

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022219\
 Data File : VX007653.D
 Acq On : 22 Feb 2019 12:16
 Operator : JC/SP
 Sample : K1568-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 55-ST-1

Quant Time: Feb 23 00:29:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X021319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 13 07:51:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	65480	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	315557	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	273304	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	130181	30.73	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.43%
60) 4-Bromofluorobenzene	11.13	95	115653	27.57	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.90%
63) Toluene-d8	8.71	98	369510	29.91	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.70%

Target Compounds

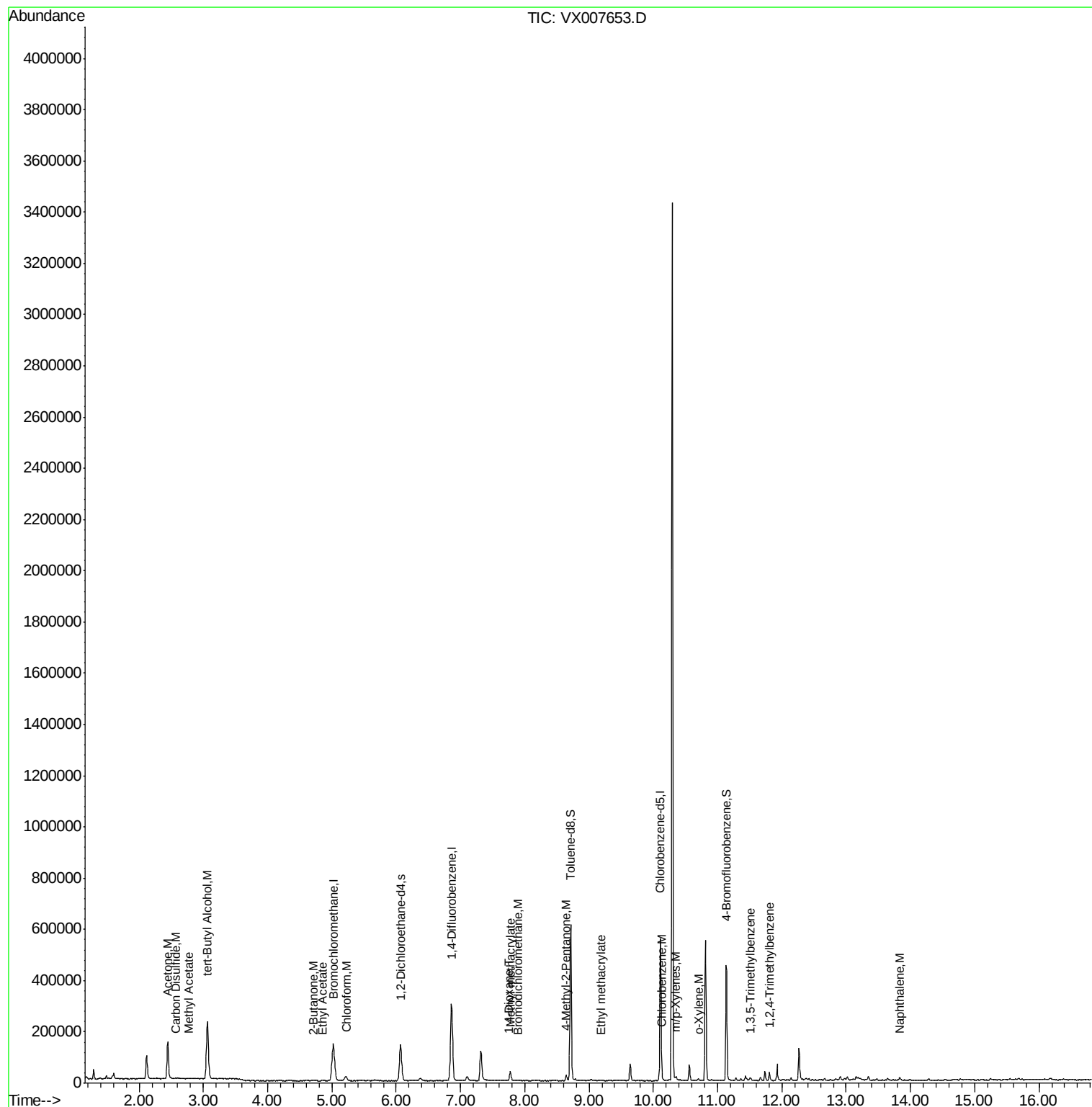
					Ovalue
12) Methyl Acetate	2.78	43	2371	0.478	ug/l 99
15) Acetone	2.45	58	49347	79.546	ug/l 91
16) Carbon Disulfide	2.57	76	3250	0.341	ug/l 99
23) tert-Butyl Alcohol	3.06	59	267973	278.915	ug/l # 100
25) Chloroform	5.22	83	18148	2.631	ug/l 96
30) 2-Butanone	4.71	43	3080	1.182	ug/l # 85
41) Bromodichloromethane	7.90	83	1338	0.302	ug/l # 94
43) Ethyl Acetate	4.86	43	3216	0.645	ug/l # 81
45) 1,4-Dioxane	7.75	88	322	3.542	ug/l # 34
46) Methyl methacrylate	7.77	41	11616	2.978	ug/l 89
51) Ethyl methacrylate	9.18	69	1169	0.222	ug/l 88
58) 4-Methyl-2-Pentanone	8.65	43	12448	2.532	ug/l 93
64) Chlorobenzene	10.14	112	1946	0.201	ug/l # 69
67) m/p-Xylenes	10.35	106	2624	0.424	ug/l 98
68) o-Xylene	10.69	106	1241	0.205	ug/l 97
76) 1,3,5-Trimethylbenzene	11.51	105	4204	0.323	ug/l 93
80) 1,2,4-Trimethylbenzene	11.80	105	14199	1.075	ug/l 95
91) Naphthalene	13.83	128	6203	0.386	ug/l # 87

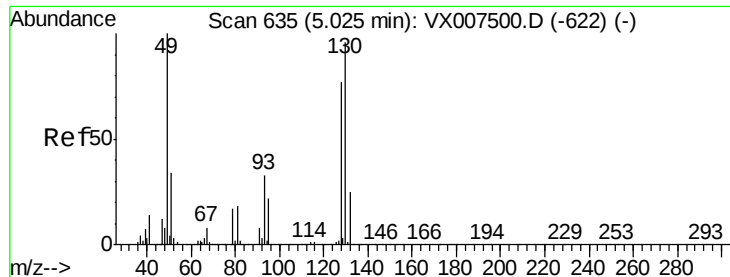
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Feb 13 07:51:18 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.03 min Scan# 635

Delta R.T. 0.00 min

Lab File: VX007653.D

Acq: 22 Feb 2019 12:16

Instrument :

MSVOA_X

ClientSampleId :

55-ST-1

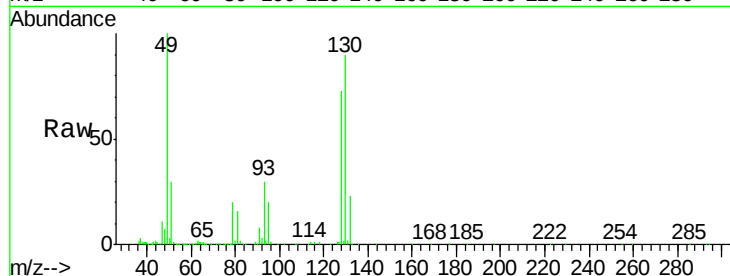
Tot Ion:128 Resp: 65480

Ion Ratio Lower Upper

128 100

49 139.9 0.0 350.8

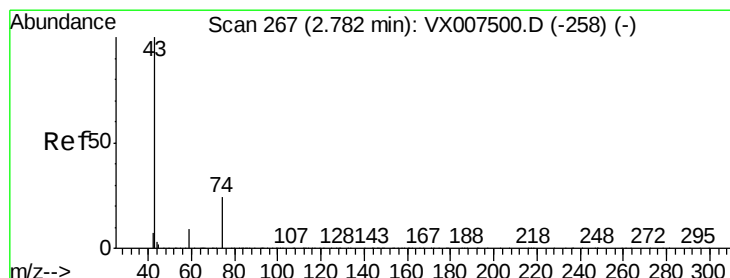
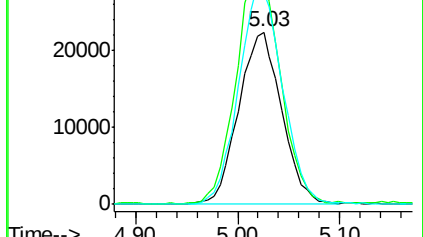
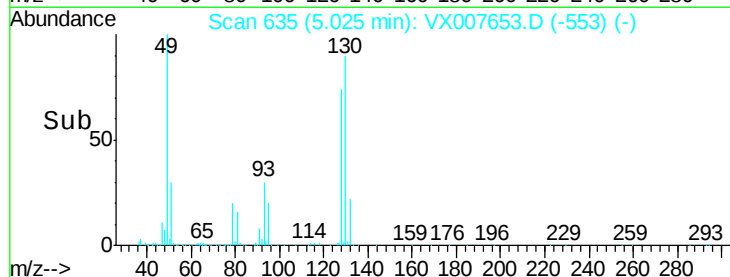
130 127.0 0.0 325.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#12

