

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX091818\
 Data File : VX004690.D
 Acq On : 19 Sep 2018 06:29
 Operator : JC/MD
 Sample : J4952-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 2015-161-20-RB36584RT-RB47184R

Quant Time: Sep 19 13:07:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	251591	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	340306	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	317997	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	208544	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	152904	47.13	ug/l	0.00
Spiked Amount			Recovery	=	94.26%	
35) Dibromofluoromethane	5.50	113	143082	45.95	ug/l	0.00
Spiked Amount			Recovery	=	91.90%	
50) Toluene-d8	8.71	98	471774	45.18	ug/l	0.00
Spiked Amount			Recovery	=	90.36%	
62) 4-Bromofluorobenzene	11.14	95	171716	46.06	ug/l	0.00
Spiked Amount			Recovery	=	92.12%	

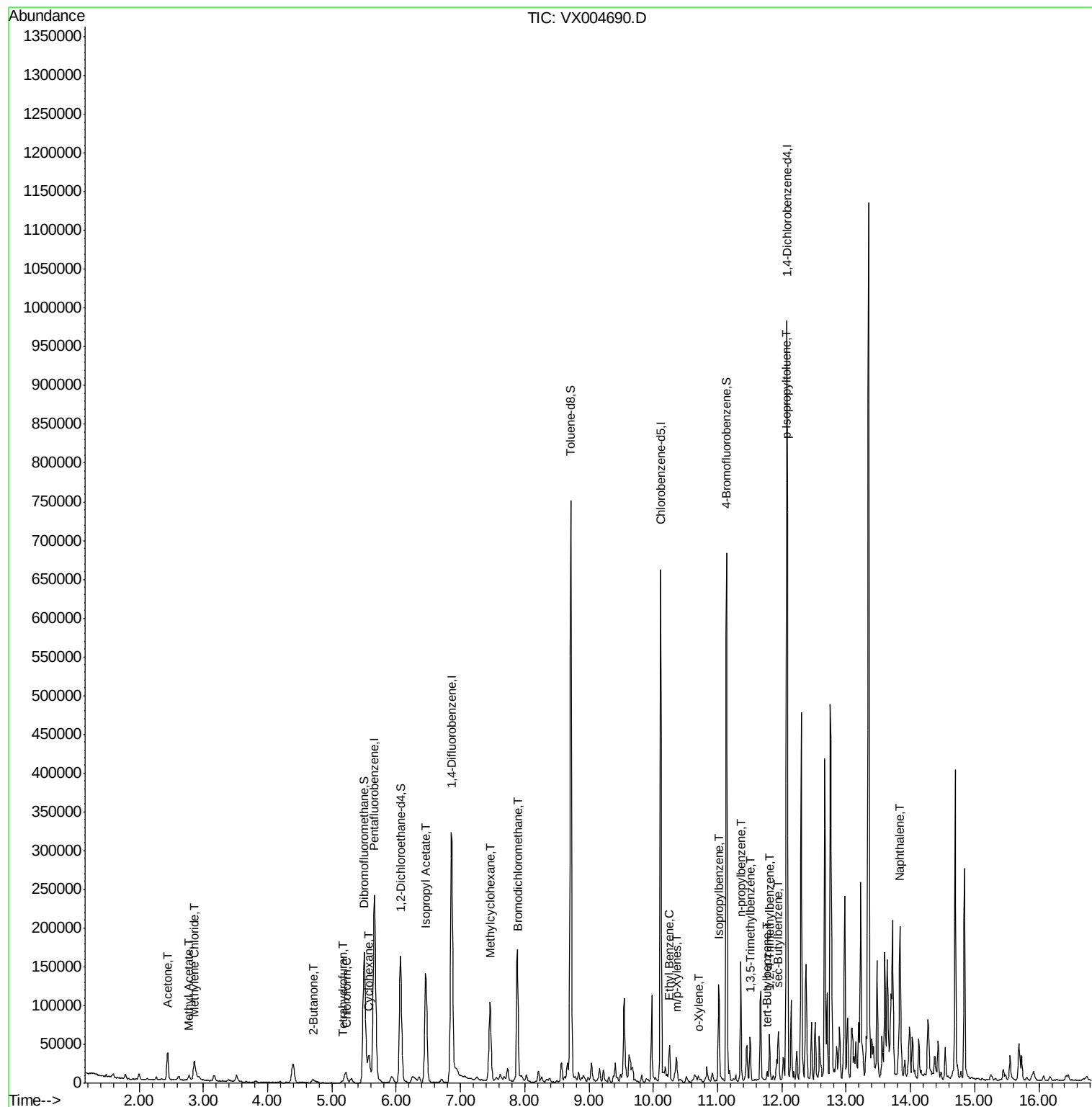
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	2.45	43	37569	23.73	ug/l	97
18) Methyl Acetate	2.78	43	6678	1.50	ug/l	98
20) Methylene Chloride	2.86	84	11083	3.41	ug/l	92
25) 2-Butanone	4.70	43	8276	3.28	ug/l	95
29) Tetrahydrofuran	5.17	42	2018	1.33	ug/l	94
30) Chloroform	5.22	83	15894	2.96	ug/l	94
31) Cyclohexane	5.58	56	23863	5.09	ug/l	91
39) Methylcyclohexane	7.46	83	45952	10.66	ug/l	98
43) Isopropyl Acetate	6.46	43	169056	27.09	ug/l	99
47) Bromodichloromethane	7.90	83	2793	0.79	ug/l	99
67) Ethyl Benzene	10.25	91	26748	2.08	ug/l	99
68) m/p-Xylenes	10.36	106	5949	1.20	ug/l	99
69) o-Xylene	10.70	106	1167	0.25	ug/l	74
73) Isopropylbenzene	11.02	105	63065	4.59	ug/l	100
78) n-propylbenzene	11.36	91	90258	5.72	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	24254	2.10	ug/l	95
83) tert-Butylbenzene	11.77	119	4399	0.40	ug/l	86
84) 1,2,4-Trimethylbenzene	11.80	105	25444	2.16	ug/l	99
85) sec-Butylbenzene	11.94	105	31883	2.28	ug/l	79
86) p-Isopropyltoluene	12.07	119	32562	2.63	ug/l	96
95) Naphthalene	13.83	128	127290	8.94	ug/l #	97

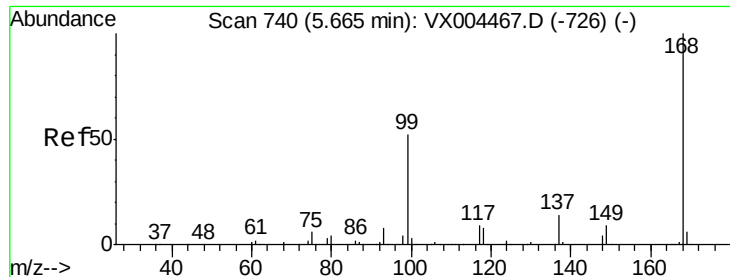
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX004690.D

Acq: 19 Sep 2018 06:29

Instrument :

MSVOA_X

ClientSampleId :

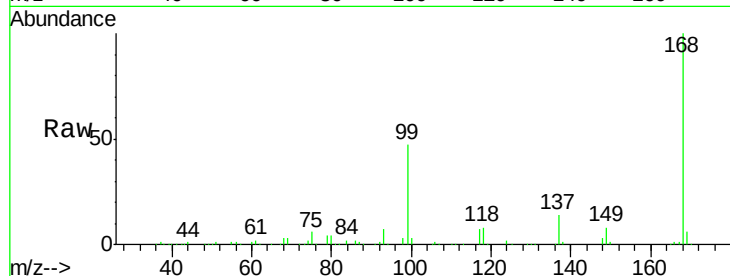
2015-161-20-RB36584RT-RB47184R

Tot Ion:168 Resp: 251591

Ion Ratio Lower Upper

168 100

99 47.2 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

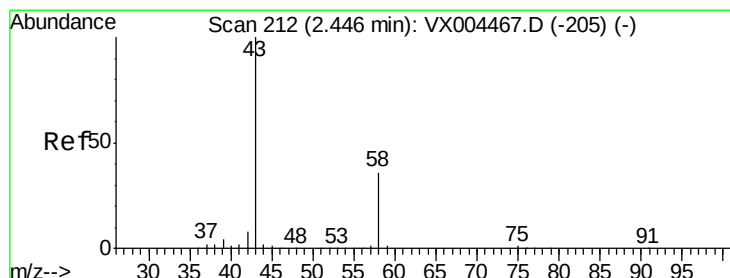
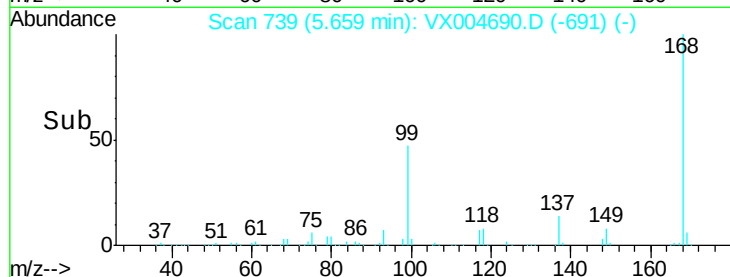
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#16

Acetone

Concen: 23.73 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004690.D

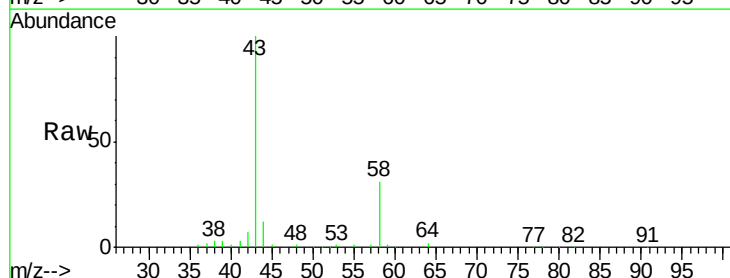
Acq: 19 Sep 2018 06:29

Tgt Ion: 43 Resp: 37569

Ion Ratio Lower Upper

43 100

58 31.3 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

25000

20000

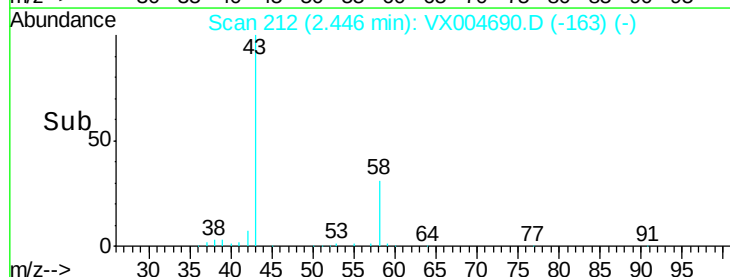
15000

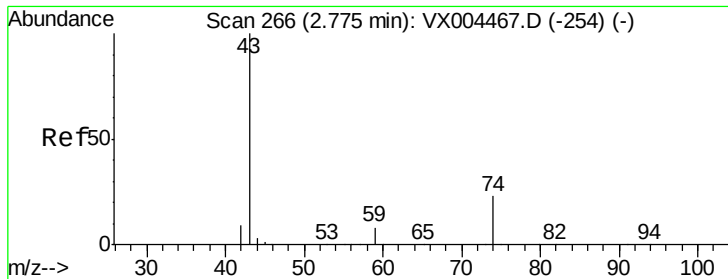
10000

5000

0

Time--> 2.40 2.50





#18

Methyl Acetate

Concen: 1.50 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX004690.D

Acq: 19 Sep 2018 06:29

Instrument :

