

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020520\
 Data File : VX014826.D
 Acq On : 05 Feb 2020 16:41
 Operator : JC/SP
 Sample : L1377-04RE
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 06 03:07:58 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	5.00	128	63775	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	349658	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	309638	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	141061	31.47	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.90%
60) 4-Bromofluorobenzene	11.13	95	137033	27.66	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.20%
63) Toluene-d8	8.71	98	412788	29.51	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.37%

Target Compounds

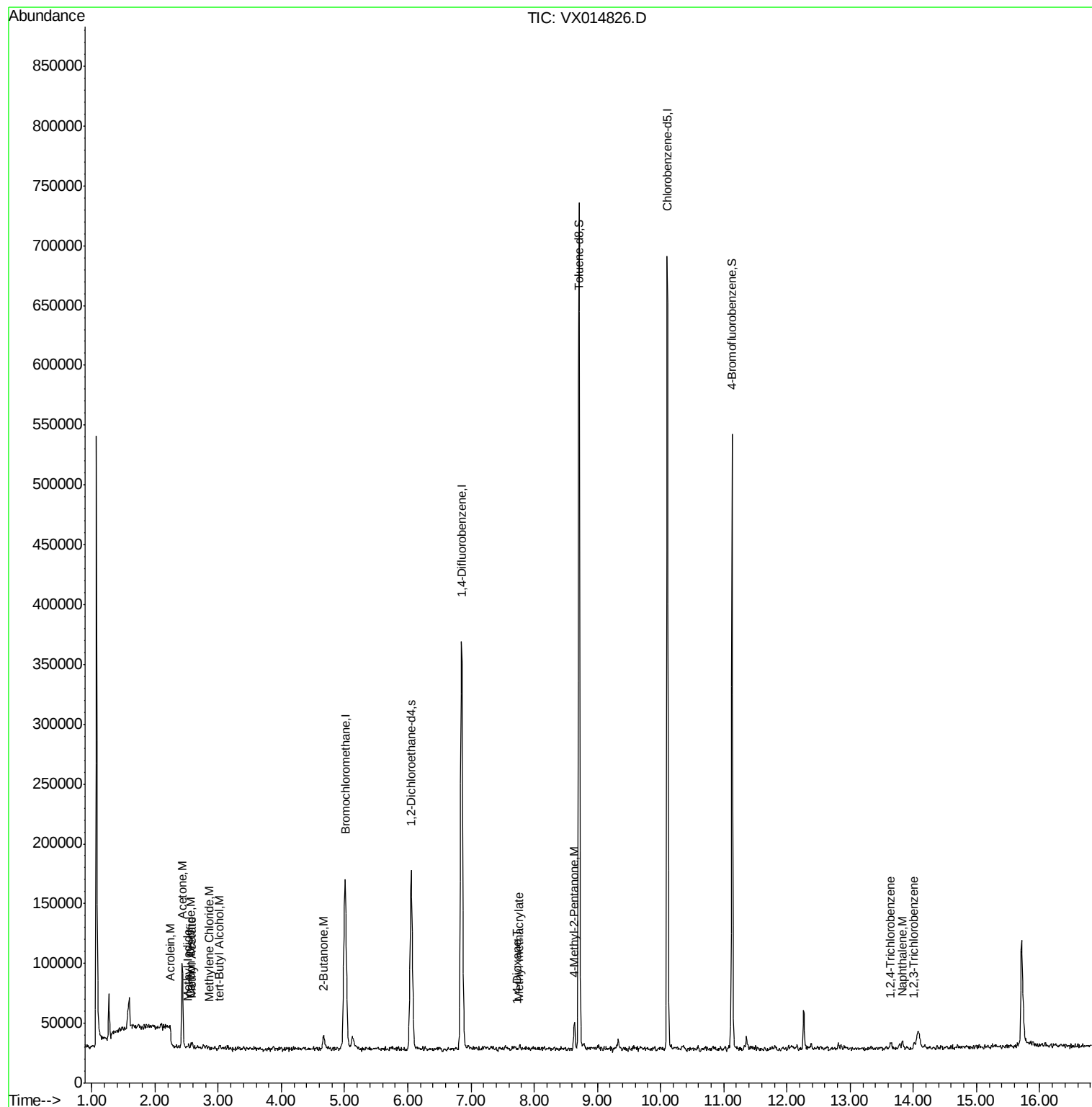
					Ovalue
11) Methyl Iodide	2.51	142	2022	0.427 ug/l #	70
12) Methyl Acetate	2.59	43	1314	0.206 ug/l	96
13) Acrolein	2.24	56	368	0.549 ug/l	88
15) Acetone	2.43	58	22647	30.956 ug/l	83
16) Carbon Disulfide	2.57	76	2595	0.268 ug/l #	83
18) Methylene Chloride	2.85	84	1736	0.420 ug/l #	70
23) tert-Butyl Alcohol	3.02	59	3138	3.477 ug/l #	91
30) 2-Butanone	4.66	43	9503	2.925 ug/l #	52
45) 1,4-Dioxane	7.73	88	66	0.696 ug/l #	1
46) Methyl methacrylate	7.76	41	1296	0.278 ug/l	70
58) 4-Methyl-2-Pentanone	8.64	43	15206	2.608 ug/l	95
89) 1,2,4-Trichlorobenzene	13.63	180	1561	0.290 ug/l #	68
91) Naphthalene	13.83	128	4598	0.283 ug/l #	88
92) 1,2,3-Trichlorobenzene	14.01	180	1371	0.250 ug/l	89