Methyl Acetate

Concen: 0.478 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX007653.D

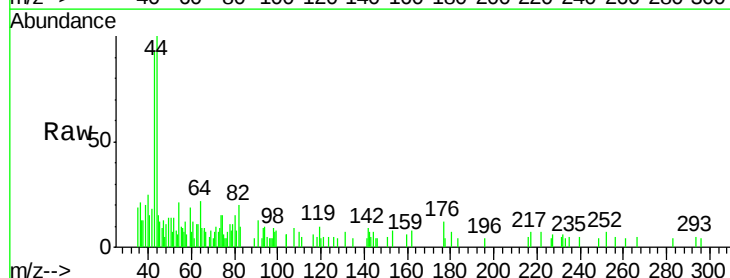
Acq: 22 Feb 2019 12:16

Tgt Ion: 43 Resp: 2371

Ion Ratio Lower Upper

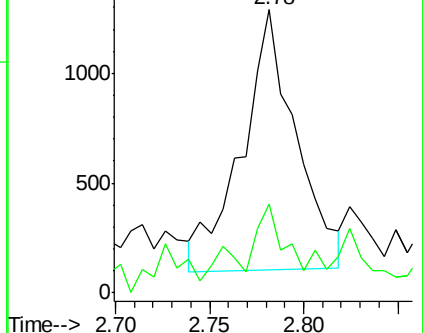
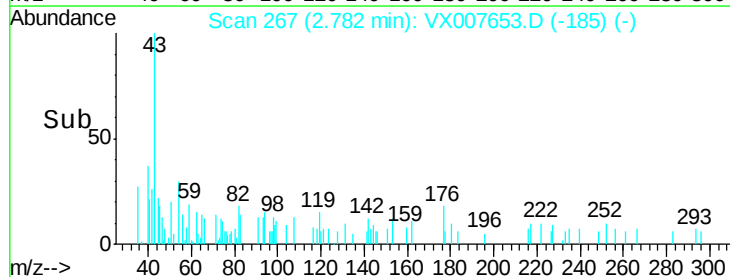
43 100

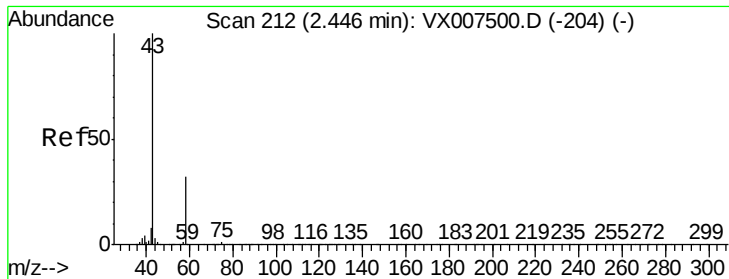
74 23.9 19.4 29.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#15

Acetone

Concen: 79.546 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007653.D

Acq: 22 Feb 2019 12:16

Instrument :

MSVOA_X

ClientSampleId :

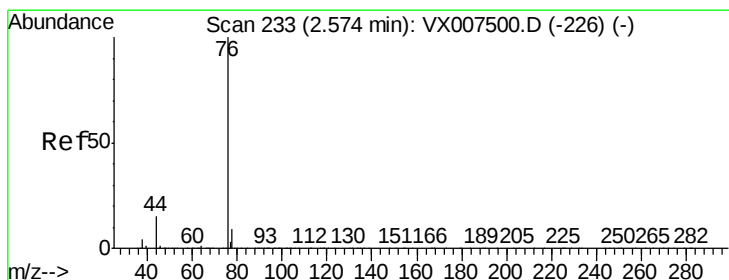
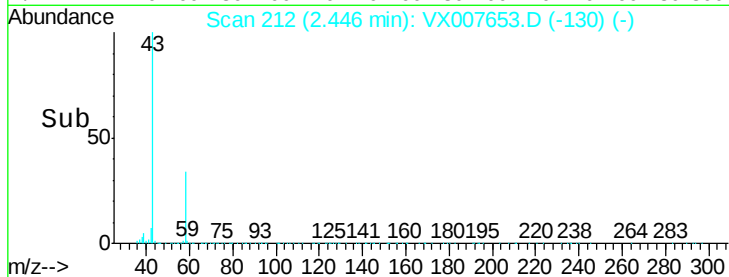
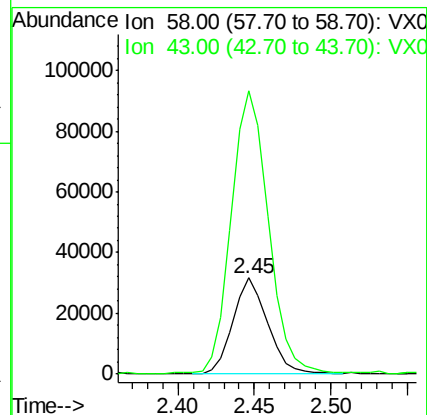
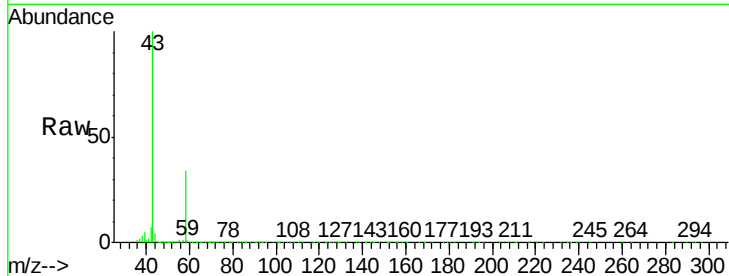
55-ST-1

Tot Ion: 58 Resp: 49347

Ion Ratio Lower Upper

58 100

43 294.4 249.8 374.6



#16

Carbon Disulfide

Concen: 0.341 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007653.D

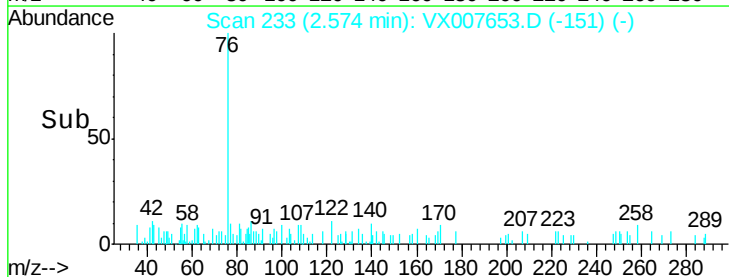
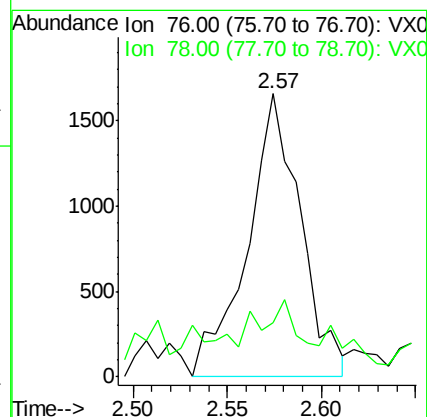
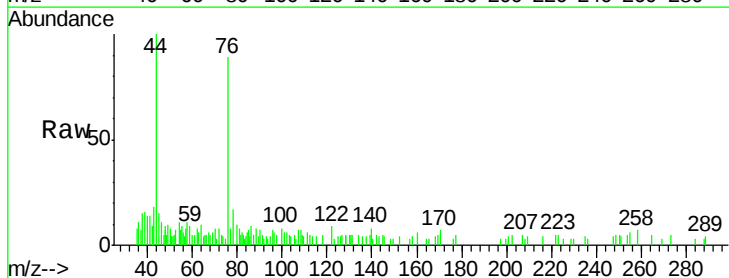
Acq: 22 Feb 2019 12:16

