

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX030819\
 Data File : VX007932.D
 Acq On : 08 Mar 2019 15:36
 Operator : JC/SP
 Sample : K1810-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 55-ST-3

Quant Time: Mar 09 03:29:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X030819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 08 12:01:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	43981	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	228452	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	197454	30.00	ug/l	0.00

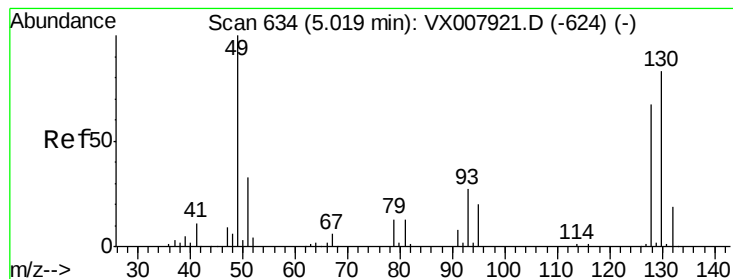
System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	87624	30.31	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.03%
60) 4-Bromofluorobenzene	11.13	95	88838	28.19	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.97%
63) Toluene-d8	8.71	98	268040	29.66	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.87%

Target Compounds

					Ovalue
5) Bromomethane	1.65	94	500	0.349 ug/l	83
13) Acrolein	2.30	56	128	0.270 ug/l #	40
14) Acrylonitrile	3.15	53	561	0.327 ug/l	95
15) Acetone	2.45	58	1217	1.967 ug/l	88
16) Carbon Disulfide	2.57	76	2833	0.354 ug/l	95
18) Methylene Chloride	2.85	84	629	0.216 ug/l #	76
23) tert-Butyl Alcohol	3.06	59	1109	1.604 ug/l #	97
25) Chloroform	5.21	83	6145	1.251 ug/l	99
30) 2-Butanone	4.70	43	1002	0.410 ug/l #	79
56) Bromoform	11.14	173	781	0.340 ug/l #	1
58) 4-Methyl-2-Pentanone	8.65	43	1116	0.275 ug/l	94
77) t-1,4-Dichloro-2-butene	11.13	75	40697	34.339 ug/l #	6
89) 1,2,4-Trichlorobenzene	13.65	180	838	0.202 ug/l	89
91) Naphthalene	13.83	128	3077	0.259 ug/l	97

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



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.03 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX007932.D

Acq: 08 Mar 2019 15:36

Instrument :

MSVOA_X

ClientSampled :

55-ST-3

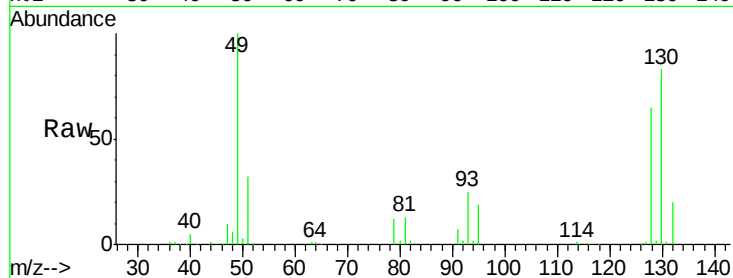
Tot Ion:128 Resp: 43981

Ion Ratio Lower Upper

128 100

49 156.0 0.0 350.8

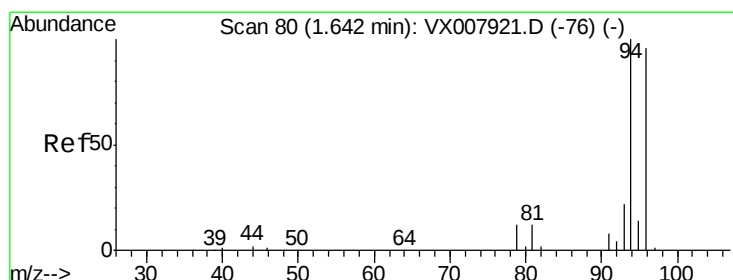
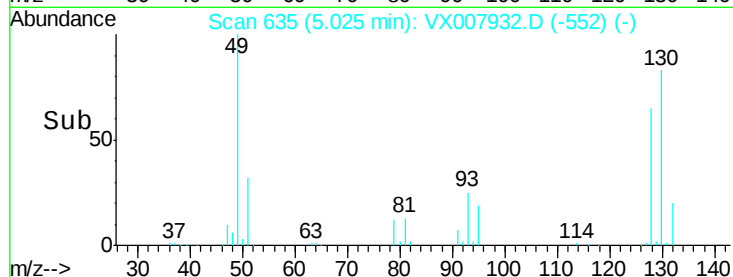
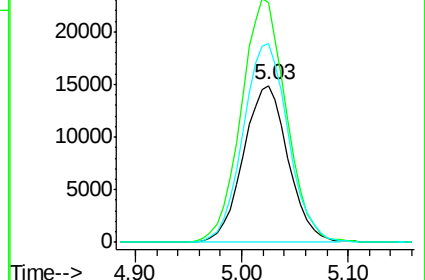
130 128.3 0.0 325.8



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



#5

Bromomethane

Concen: 0.349 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX007932.D

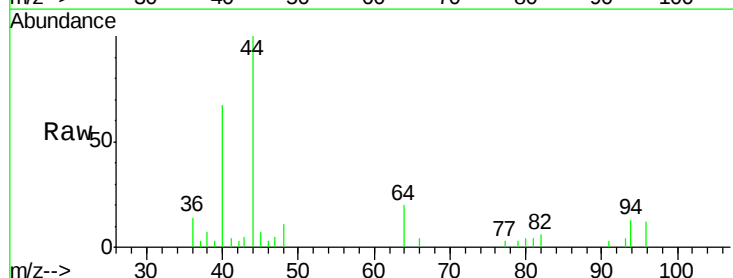
Acq: 08 Mar 2019 15:36

Tgt Ion: 94 Resp: 500

Ion Ratio Lower Upper

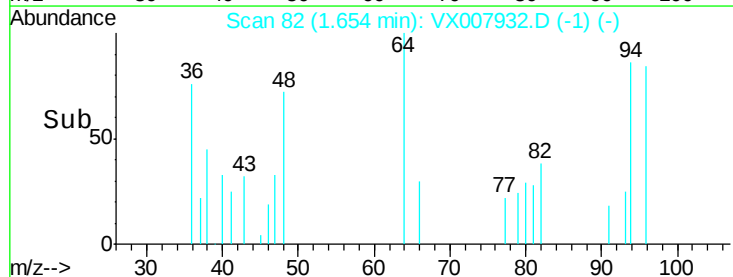
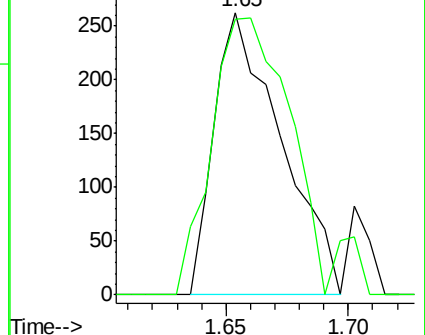
94 100

