

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020520\
 Data File : VX014818.D
 Acq On : 05 Feb 2020 13:35
 Operator : JC/SP
 Sample : L1392-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 06 03:04:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:41:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	62772	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	349503	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	323896	30.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane-d4		6.05	65	143491	32.52	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	108.40%	
60) 4-Bromofluorobenzene		11.13	95	148998	28.75	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.83%	
63) Toluene-d8		8.71	98	423390	28.94	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.47%	

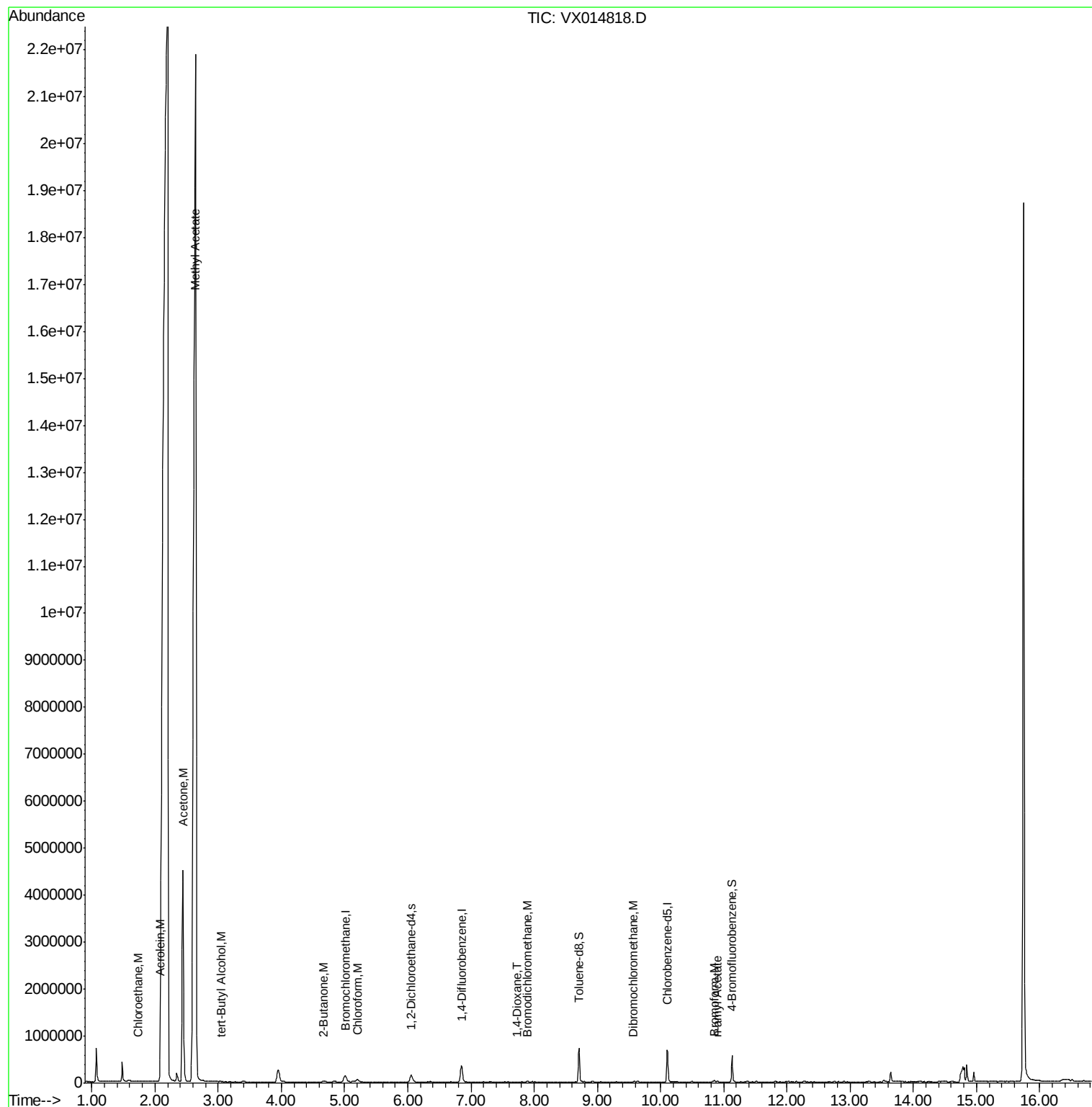
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
6) Chloroethane	1.73	64	656	0.218	ug/l	92
12) Methyl Acetate	2.64	43	8719478	1389.033	ug/l #	52
13) Acrolein	2.08	56	292	0.443	ug/l	84
15) Acetone	2.44	58	1469019	2040.057	ug/l	91
23) tert-Butyl Alcohol	3.05	59	1655	1.863	ug/l #	93
25) Chloroform	5.20	83	58122	8.680	ug/l	97
30) 2-Butanone	4.67	43	17955	5.530	ug/l #	89
41) Bromodichloromethane	7.89	83	5463	1.054	ug/l	91
45) 1,4-Dioxane	7.73	88	42	0.443	ug/l #	1
47) n-amyl Acetate	10.90	43	4540	0.571	ug/l	92
53) Dibromochloromethane	9.58	129	2983	0.724	ug/l	92
56) Bromoform	10.85	173	11052	3.483	ug/l	97

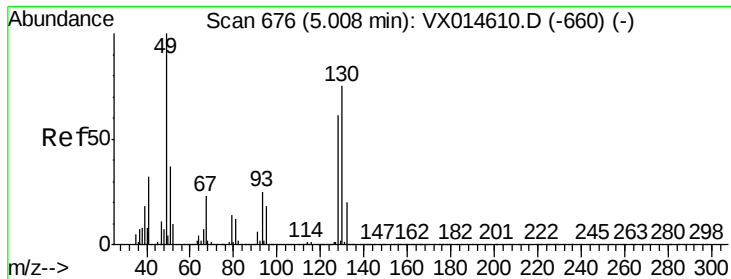
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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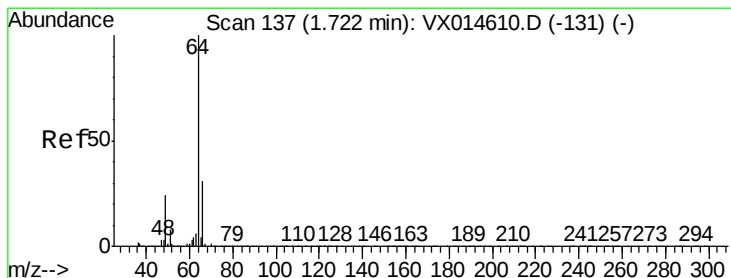
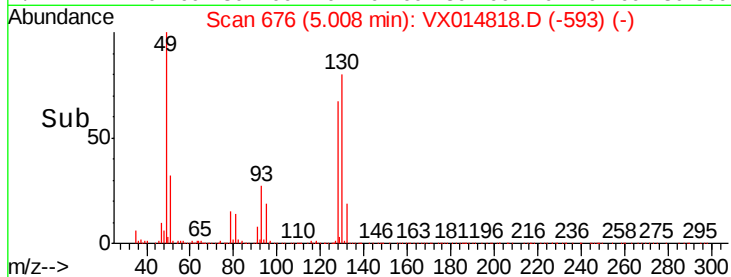
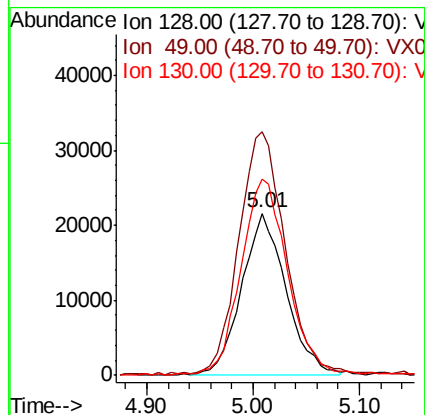
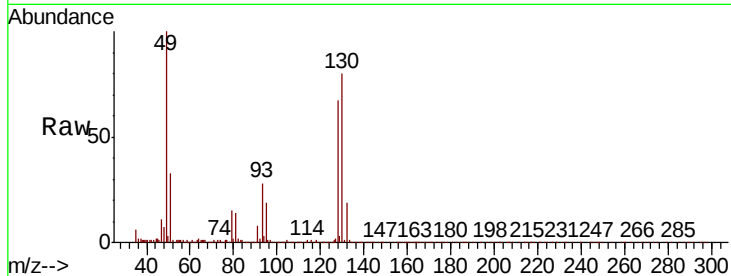


