

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\
 Data File : VX010987.D
 Acq On : 19 Jul 2019 03:01
 Operator : JC/SP
 Sample : K3898-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 19 03:59:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:27:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	32924	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	180434	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	157809	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	66656	29.86	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.53%
60) 4-Bromofluorobenzene	11.13	95	70318	27.07	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.23%
63) Toluene-d8	8.71	98	210826	30.39	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.30%

Target Compounds

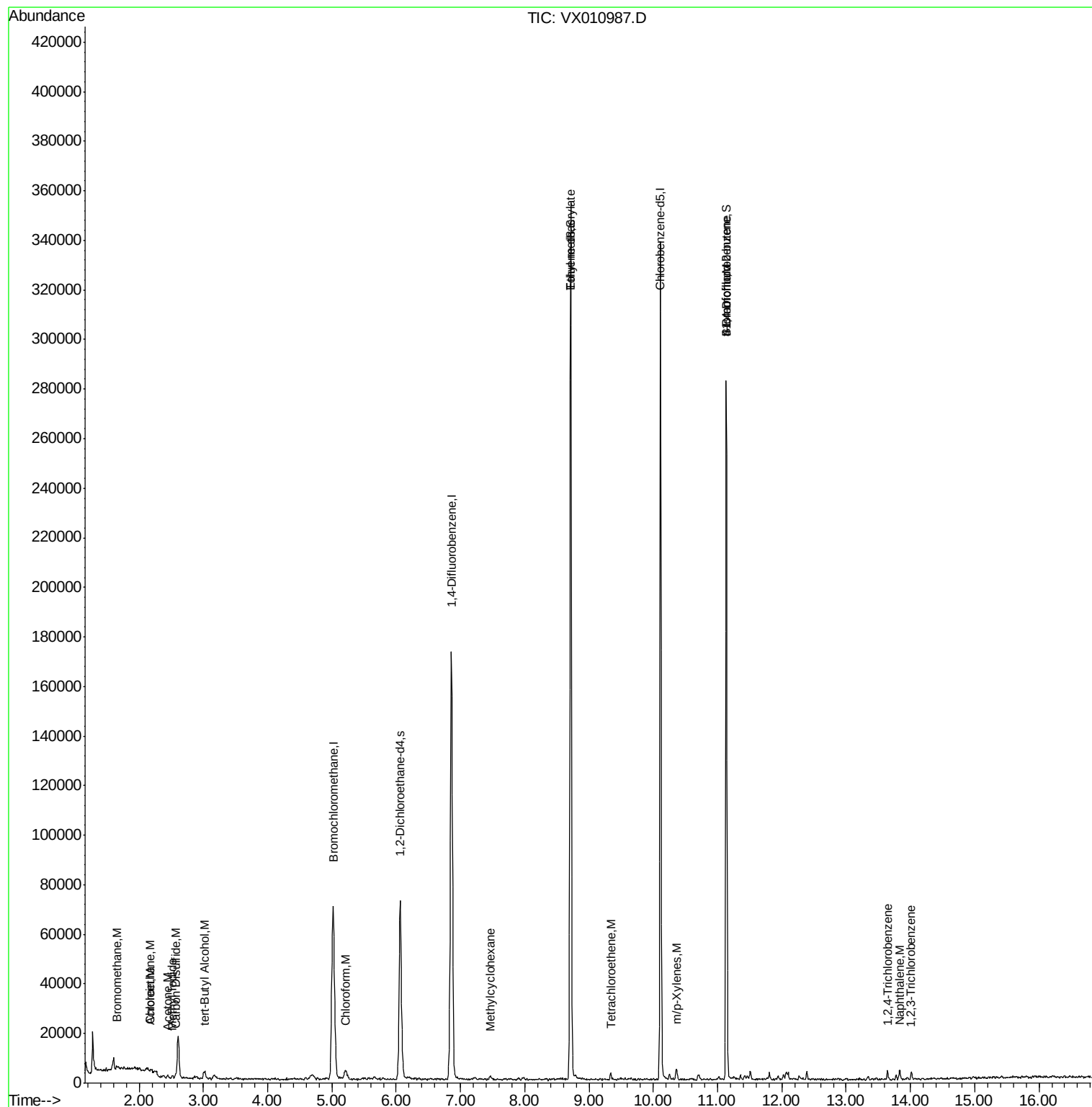
					Ovalue
5) Bromomethane	1.65	94	646	0.588 ug/l	95
6) Chloroethane	2.17	64	751	0.636 ug/l	100
11) Methyl Iodide	2.51	142	1166	0.472 ug/l	94
13) Acrolein	2.17	56	81	0.261 ug/l	93
15) Acetone	2.45	58	528	1.873 ug/l	97
16) Carbon Disulfide	2.57	76	2252	0.476 ug/l #	94
23) tert-Butyl Alcohol	3.03	59	1903	3.601 ug/l #	97
25) Chloroform	5.21	83	4047	1.141 ug/l	95
38) Methylcyclohexane	7.46	83	714	0.223 ug/l	79
51) Ethyl methacrylate	8.71	69	664	0.210 ug/l	84
56) Bromoform	11.14	173	938	0.569 ug/l #	1
61) Tetrachloroethene	9.34	164	491	0.236 ug/l #	91
67) m/p-Xylenes	10.36	106	1159	0.321 ug/l	96
77) t-1,4-Dichloro-2-butene	11.13	75	34575	41.327 ug/l #	6
89) 1,2,4-Trichlorobenzene	13.65	180	968	0.319 ug/l	86
91) Naphthalene	13.83	128	2281	0.247 ug/l #	90
92) 1,2,3-Trichlorobenzene	14.02	180	885	0.291 ug/l	94

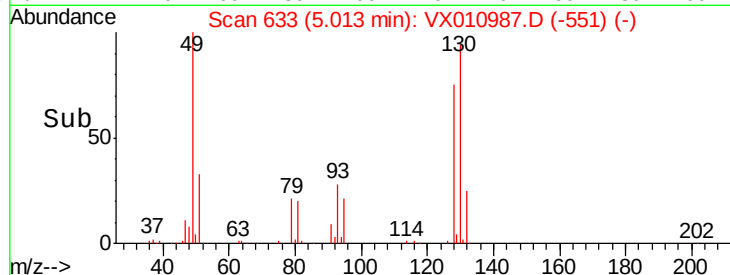
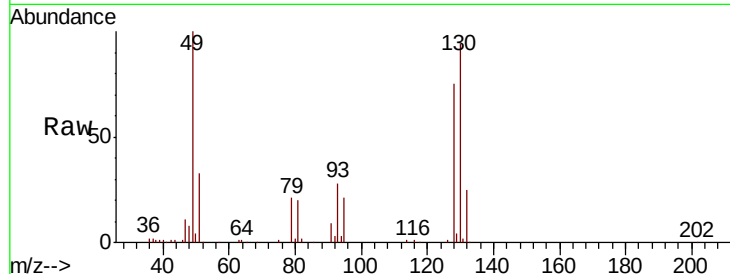
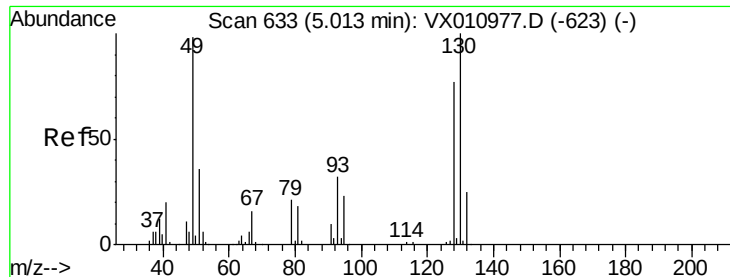
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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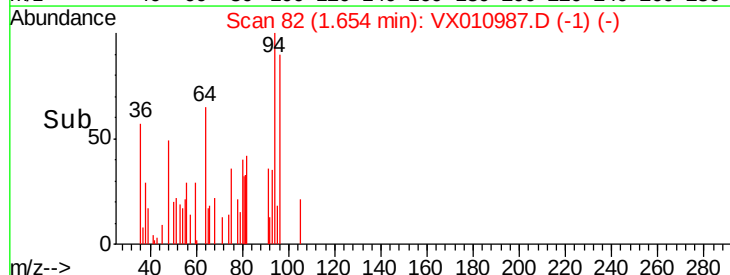
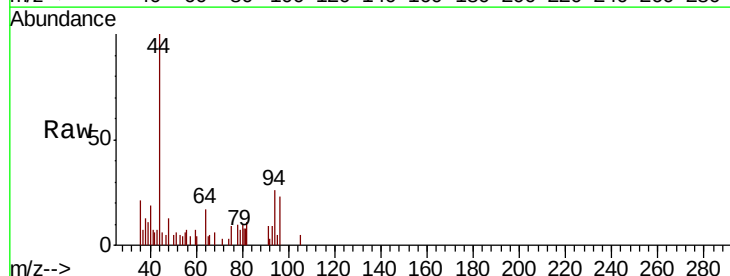
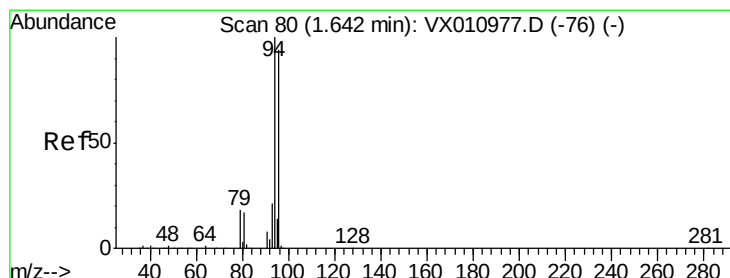
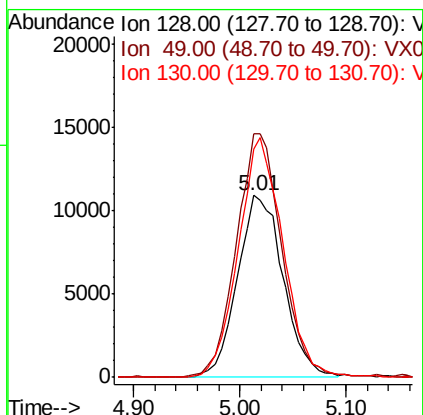