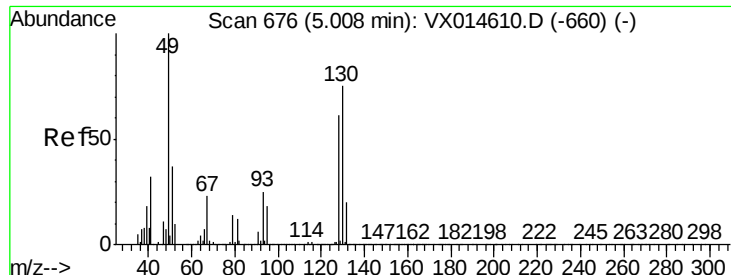
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX020520\
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Misc : 5.0mL/MSVOA X/WATER
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Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Feb 06 03:07:58 2020
Quant Method : Z:\V0ASRV\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

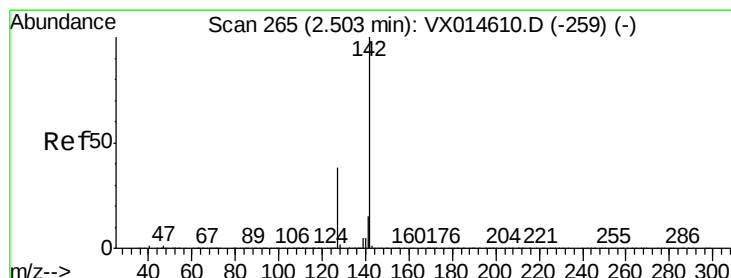
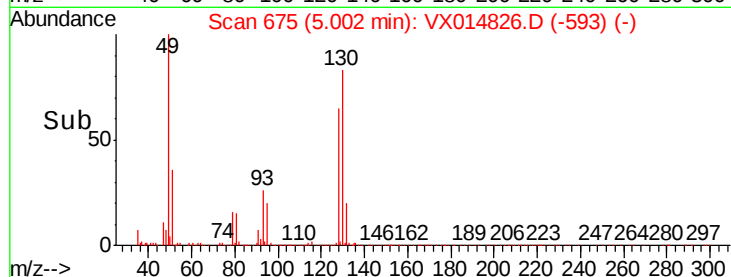
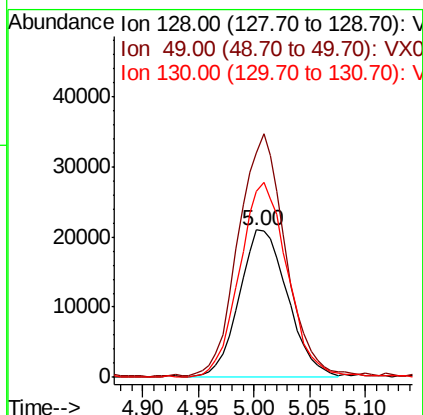
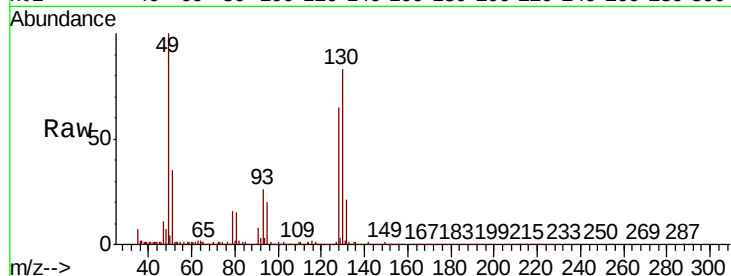




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 5.00 min Scan# 675
Delta R.T. 0.00 min
Lab File: VX014826.D
Acq: 05 Feb 2020 16:41