#1

Bromochloromethane
 Concen: 30.000 ug/l
 RT: 5.01 min Scan# 676
 Delta R.T. 0.01 min
 Lab File: VX014818.D
 Acq: 05 Feb 2020 13:35

Instrument :
 MSVOA_X
 ClientSampleId :

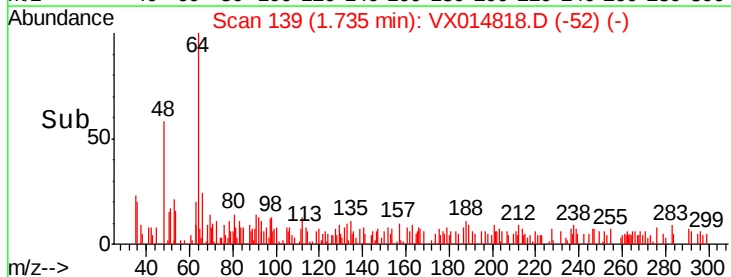
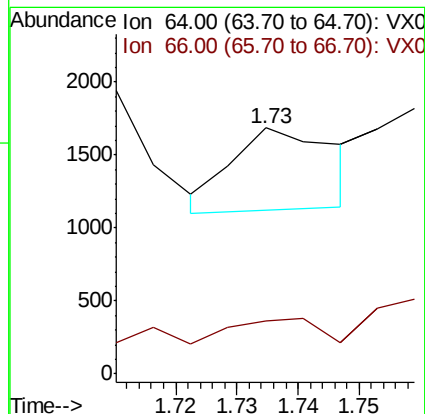
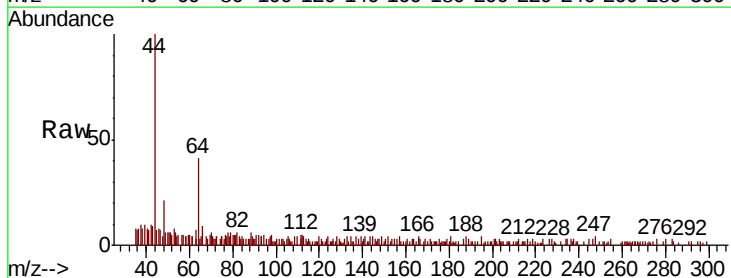
Tot Ion:128 Resp: 62772
 Ion Ratio Lower Upper
 128 100
 49 156.6 0.0 405.0
 130 127.5 0.0 321.5

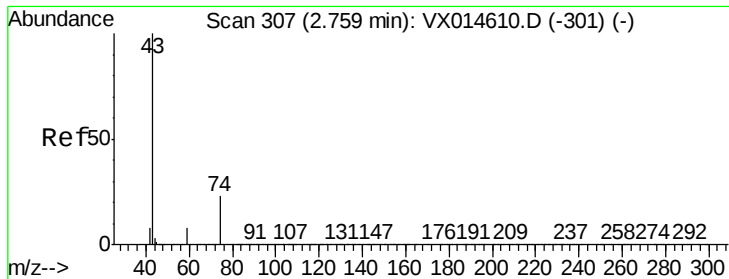


#6

Chloroethane
 Concen: 0.218 ug/l
 RT: 1.73 min Scan# 139
 Delta R.T. 0.03 min
 Lab File: VX014818.D
 Acq: 05 Feb 2020 13:35

Tgt Ion: 64 Resp: 656
 Ion Ratio Lower Upper
 64 100
 66 36.2 25.2 37.8

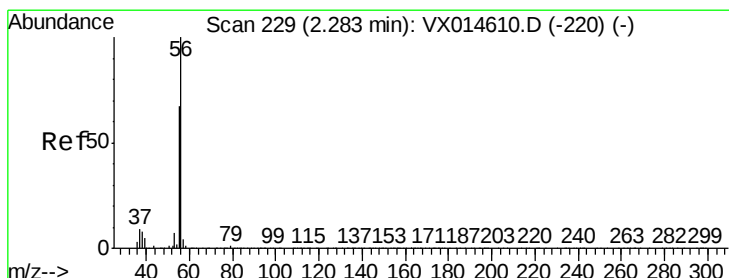
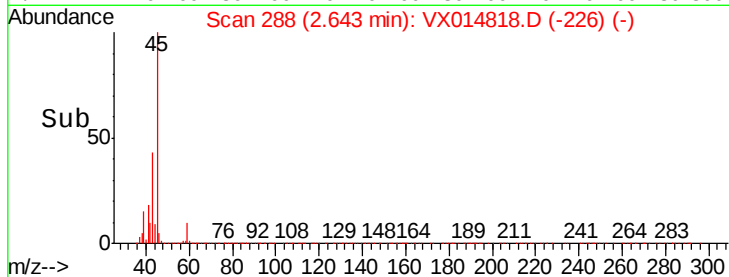
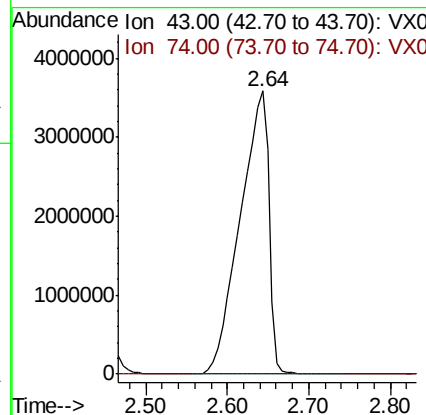
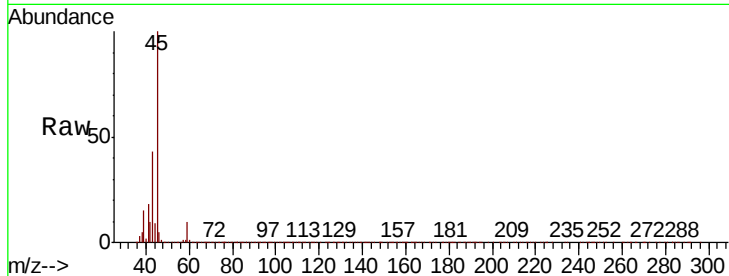