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 5.01 min Scan# 633
Delta R.T. 0.00 min
Lab File: VX010987.D
Acq: 19 Jul 2019 03:01

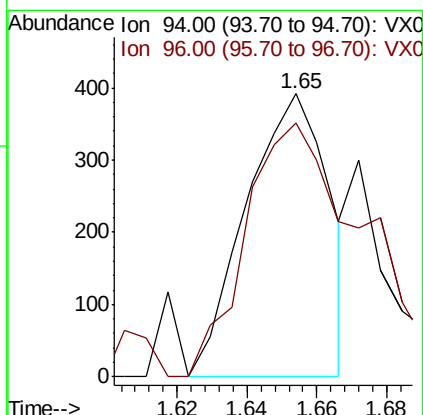
Instrument :
MSVOA_X
ClientSampleId :

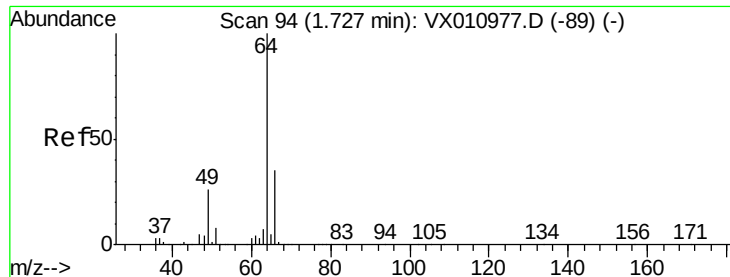
Tot Ion:128 Resp: 32924
Ion Ratio Lower Upper
128 100
49 133.4 0.0 343.5
130 128.2 0.0 324.7



#5
Bromomethane
Concen: 0.588 ug/l
RT: 1.65 min Scan# 82
Delta R.T. 0.01 min
Lab File: VX010987.D
Acq: 19 Jul 2019 03:01

Tgt Ion: 94 Resp: 646
Ion Ratio Lower Upper
94 100
96 89.5 75.4 113.2





#6

Chloroethane

Concen: 0.636 ug/l

RT: 2.17 min Scan# 167

Delta R.T. 0.45 min

Lab File: VX010987.D

Acq: 19 Jul 2019 03:01

Instrument :

MSVOA_X

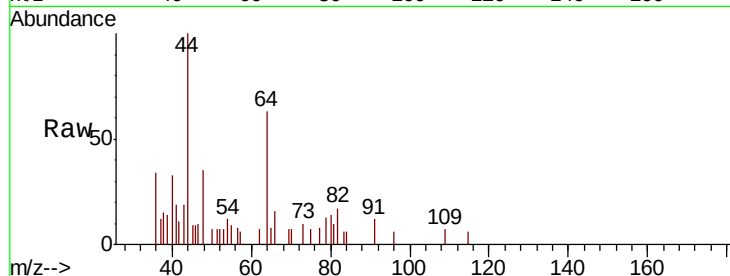
ClientSampled :

Tot Ion: 64 Resp: 751

Ion Ratio Lower Upper

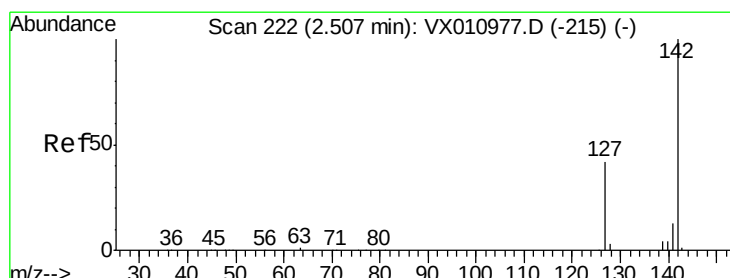
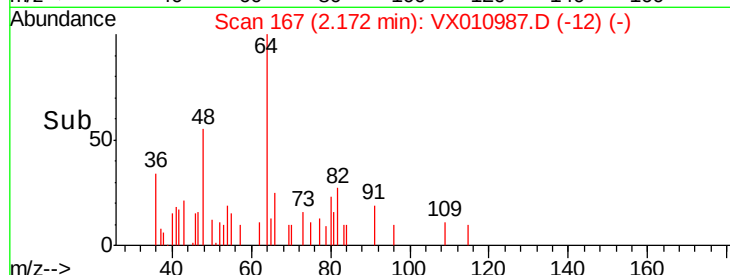
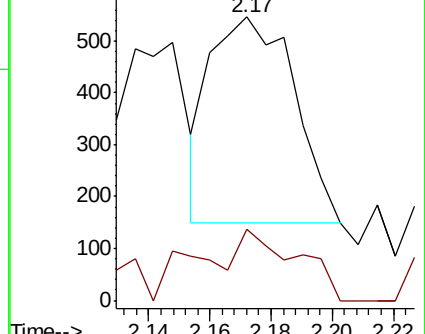
64 100

66 34.8 28.1 42.1



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0



#11

Methyl Iodide

Concen: 0.472 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX010987.D

Acq: 19 Jul 2019 03:01

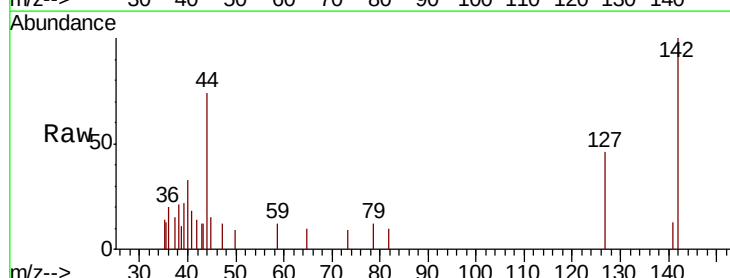
Tgt Ion: 142 Resp: 1166

Ion Ratio Lower Upper

142 100

127 46.3 20.7 62.1

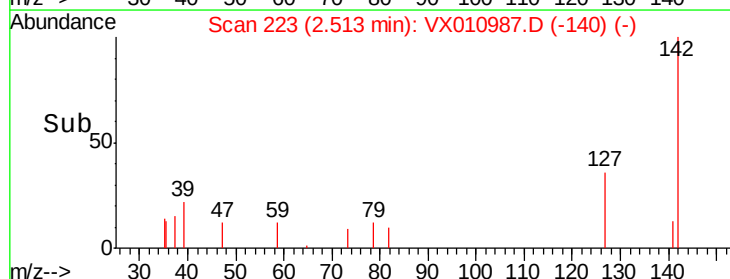
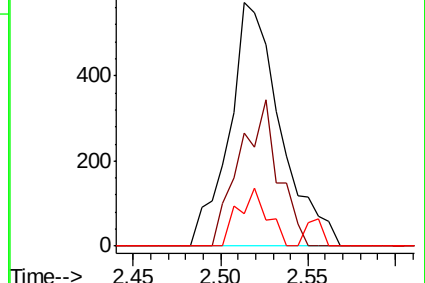
141 13.5 6.7 20.0