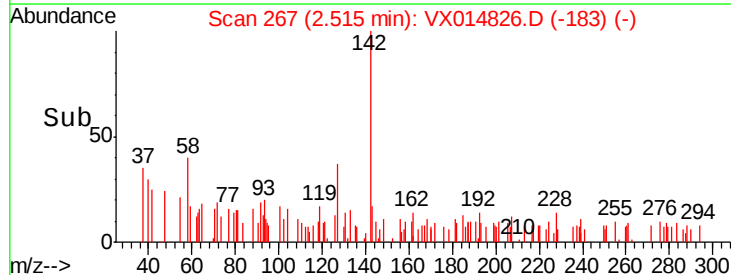
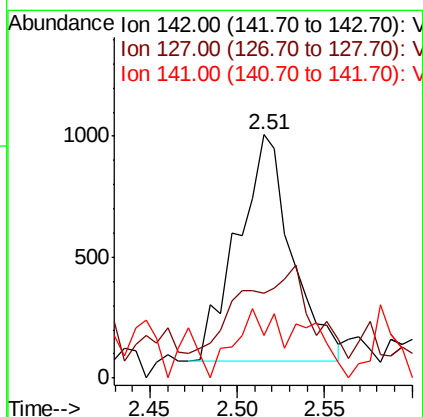
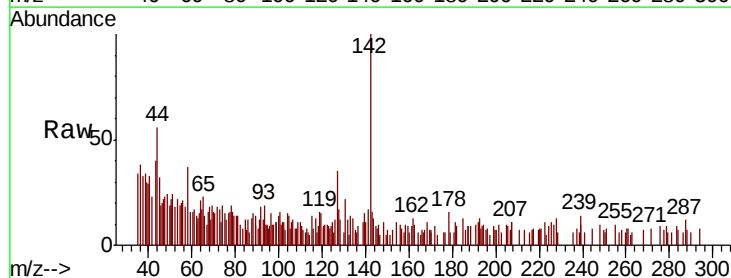
Instrument :
MSVOA_X
ClientSampleId :

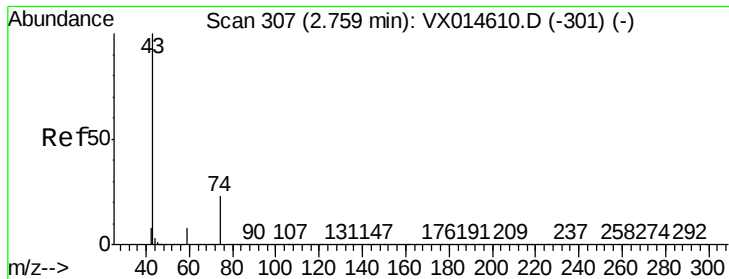
Tot Ion	Ratio	Lower	Upper
128	100		
49	161.4	0.0	405.0
130	130.9	0.0	321.5



#11
Methyl Iodide
Concen: 0.427 ug/l
RT: 2.51 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX014826.D
Acq: 05 Feb 2020 16:41

Tgt Ion	Ratio	Lower	Upper
142	100		
127	19.6	19.5	58.5
141	4.2	7.0	20.9#

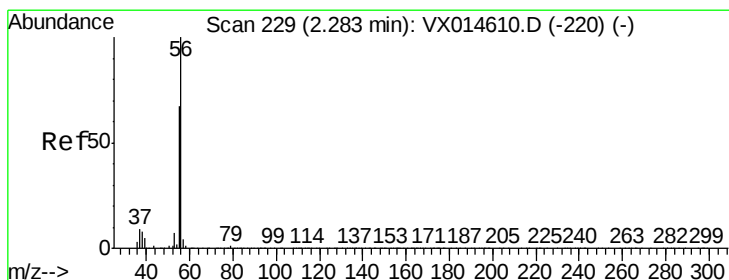
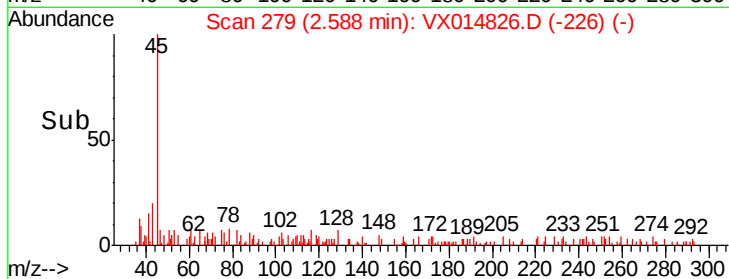
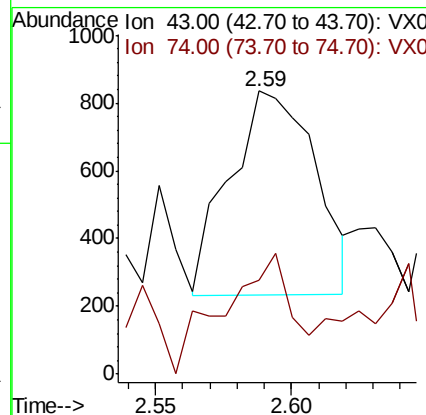
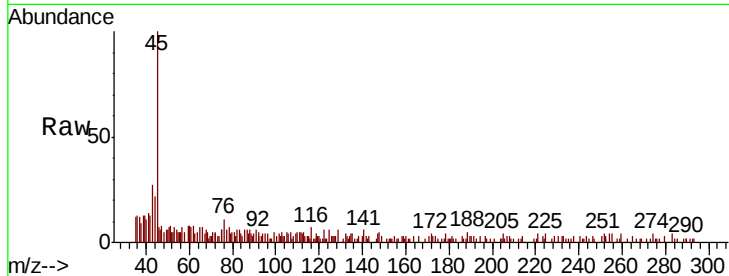