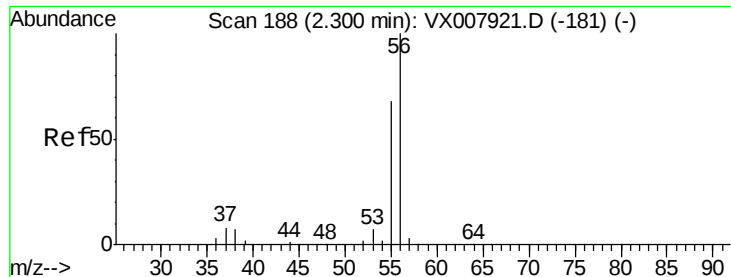
96 77.9 75.6 113.4



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0





#13

Acrolein

Concen: 0.270 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.00 min

Lab File: VX007932.D

Acq: 08 Mar 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

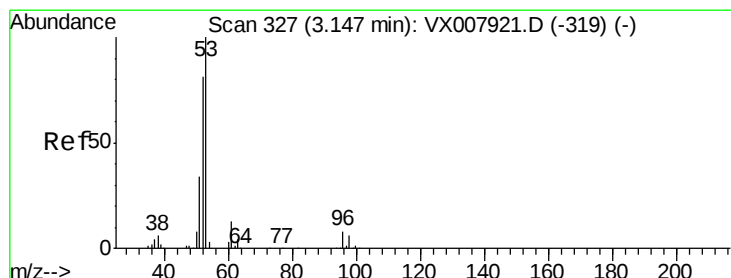
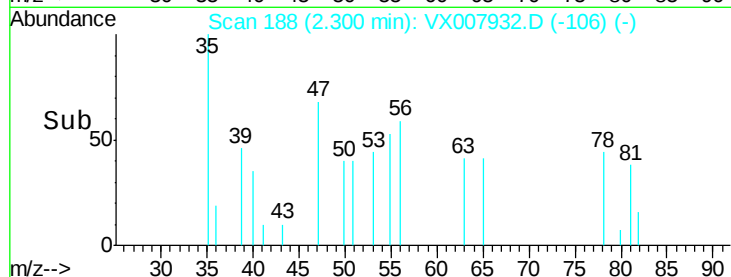
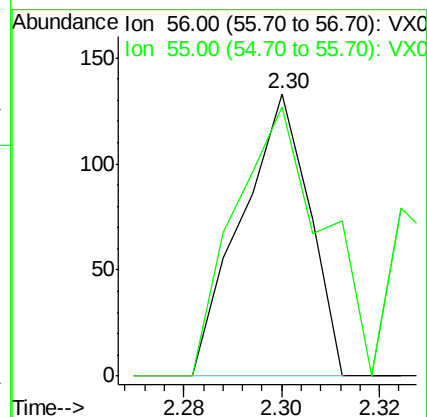
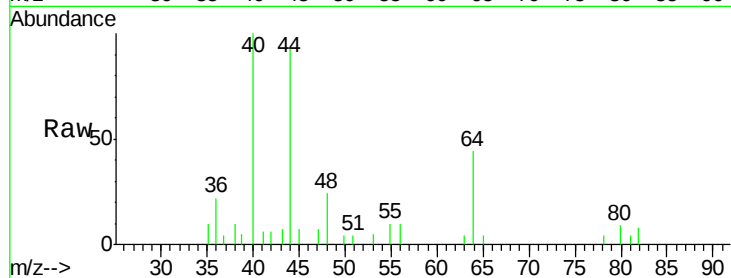
55-ST-3

Tot Ion: 56 Resp: 128

Ion Ratio Lower Upper

56 100

55 123.4 58.6 87.8#



#14

Acrylonitrile

Concen: 0.327 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX007932.D

Acq: 08 Mar 2019 15:36

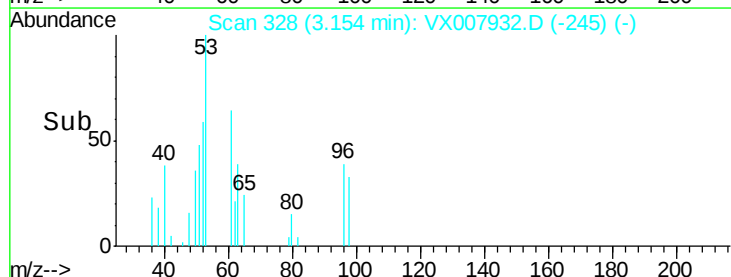
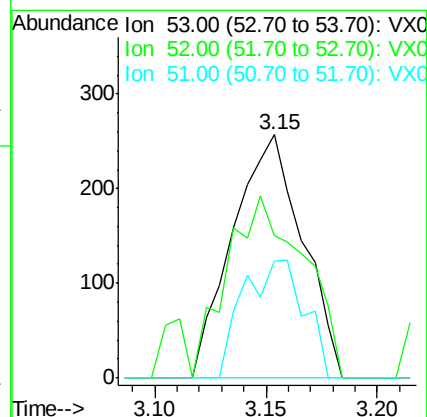
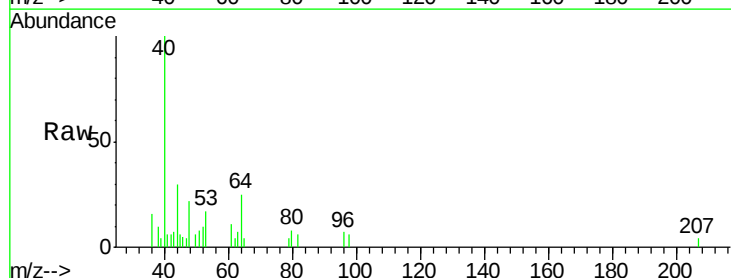
Tgt Ion: 53 Resp: 561