MSVOA_X

ClientSampleId :

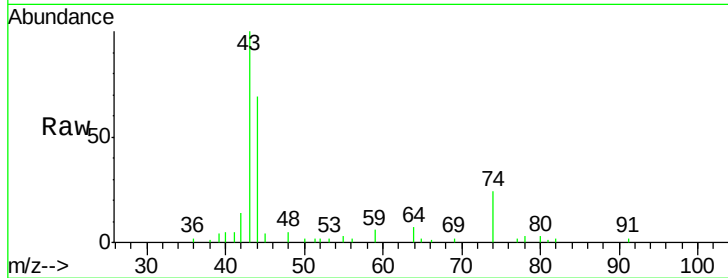
2015-161-20-RB36584RT-RB47184R

Tot Ion: 43 Resp: 6678

Ion Ratio Lower Upper

43 100

74 23.1 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

4000

3000

2000

1000

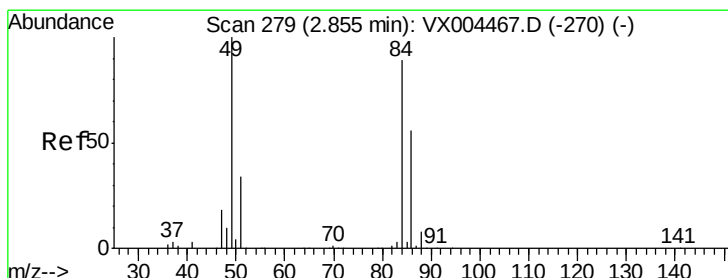
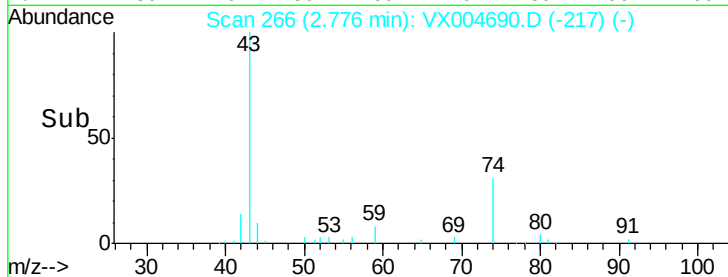
0

Time-->

2.70

2.75

2.80



#20

Methylene Chloride

Concen: 3.41 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX004690.D

Acq: 19 Sep 2018 06:29

Tgt Ion: 84 Resp: 11083

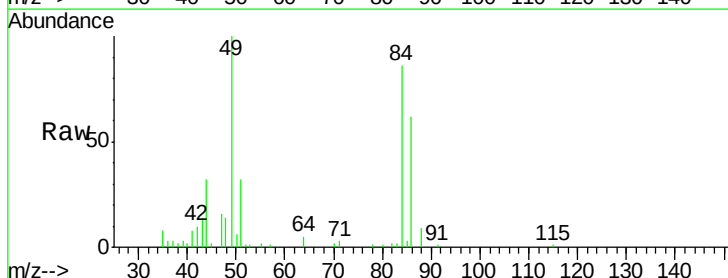
Ion Ratio Lower Upper

84 100

49 115.9 101.2 151.8

51 35.4 29.5 44.3

86 71.5 52.3 78.5



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

10000

8000

6000

4000

2000

0

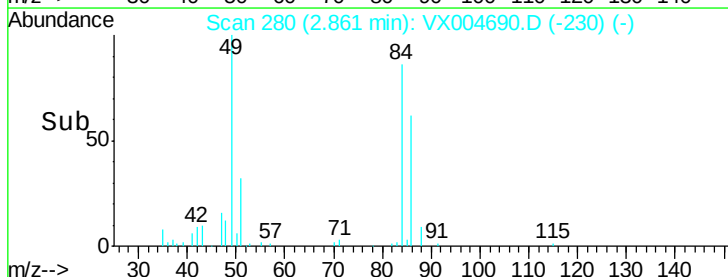
Time-->

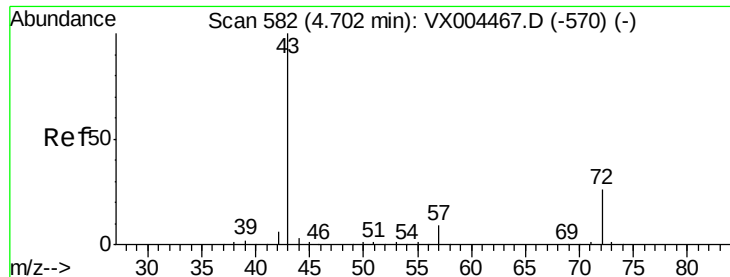
2.80

2.85

2.90

2.95





#25

2-Butanone

Concen: 3.28 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX004690.D

Acq: 19 Sep 2018 06:29

Instrument :

MSVOA_X

ClientSampleId :

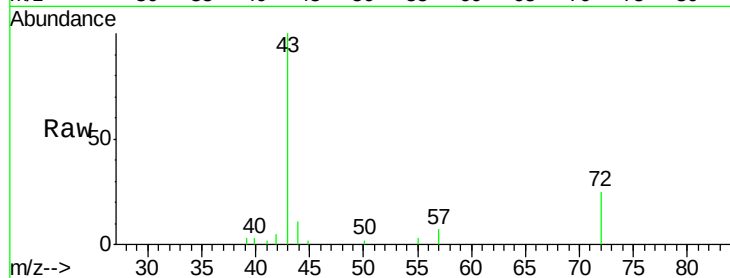
2015-161-20-RB36584RT-RB47184R

Tot Ion: 43 Resp: 8276

Ion Ratio Lower Upper

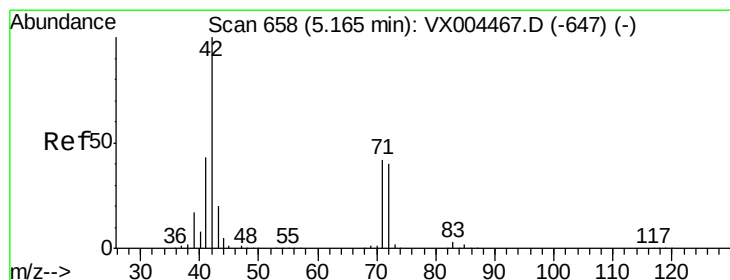
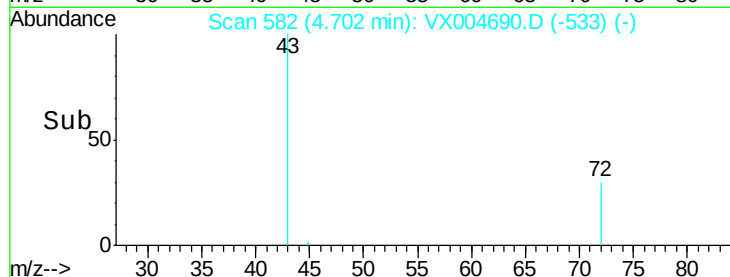
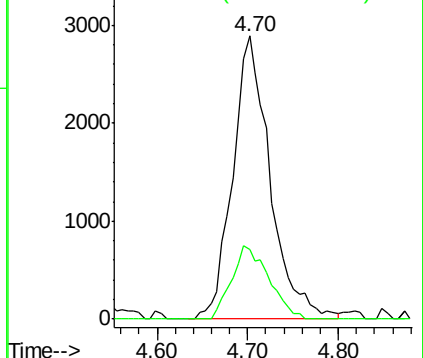
43 100

72 24.7 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 1.33 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.00 min

Lab File: VX004690.D

Acq: 19 Sep 2018 06:29

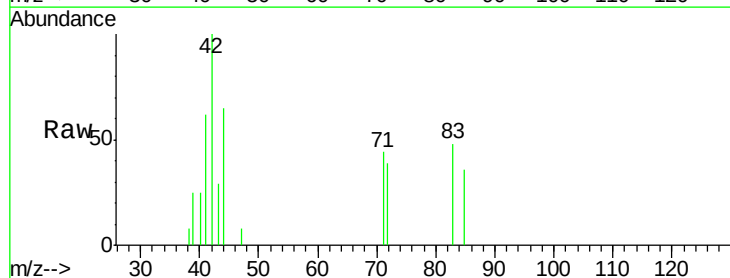
Tgt Ion: 42 Resp: 2018

Ion Ratio Lower Upper

42 100

72 41.3 37.4 56.0

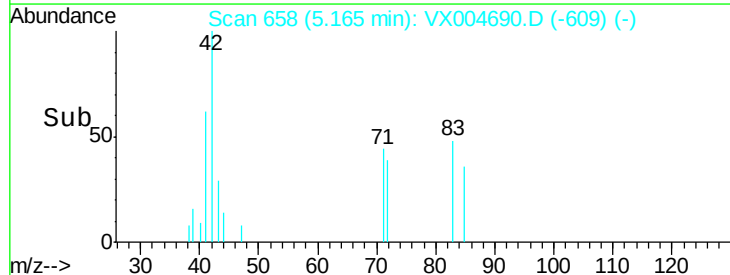
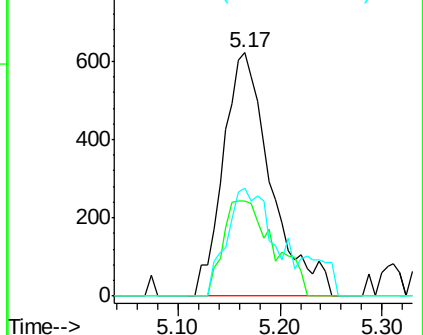
71 45.0 34.5 51.7