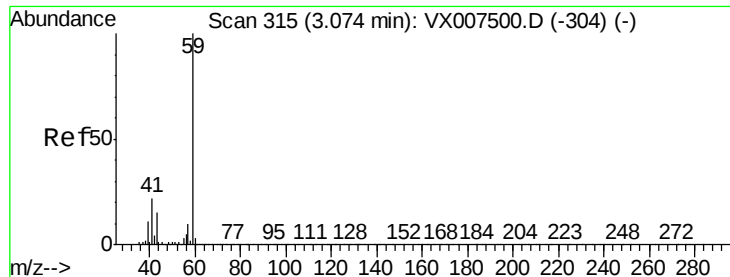
Tgt Ion: 76 Resp: 3250

Ion Ratio Lower Upper

76 100

78 9.2 7.5 11.3



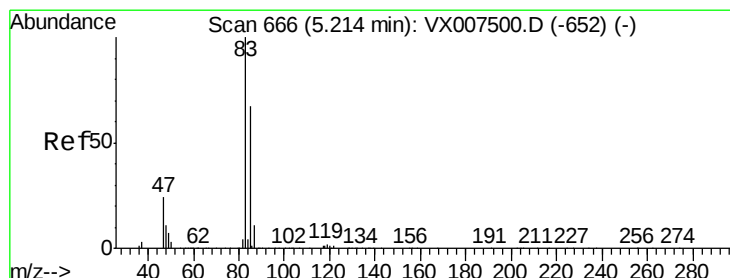
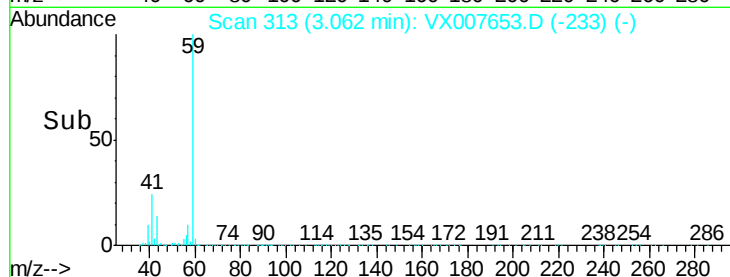
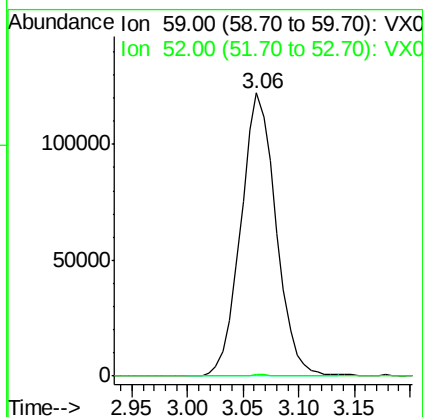
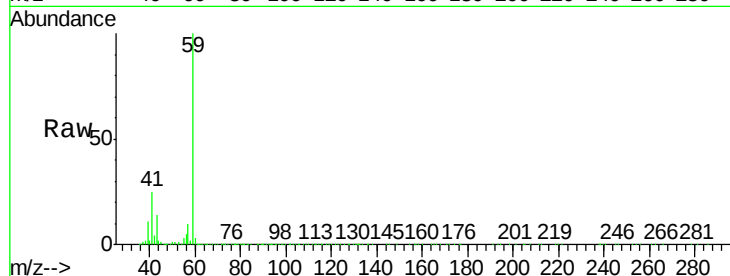


#23

tert-Butyl Alcohol
 Concen: 278.915 ug/l
 RT: 3.06 min Scan# 313
 Delta R.T. -0.01 min
 Lab File: VX007653.D
 Acq: 22 Feb 2019 12:16

Instrument :
 MSVOA_X
 ClientSampleId :
 55-ST-1

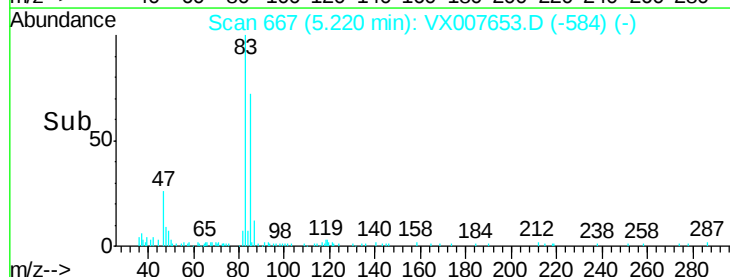
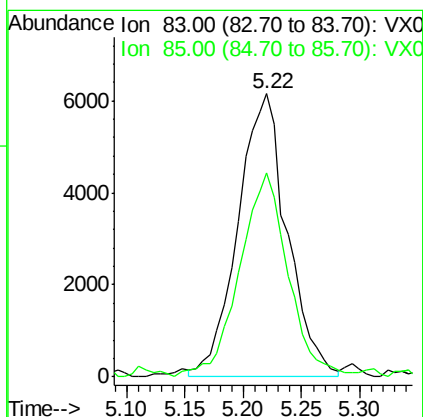
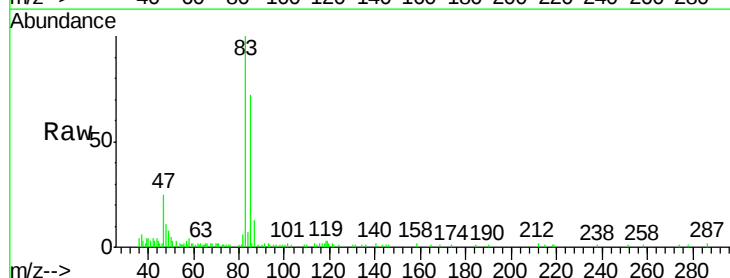
Tot Ion: 59 Resp: 267973
 Ion Ratio Lower Upper
 59 100
 52 0.3 0.2 0.2#

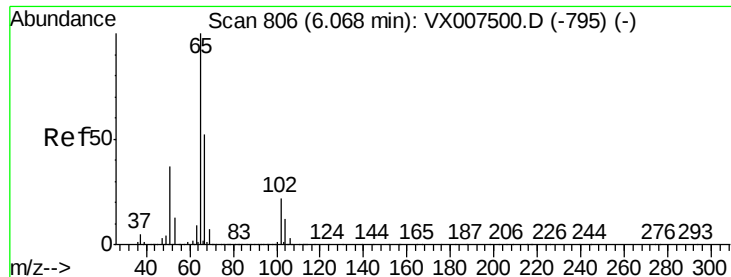


#25

Chloroform
 Concen: 2.631 ug/l
 RT: 5.22 min Scan# 667
 Delta R.T. 0.01 min
 Lab File: VX007653.D
 Acq: 22 Feb 2019 12:16

Tgt Ion: 83 Resp: 18148
 Ion Ratio Lower Upper
 83 100
 85 70.7 53.8 80.6





#27

1,2-Dichloroethane-d4

Concen: 30.734 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007653.D

Acq: 22 Feb 2019 12:16

Instrument :

MSVOA_X

ClientSampleId :

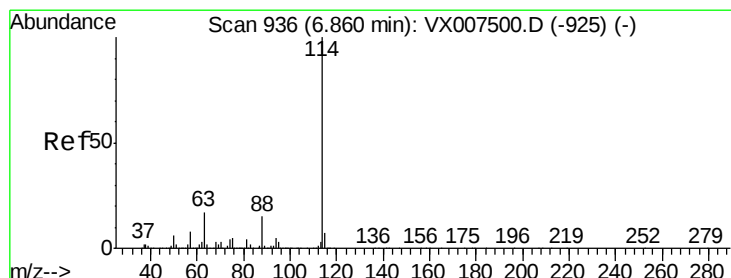
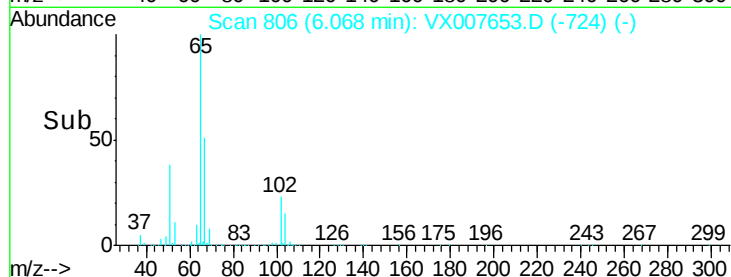
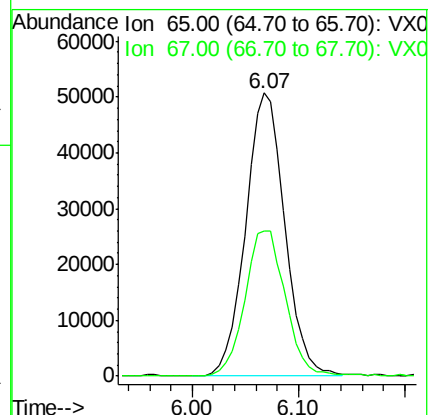
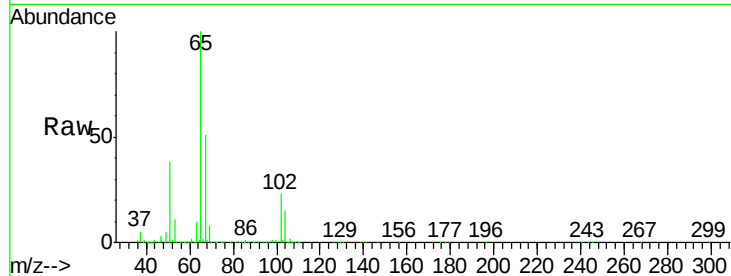
55-ST-1

Tot Ion: 65 Resp: 130181

Ion Ratio Lower Upper

65 100

67 53.3 42.9 64.3



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX007653.D

Acq: 22 Feb 2019 12:16

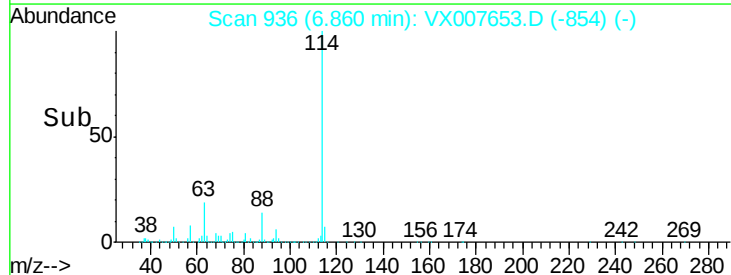
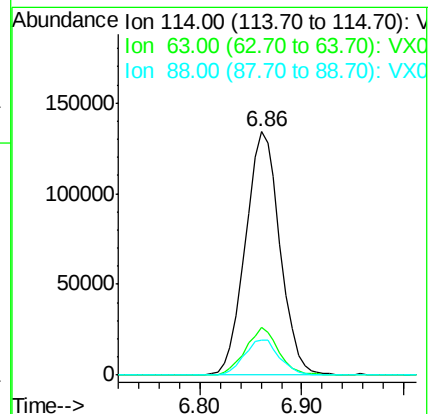
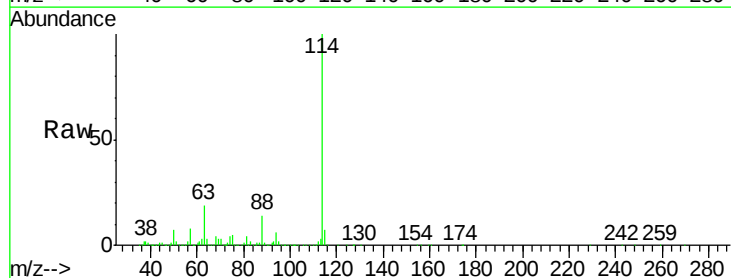
Tgt Ion: 114 Resp: 315557