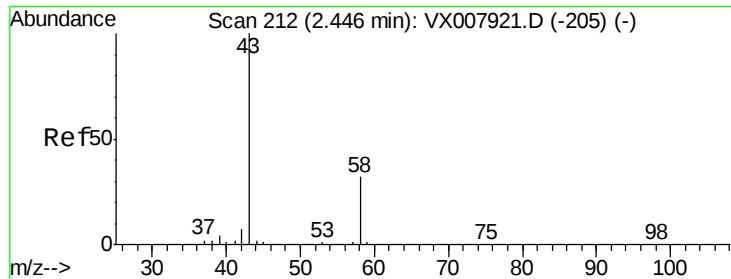
Ion Ratio Lower Upper

53 100

52 82.4 41.3 124.1

51 25.0 17.5 52.6





#15

Acetone

Concen: 1.967 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007932.D

Acq: 08 Mar 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

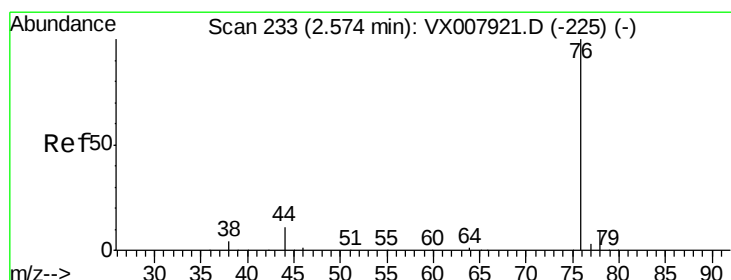
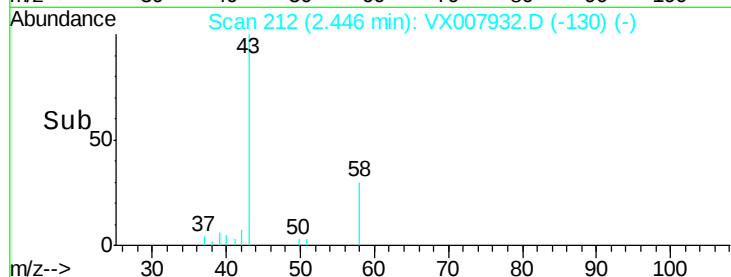
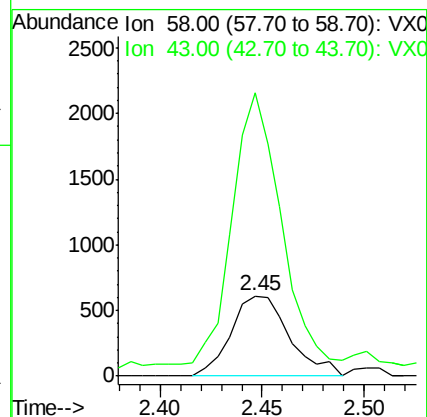
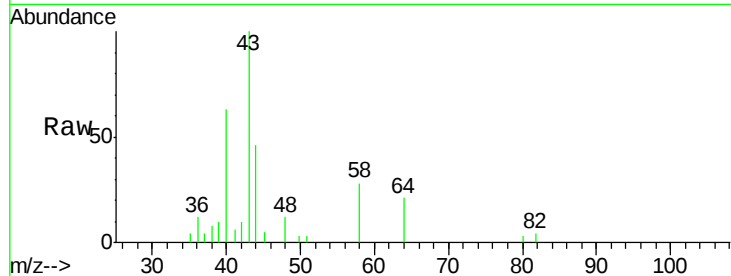
55-ST-3

Tot Ion: 58 Resp: 1217

Ion Ratio Lower Upper

58 100

43 336.2 249.8 374.6



#16

Carbon Disulfide

Concen: 0.354 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007932.D

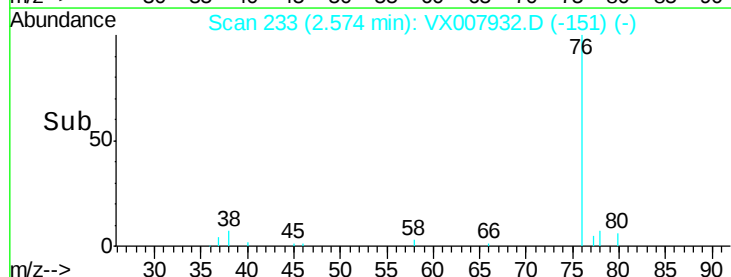
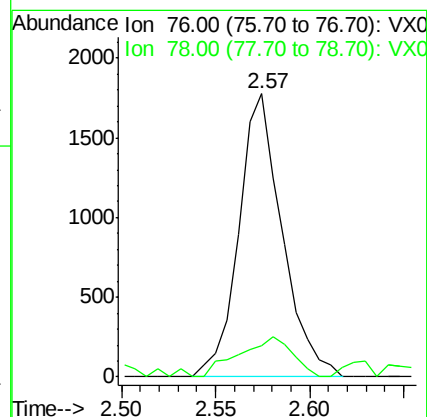
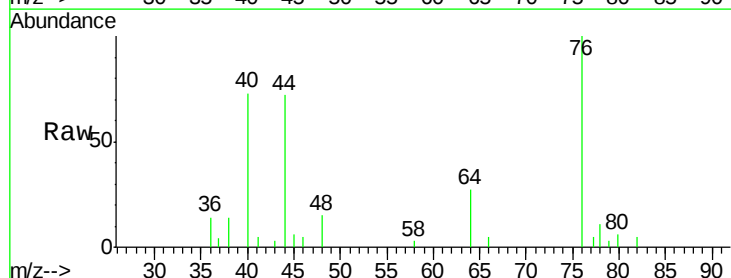
Acq: 08 Mar 2019 15:36

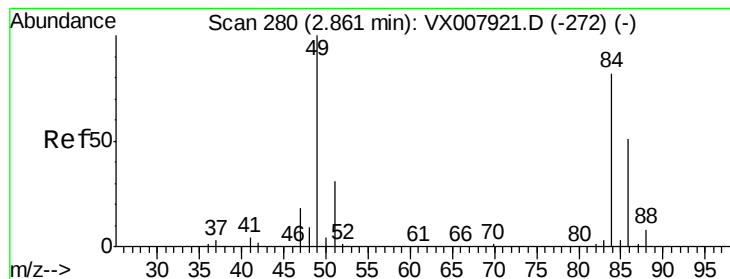
Tgt Ion: 76 Resp: 2833

Ion Ratio Lower Upper

76 100

78 11.3 7.5 11.3





#18

Methylene Chloride

Concen: 0.216 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX007932.D

Acq: 08 Mar 2019 15:36

Instrument :

MSVOA_X

ClientSampled :

55-ST-3

Tot Ion: 84 Resp: 629

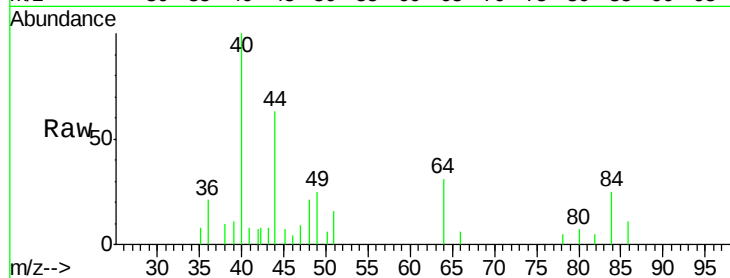
Ion Ratio Lower Upper

84 100

49 97.5 96.1 144.1

51 61.7 29.1 43.7#

86 43.3 47.3 70.9#

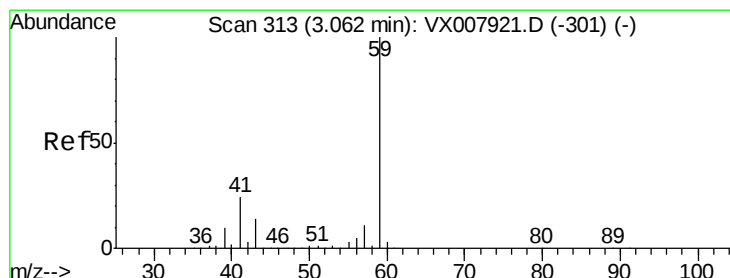
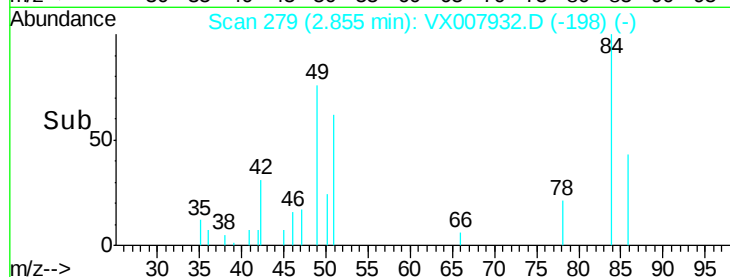
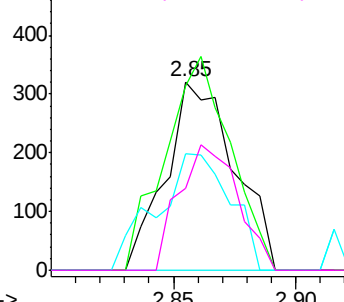