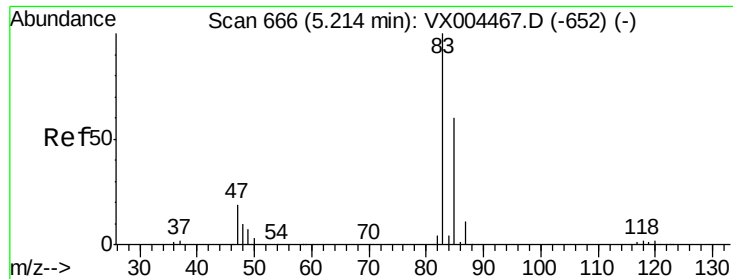


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

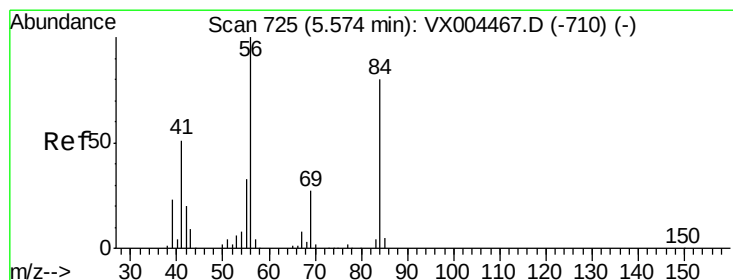
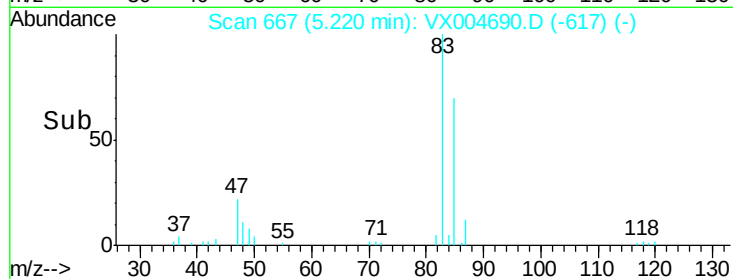
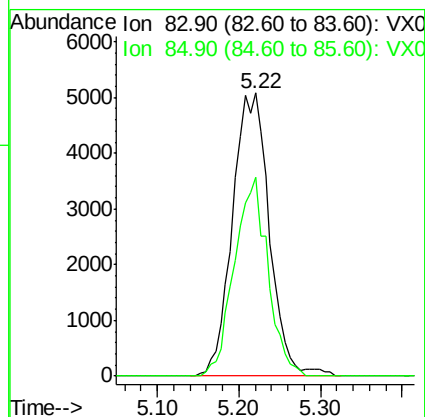
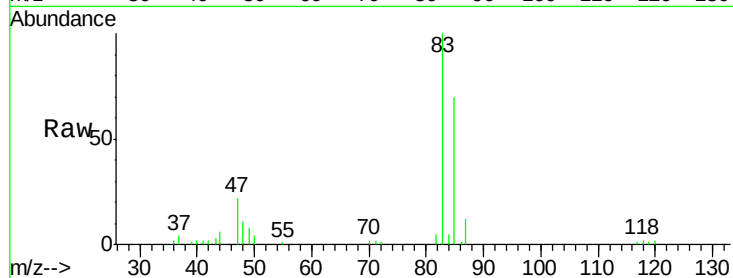




#30
Chloroform
Concen: 2.96 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX004690.D
Acq: 19 Sep 2018 06:29

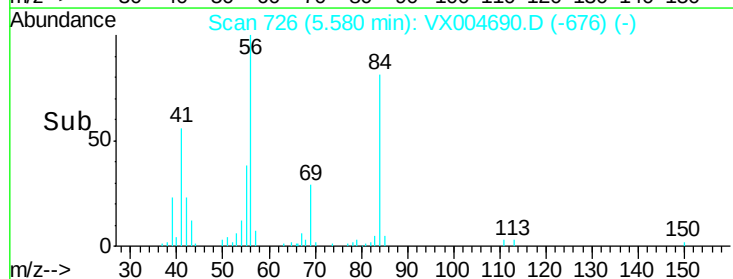
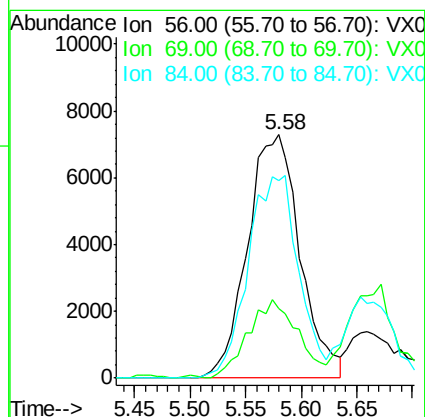
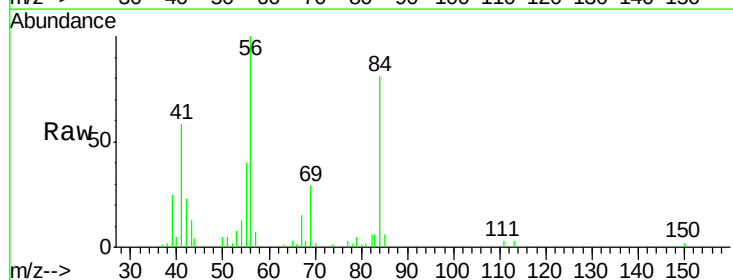
Instrument :
MSVOA_X
ClientSampleId :
2015-161-20-RB36584RT-RB47184R

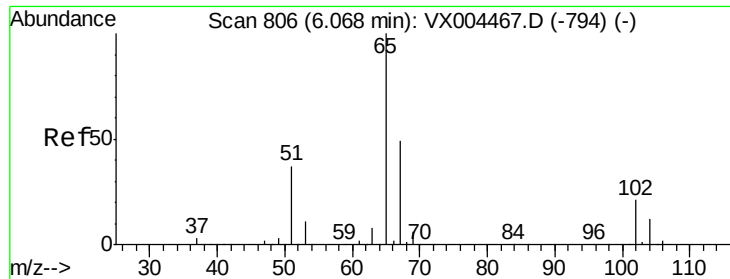
Tot Ion: 83 Resp: 15894
Ion Ratio Lower Upper
83 100
85 70.3 52.6 79.0



#31
Cyclohexane
Concen: 5.09 ug/l
RT: 5.58 min Scan# 726
Delta R.T. 0.01 min
Lab File: VX004690.D
Acq: 19 Sep 2018 06:29

Tgt Ion: 56 Resp: 23863
Ion Ratio Lower Upper
56 100
69 27.6 25.4 38.2
84 80.9 71.4 107.2

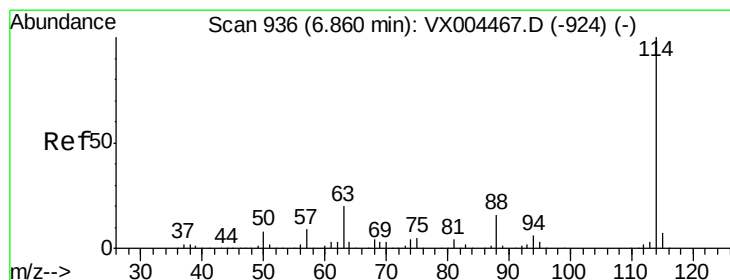
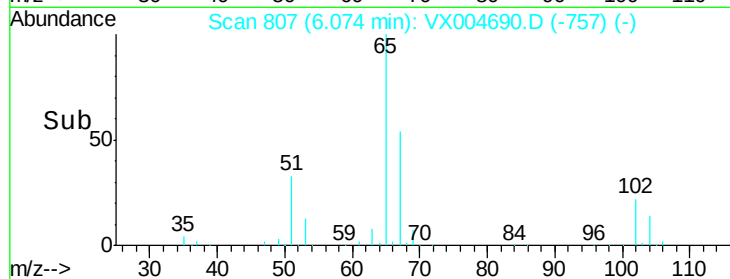
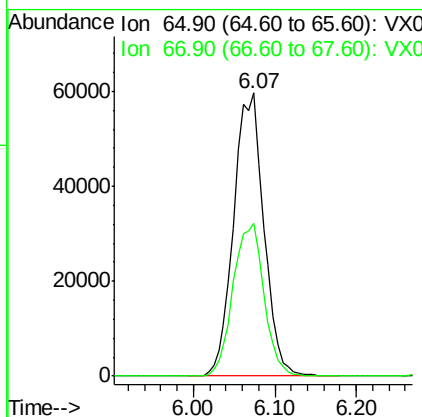
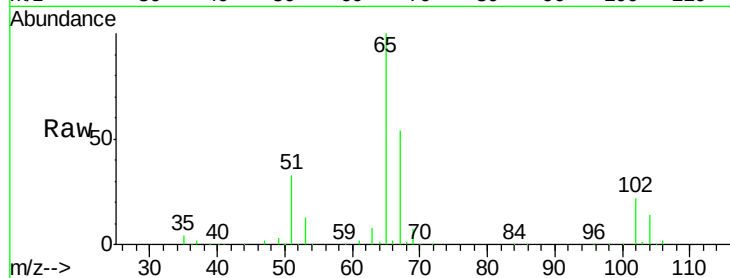




#33
 1,2-Dichloroethane-d4
 Concen: 47.13 ug/l
 RT: 6.07 min Scan# 807
 Delta R.T. 0.01 min
 Lab File: VX004690.D
 Acq: 19 Sep 2018 06:29

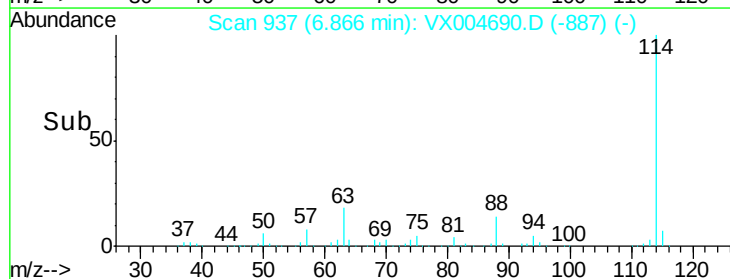
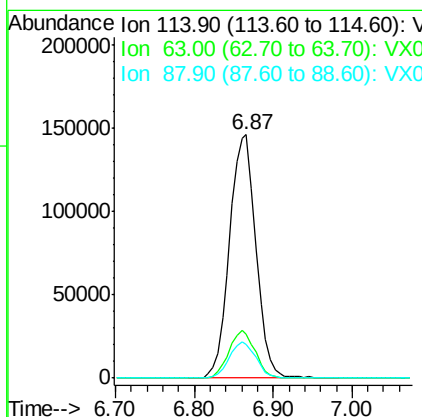
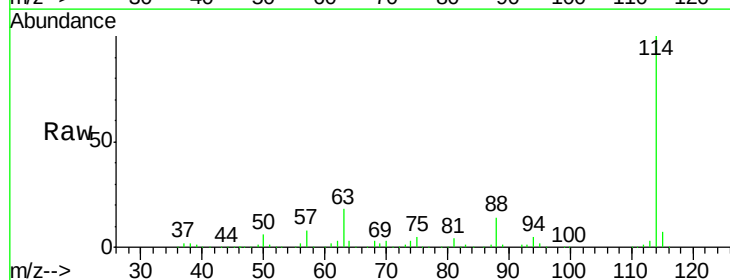
Instrument :
 MSVOA_X
 ClientSampleId :
 2015-161-20-RB36584RT-RB47184R