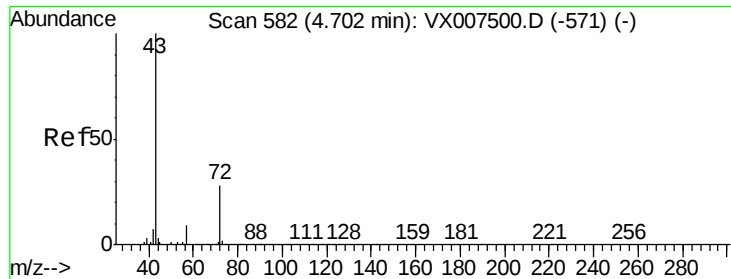
Ion Ratio Lower Upper

114 100

63 18.6 14.2 21.4

88 14.8 11.9 17.9

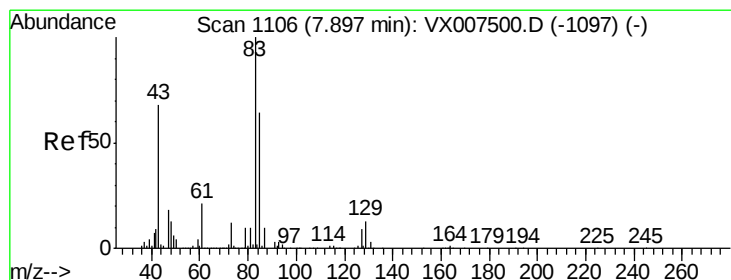
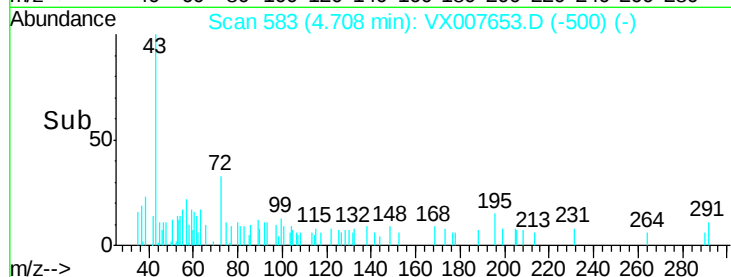
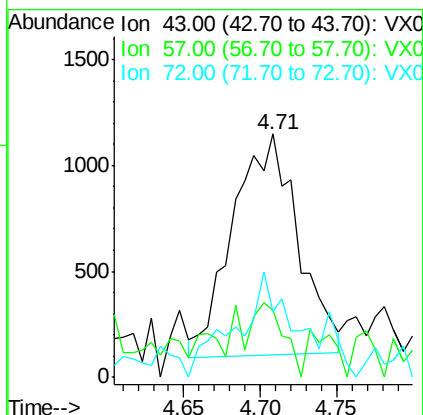
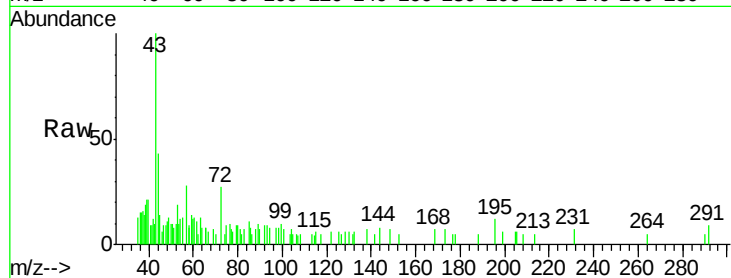




#30
2-Butanone
Concen: 1.182 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX007653.D
Acq: 22 Feb 2019 12:16

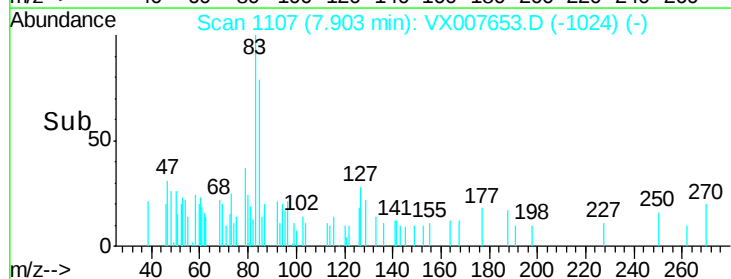
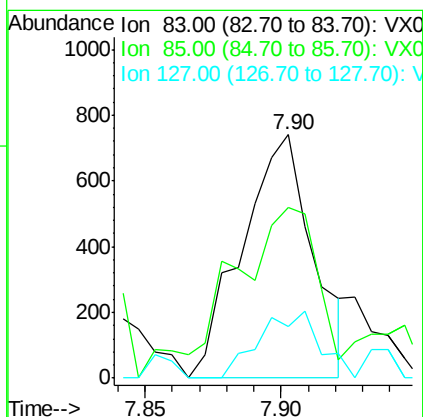
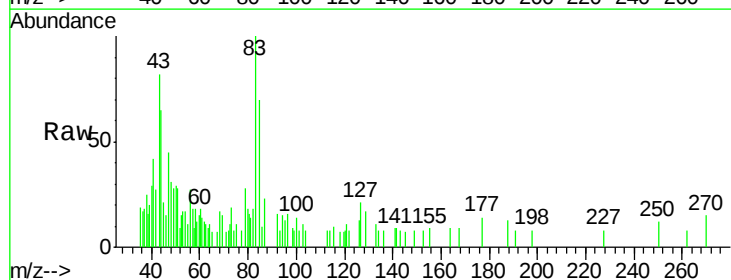
Instrument :
MSVOA_X
ClientSampled :
55-ST-1

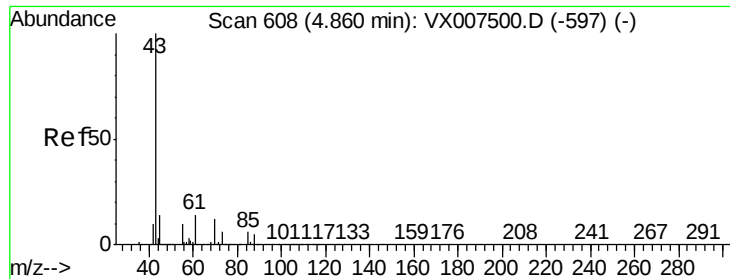
Tot Ion: 43 Resp: 3080
Ion Ratio Lower Upper
43 100
57 15.8 7.0 10.6#
72 19.8 21.5 32.3#



#41
Bromodichloromethane
Concen: 0.302 ug/l
RT: 7.90 min Scan# 1107
Delta R.T. 0.01 min
Lab File: VX007653.D
Acq: 22 Feb 2019 12:16

Tgt Ion: 83 Resp: 1338
Ion Ratio Lower Upper
83 100
85 62.5 51.1 76.7
127 21.3 7.2 10.8#

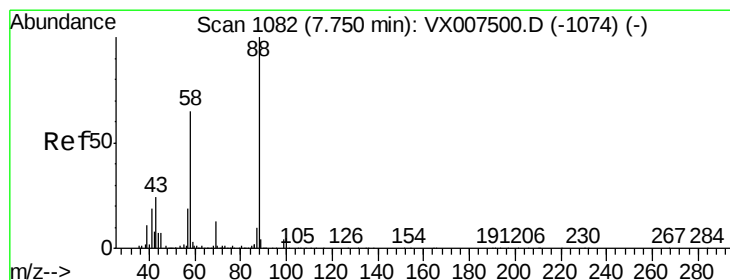
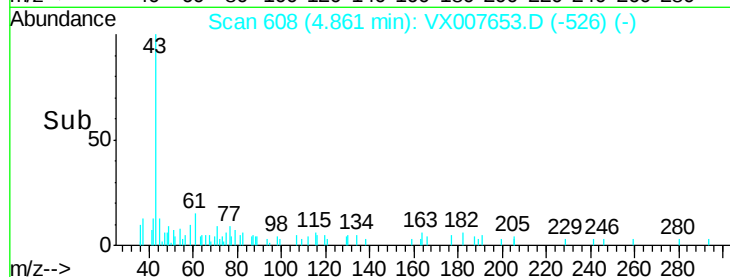
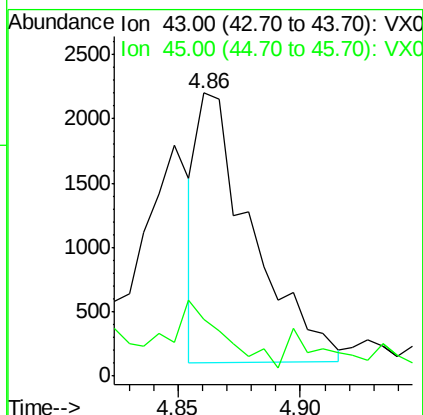
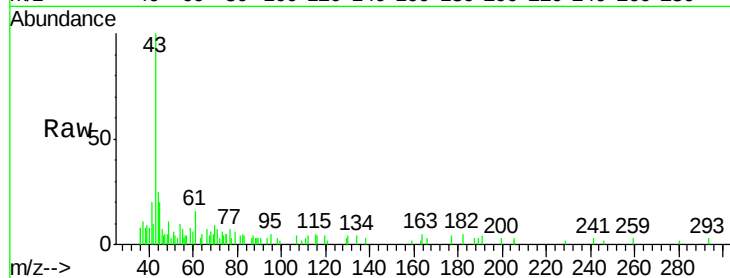