Abundance Ion 84.00 (83.70 to 84.70): VX0

Ion 49.00 (48.70 to 49.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#23

tert-Butyl Alcohol

Concen: 1.604 ug/l

RT: 3.06 min Scan# 313

Delta R.T. 0.00 min

Lab File: VX007932.D

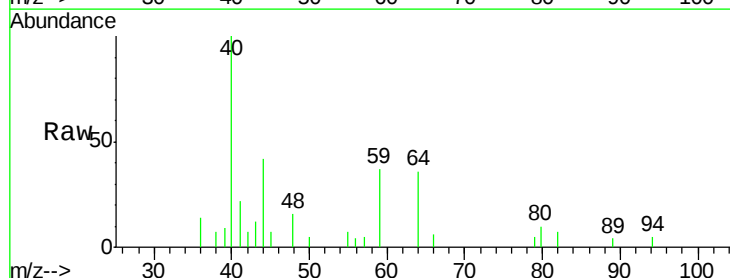
Acq: 08 Mar 2019 15:36

Tgt Ion: 59 Resp: 1109

Ion Ratio Lower Upper

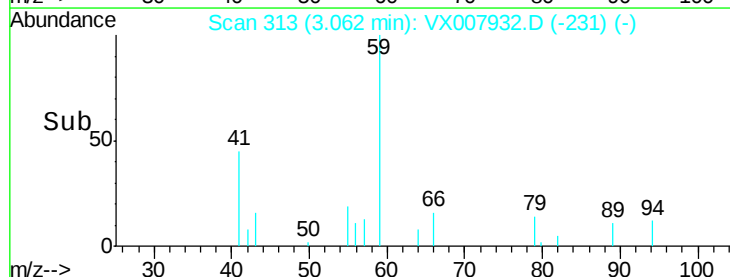
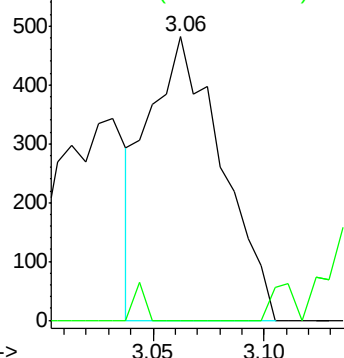
59 100

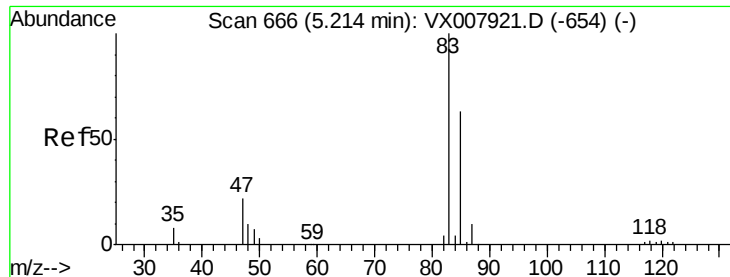
52 3.9 0.2 0.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

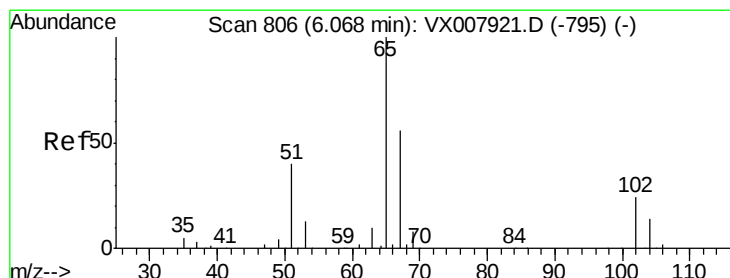
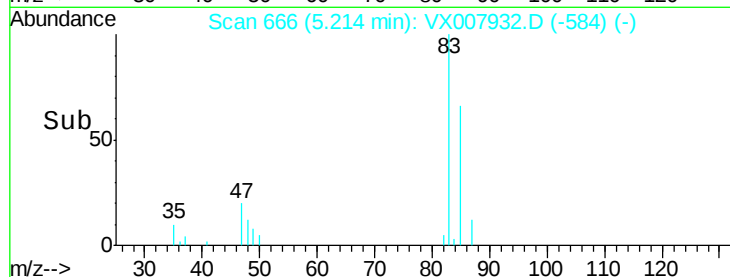
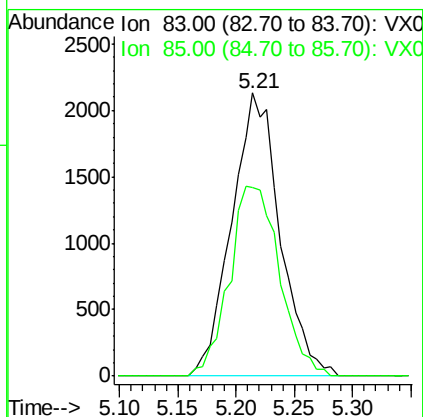
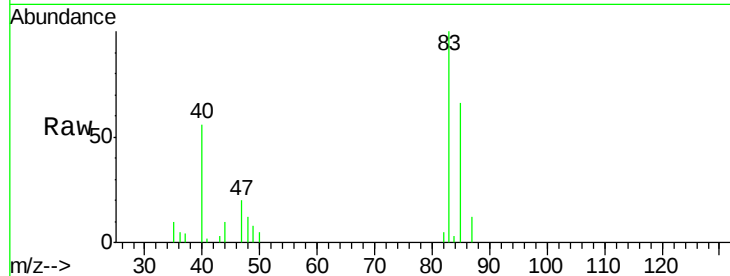




#25
Chloroform
Concen: 1.251 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.00 min
Lab File: VX007932.D
Acq: 08 Mar 2019 15:36