#12
Methyl Acetate
Concen: 1389.033 ug/l
RT: 2.64 min Scan# 288
Delta R.T. -0.12 min
Lab File: VX014818.D
Acq: 05 Feb 2020 13:35

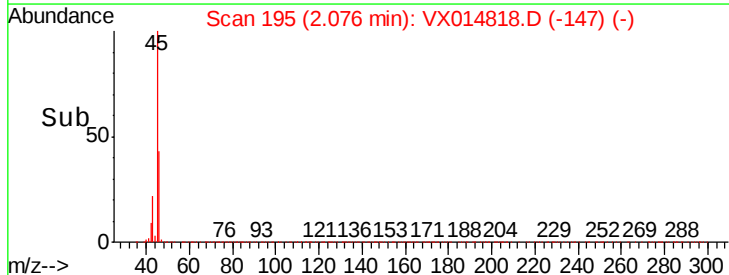
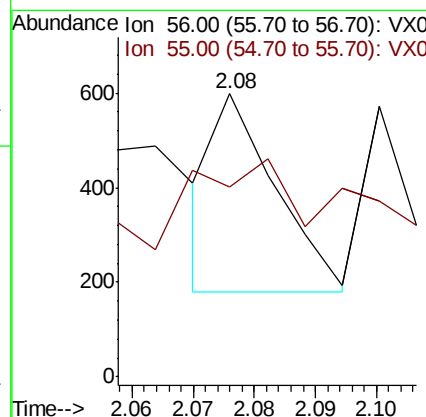
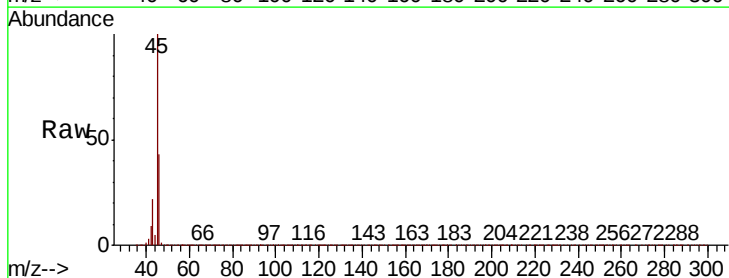
Instrument :
MSVOA_X
ClientSampled :

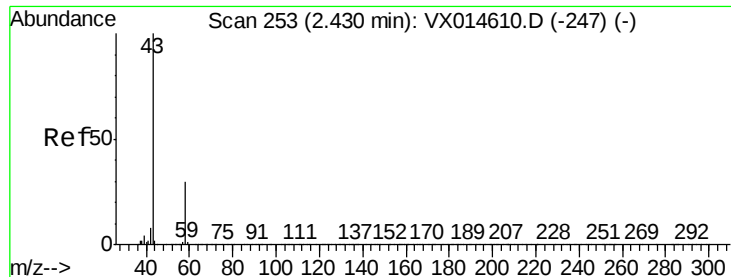
Tot Ion: 43 Resp: 8719478
Ion Ratio Lower Upper
43 100
74 0.0 18.5 27.7#



#13
Acrolein
Concen: 0.443 ug/l
RT: 2.08 min Scan# 195
Delta R.T. -0.21 min
Lab File: VX014818.D
Acq: 05 Feb 2020 13:35

Tgt Ion: 56 Resp: 292
Ion Ratio Lower Upper
56 100
55 81.8 54.9 82.3

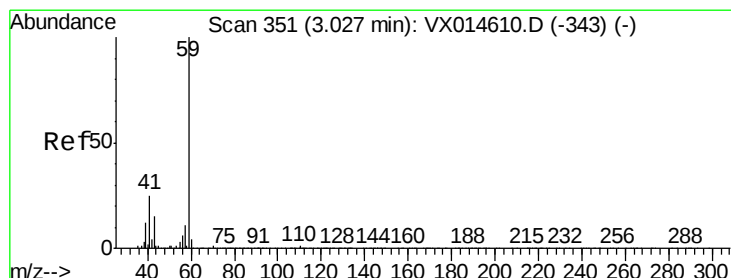
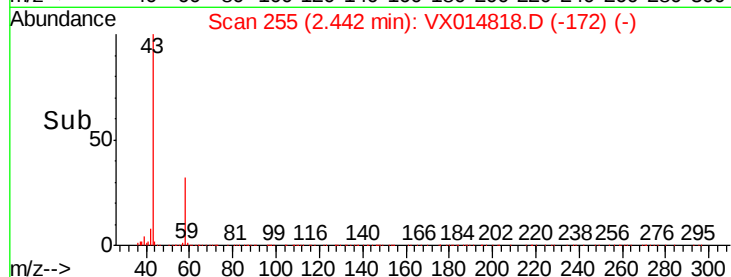
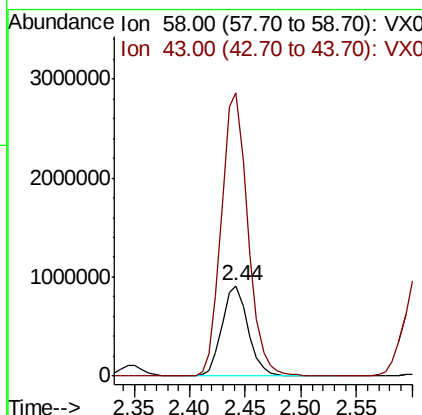
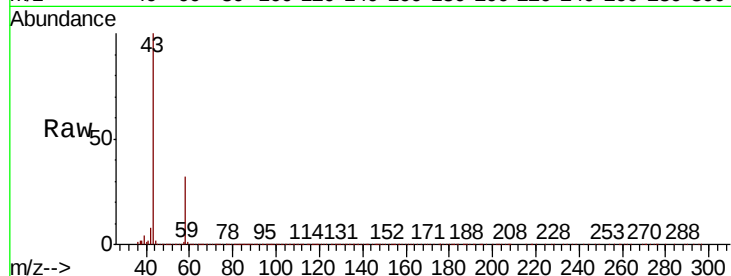




#15
Acetone
Concen: 2040.057 ug/l
RT: 2.44 min Scan# 255
Delta R.T. 0.01 min
Lab File: VX014818.D
Acq: 05 Feb 2020 13:35