#43
Ethyl Acetate
Concen: 0.645 ug/l
RT: 4.86 min Scan# 608
Delta R.T. 0.00 min
Lab File: VX007653.D
Acq: 22 Feb 2019 12:16

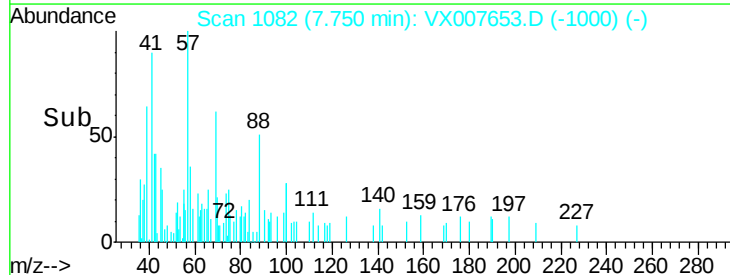
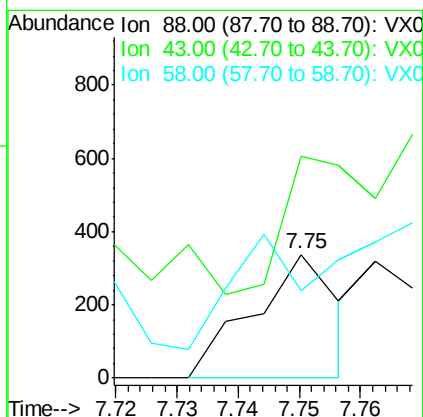
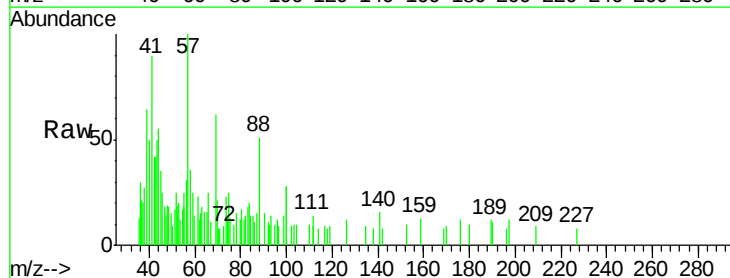
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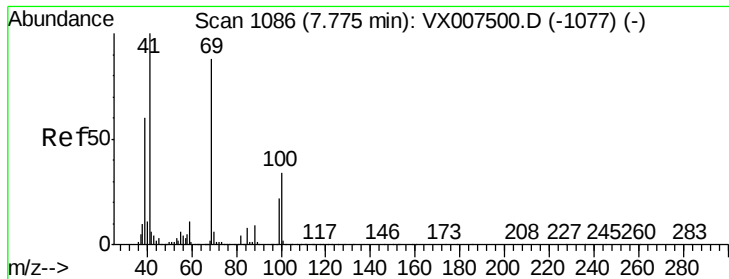
Tot Ion: 43 Resp: 3216
Ion Ratio Lower Upper
43 100
45 15.5 6.9 10.3#



#45
1,4-Dioxane
Concen: 3.542 ug/l
RT: 7.75 min Scan# 1082
Delta R.T. 0.00 min
Lab File: VX007653.D
Acq: 22 Feb 2019 12:16

Tgt Ion: 88 Resp: 322
Ion Ratio Lower Upper
88 100
43 130.1 23.6 35.4#
58 73.3 51.6 77.4

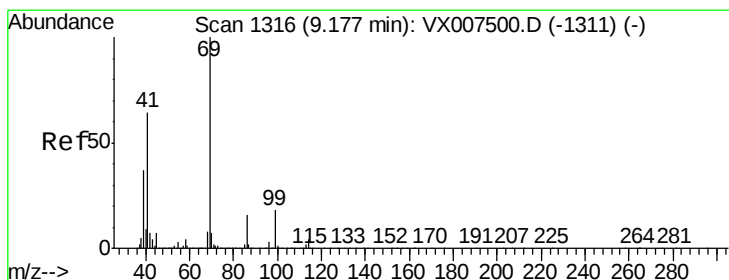
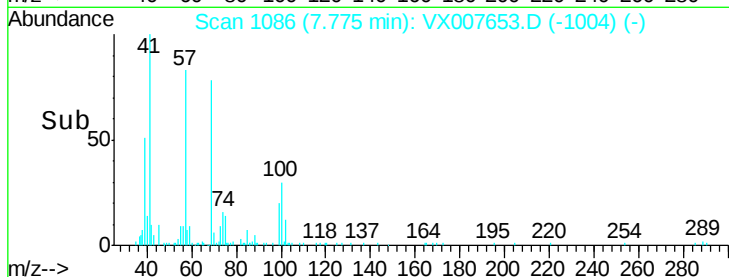
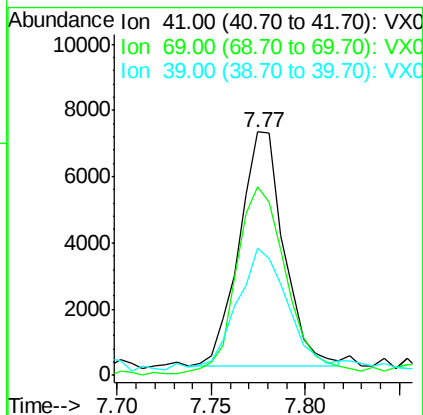
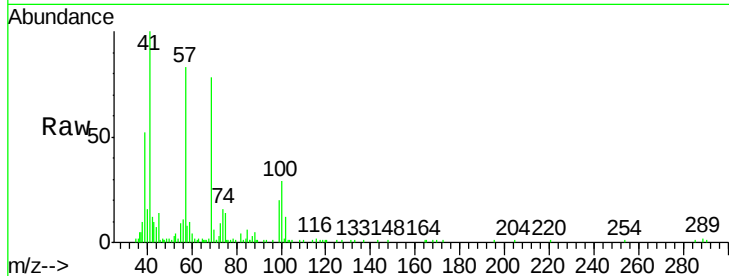




#46
Methyl methacrylate
Concen: 2.978 ug/l
RT: 7.77 min Scan# 1086
Delta R.T. 0.00 min
Lab File: VX007653.D
Acq: 22 Feb 2019 12:16

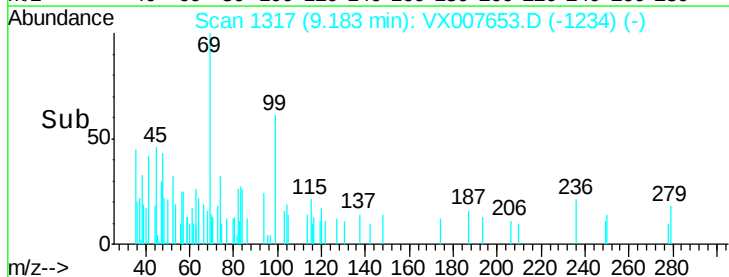
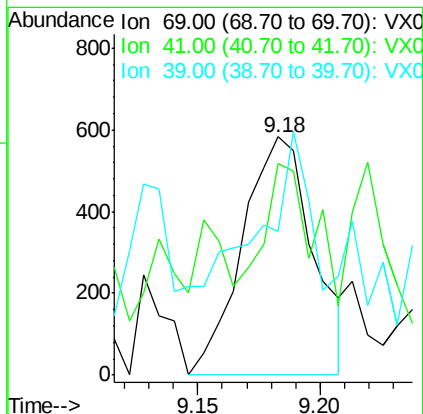
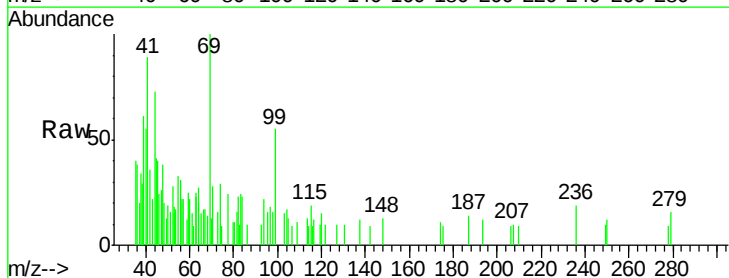
Instrument :
MSVOA_X
ClientSampleId :
55-ST-1