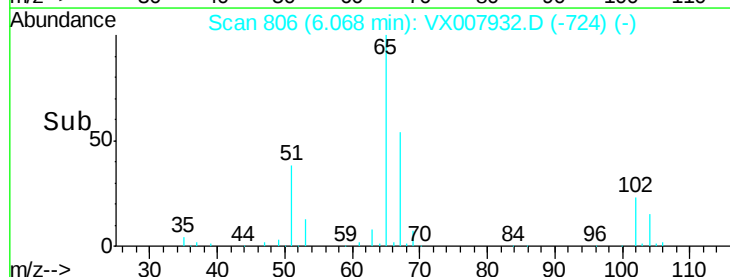
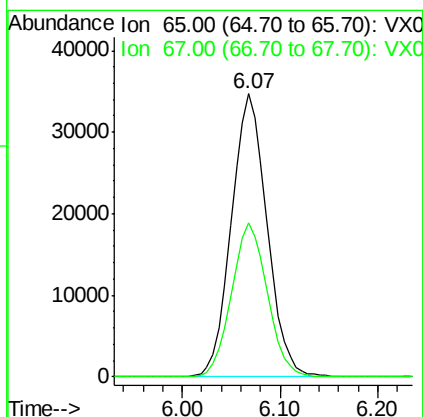
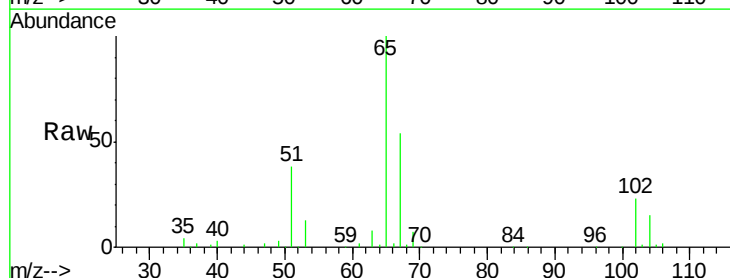
Instrument :
MSVOA_X
ClientSampleId :
55-ST-3

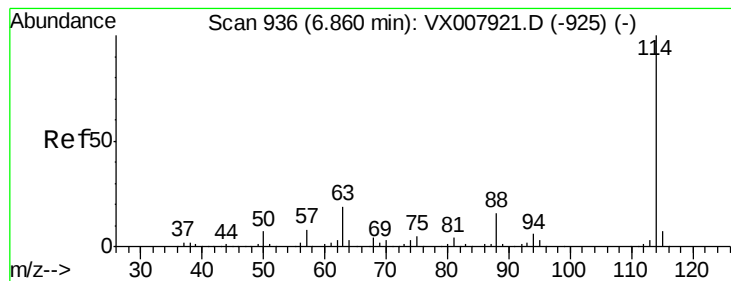
Tot Ion: 83 Resp: 6145
Ion Ratio Lower Upper
83 100
85 66.4 53.8 80.6



#27
1,2-Dichloroethane-d4
Concen: 30.311 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX007932.D
Acq: 08 Mar 2019 15:36

Tgt Ion: 65 Resp: 87624
Ion Ratio Lower Upper
65 100
67 54.7 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: VX007932.D

Acq: 08 Mar 2019 15:36

Instrument :

MSVOA_X

ClientSampled :

55-ST-3

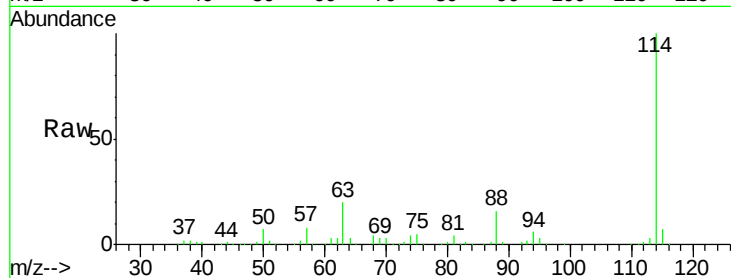
Tot Ion:114 Resp: 228452

Ion Ratio Lower Upper

114 100

63 20.1 14.2 21.4

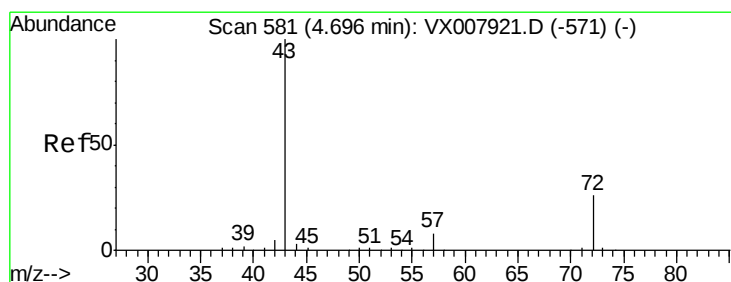
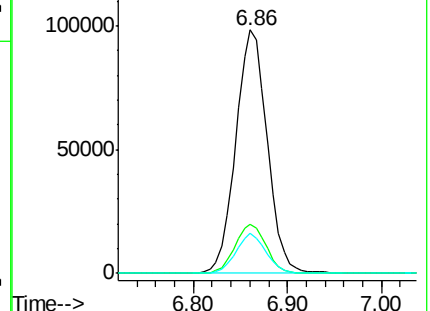
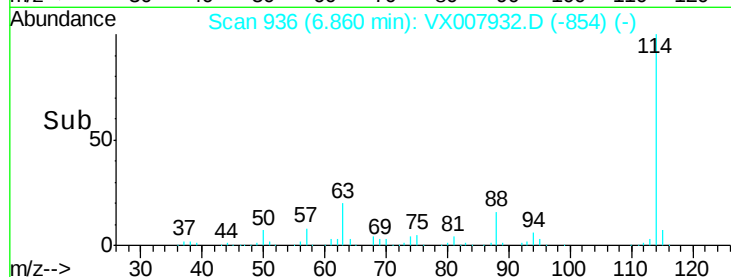
88 15.6 11.9 17.9



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0



#30

2-Butanone

Concen: 0.410 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX007932.D

Acq: 08 Mar 2019 15:36

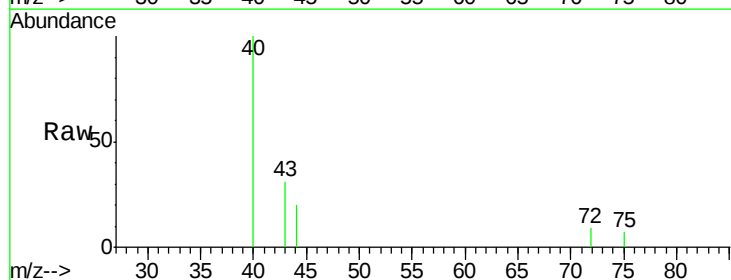
Tgt Ion: 43 Resp: 1002

Ion Ratio Lower Upper

43 100

57 0.0 7.0 10.6#

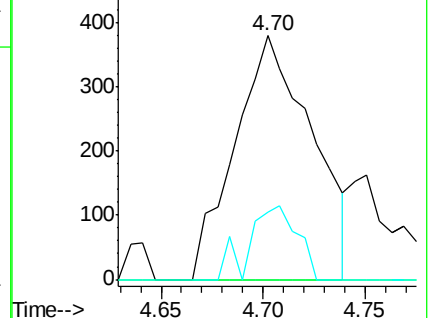
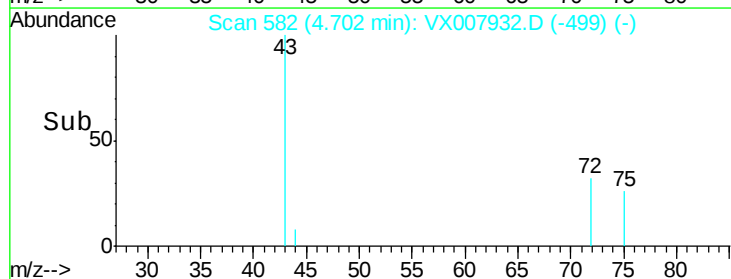
72 16.4 21.5 32.3#