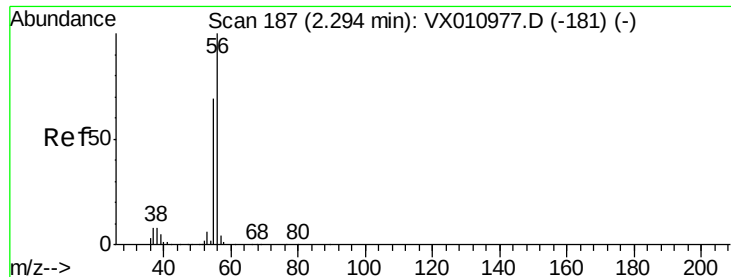


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V





#13

Acrolein

Concen: 0.261 ug/l

RT: 2.17 min Scan# 166

Delta R.T. -0.13 min

Lab File: VX010987.D

Acq: 19 Jul 2019 03:01

Instrument :

MSVOA_X

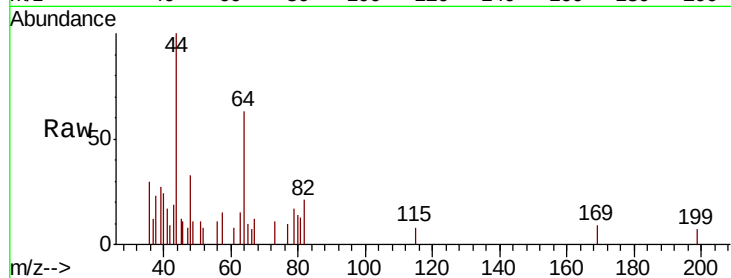
ClientSampleId :

Tot Ion: 56 Resp: 81

Ion Ratio Lower Upper

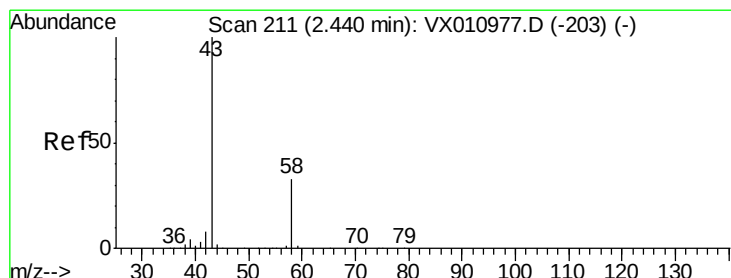
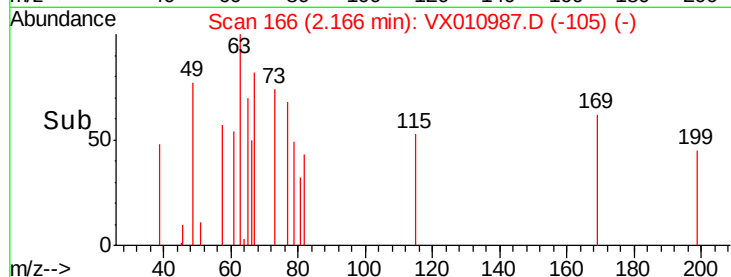
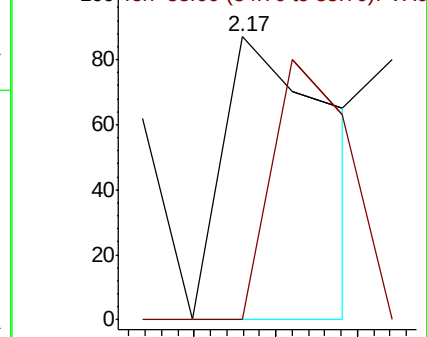
56 100

55 64.2 56.1 84.1



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acetone

Concen: 1.873 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.01 min

Lab File: VX010987.D

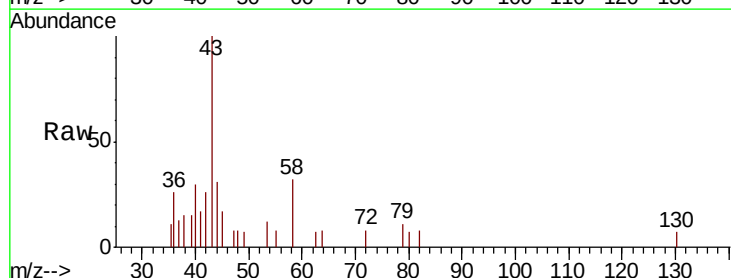
Acq: 19 Jul 2019 03:01

Tgt Ion: 58 Resp: 528

Ion Ratio Lower Upper

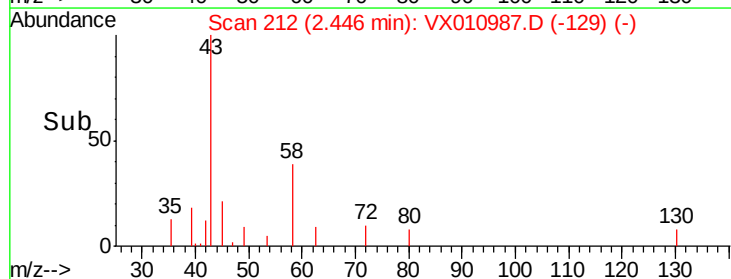
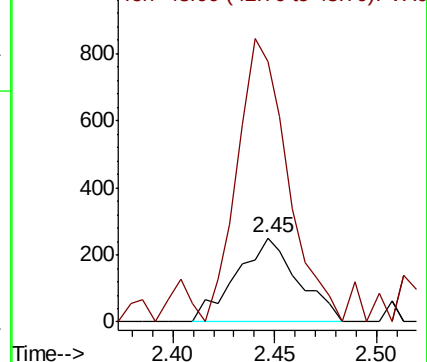
58 100

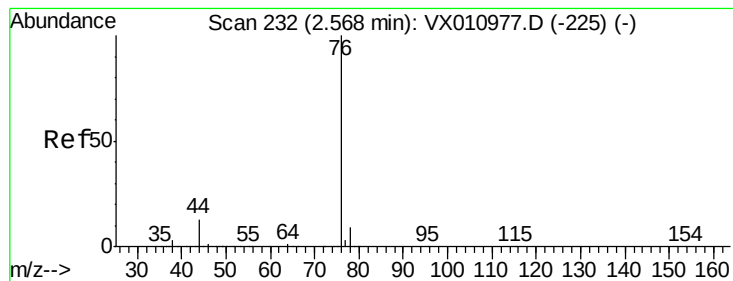
43 310.0 243.8 365.6



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0





#16

Carbon Disulfide

Concen: 0.476 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX010987.D

Acq: 19 Jul 2019 03:01

Instrument :

MSVOA_X

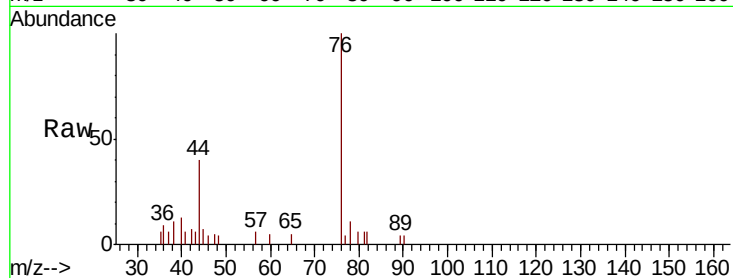
ClientSampleId :

