23 May 2019 05:58

Tgt Ion: 75 Resp: 75516
 Ion Ratio Lower Upper
 75 100
 53 2.3 79.0 118.6#
 89 0.0 34.7 52.1#

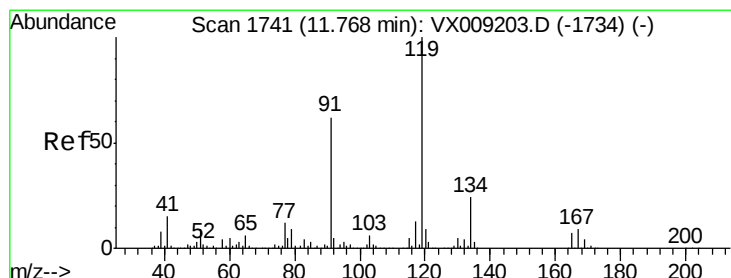
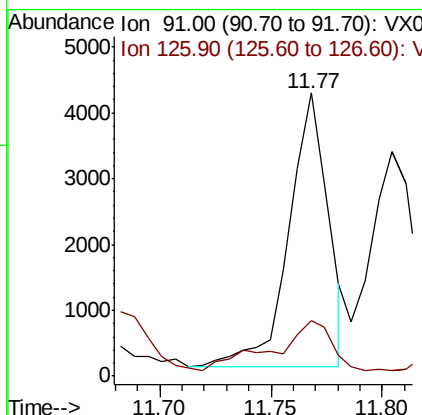
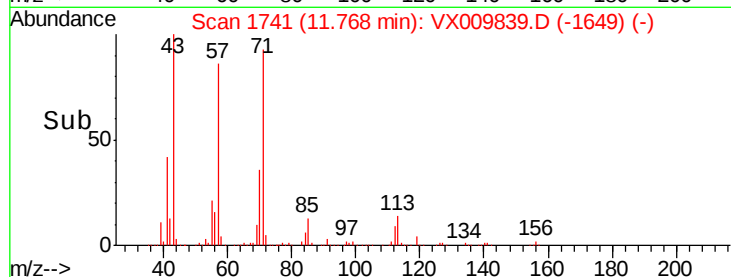
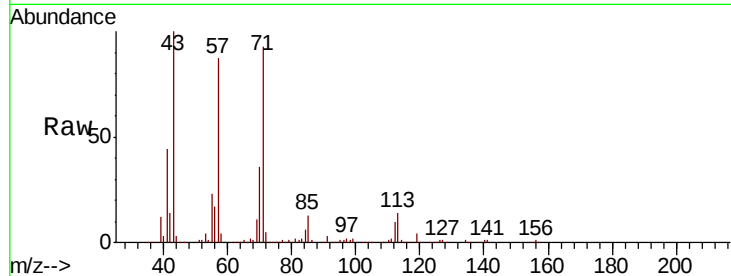




#82
4-Chlorotoluene
Concen: 0.606 ug/l
RT: 11.77 min Scan# 1741
Delta R.T. 0.26 min
Lab File: VX009839.D
Acq: 23 May 2019 05:58

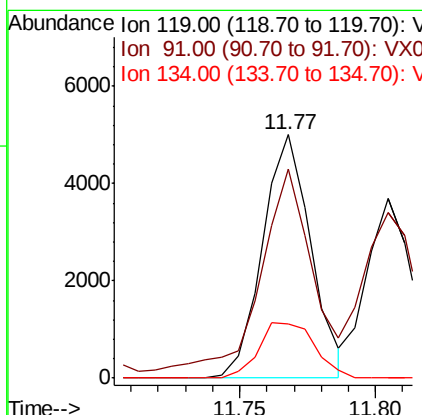
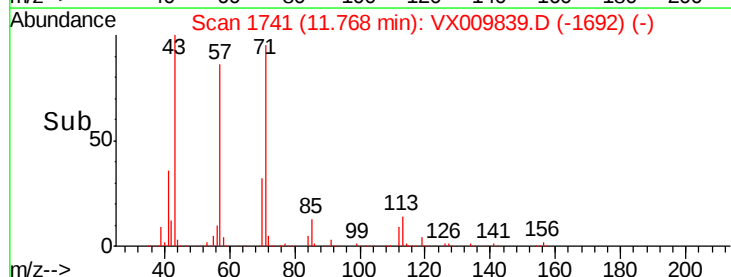
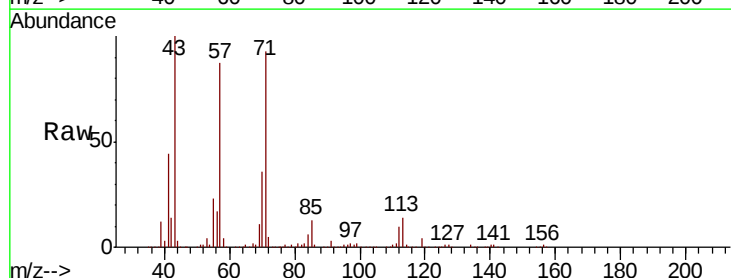
Instrument :
MSVOA_X
ClientSampled :