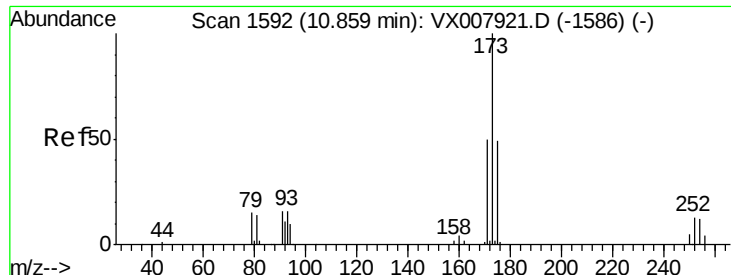


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#56

Bromoform

Concen: 0.340 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.28 min

Lab File: VX007932.D

Acq: 08 Mar 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

55-ST-3

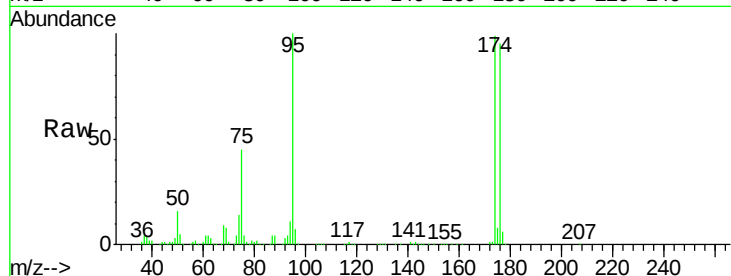
Tot Ion:173 Resp: 781

Ion Ratio Lower Upper

173 100

175 764.0 38.5 57.7#

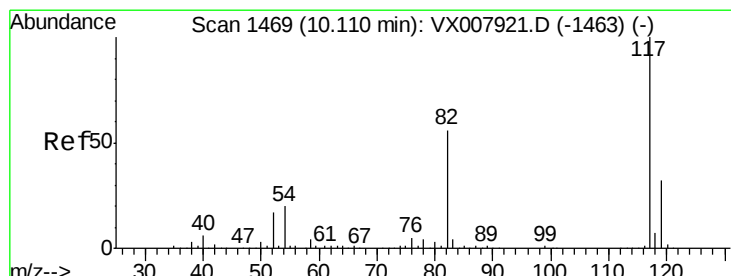
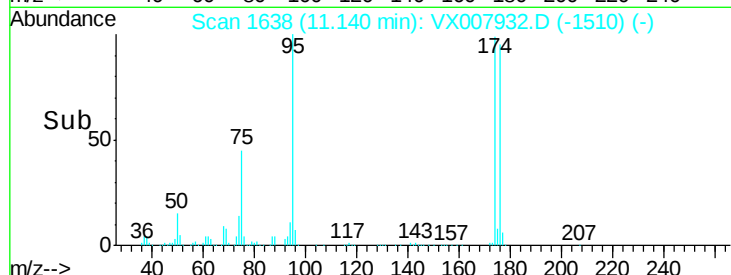
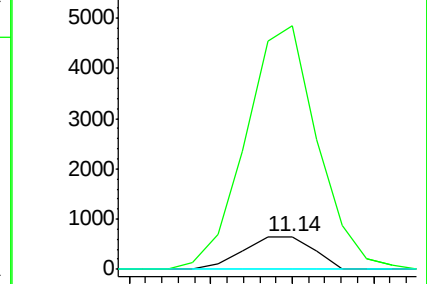
254 0.0 7.4 11.2#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX007932.D

Acq: 08 Mar 2019 15:36

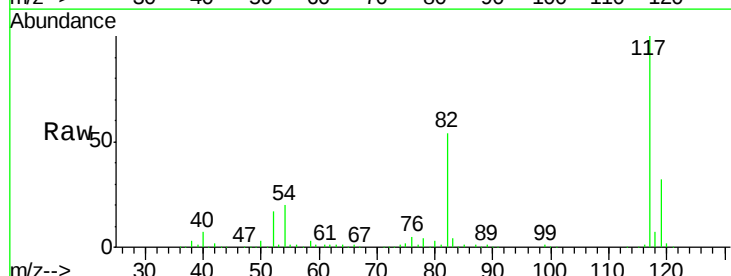
Tgt Ion:117 Resp: 197454

Ion Ratio Lower Upper

117 100

82 53.5 40.4 60.6

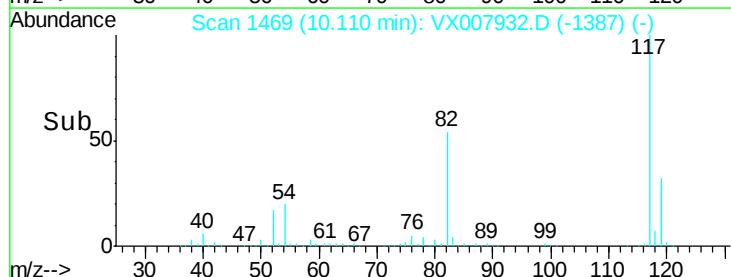
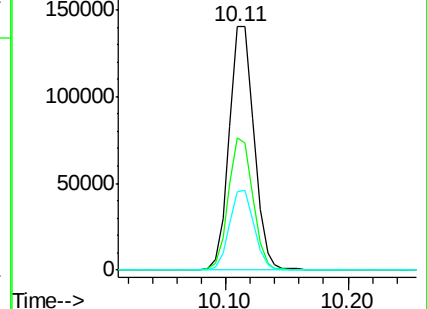
119 32.3 25.8 38.6