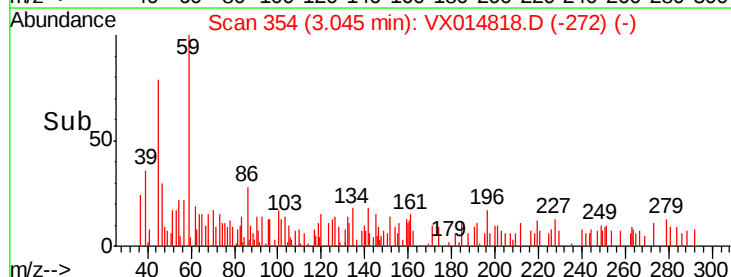
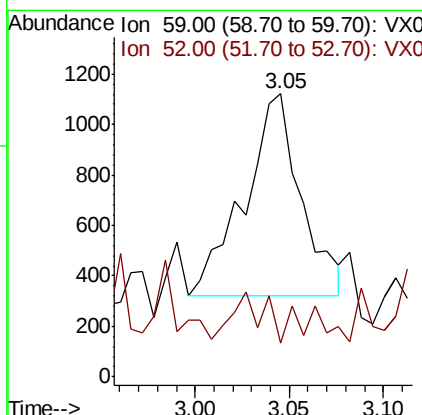
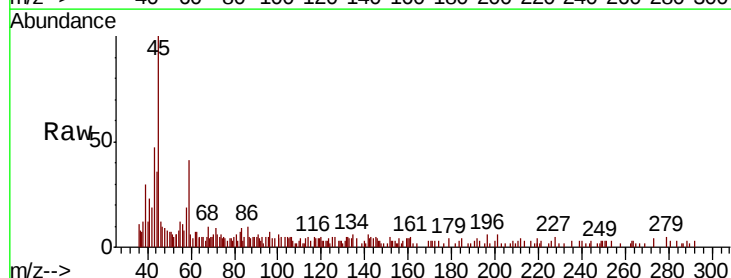
Instrument :
MSVOA_X
ClientSampleId :

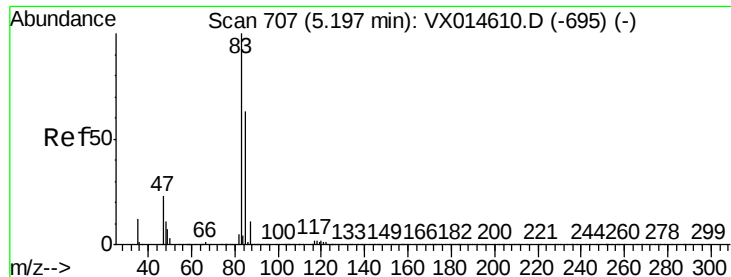
Tot Ion: 58 Resp: 1469019
Ion Ratio Lower Upper
58 100
43 312.4 236.3 354.5



#23
tert-Butyl Alcohol
Concen: 1.863 ug/l
RT: 3.05 min Scan# 354
Delta R.T. 0.00 min
Lab File: VX014818.D
Acq: 05 Feb 2020 13:35

Tgt Ion: 59 Resp: 1655
Ion Ratio Lower Upper
59 100
52 8.6 0.2 0.2#





#25

Chloroform

Concen: 8.680 ug/l

RT: 5.20 min Scan# 708

Delta R.T. 0.00 min

Lab File: VX014818.D

Acq: 05 Feb 2020 13:35

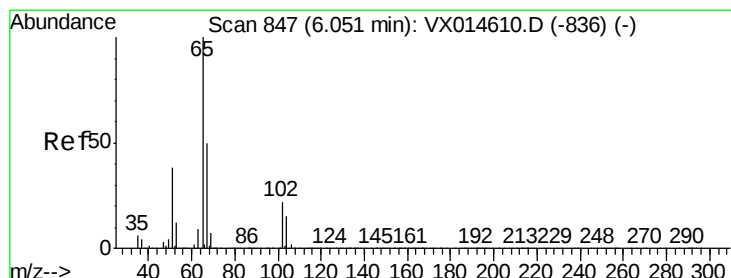
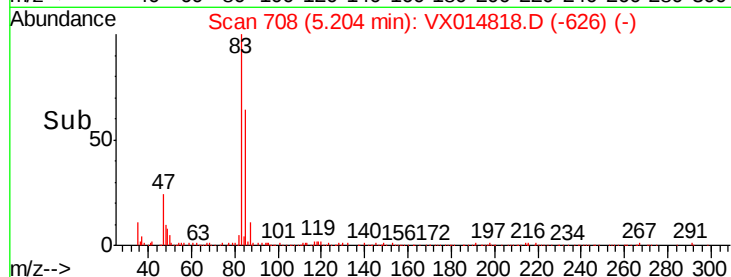
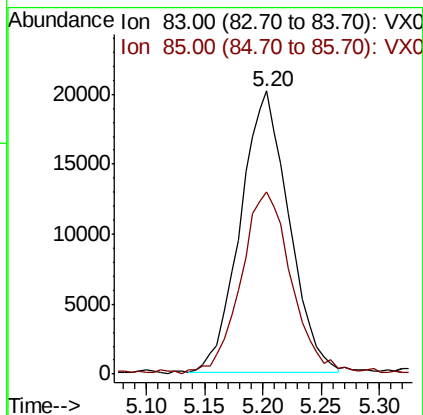
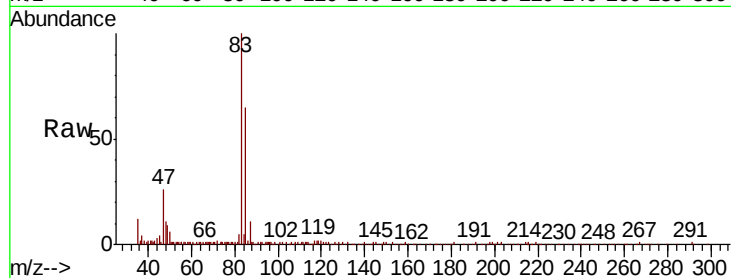
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 83 Resp: 58122