Tot Ion: 76 Resp: 2252

Ion Ratio Lower Upper

76 100

78 11.1 7.3 10.9#



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

1500

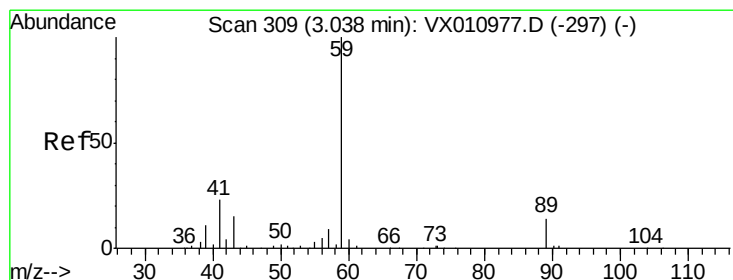
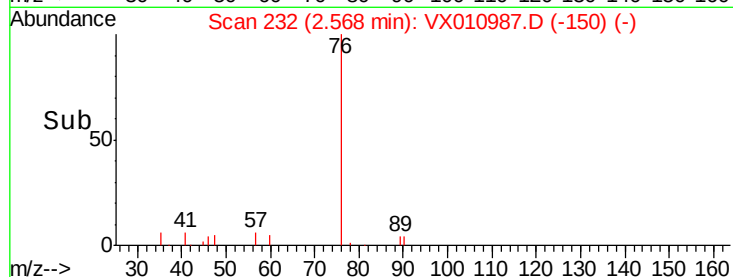
2.57

1000

500

0

Time-->



#23

tert-Butyl Alcohol

Concen: 3.601 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.01 min

Lab File: VX010987.D

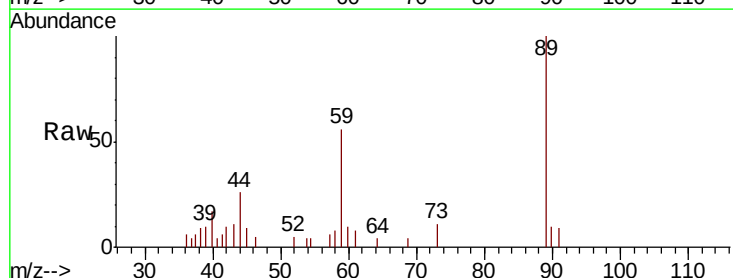
Acq: 19 Jul 2019 03:01

Tgt Ion: 59 Resp: 1903

Ion Ratio Lower Upper

59 100

52 3.5 0.2 0.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

800

3.03

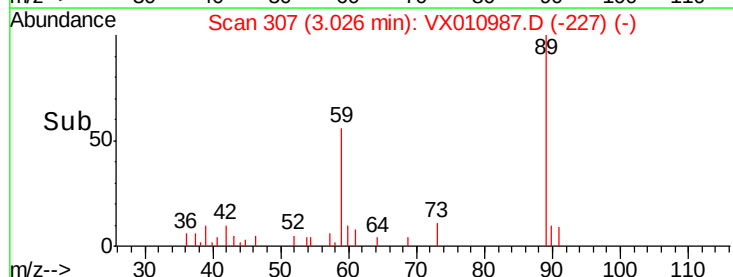
600

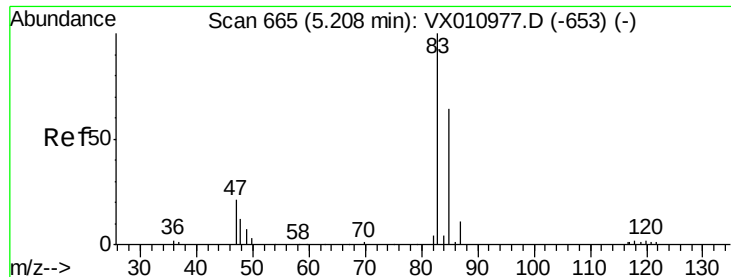
400

200

0

Time-->





#25

Chloroform

Concen: 1.141 ug/l

RT: 5.21 min Scan# 666

Delta R.T. 0.01 min

Lab File: VX010987.D

Acq: 19 Jul 2019 03:01

Instrument :

MSVOA_X

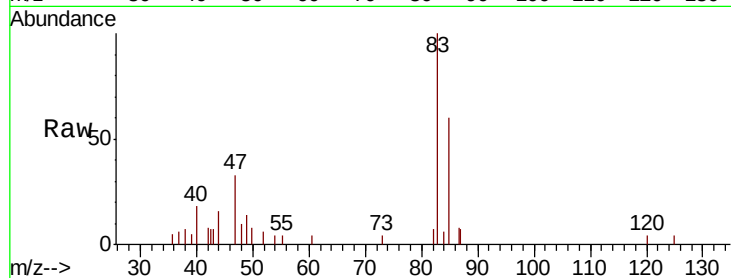
ClientSampleId :

Tot Ion: 83 Resp: 4047

Ion Ratio Lower Upper

83 100

85 59.6 50.9 76.3



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

5.21

1500

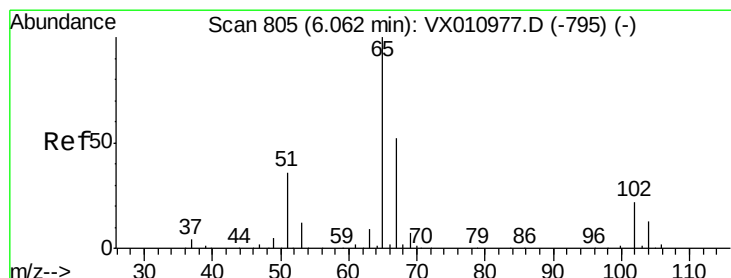
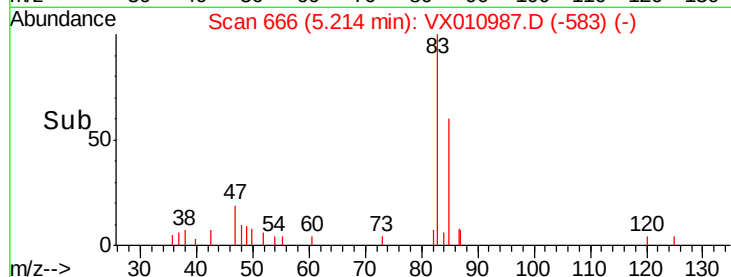
1000