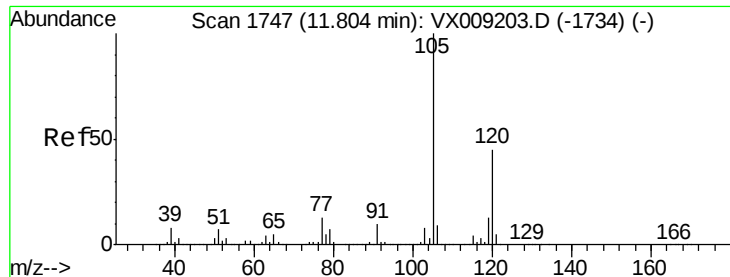
Tot Ion: 91 Resp: 5044
Ion Ratio Lower Upper
91 100
126 25.7 14.5 43.6



#83
tert-Butylbenzene
Concen: 0.720 ug/l
RT: 11.77 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VX009839.D
Acq: 23 May 2019 05:58

Tgt Ion: 119 Resp: 6162
Ion Ratio Lower Upper
119 100
91 85.8 29.5 88.5
134 26.2 11.4 34.1





#84

1,2,4-Trimethylbenzene

Concen: 4.070 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX009839.D

Acq: 23 May 2019 05:58

Instrument :

MSVOA_X

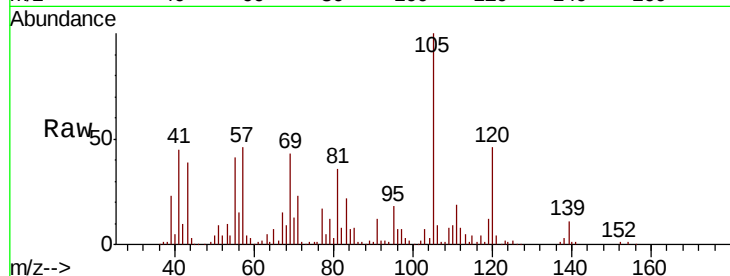
ClientSampled :

Tot Ion:105 Resp: 35945

Ion Ratio Lower Upper

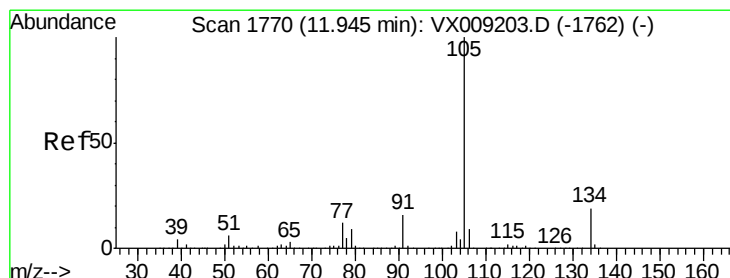
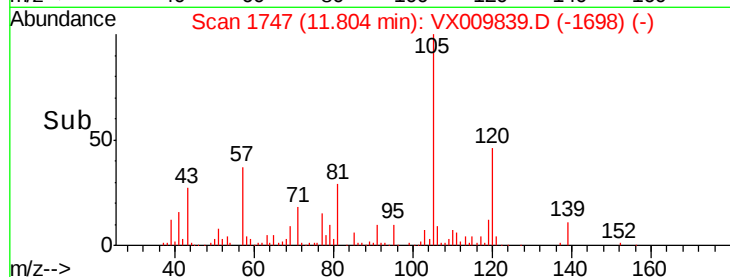
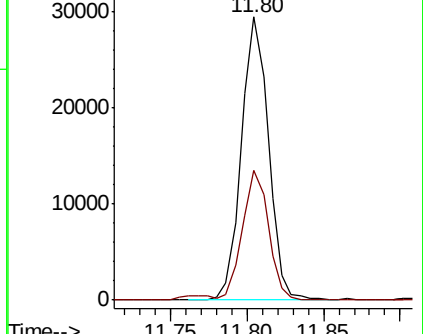
105 100

120 44.8 22.0 66.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 4.711 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX009839.D