Ion Ratio Lower Upper

83 100

85 63.3 52.7 79.1



#27

1,2-Dichloroethane-d4

Concen: 32.522 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014818.D

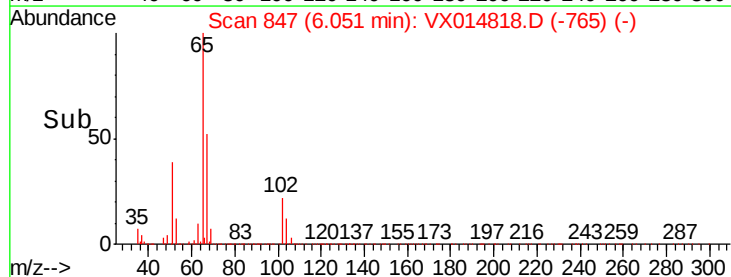
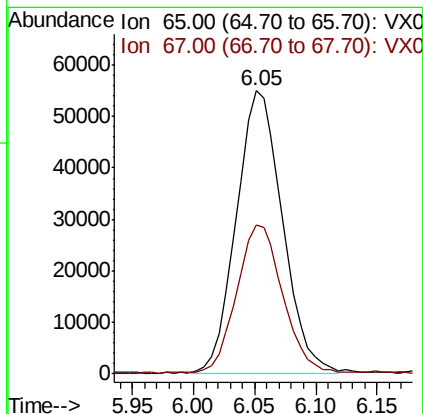
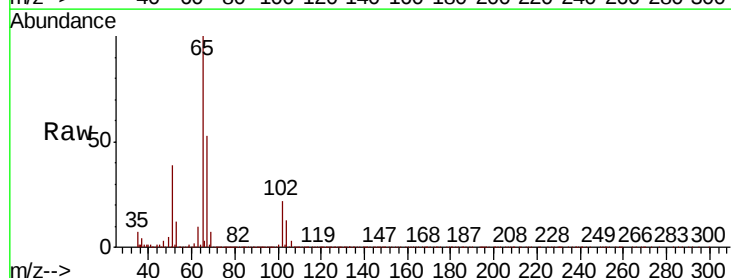
Acq: 05 Feb 2020 13:35

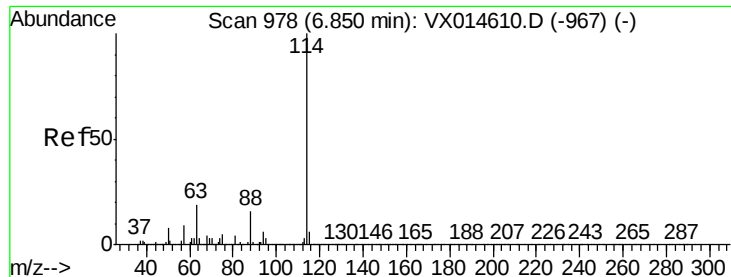
Tgt Ion: 65 Resp: 143491

Ion Ratio Lower Upper

65 100

67 52.4 43.1 64.7





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014818.D

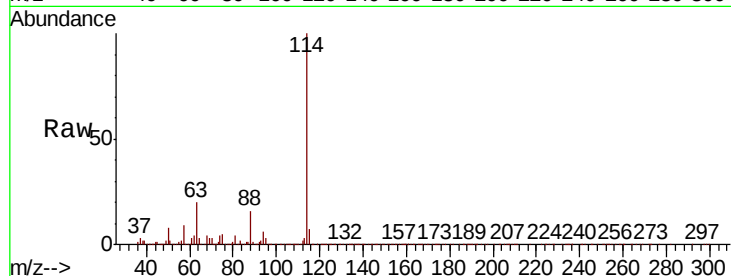
Acq: 05 Feb 2020 13:35

Instrument :

MSVOA_X

ClientSampleId :

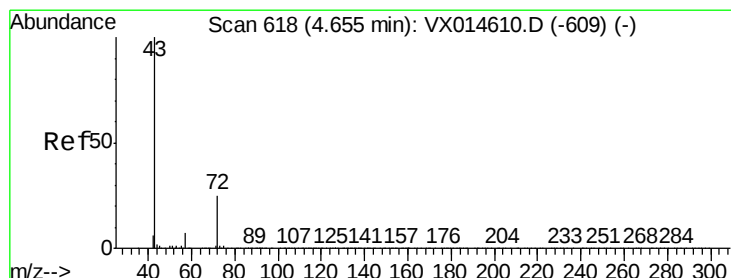
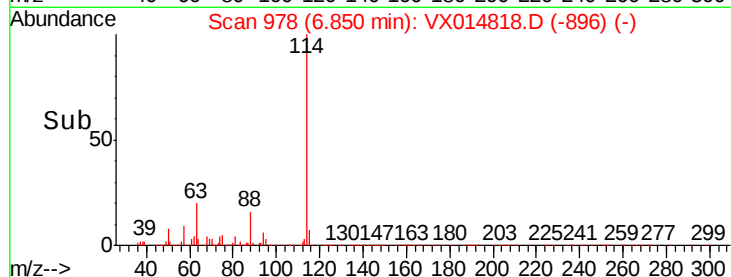
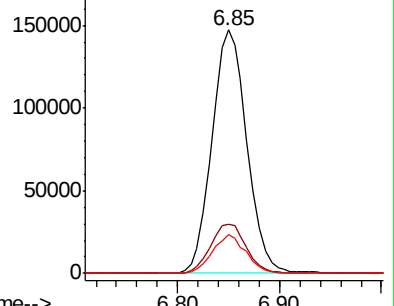
Tot Ion:	114	Resp:	349503
Ion	Ratio	Lower	Upper
114	100		
63	20.5	16.1	24.1
88	15.2	12.5	18.7



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: 5.530 ug/l

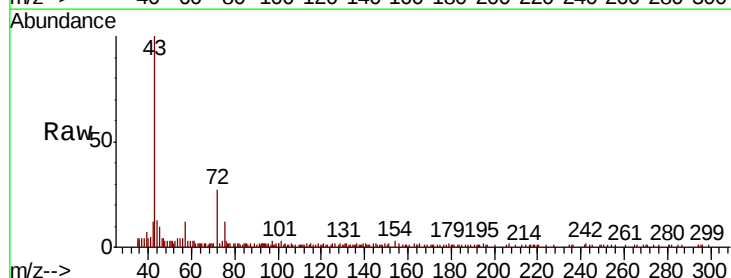
RT: 4.67 min Scan# 621

Delta R.T. 0.01 min

Lab File: VX014818.D

Acq: 05 Feb 2020 13:35

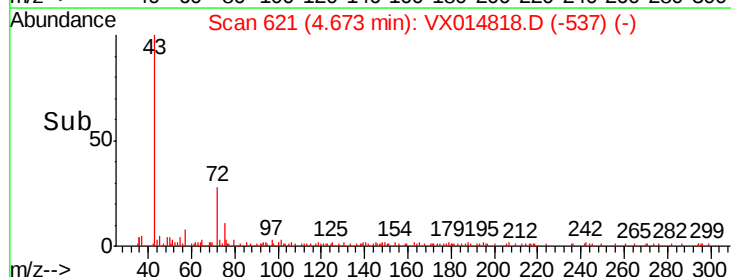
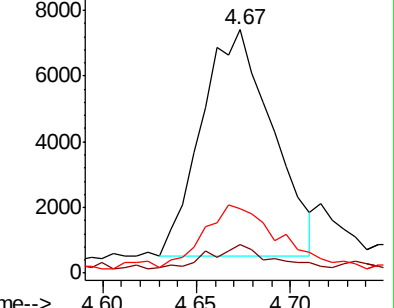
Tgt Ion:	43	Resp:	17955
Ion	Ratio	Lower	Upper
43	100		
57	4.7	6.2	9.2#
72	31.2	20.3	30.5#