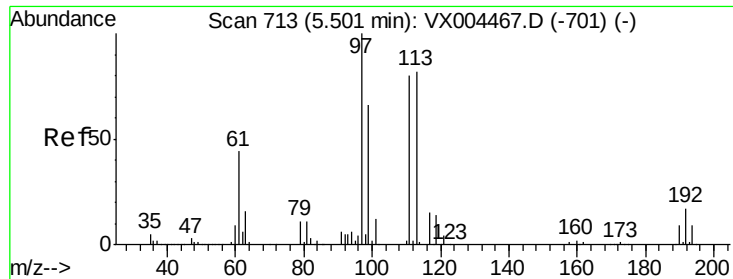
Tot Ion: 65 Resp: 152904
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX004690.D
 Acq: 19 Sep 2018 06:29

Tgt Ion: 114 Resp: 340306
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 39.0
 88 13.6 0.0 30.4





#35

Dibromofluoromethane

Concen: 45.95 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX004690.D

Acq: 19 Sep 2018 06:29

Instrument :

MSVOA_X

ClientSampleId :

2015-161-20-RB36584RT-RB47184R

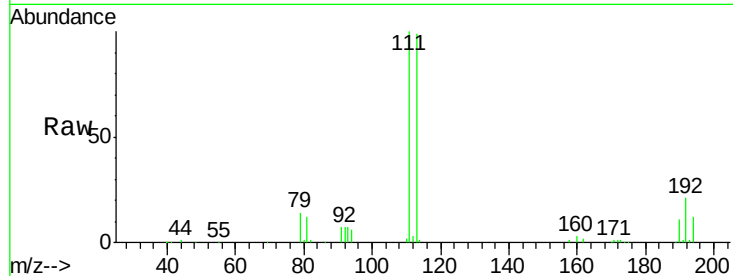
Tot Ion:113 Resp: 143082

Ion Ratio Lower Upper

113 100

111 101.5 82.4 123.6

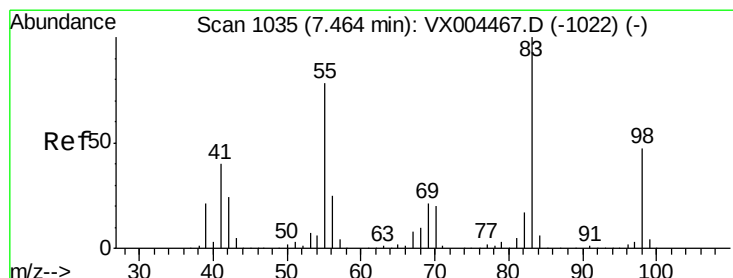
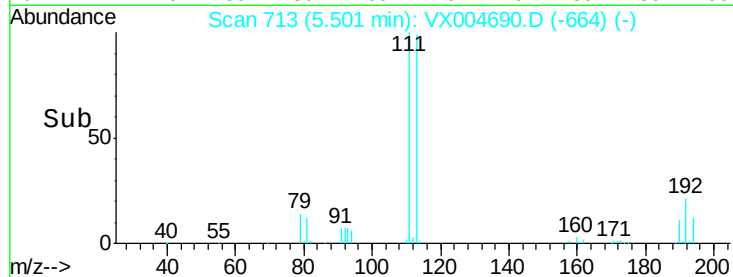
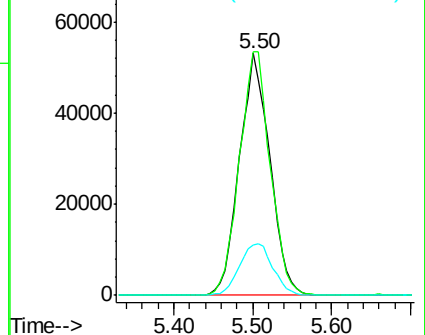
192 23.2 19.4 29.2



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



#39

Methylcyclohexane

Concen: 10.66 ug/l

RT: 7.46 min Scan# 1035

Delta R.T. 0.00 min

Lab File: VX004690.D

Acq: 19 Sep 2018 06:29

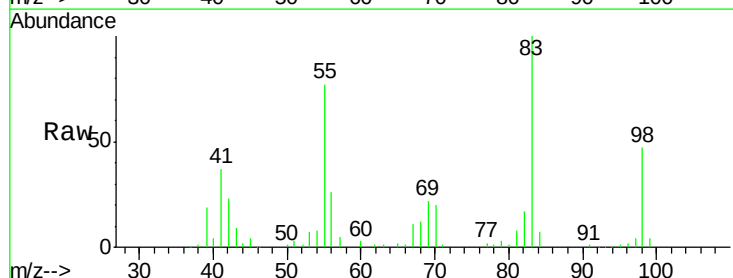
Tgt Ion: 83 Resp: 45952

Ion Ratio Lower Upper

83 100

55 77.1 61.0 91.4

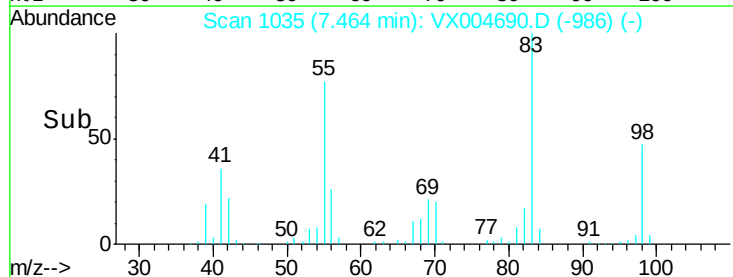
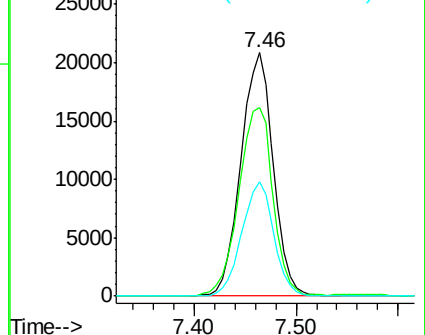
98 46.8 39.6 59.4

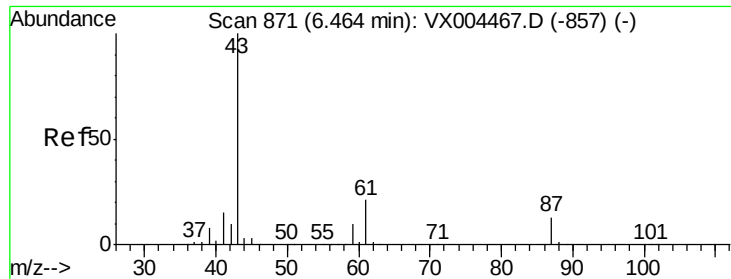


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



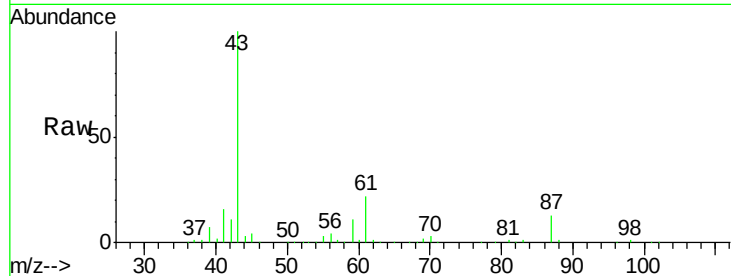


#43

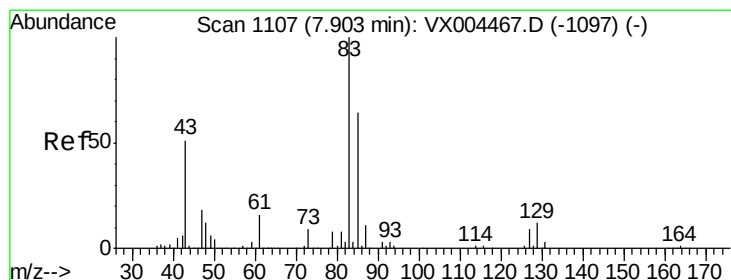
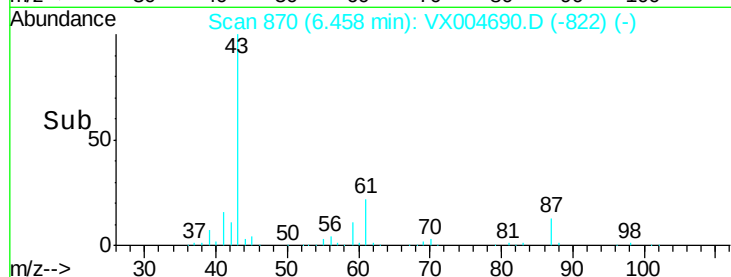
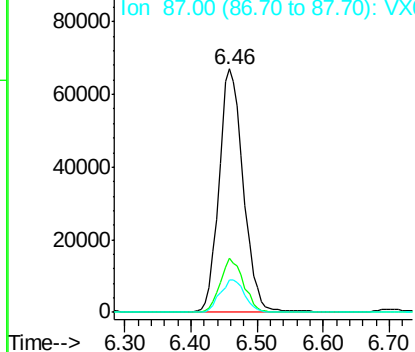
Isopropyl Acetate
 Concen: 27.09 ug/l
 RT: 6.46 min Scan# 870
 Delta R.T. -0.01 min
 Lab File: VX004690.D
 Acq: 19 Sep 2018 06:29

Instrument :
 MSVOA_X
 ClientSampleId :
 2015-161-20-RB36584RT-RB47184R

Tot Ion	43	Resp	169056
Ion Ratio	100	Lower	Upper
61	21.5	17.0	25.4
87	13.9	11.4	17.2



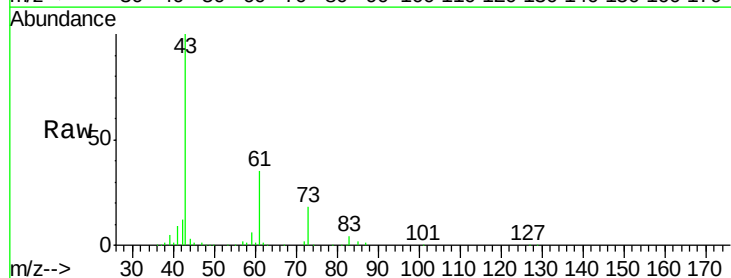
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