500

0

5.15 5.20 5.25 5.30

Time-->



#27

1,2-Dichloroethane-d4

Concen: 29.863 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010987.D

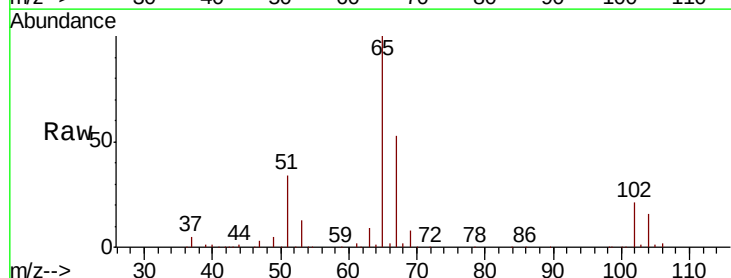
Acq: 19 Jul 2019 03:01

Tgt Ion: 65 Resp: 66656

Ion Ratio Lower Upper

65 100

67 52.9 41.7 62.5



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

30000

25000

20000

15000

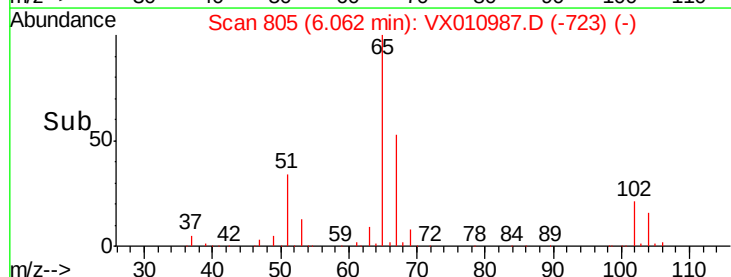
10000

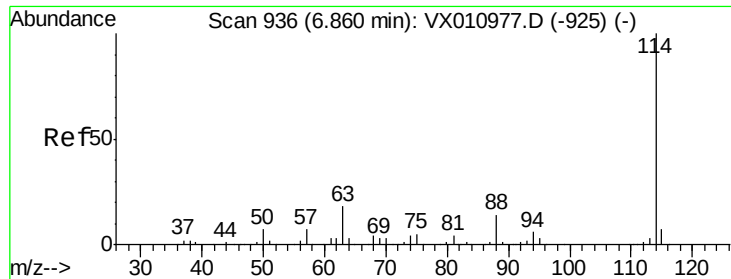
5000

0

6.00 6.10 6.20

Time-->

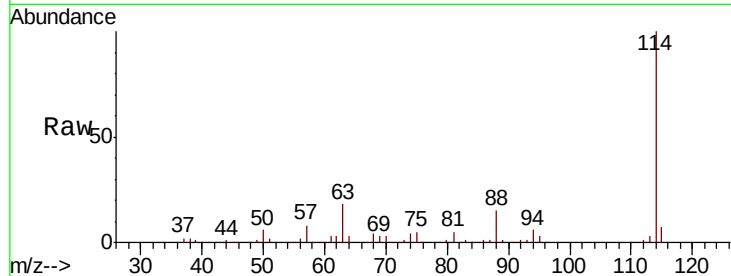




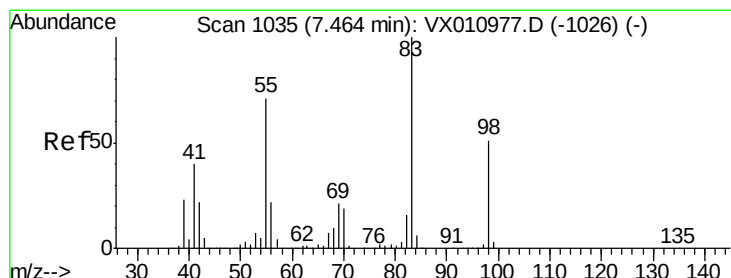
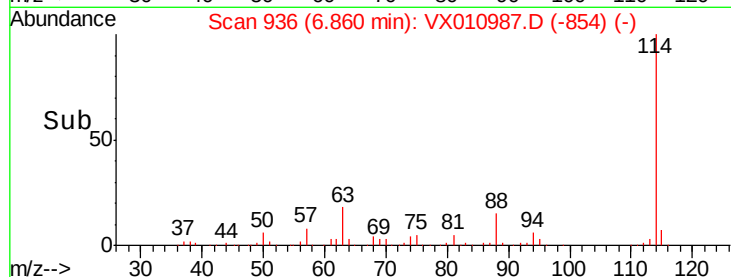
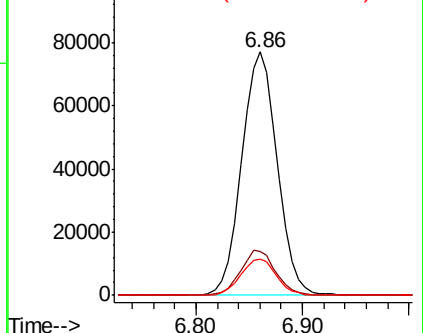
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX010987.D
 Acq: 19 Jul 2019 03:01

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 180434
 Ion Ratio Lower Upper
 114 100
 63 18.3 14.6 22.0
 88 15.1 11.8 17.8

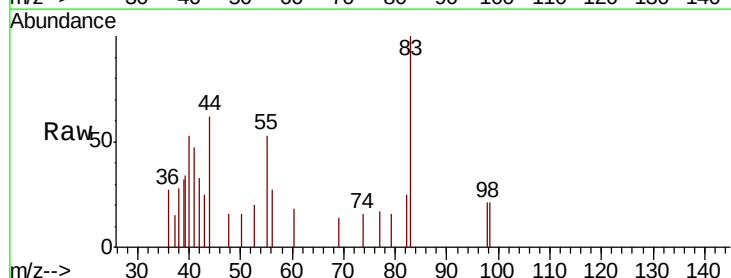


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 88.00 (87.70 to 88.70): VX0

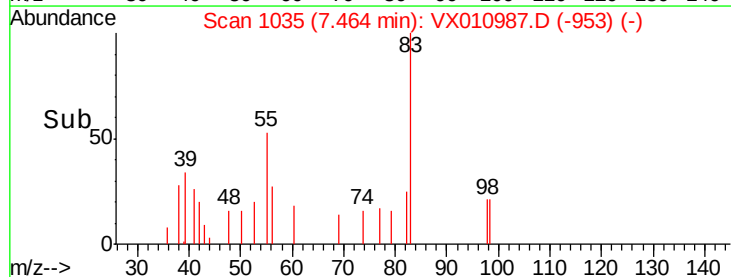
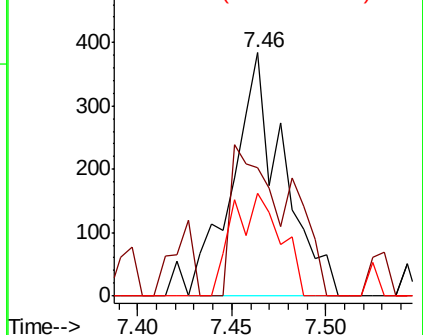


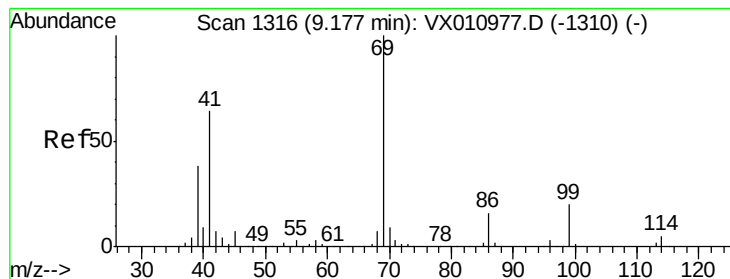
#38
 Methylcyclohexane
 Concen: 0.223 ug/l
 RT: 7.46 min Scan# 1035
 Delta R.T. 0.00 min
 Lab File: VX010987.D
 Acq: 19 Jul 2019 03:01

Tgt Ion: 83 Resp: 714
 Ion Ratio Lower Upper
 83 100
 55 47.6 35.3 105.9
 98 40.2 24.0 72.0



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





#51

Ethyl methacrylate

Concen: 0.210 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.46 min

Lab File: VX010987.D

Acq: 19 Jul 2019 03:01

Instrument :

MSVOA_X

ClientSampled :

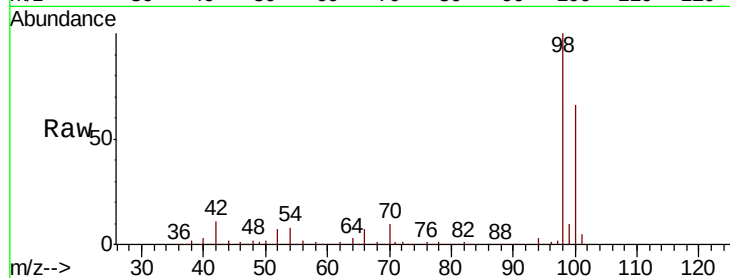
Tot Ion: 69 Resp: 664

Ion Ratio Lower Upper

69 100

41 71.6 32.1 96.3

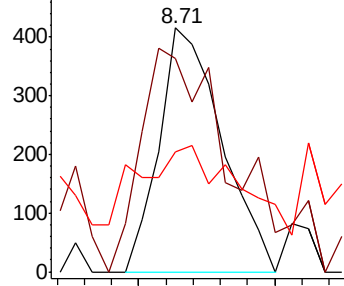
39 21.4 19.1 57.3



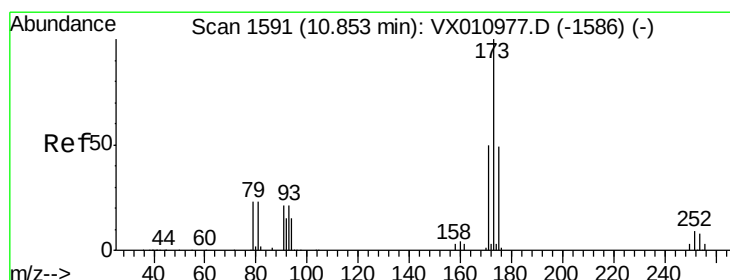
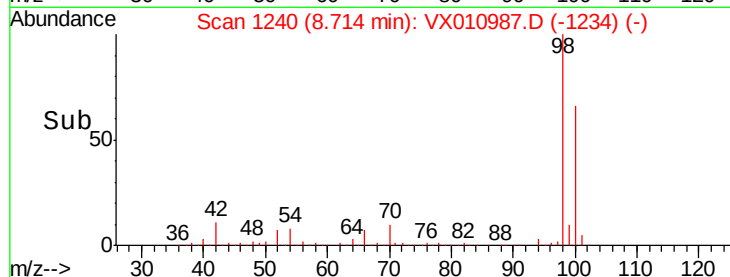
Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