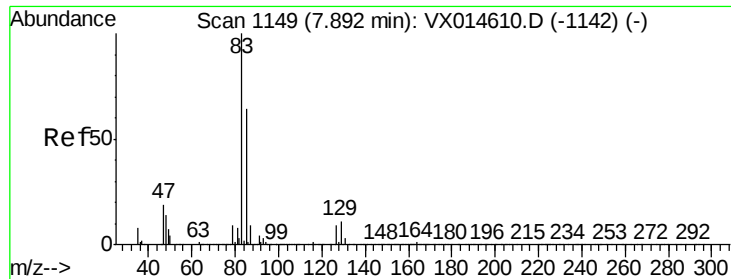


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#41

Bromodichloromethane

Concen: 1.054 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. 0.00 min

Lab File: VX014818.D

Acq: 05 Feb 2020 13:35

Instrument :

MSVOA_X

ClientSampleId :

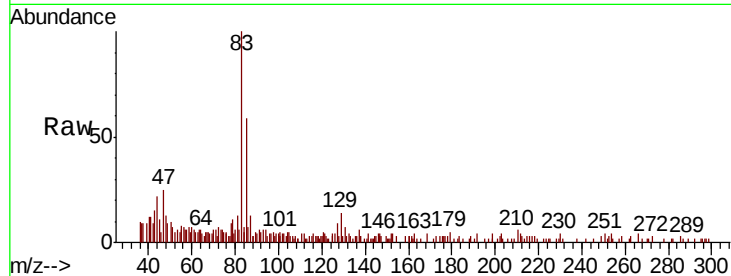
Tot Ion: 83 Resp: 5463

Ion Ratio Lower Upper

83 100

85 56.9 51.6 77.4

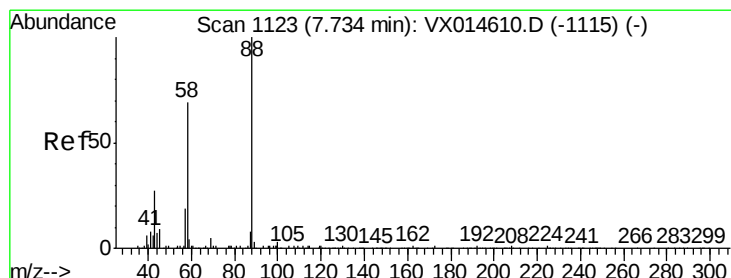
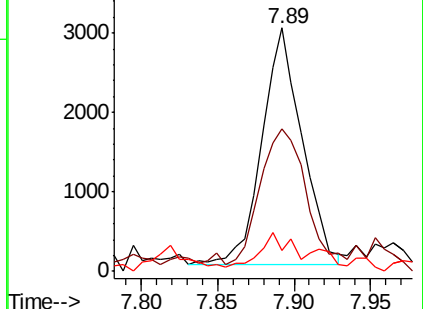
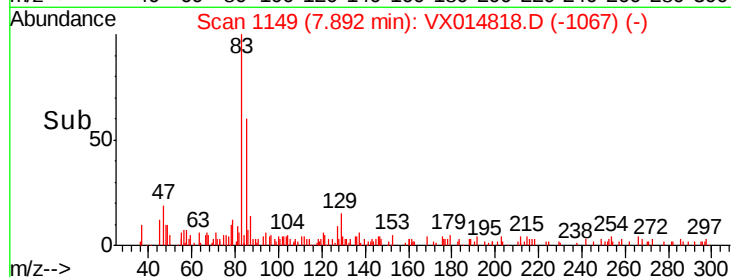
127 6.2 6.0 9.0



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): V



#45

1,4-Dioxane

Concen: 0.443 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VX014818.D

Acq: 05 Feb 2020 13:35

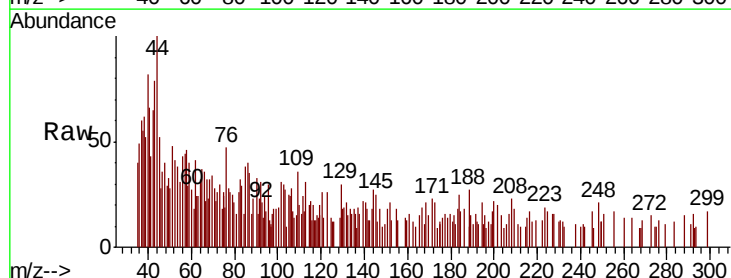
Tgt Ion: 88 Resp: 42

Ion Ratio Lower Upper

88 100

43 245.2 25.4 38.2#

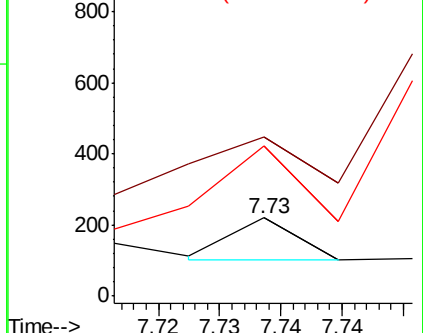
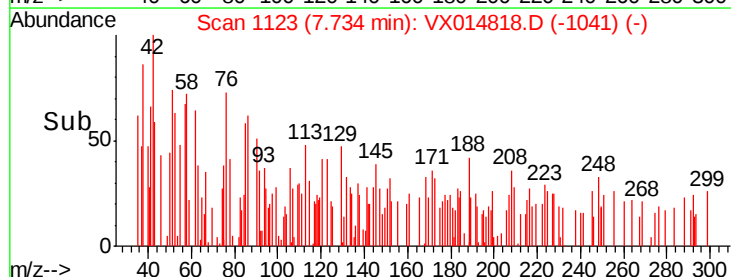
58 323.8 56.5 84.7#

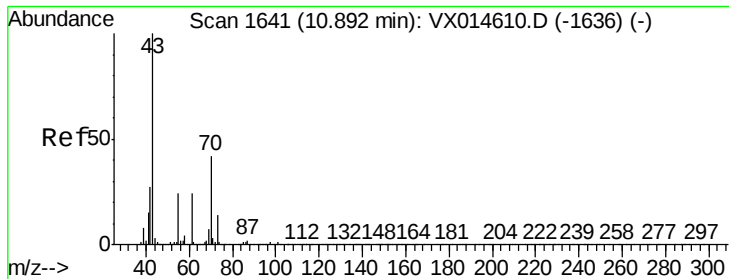


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#47

n-amvl Acetate

Concen: 0.571 ug/l

RT: 10.90 min Scan# 1642

Delta R.T. 0.01 min

Lab File: VX014818.D

Acq: 05 Feb 2020 13:35

Instrument :