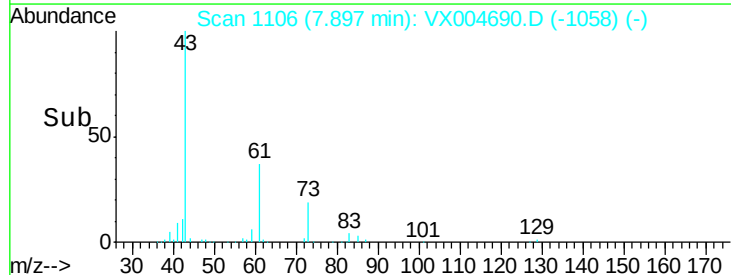
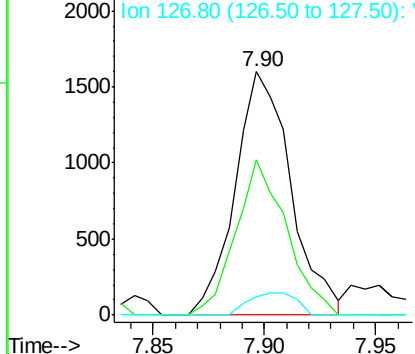
#47

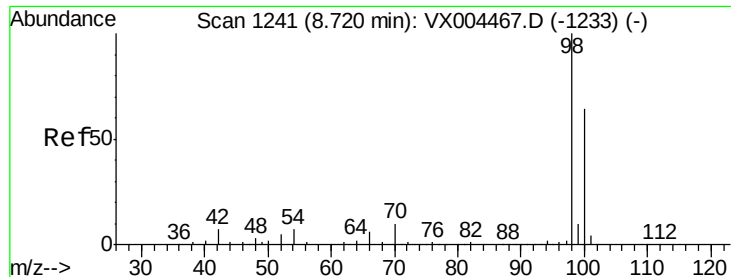
Bromodichloromethane
 Concen: 0.79 ug/l
 RT: 7.90 min Scan# 1106
 Delta R.T. -0.01 min
 Lab File: VX004690.D
 Acq: 19 Sep 2018 06:29

Tgt Ion	83	Resp	2793
Ion Ratio	100	Lower	Upper
85	63.6	50.9	76.3
127	7.5	7.3	10.9



Abundance Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0
 Ion 126.80 (126.50 to 127.50): V





#50

Toluene-d8

Concen: 45.18 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VX004690.D

Acq: 19 Sep 2018 06:29

Instrument :

MSVOA_X

ClientSampleId :

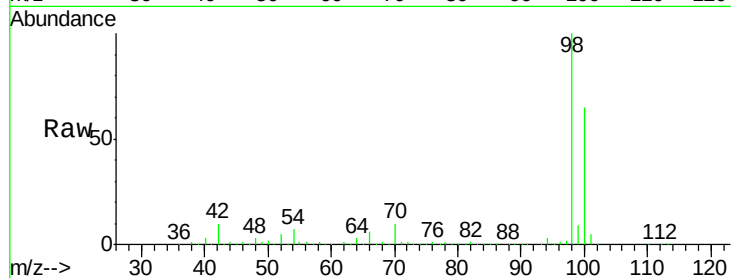
2015-161-20-RB36584RT-RB47184R

Tot Ion: 98 Resp: 471774

Ion Ratio Lower Upper

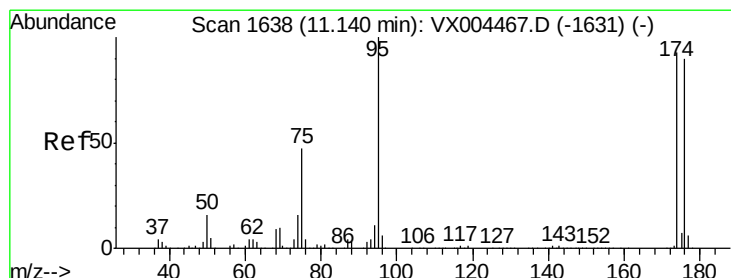
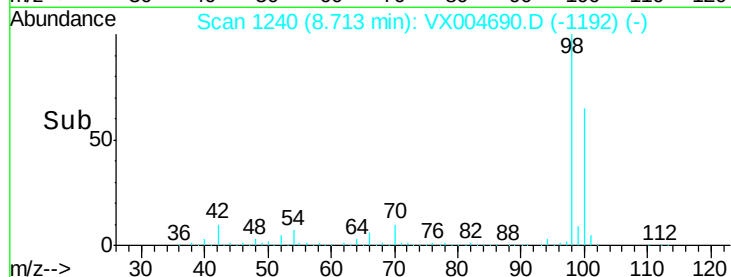
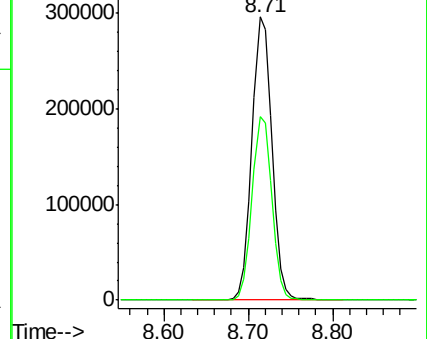
98 100

100 64.1 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 46.06 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX004690.D

Acq: 19 Sep 2018 06:29

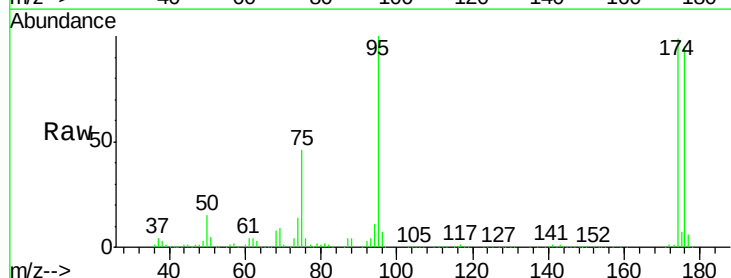
Tgt Ion: 95 Resp: 171716

Ion Ratio Lower Upper

95 100

174 94.4 0.0 185.2

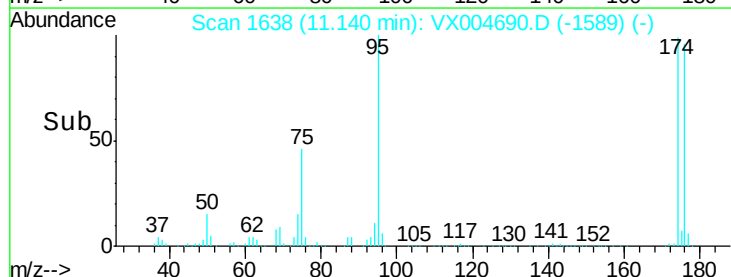
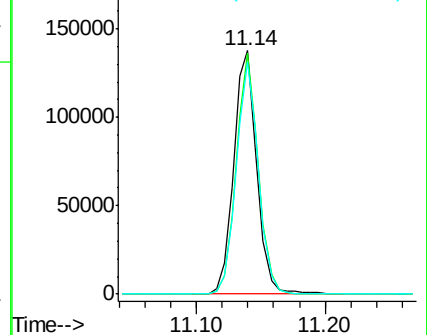
176 91.4 0.0 178.6

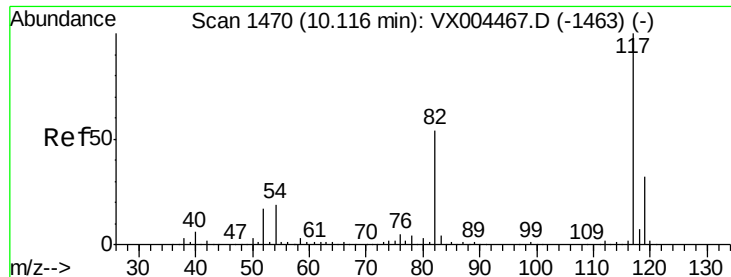


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

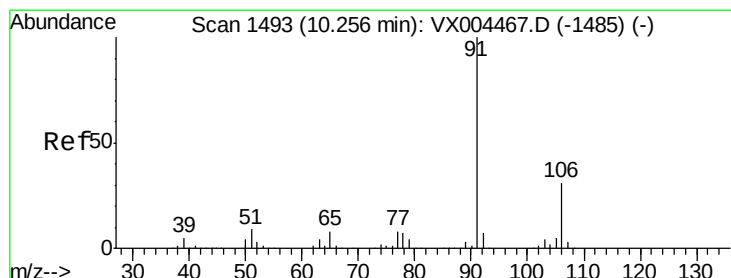
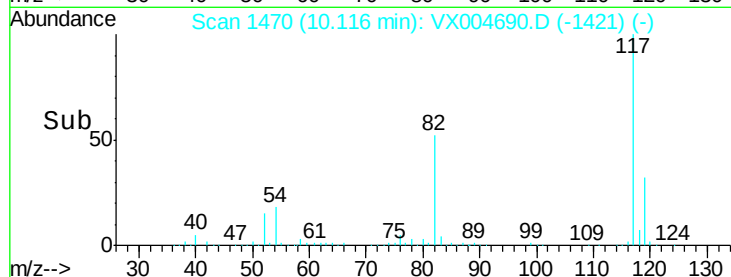
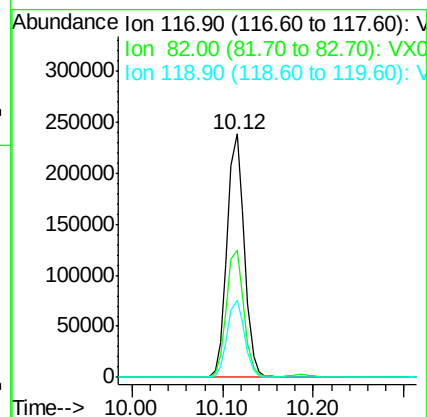
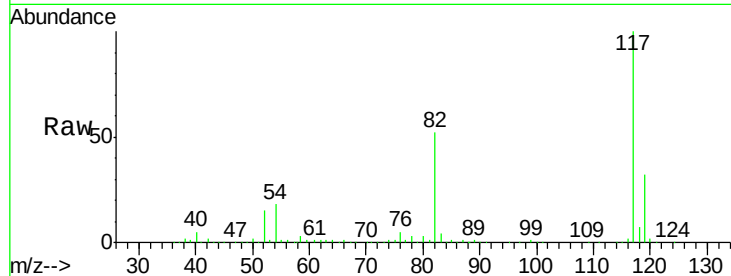