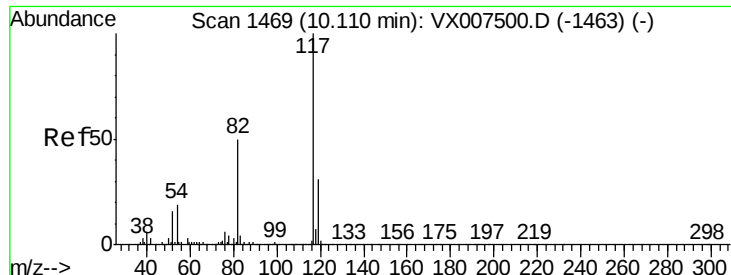
Tot Ion: 41 Resp: 11616
Ion Ratio Lower Upper
41 100
69 78.8 44.2 132.6
39 50.6 29.9 89.8



#51
Ethyl methacrylate
Concen: 0.222 ug/l
RT: 9.18 min Scan# 1317
Delta R.T. 0.01 min
Lab File: VX007653.D
Acq: 22 Feb 2019 12:16

Tgt Ion: 69 Resp: 1169
Ion Ratio Lower Upper
69 100
41 59.9 32.1 96.5
39 23.5 18.8 56.3

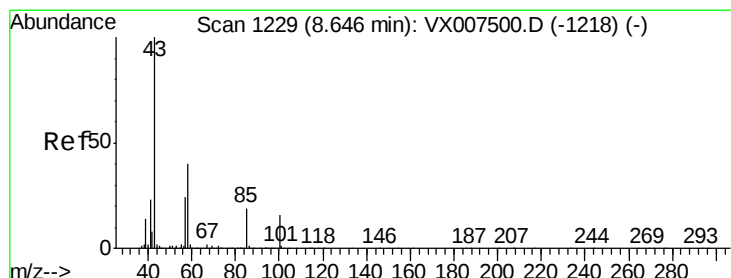
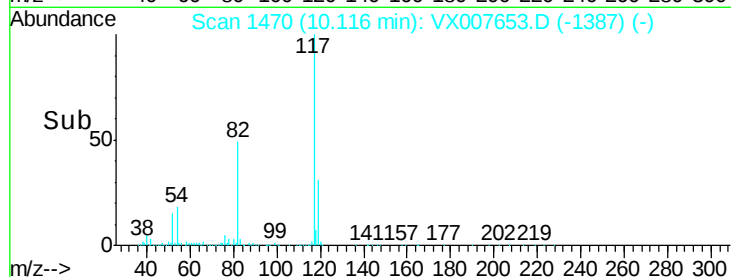
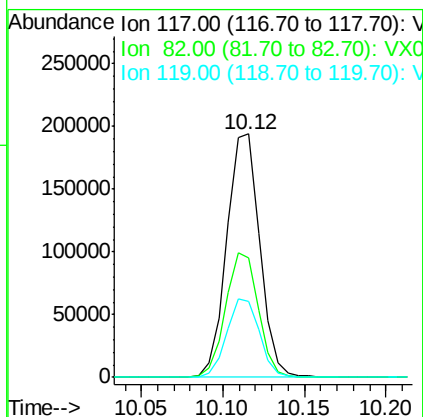
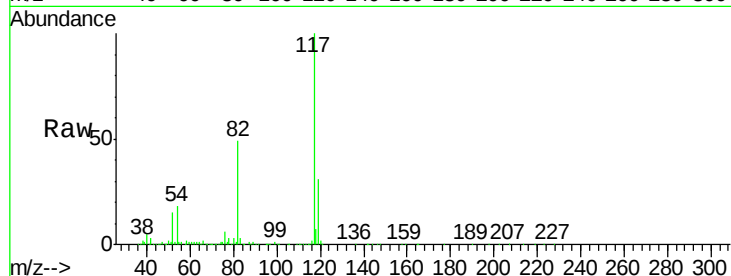




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX007653.D
Acq: 22 Feb 2019 12:16

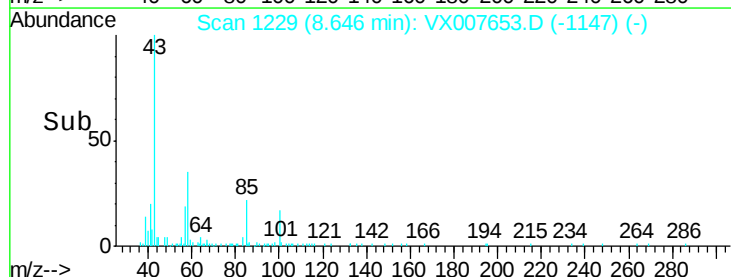
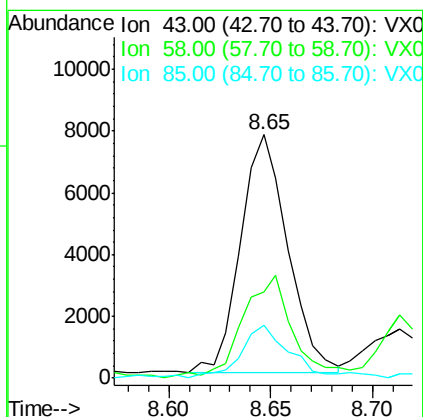
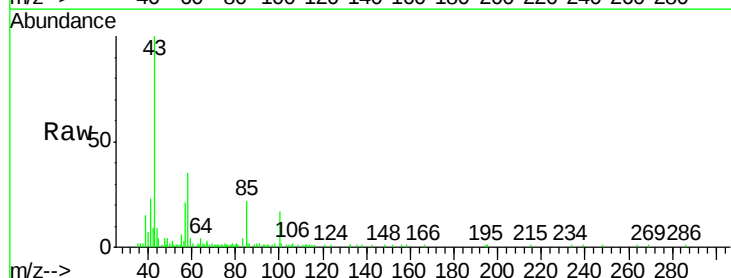
Instrument :
MSVOA_X
ClientSampled :
55-ST-1

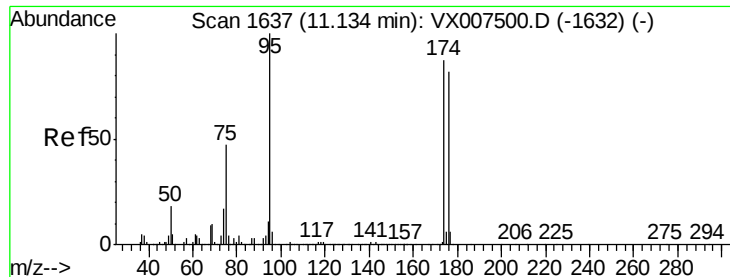
Tot Ion	Ratio	Lower	Upper
117	100		
82	50.7	40.4	60.6
119	32.1	25.8	38.6



#58
4-Methyl-2-Pentanone
Concen: 2.532 ug/l
RT: 8.65 min Scan# 1229
Delta R.T. 0.00 min
Lab File: VX007653.D
Acq: 22 Feb 2019 12:16

Tgt Ion	Ratio	Lower	Upper
43	100		
58	43.6	31.4	47.0
85	21.9	15.0	22.6





#60

4-Bromofluorobenzene

Concen: 27.571 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007653.D

Acq: 22 Feb 2019 12:16

Instrument :

MSVOA_X

ClientSampleId :

55-ST-1

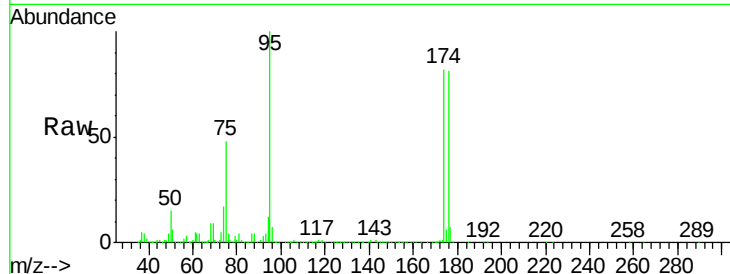
Tot Ion: 95 Resp: 115653

Ion Ratio Lower Upper

95 100

174 91.5 74.9 112.3

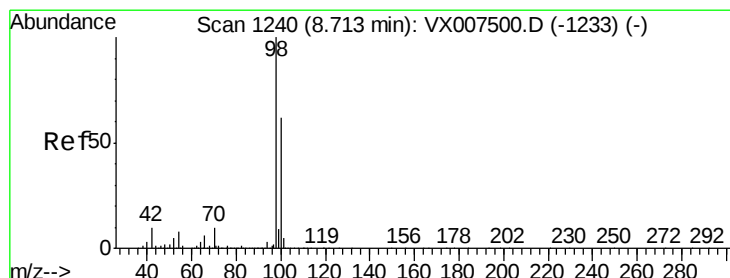
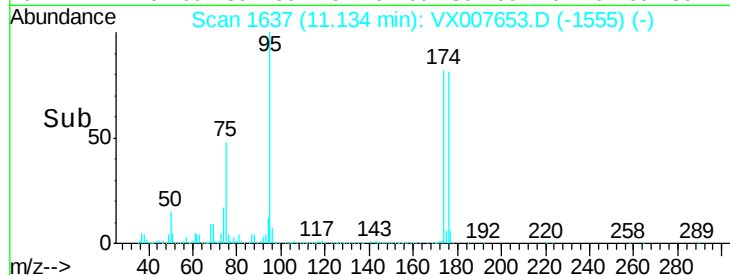
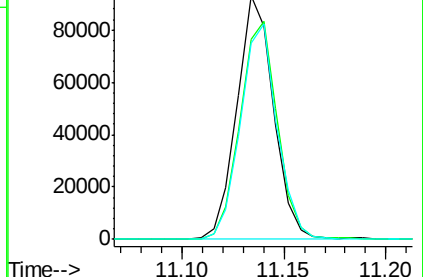
176 89.1 70.7 106.1



Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Toluene-d8

Concen: 29.913 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007653.D

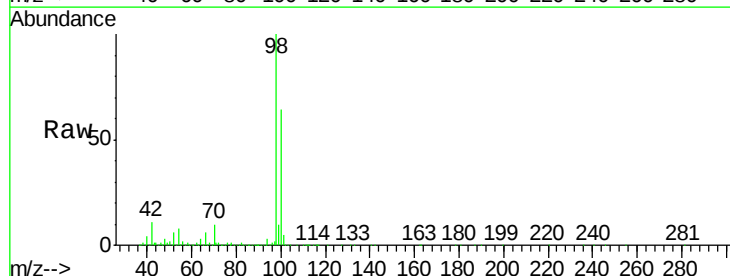
Acq: 22 Feb 2019 12:16

Tgt Ion: 98 Resp: 369510

Ion Ratio Lower Upper

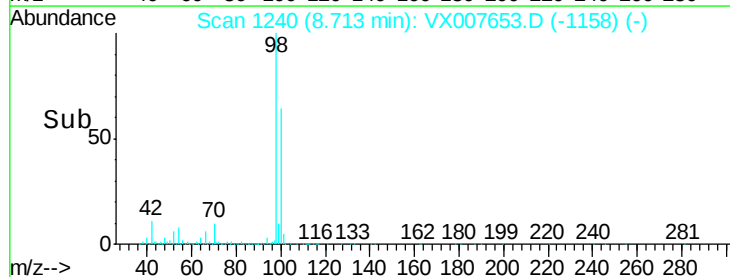
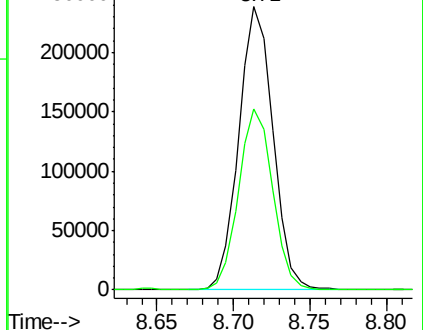
98 100

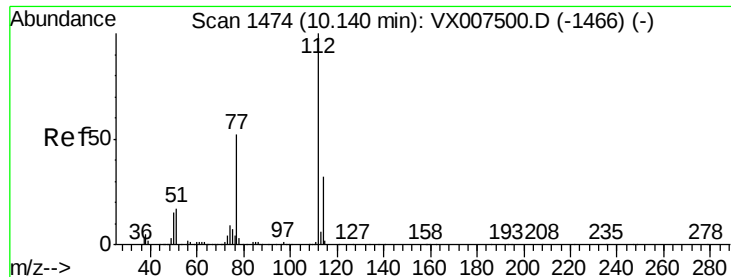
100 64.0 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#64

Chlorobenzene

Concen: 0.201 ug/l

RT: 10.14 min Scan# 1474

Delta R.T. 0.00 min

Lab File: VX007653.D

Acq: 22 Feb 2019 12:16

Instrument :

MSVOA_X

ClientSampled :

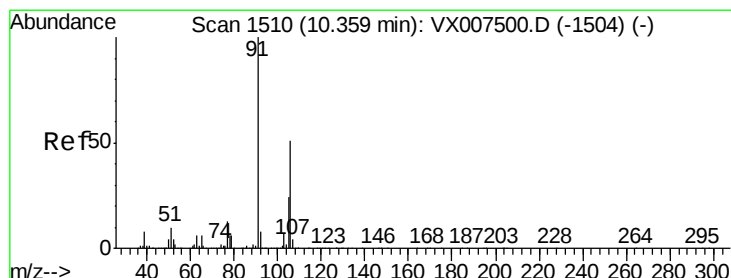
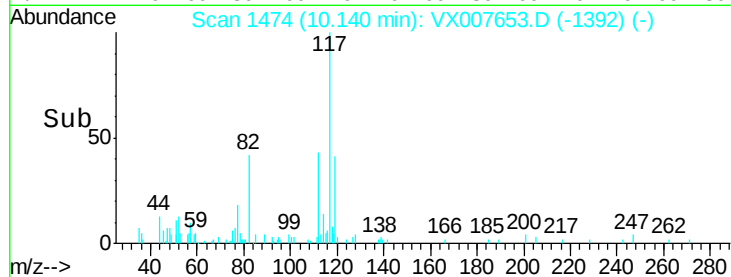
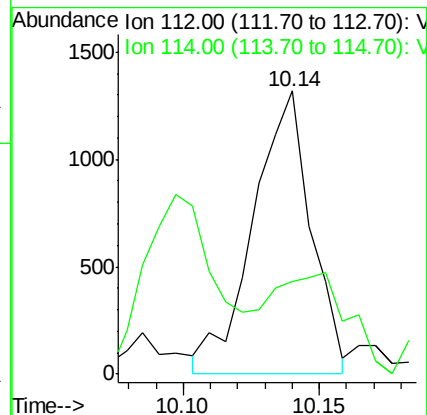
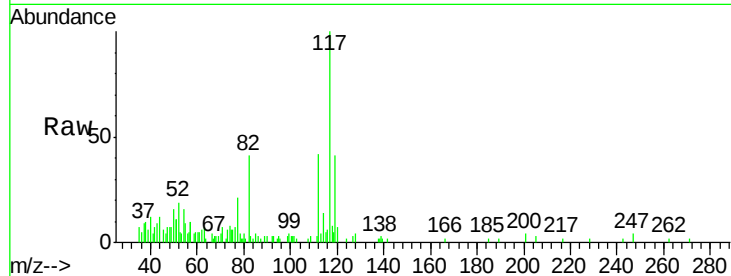
55-ST-1

Tot Ion:112 Resp: 1946

Ion Ratio Lower Upper

112 100

114 14.5 25.4 38.2#



#67

m/p-Xylenes

Concen: 0.424 ug/l

RT: 10.35 min Scan# 1509

Delta R.T. -0.01 min

Lab File: VX007653.D

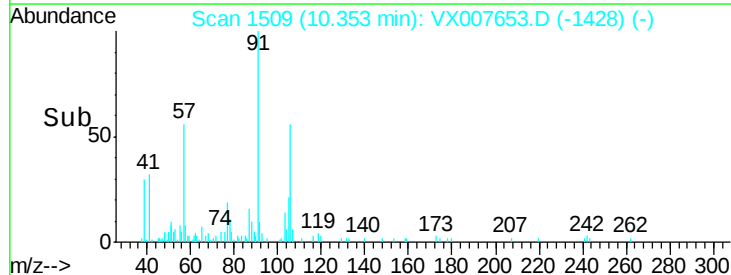
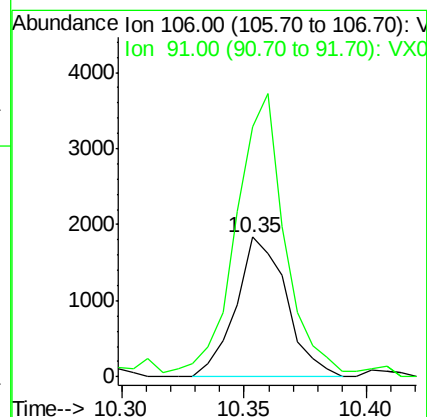
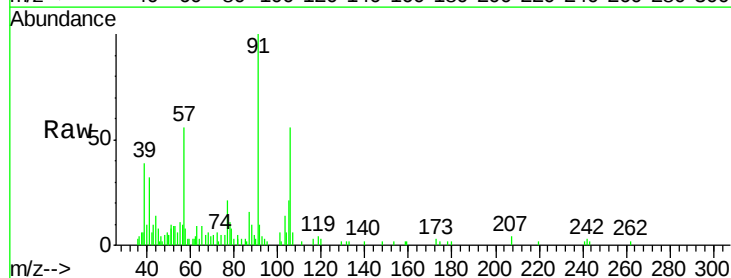
Acq: 22 Feb 2019 12:16