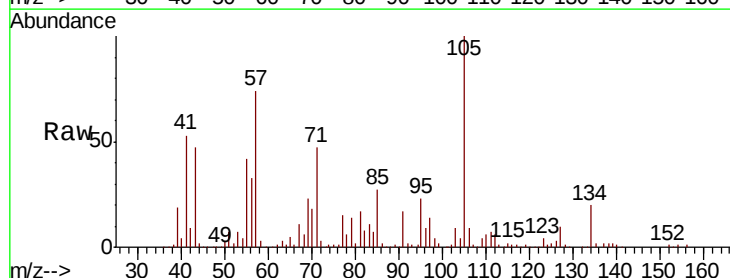
Acq: 23 May 2019 05:58

Tgt Ion:105 Resp: 47811

Ion Ratio Lower Upper

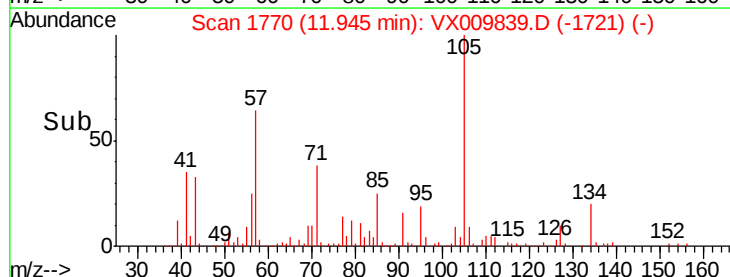
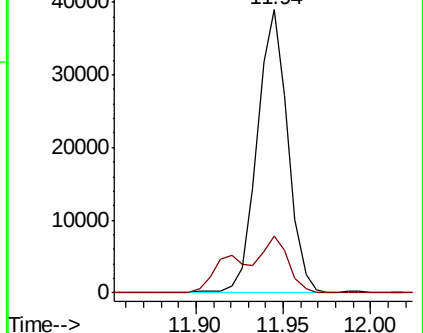
105 100

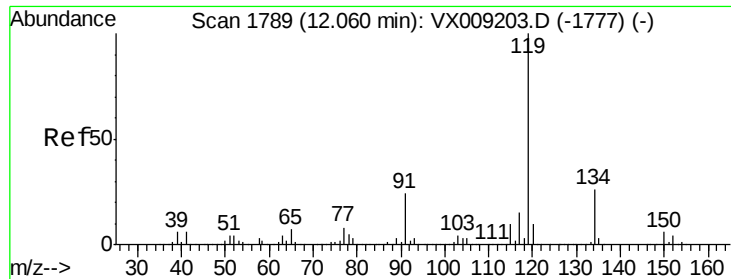
134 17.0 9.7 28.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

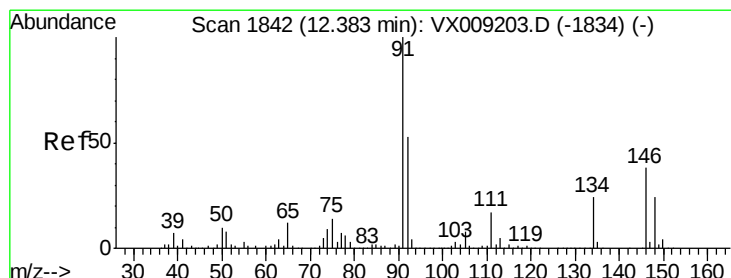
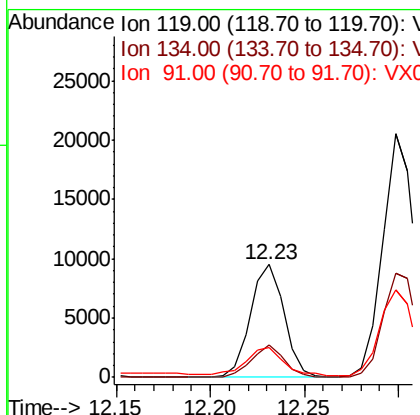
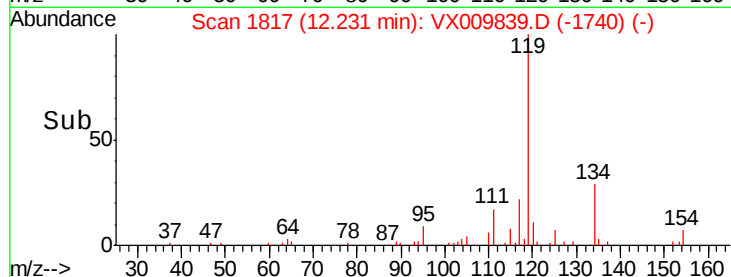
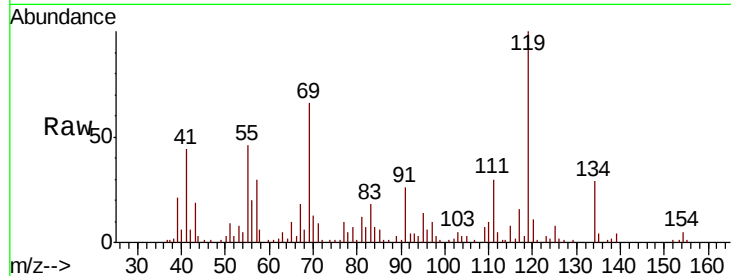