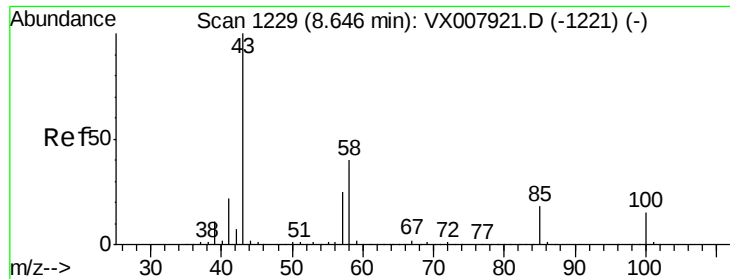


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

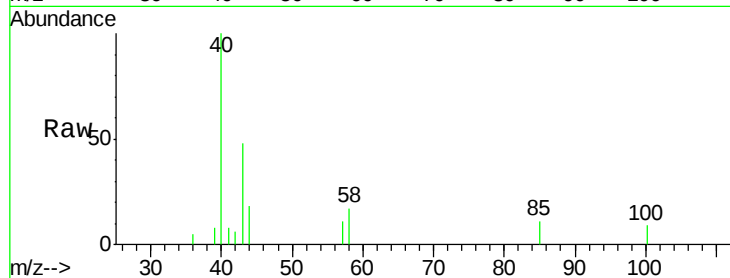




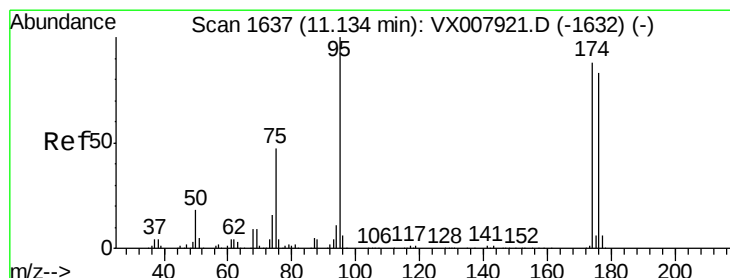
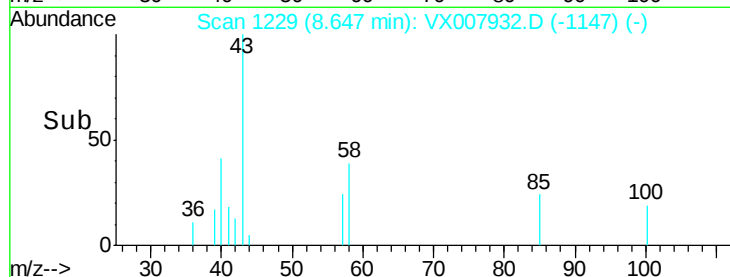
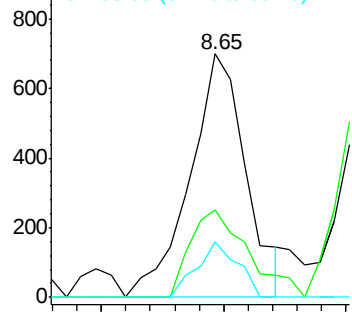
#58
4-Methyl-2-Pentanone
Concen: 0.275 ug/l
RT: 8.65 min Scan# 1229
Delta R.T. 0.00 min
Lab File: VX007932.D
Acq: 08 Mar 2019 15:36

Instrument :
MSVOA_X
ClientSampled :
55-ST-3

Tot Ion: 43 Resp: 1116
Ion Ratio Lower Upper
43 100
58 35.1 31.4 47.0
85 16.5 15.0 22.6

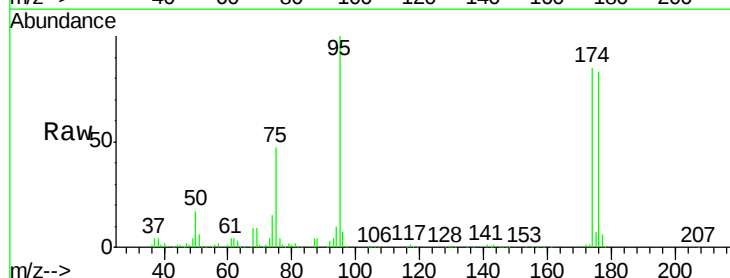


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0
Ion 85.00 (84.70 to 85.70): VX0

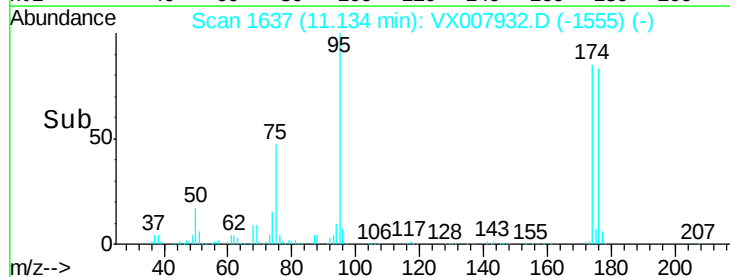
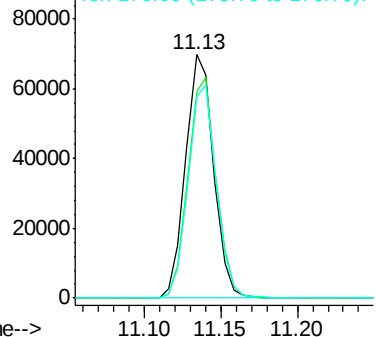


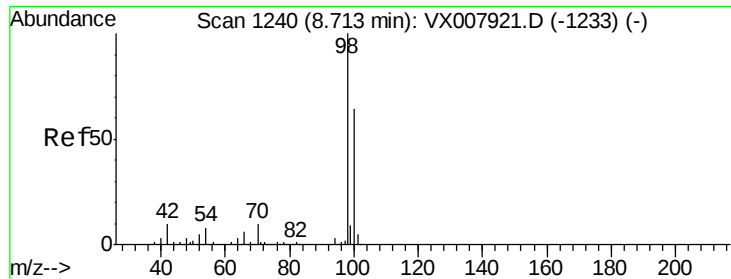
#60
4-Bromofluorobenzene
Concen: 28.188 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007932.D
Acq: 08 Mar 2019 15:36

Tgt Ion: 95 Resp: 88838
Ion Ratio Lower Upper
95 100
174 91.5 74.9 112.3
176 88.2 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

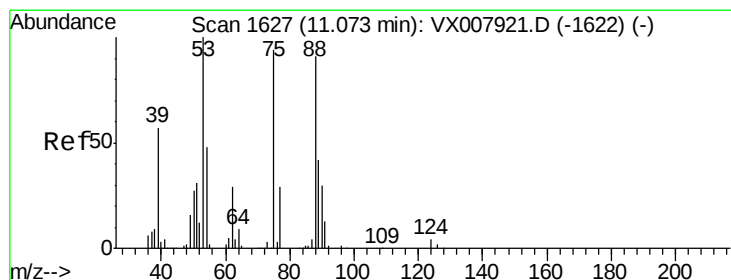
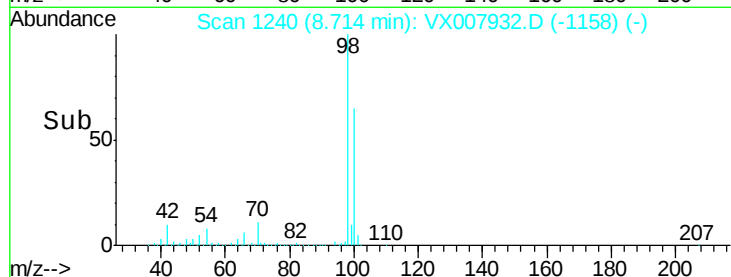
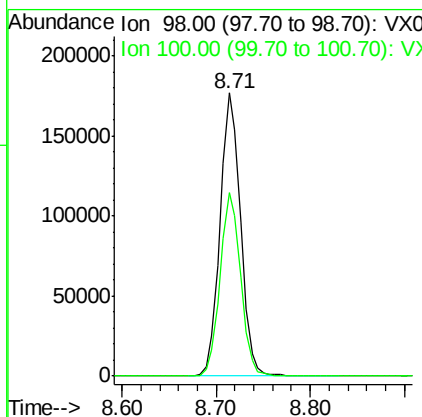
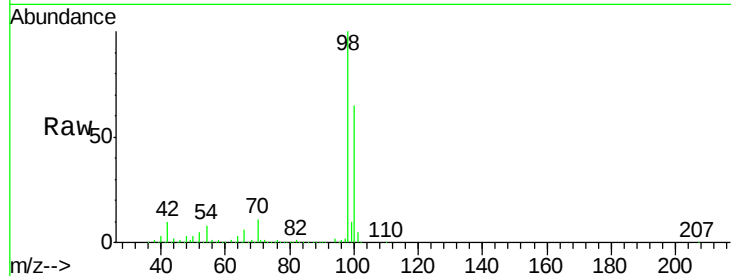