Time-->



#56

Bromoform

Concen: 0.569 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.29 min

Lab File: VX010987.D

Acq: 19 Jul 2019 03:01

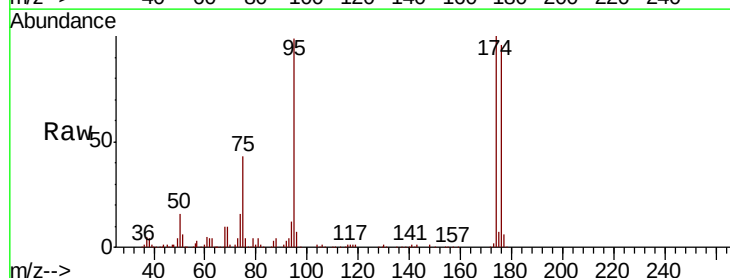
Tgt Ion: 173 Resp: 938

Ion Ratio Lower Upper

173 100

175 530.2 39.0 58.6#

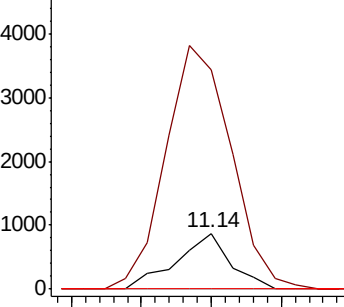
254 0.0 7.9 11.9#



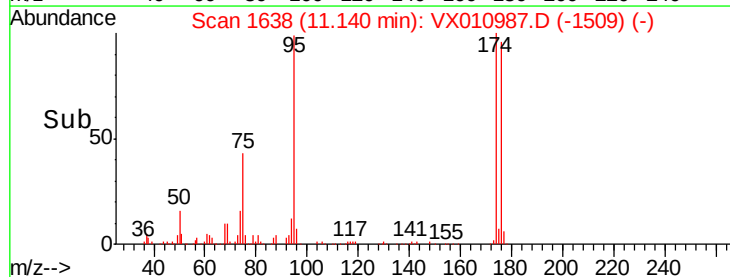
Abundance Ion 173.00 (172.70 to 173.70): V

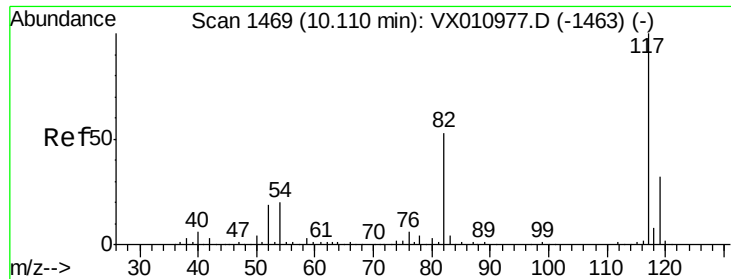
Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



Time-->

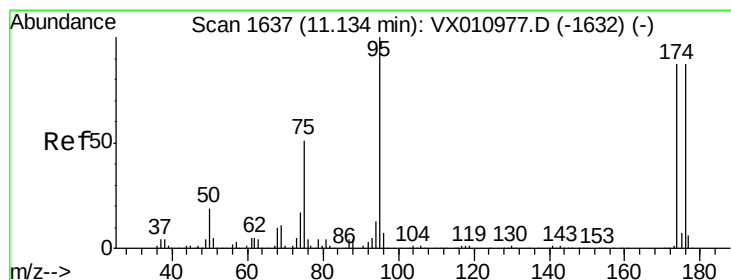
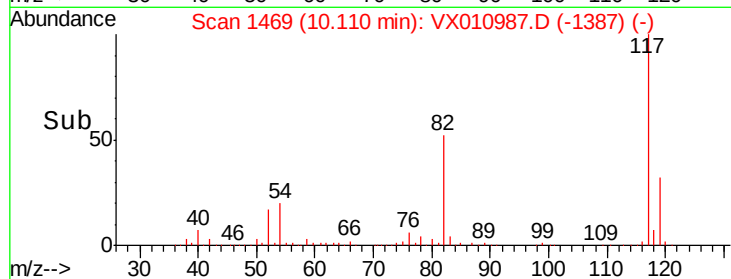
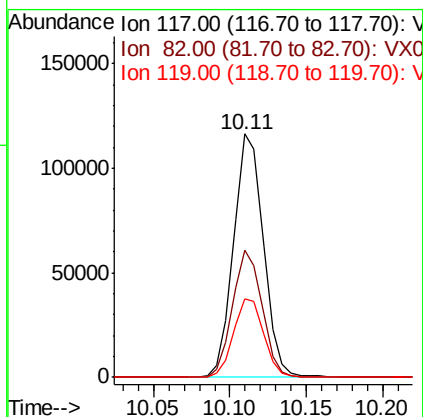
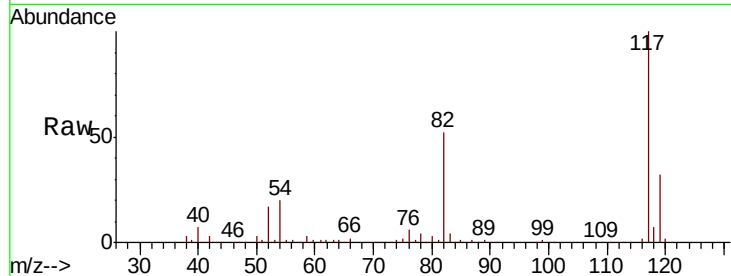




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX010987.D
Acq: 19 Jul 2019 03:01

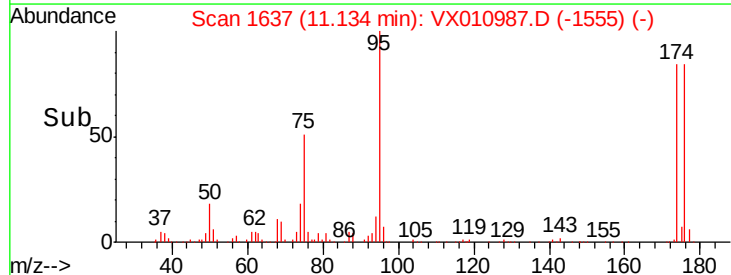
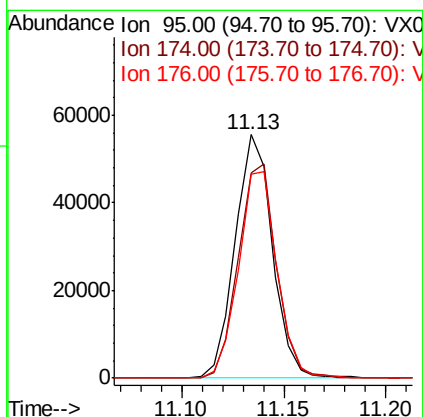
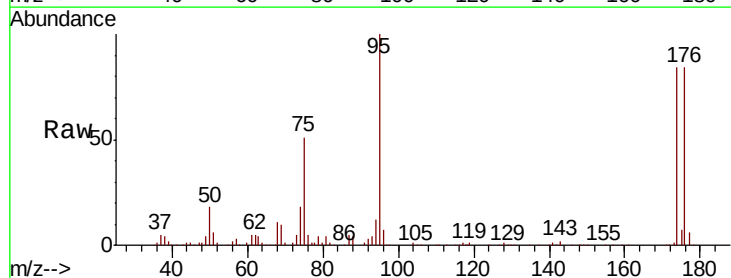
Instrument :
MSVOA_X
ClientSampleId :

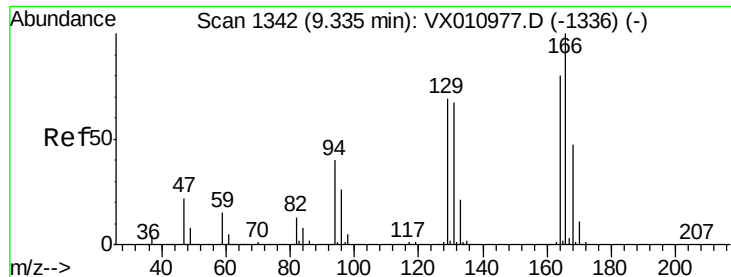
Tot Ion:117 Resp: 157809
Ion Ratio Lower Upper
117 100
82 51.2 41.6 62.4
119 32.4 26.0 39.0



#60
4-Bromofluorobenzene
Concen: 27.073 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010987.D
Acq: 19 Jul 2019 03:01

Tgt Ion: 95 Resp: 70318
Ion Ratio Lower Upper
95 100
174 90.3 73.3 109.9
176 88.4 71.2 106.8