MSVOA_X

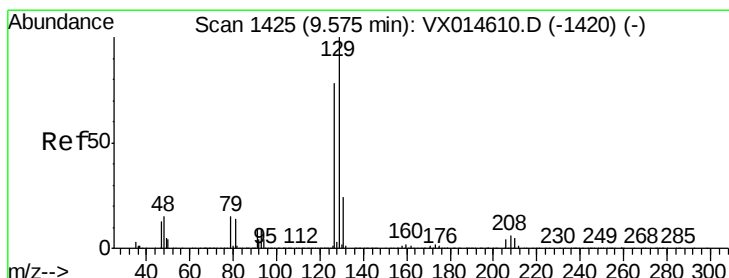
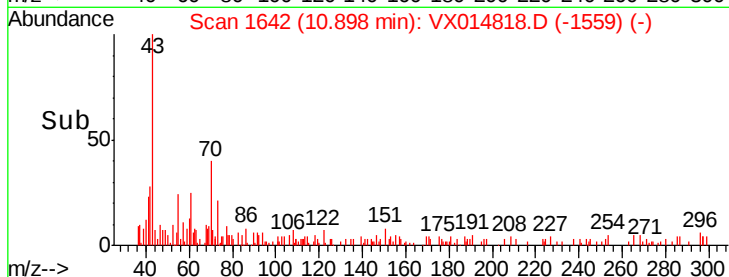
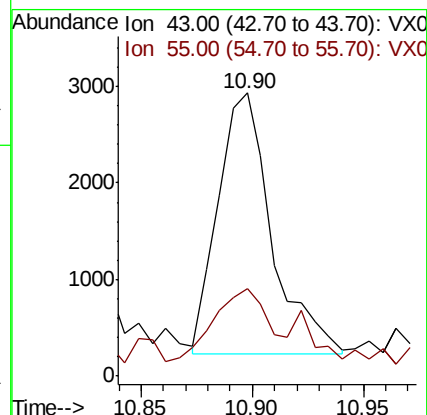
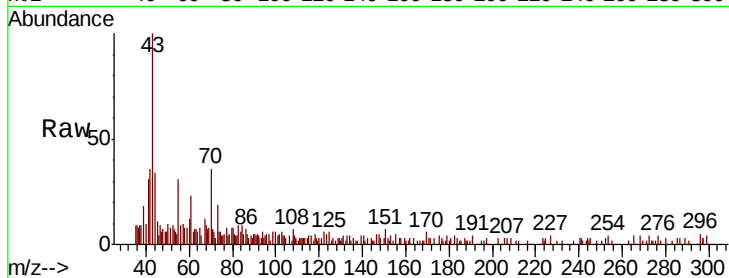
ClientSampleId :

Tot Ion: 43 Resp: 4540

Ion Ratio Lower Upper

43 100

55 28.4 19.4 29.2



#53

Dibromochloromethane

Concen: 0.724 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. 0.01 min

Lab File: VX014818.D

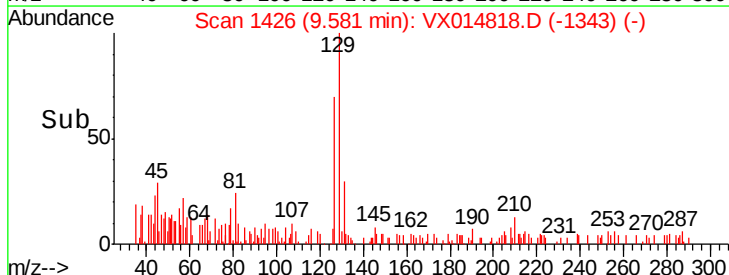
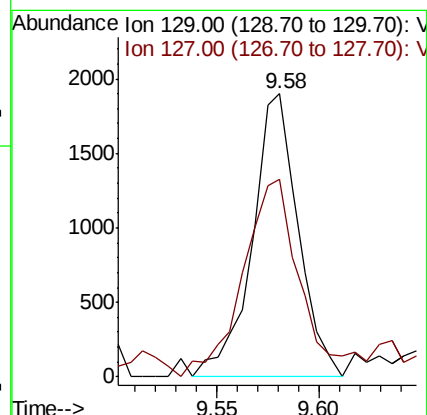
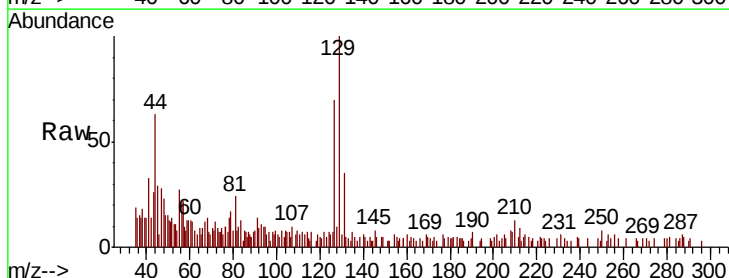
Acq: 05 Feb 2020 13:35

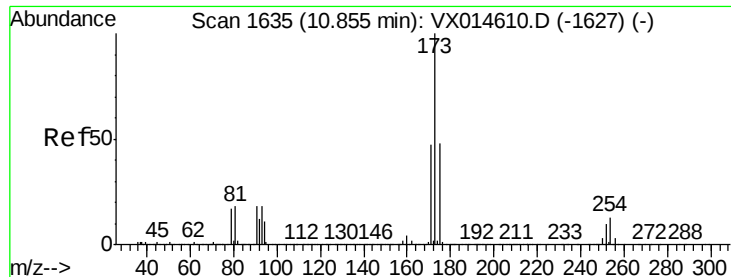
Tgt Ion: 129 Resp: 2983

Ion Ratio Lower Upper

129 100

127 84.9 39.1 117.5





#56

Bromoform

Concen: 3.483 ug/l

RT: 10.85 min Scan# 1635

Delta R.T. 0.00 min

Lab File: VX014818.D

Acq: 05 Feb 2020 13:35

Instrument :

MSVOA_X

ClientSampled :