#63
Toluene-d8
Concen: 29.663 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX007932.D
Acq: 08 Mar 2019 15:36

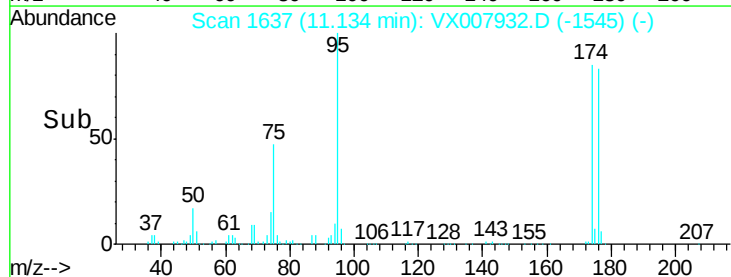
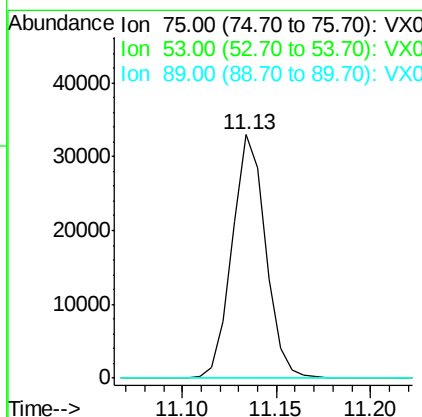
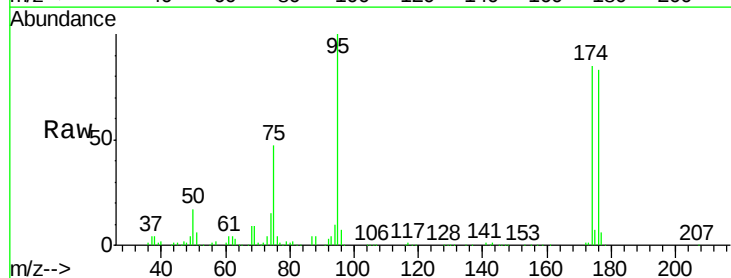
Instrument :
MSVOA_X
ClientSampleId :
55-ST-3

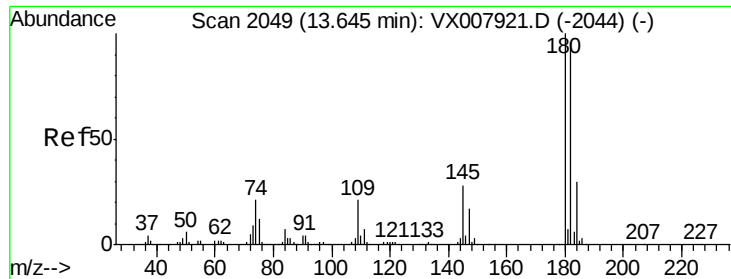
Tot Ion: 98 Resp: 268040
Ion Ratio Lower Upper
98 100
100 65.0 50.9 76.3



#77
t-1,4-Dichloro-2-butene
Concen: 34.339 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX007932.D
Acq: 08 Mar 2019 15:36

Tgt Ion: 75 Resp: 40697
Ion Ratio Lower Upper
75 100
53 0.2 55.5 166.7#
89 0.0 24.4 73.2#

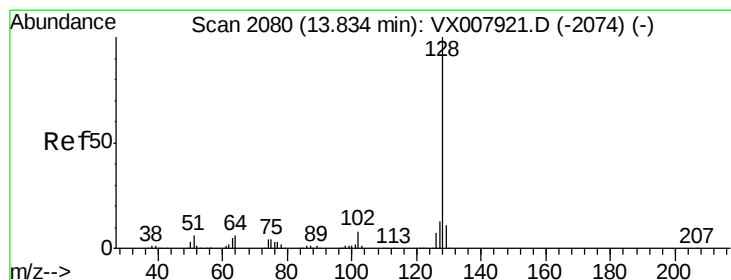
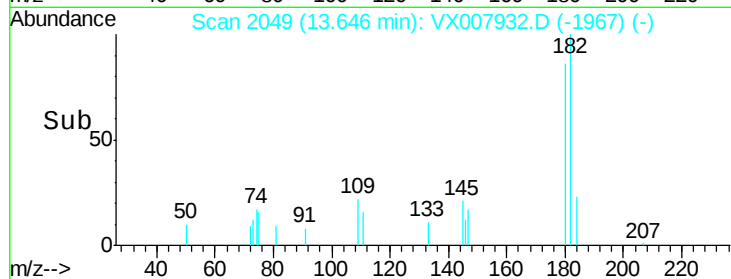
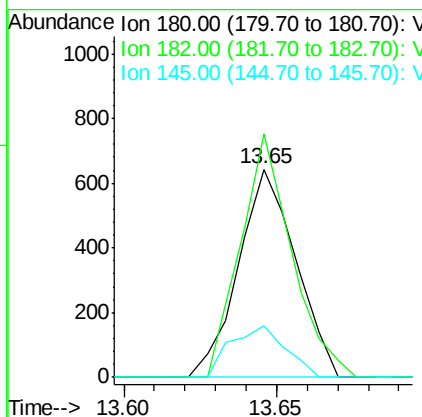
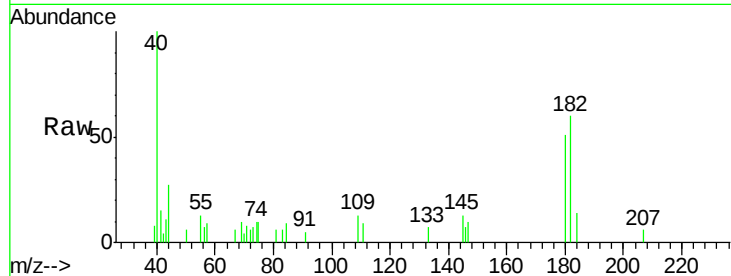




#89
 1,2,4-Trichlorobenzene
 Concen: 0.202 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. 0.00 min
 Lab File: VX007932.D
 Acq: 08 Mar 2019 15:36

Instrument :
 MSVOA_X
 ClientSampled :
 55-ST-3

Tot Ion:180 Resp: 838
 Ion Ratio Lower Upper
 180 100
 182 104.8 75.6 113.4
 145 23.4 23.0 34.6



#91
 Naphthalene
 Concen: 0.259 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX007932.D
 Acq: 08 Mar 2019 15:36

Tgt Ion:128 Resp: 3077
 Ion Ratio Lower Upper
 128 100
 127 14.0 10.5 15.7
 129 9.9 8.9 13.3