#61

Tetrachloroethene

Concen: 0.236 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX010987.D

Acq: 19 Jul 2019 03:01

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164 Resp: 491

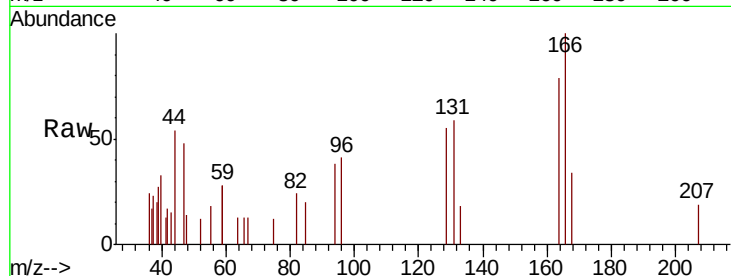
Ion Ratio Lower Upper

164 100

166 126.5 100.1 150.1

129 69.4 69.6 104.4#

131 74.6 67.0 100.6

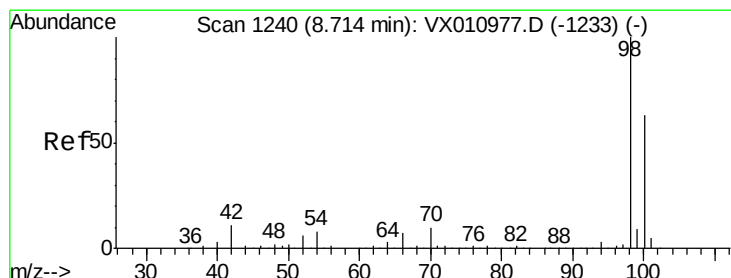
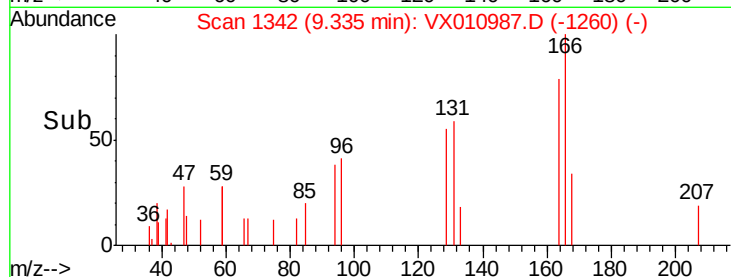
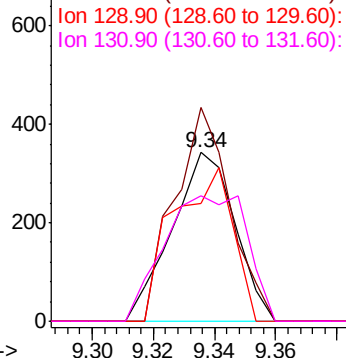


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#63

Toluene-d8

Concen: 30.395 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010987.D

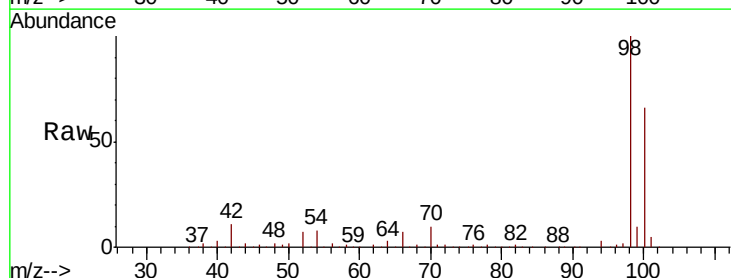
Acq: 19 Jul 2019 03:01

Tgt Ion: 98 Resp: 210826

Ion Ratio Lower Upper

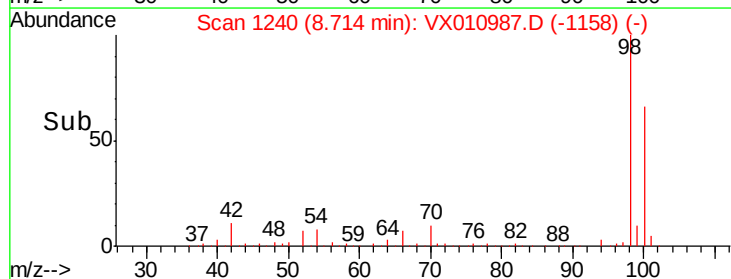
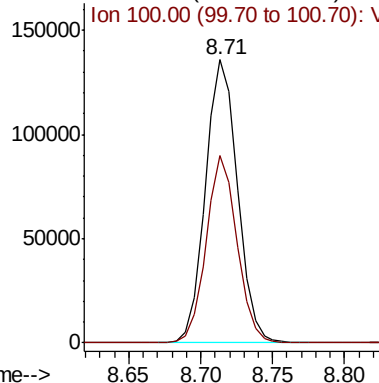
98 100

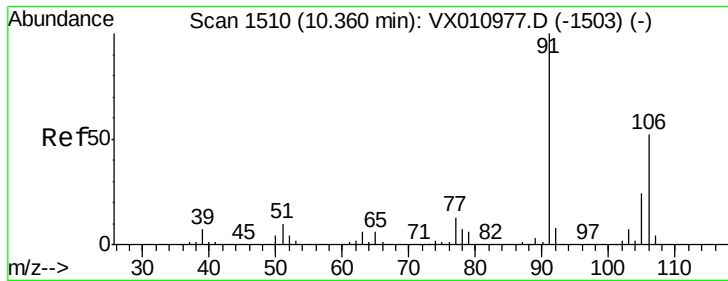
100 63.4 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

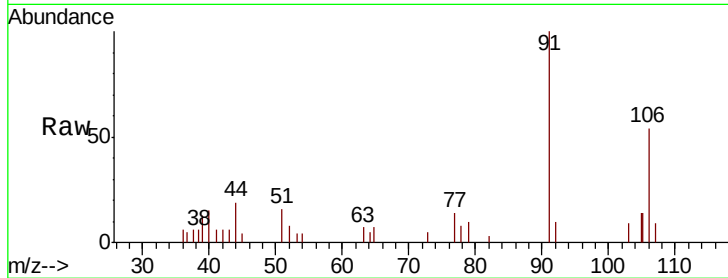




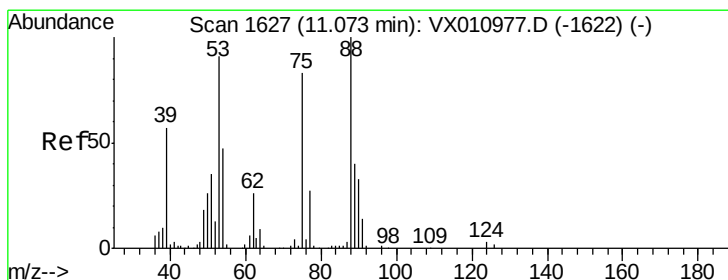
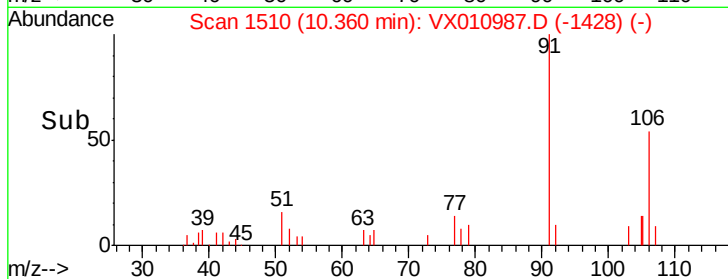
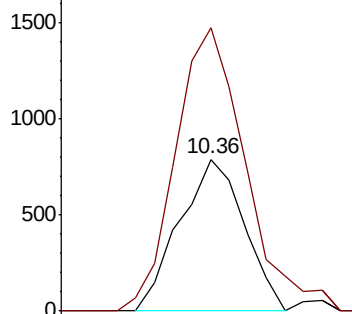
#67
m/p-Xvlenes
Concen: 0.321 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX010987.D
Acq: 19 Jul 2019 03:01

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:106 Resp: 1159
Ion Ratio Lower Upper
106 100
91 201.7 156.6 235.0