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004690.D
Acq: 19 Sep 2018 06:29

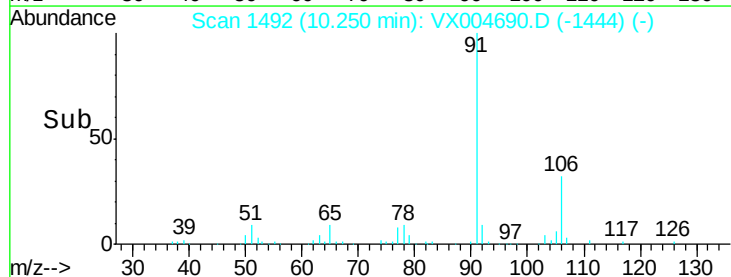
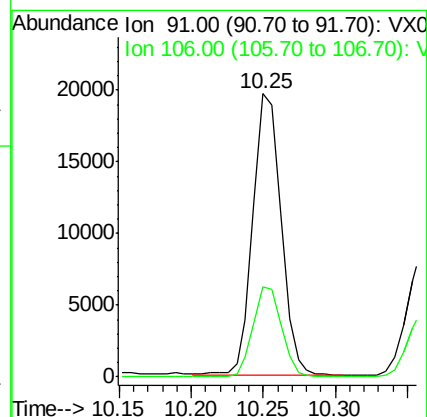
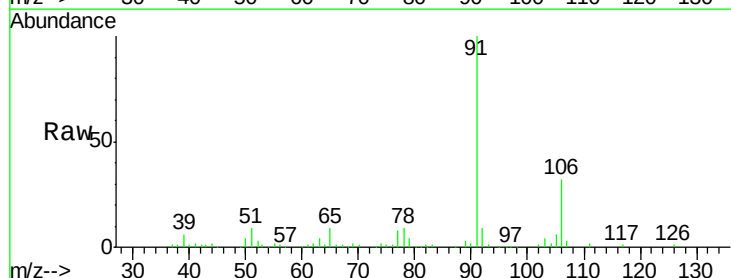
Instrument :
MSVOA_X
ClientSampleId :
2015-161-20-RB36584RT-RB47184R

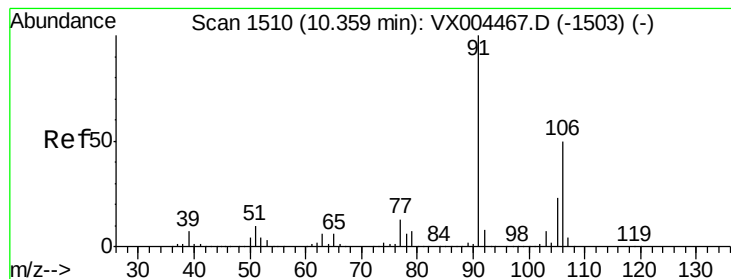
Tot Ion:117 Resp: 317997
Ion Ratio Lower Upper
117 100
82 52.2 47.8 71.6
119 31.9 29.3 43.9



#67
Ethyl Benzene
Concen: 2.08 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. -0.01 min
Lab File: VX004690.D
Acq: 19 Sep 2018 06:29

Tgt Ion: 91 Resp: 26748
Ion Ratio Lower Upper
91 100
106 31.8 25.9 38.9





#68

m/p-Xylenes

Concen: 1.20 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX004690.D

Acq: 19 Sep 2018 06:29

Instrument :

MSVOA_X

ClientSampleId :

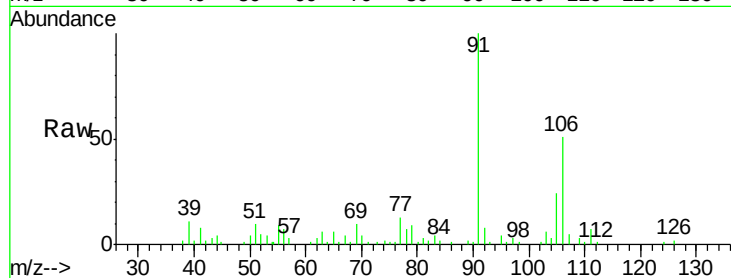
2015-161-20-RB36584RT-RB47184R

Tot Ion:106 Resp: 5949

Ion Ratio Lower Upper

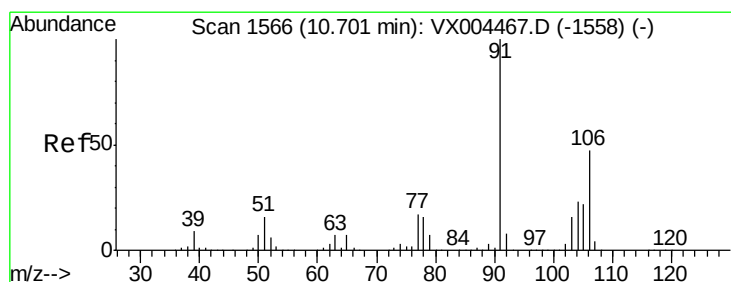
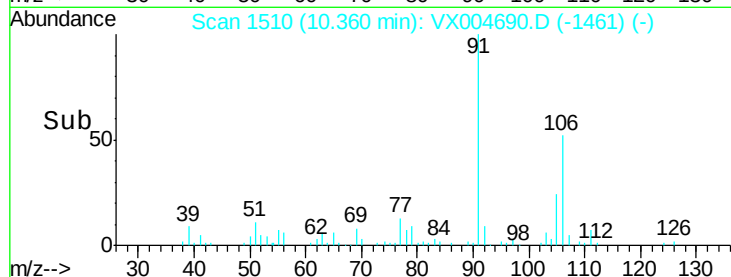
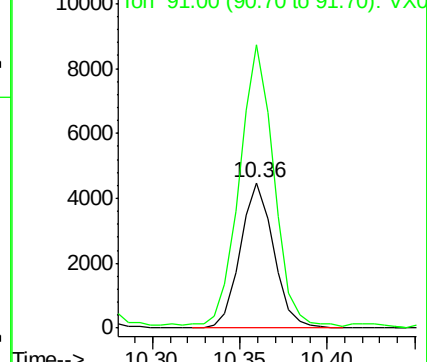
106 100

91 197.7 157.1 235.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#69

o-Xylene

Concen: 0.25 ug/l

RT: 10.70 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VX004690.D

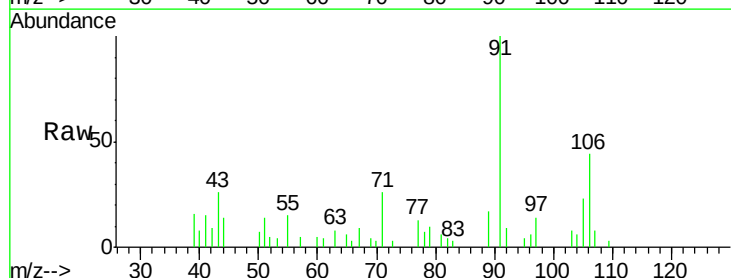
Acq: 19 Sep 2018 06:29

Tgt Ion:106 Resp: 1167

Ion Ratio Lower Upper

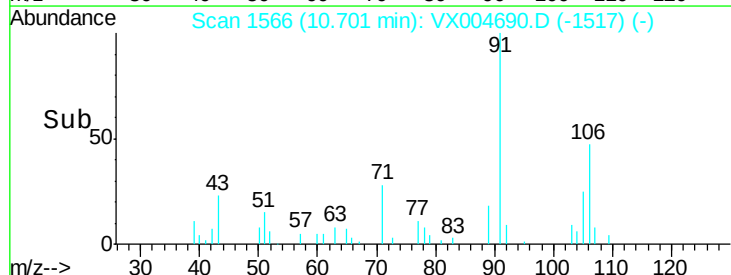
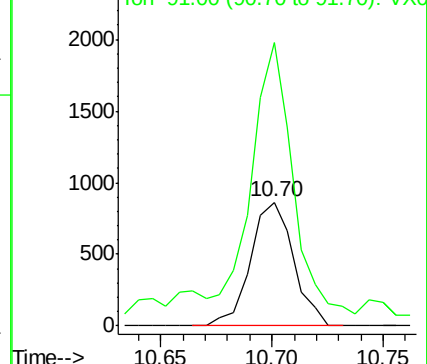
106 100

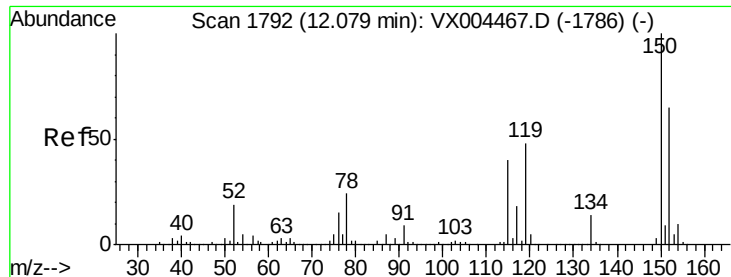
91 251.2 105.1 315.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX004690.D

Acq: 19 Sep 2018 06:29

Instrument :

MSVOA_X

ClientSampleId :

2015-161-20-RB36584RT-RB47184R

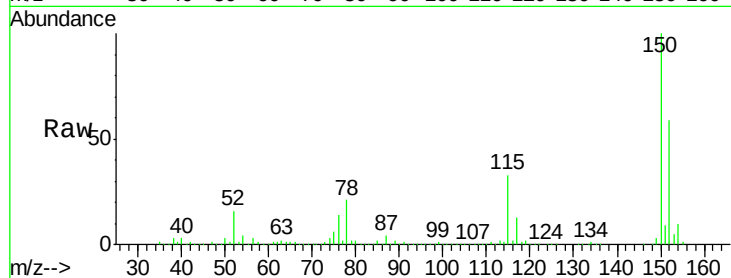
Tot Ion:152 Resp: 208544

Ion Ratio Lower Upper

152 100

115 54.6 39.0 117.0

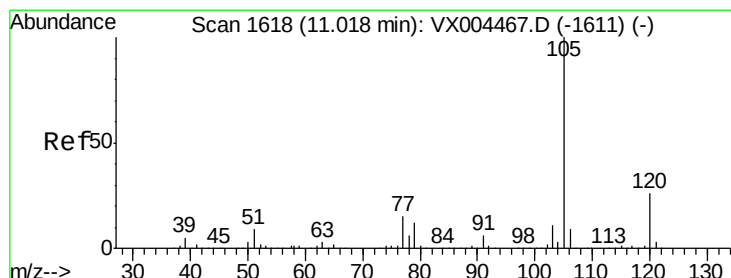
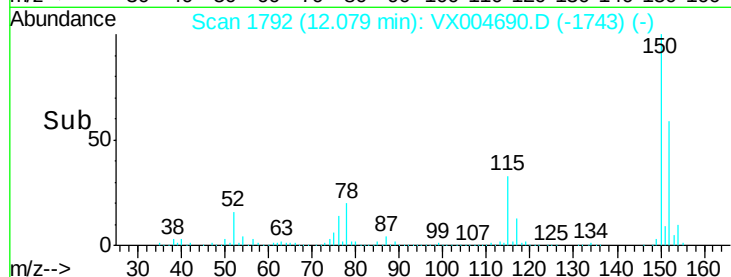
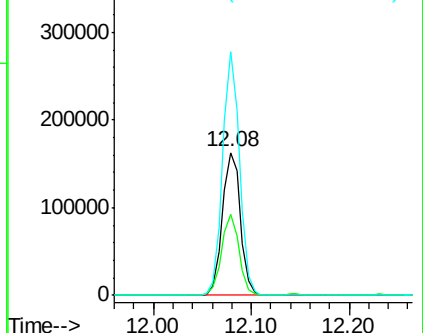
150 159.8 0.0 351.0