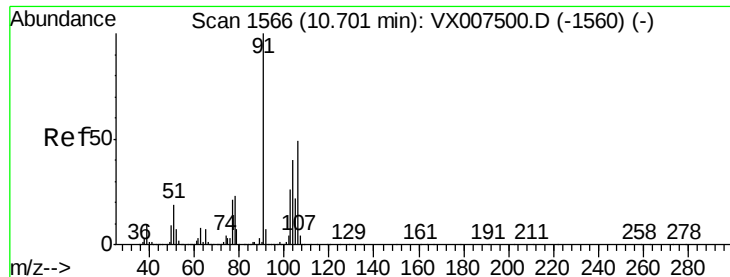
Tgt Ion:106 Resp: 2624

Ion Ratio Lower Upper

106 100

91 193.2 157.0 235.4

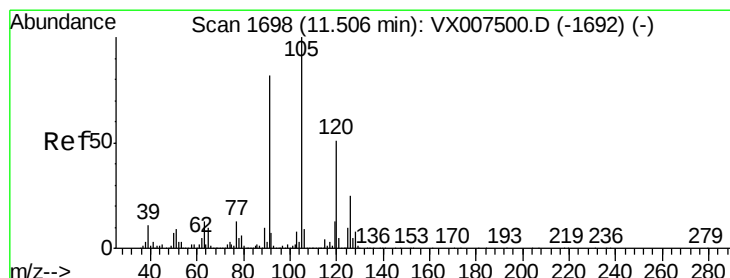
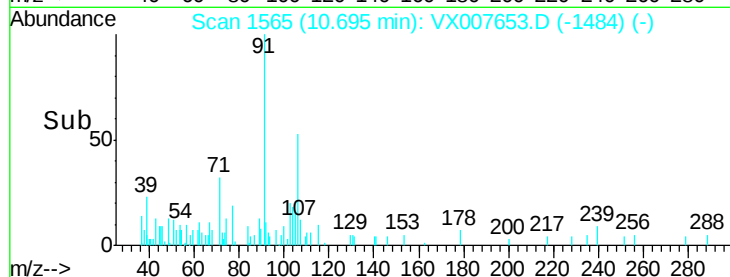
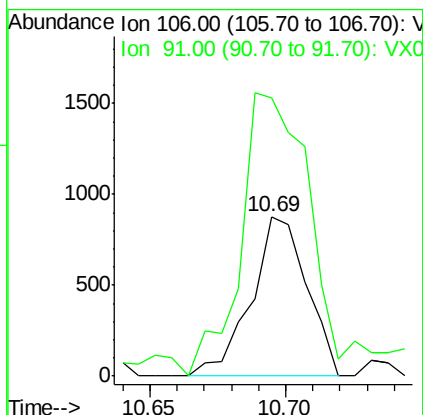
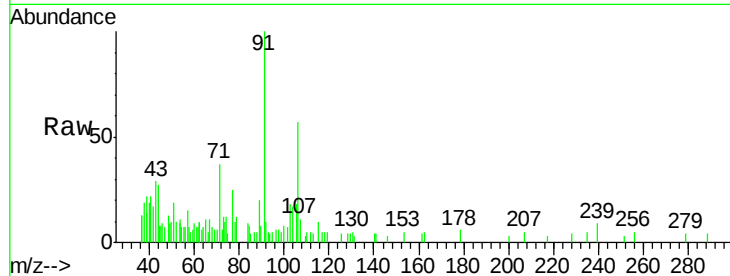




#68
o-Xylene
Concen: 0.205 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.01 min
Lab File: VX007653.D
Acq: 22 Feb 2019 12:16

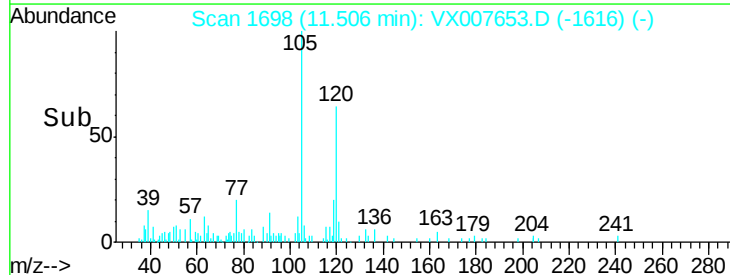
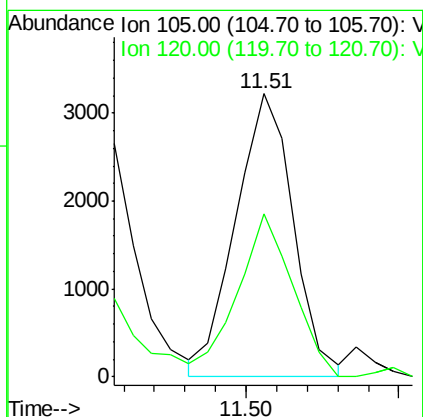
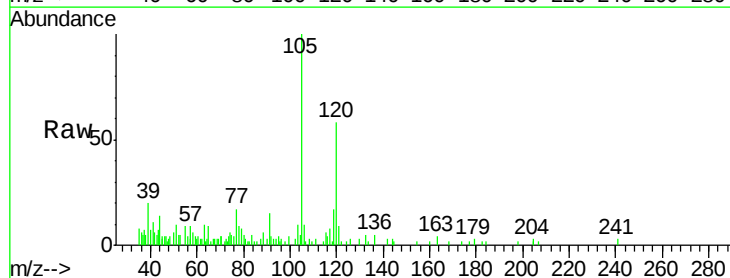
Instrument :
MSVOA_X
ClientSampled :
55-ST-1

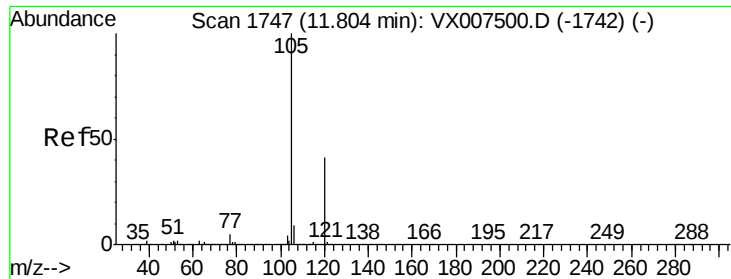
Tot Ion:106 Resp: 1241
Ion Ratio Lower Upper
106 100
91 213.9 104.4 313.2



#76
1,3,5-Trimethylbenzene
Concen: 0.323 ug/l
RT: 11.51 min Scan# 1698
Delta R.T. 0.00 min
Lab File: VX007653.D
Acq: 22 Feb 2019 12:16

Tgt Ion:105 Resp: 4204
Ion Ratio Lower Upper
105 100
120 55.4 0.0 101.0





#80

1,2,4-Trimethylbenzene

Concen: 1.075 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX007653.D

Acq: 22 Feb 2019 12:16

Instrument :

MSVOA_X

ClientSampled :

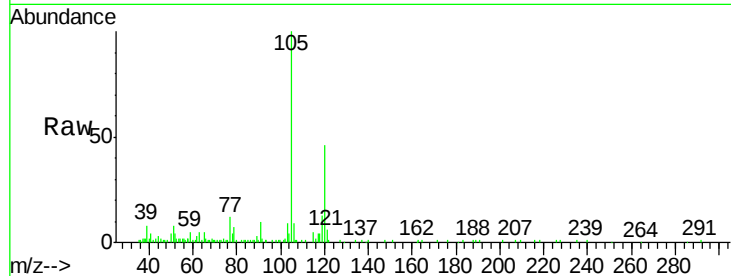
55-ST-1

Tot Ion:105 Resp: 14199

Ion Ratio Lower Upper

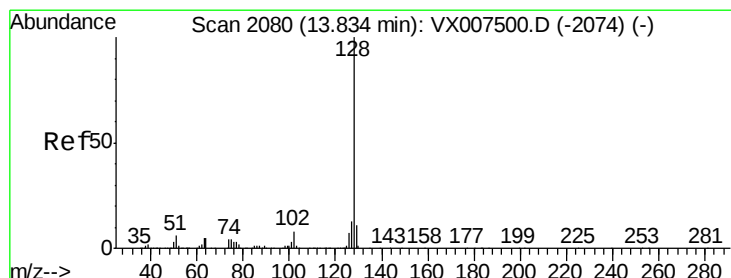
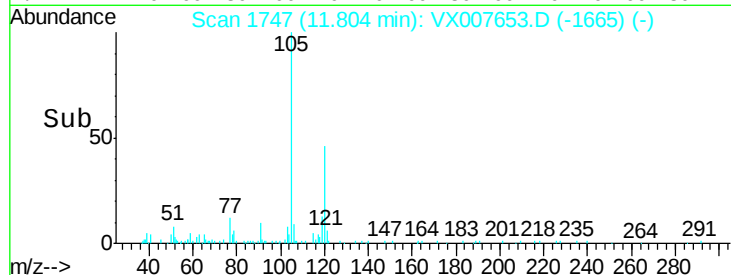
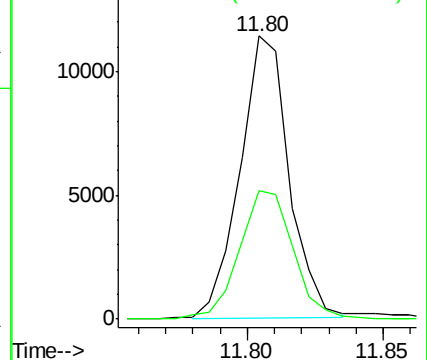
105 100

120 50.2 0.0 94.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#91

Naphthalene

Concen: 0.386 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX007653.D

Acq: 22 Feb 2019 12:16

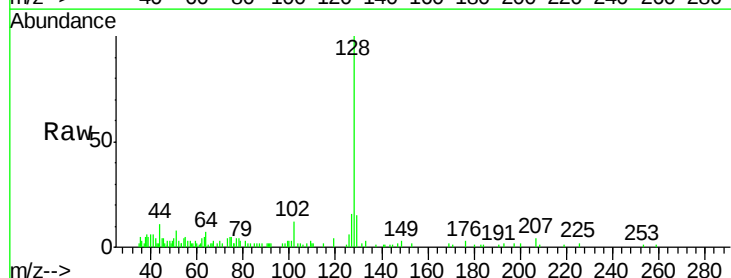
Tgt Ion:128 Resp: 6203

Ion Ratio Lower Upper

128 100

127 18.3 10.5 15.7#

129 16.0 8.9 13.3#



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