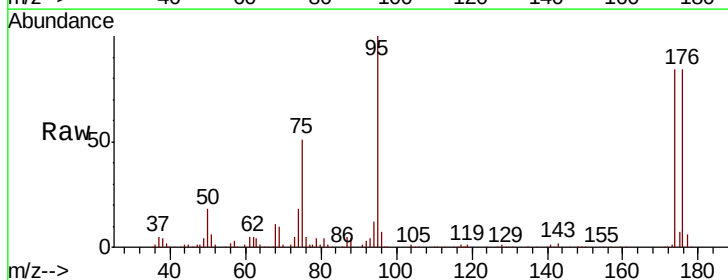


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

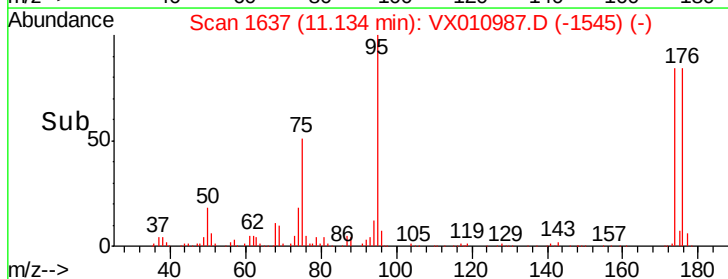
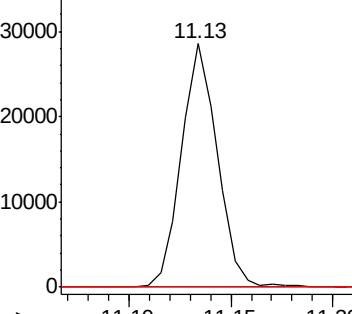


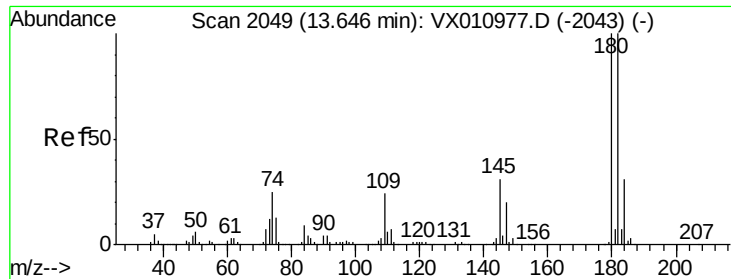
#77
t-1,4-Dichloro-2-butene
Concen: 41.327 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX010987.D
Acq: 19 Jul 2019 03:01

Tgt Ion: 75 Resp: 34575
Ion Ratio Lower Upper
75 100
53 0.0 54.8 164.3#
89 0.0 24.6 73.6#



Abundance Ion 75.00 (74.70 to 75.70): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 89.00 (88.70 to 89.70): VX0

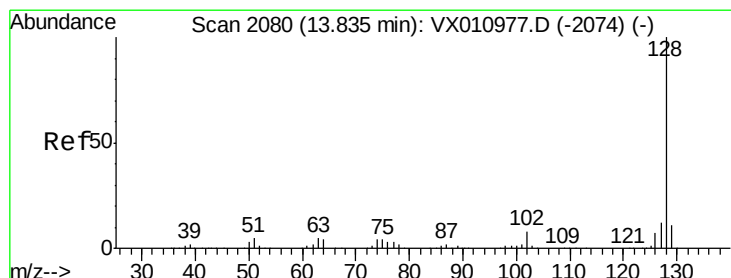
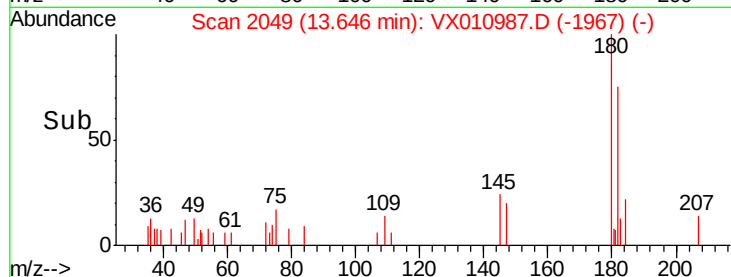
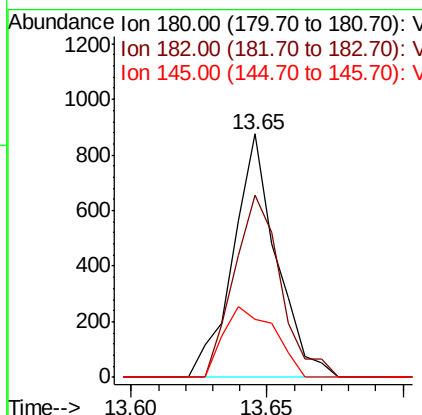
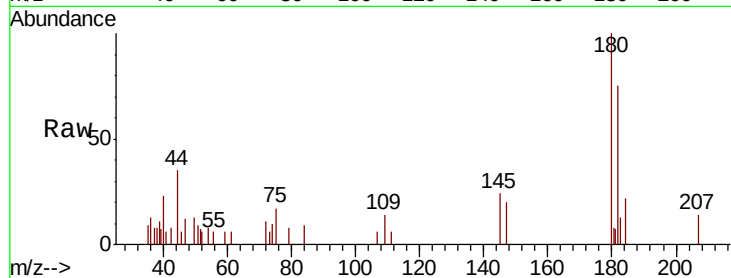




#89
 1,2,4-Trichlorobenzene
 Concen: 0.319 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. 0.00 min
 Lab File: VX010987.D
 Acq: 19 Jul 2019 03:01

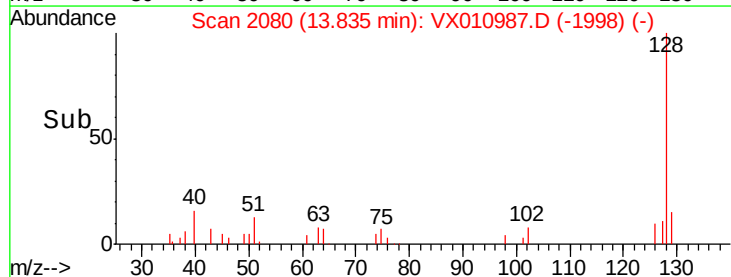
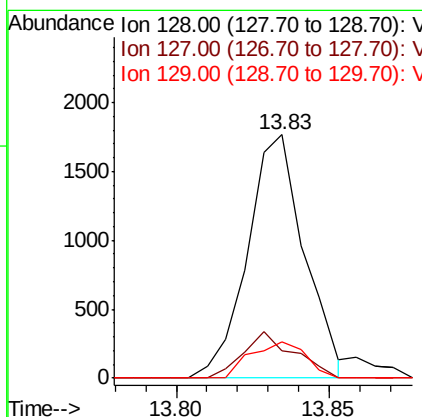
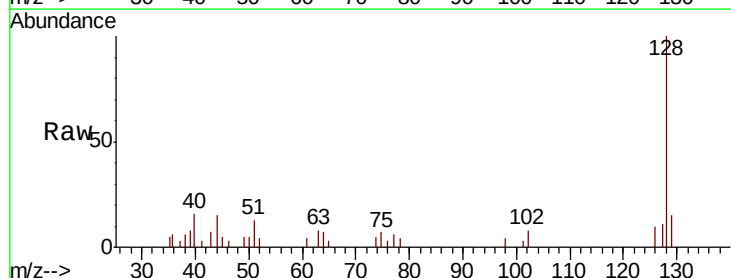
Instrument :
 MSVOA_X
 ClientSampleId :

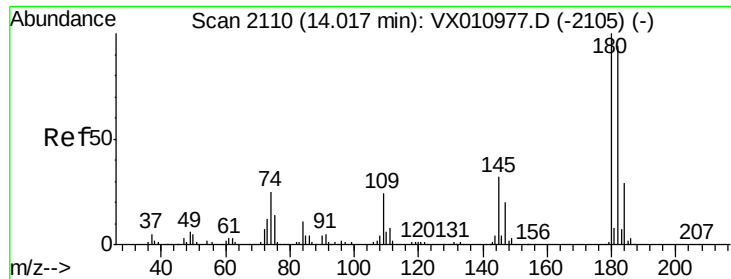
Tot Ion:180 Resp: 968
 Ion Ratio Lower Upper
 180 100
 182 80.8 77.6 116.4
 145 34.0 23.8 35.6



#91
 Naphthalene
 Concen: 0.247 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX010987.D
 Acq: 19 Jul 2019 03:01

Tgt Ion:128 Resp: 2281
 Ion Ratio Lower Upper
 128 100
 127 16.8 10.2 15.2#
 129 14.3 8.5 12.7#





#92
 1,2,3-Trichlorobenzene
 Concen: 0.291 ug/l
 RT: 14.02 min Scan# 2110
 Delta R.T. 0.00 min
 Lab File: VX010987.D
 Acq: 19 Jul 2019 03:01

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	87.2	0.0	190.2
145	31.0	0.0	63.8