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: 4.59 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX004690.D

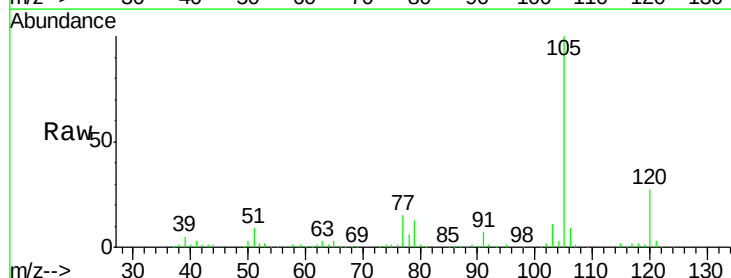
Acq: 19 Sep 2018 06:29

Tgt Ion:105 Resp: 63065

Ion Ratio Lower Upper

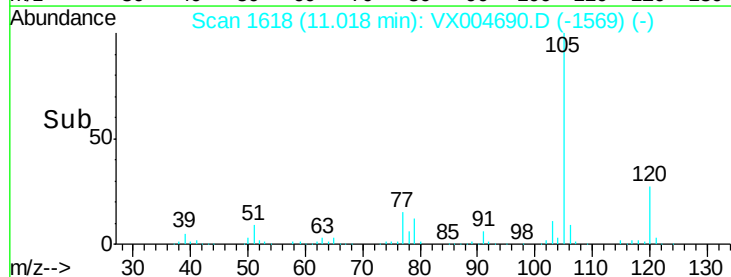
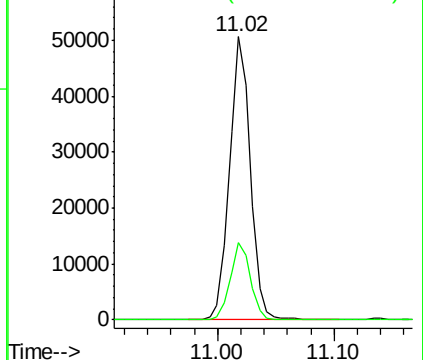
105 100

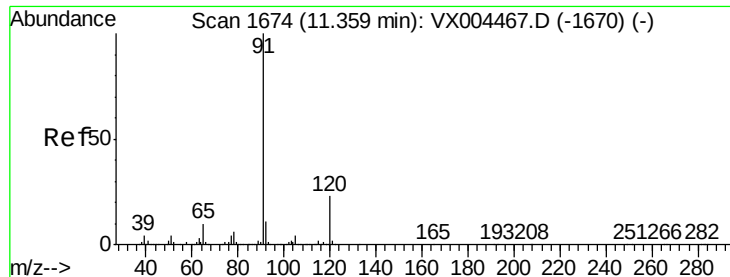
120 26.8 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 5.72 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX004690.D

Acq: 19 Sep 2018 06:29

Instrument :

MSVOA_X

ClientSampleId :

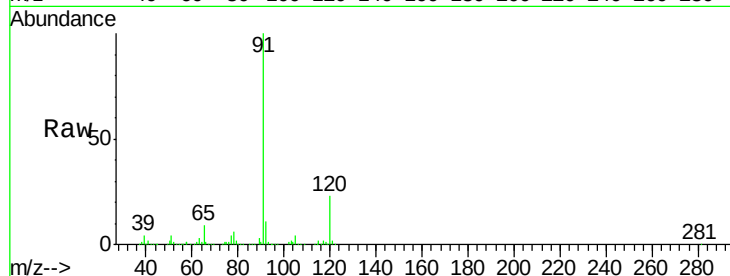
2015-161-20-RB36584RT-RB47184R

Tot Ion: 91 Resp: 90258

Ion Ratio Lower Upper

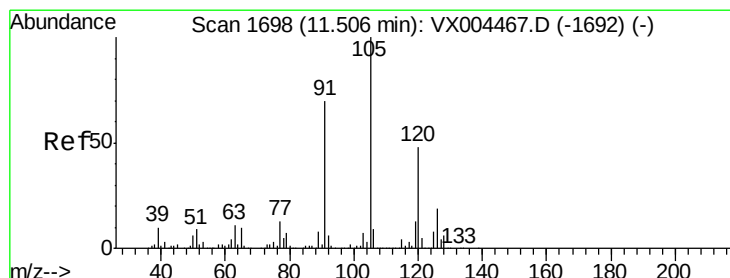
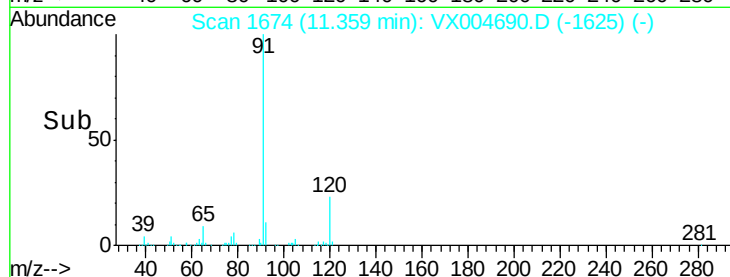
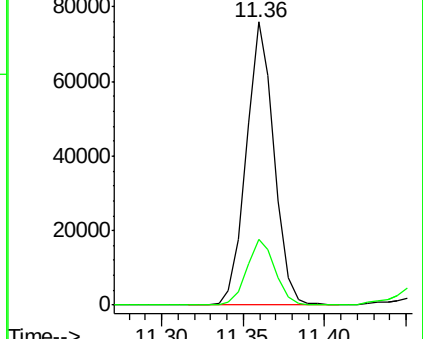
91 100

120 23.7 11.9 35.9



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: 2.10 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX004690.D

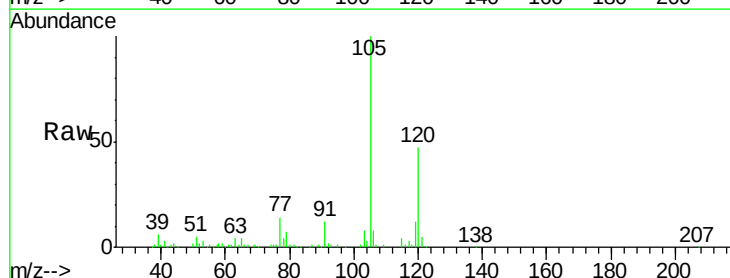
Acq: 19 Sep 2018 06:29

Tgt Ion:105 Resp: 24254

Ion Ratio Lower Upper

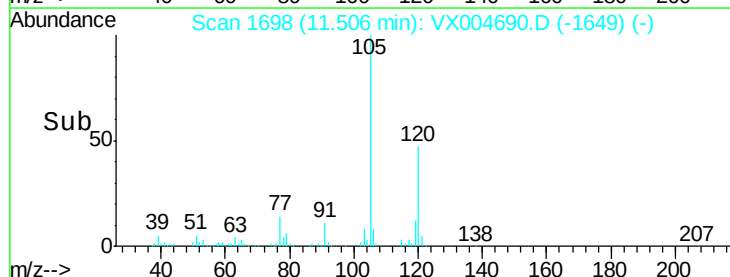
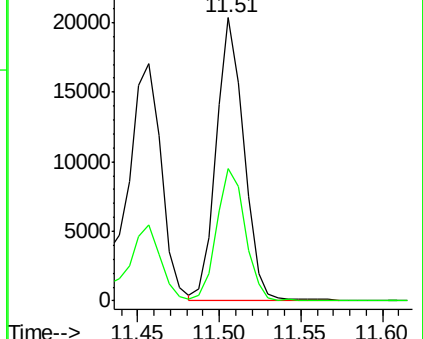
105 100

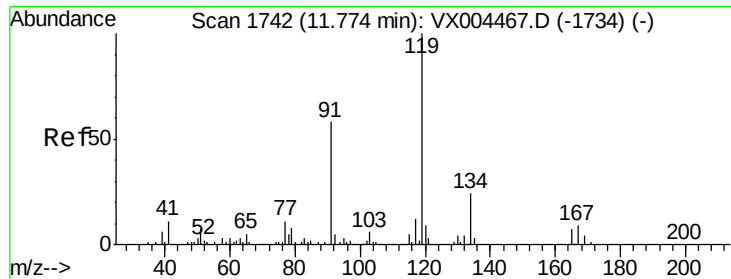
120 48.0 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