#86
p-Isopropyltoluene
Concen: 1.295 ug/l
RT: 12.23 min Scan# 1817
Delta R.T. 0.17 min
Lab File: VX009839.D
Acq: 23 May 2019 05:58

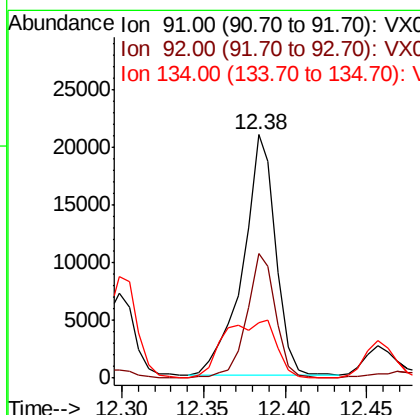
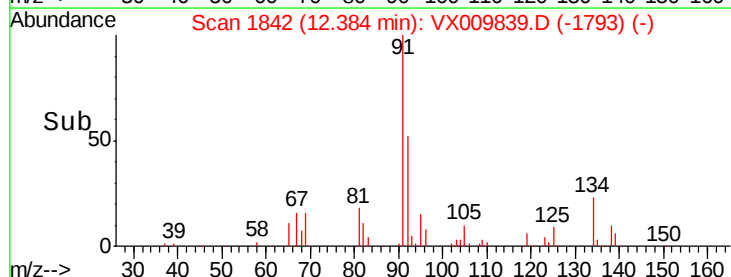
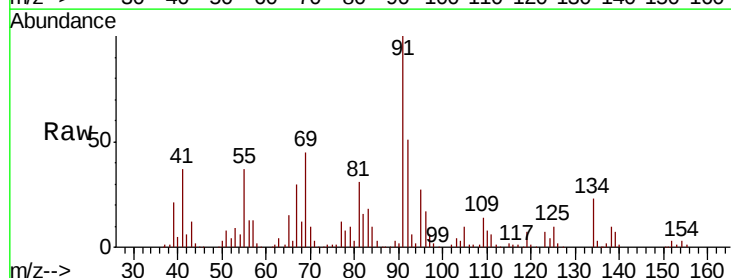
Instrument :
MSVOA_X
ClientSampled :

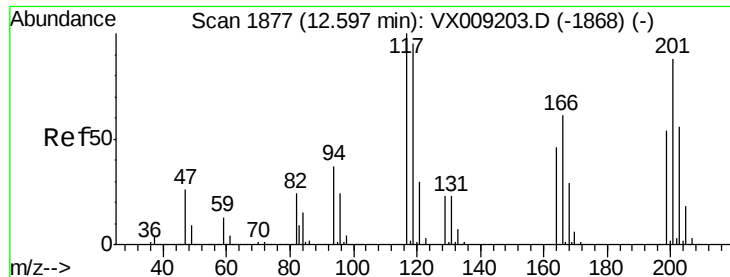
Tot Ion: 119 Resp: 11812
Ion Ratio Lower Upper
119 100
134 27.8 12.9 38.7
91 28.0 11.8 35.4



#89
n-Butylbenzene
Concen: 3.549 ug/l
RT: 12.38 min Scan# 1842
Delta R.T. 0.00 min
Lab File: VX009839.D
Acq: 23 May 2019 05:58

Tgt Ion: 91 Resp: 29261
Ion Ratio Lower Upper
91 100
92 45.5 26.5 79.5
134 38.3 12.4 37.2#





#90

Hexachloroethane

Concen: 0.722 ug/l

RT: 12.59 min Scan# 1876

Delta R.T. -0.01 min

Lab File: VX009839.D

Acq: 23 May 2019 05:58

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:117 Resp: 1122

Ion Ratio Lower Upper

117 100

201 0.0 42.3 126.9#