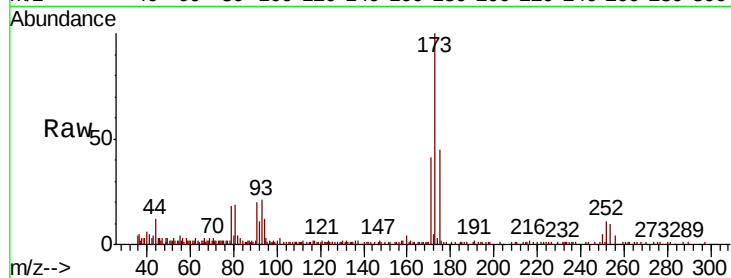
Tot Ion:173 Resp: 11052

Ion Ratio Lower Upper

173 100

175 47.2 39.5 59.3

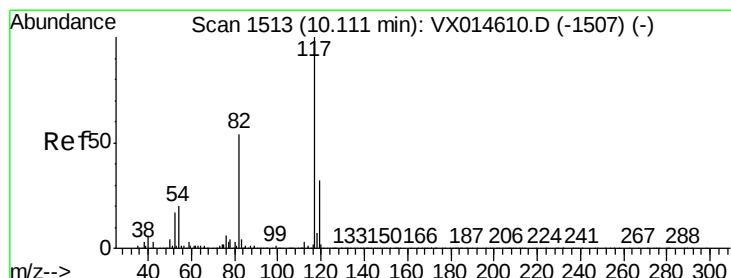
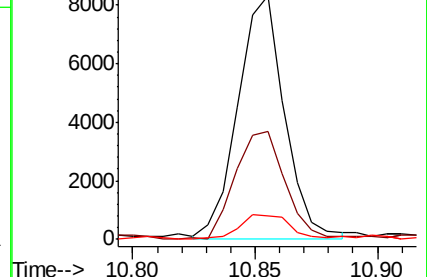
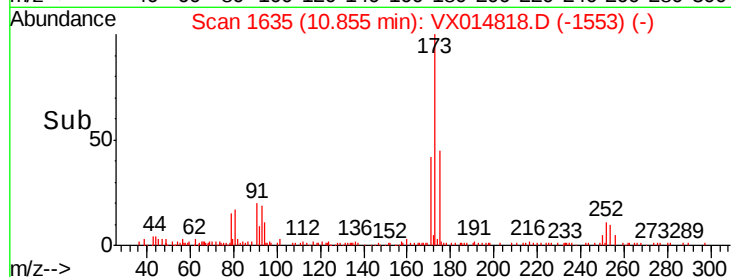
254 11.1 8.2 12.4



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# 1513

Delta R.T. 0.00 min

Lab File: VX014818.D

Acq: 05 Feb 2020 13:35

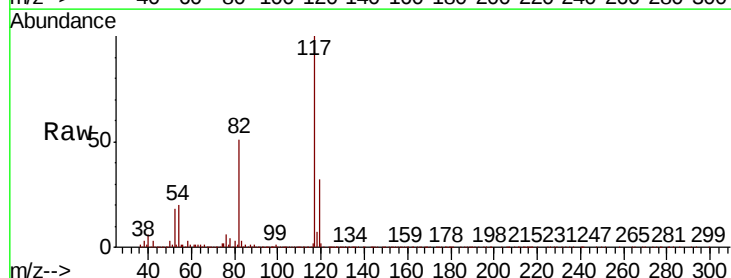
Tgt Ion:117 Resp: 323896

Ion Ratio Lower Upper

117 100

82 53.3 43.8 65.6

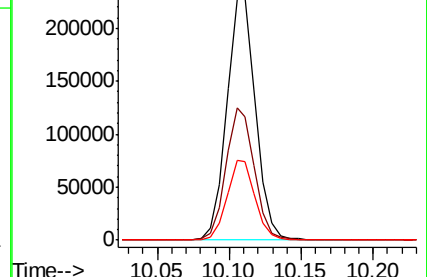
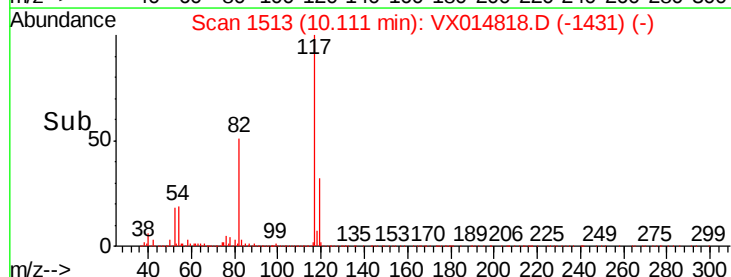
119 31.7 25.8 38.6

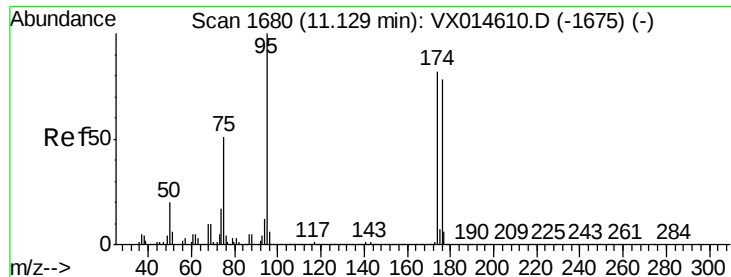


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

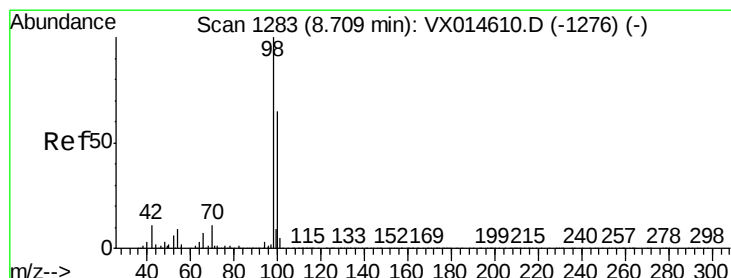
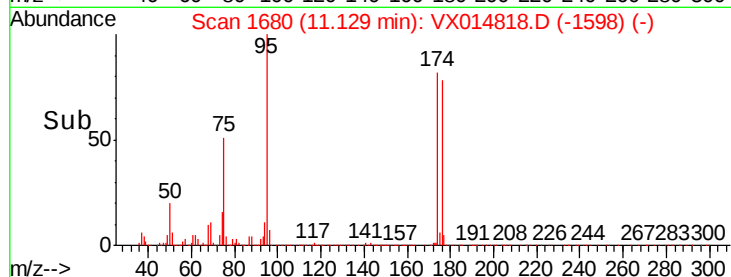
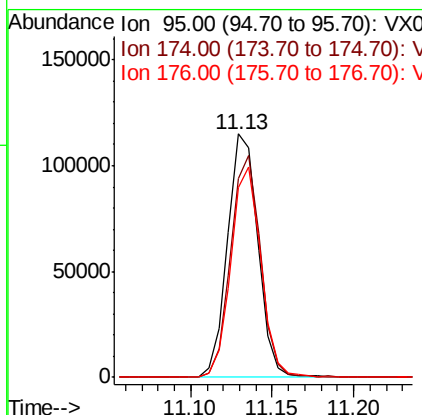
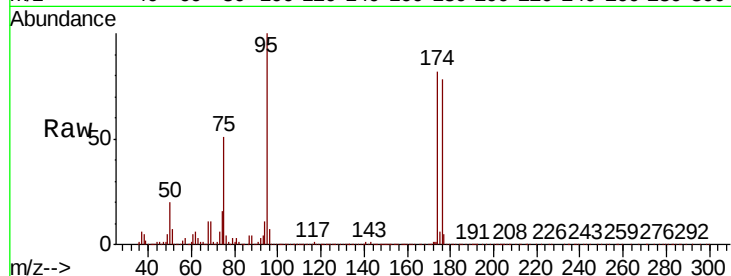




#60
4-Bromofluorobenzene
Concen: 28.747 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014818.D
Acq: 05 Feb 2020 13:35

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
95	100		
174	89.6	70.2	105.2
176	85.6	68.3	102.5



#63
Toluene-d8
Concen: 28.939 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014818.D
Acq: 05 Feb 2020 13:35

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.2	78.2