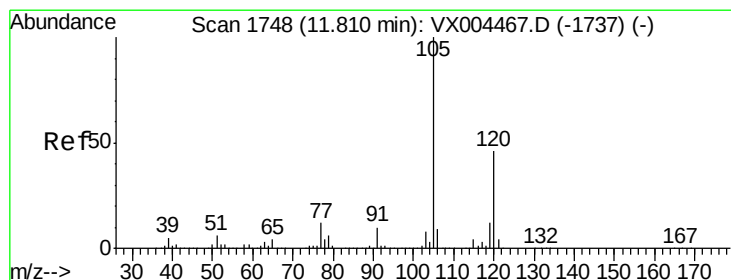
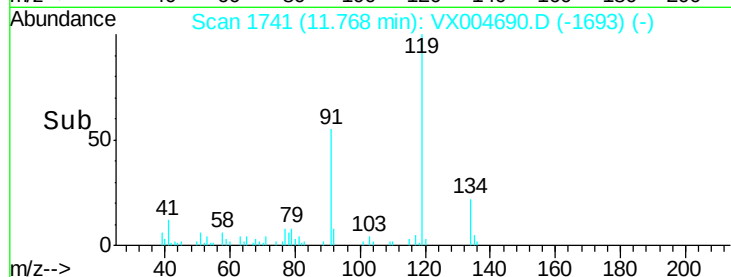
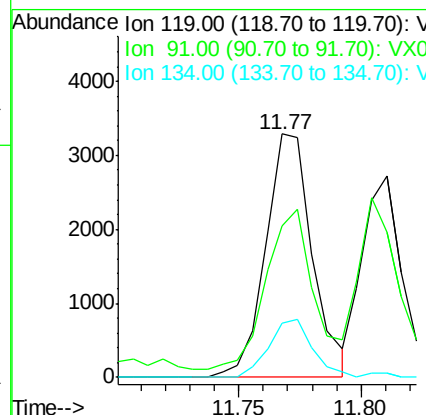
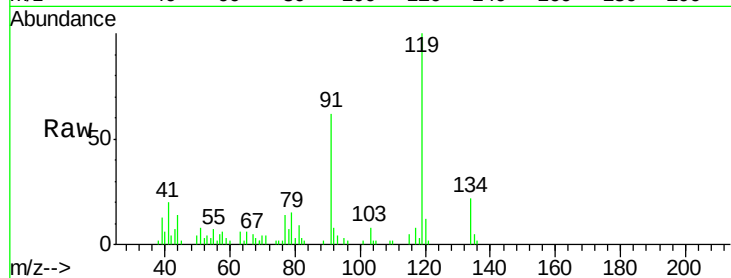




#83
 tert-Butylbenzene
 Concen: 0.40 ug/l
 RT: 11.77 min Scan# 1741
 Delta R.T. -0.01 min
 Lab File: VX004690.D
 Acq: 19 Sep 2018 06:29

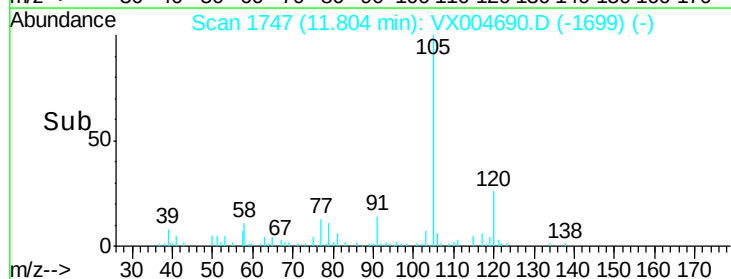
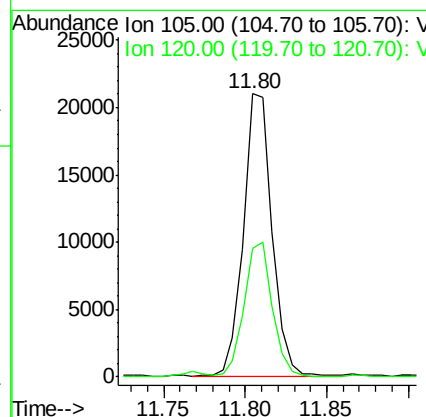
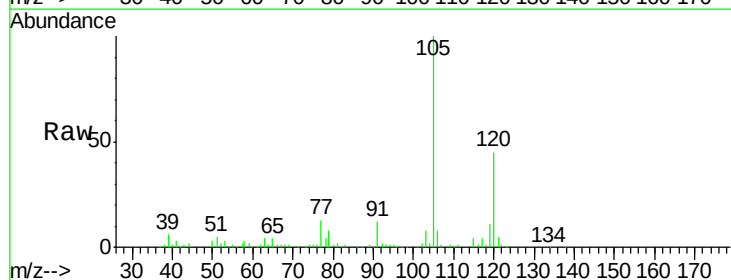
Instrument :
 MSVOA_X
 ClientSampleId :
 2015-161-20-RB36584RT-RB47184R

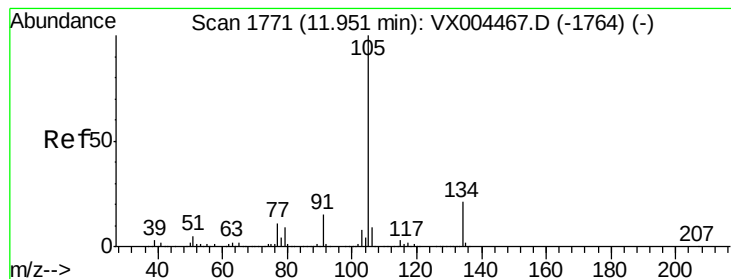
Tot Ion:119 Resp: 4399
 Ion Ratio Lower Upper
 119 100
 91 67.0 27.0 81.0
 134 22.0 11.7 35.1



#84
 1,2,4-Trimethylbenzene
 Concen: 2.16 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. -0.01 min
 Lab File: VX004690.D
 Acq: 19 Sep 2018 06:29

Tgt Ion:105 Resp: 25444
 Ion Ratio Lower Upper
 105 100
 120 47.1 23.2 69.6





#85

sec-Butylbenzene

Concen: 2.28 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.01 min

Lab File: VX004690.D

Acq: 19 Sep 2018 06:29

Instrument :

MSVOA_X

ClientSampleId :

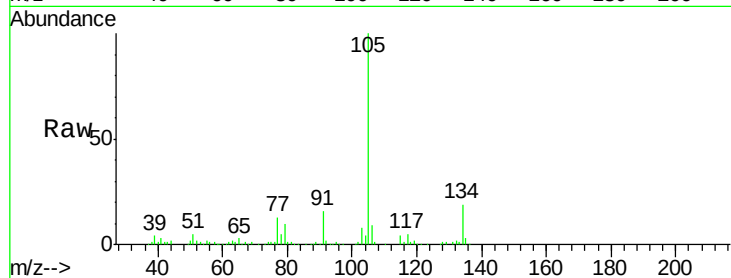
2015-161-20-RB36584RT-RB47184R

Tot Ion:105 Resp: 31883

Ion Ratio Lower Upper

105 100

134 30.8 10.5 31.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.94

30000

25000

20000

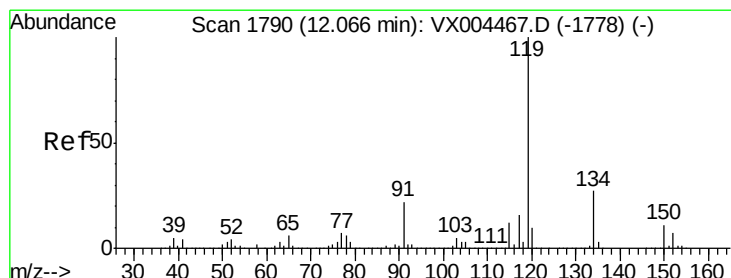
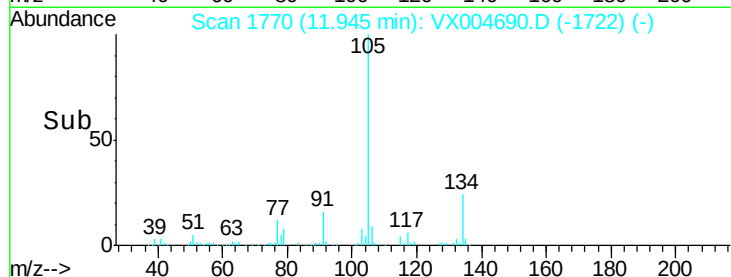
15000

10000

5000

0

Time--> 11.85 11.90 11.95 12.00



#86

p-Isopropyltoluene

Concen: 2.63 ug/l

RT: 12.07 min Scan# 1790

Delta R.T. 0.00 min

Lab File: VX004690.D

Acq: 19 Sep 2018 06:29

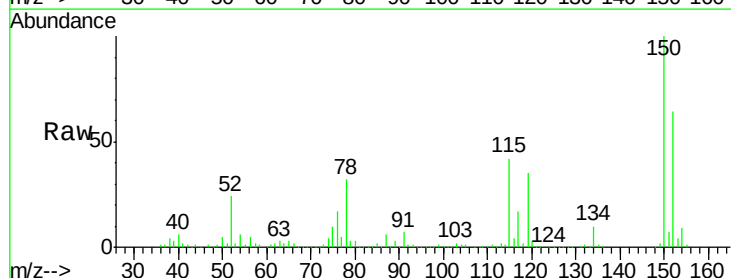
Tgt Ion:119 Resp: 32562

Ion Ratio Lower Upper

119 100

134 28.3 13.4 40.2

91 24.7 10.9 32.7



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): VX0

12.07

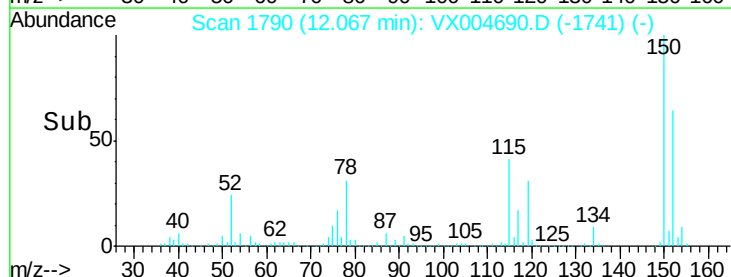
30000

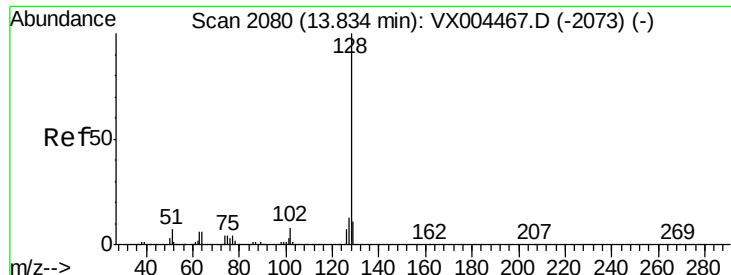
20000

10000

0

Time--> 12.05 12.10

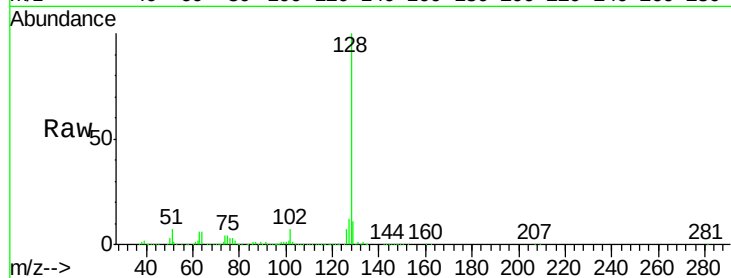




#95
Naphthalene
Concen: 8.94 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX004690.D
Acq: 19 Sep 2018 06:29

Instrument :
MSVOA_X
ClientSampleId :
2015-161-20-RB36584RT-RB47184R

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	13.0	8.6	12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