#12
Methvl Acetate
Concen: 0.206 ug/l
RT: 2.59 min Scan# 279
Delta R.T. -0.18 min
Lab File: VX014826.D
Acq: 05 Feb 2020 16:41

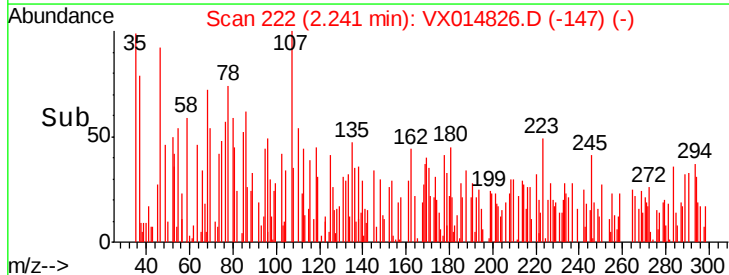
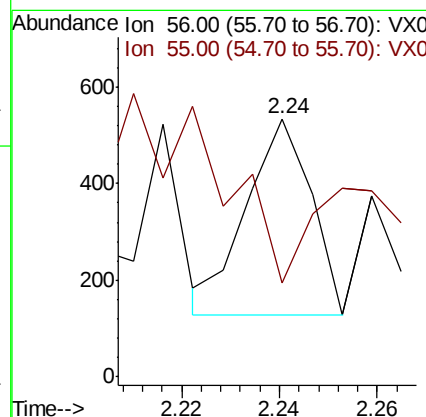
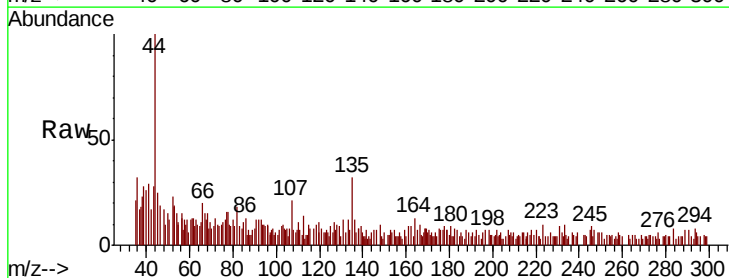
Instrument :
MSVOA_X
ClientSampled :

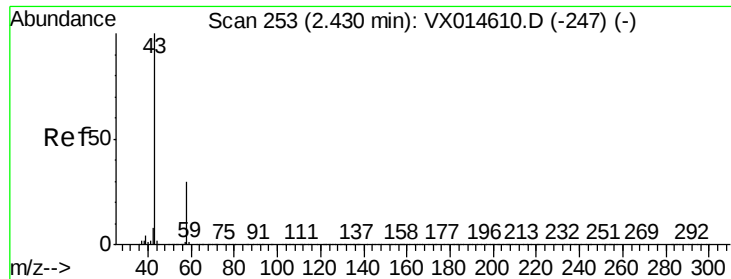
Tot Ion: 43 Resp: 1314
Ion Ratio Lower Upper
43 100
74 21.1 18.5 27.7



#13
Acrolein
Concen: 0.549 ug/l
RT: 2.24 min Scan# 222
Delta R.T. -0.04 min
Lab File: VX014826.D
Acq: 05 Feb 2020 16:41

Tgt Ion: 56 Resp: 368
Ion Ratio Lower Upper
56 100
55 78.0 54.9 82.3

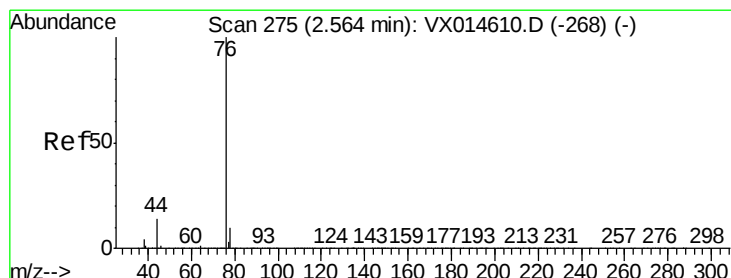
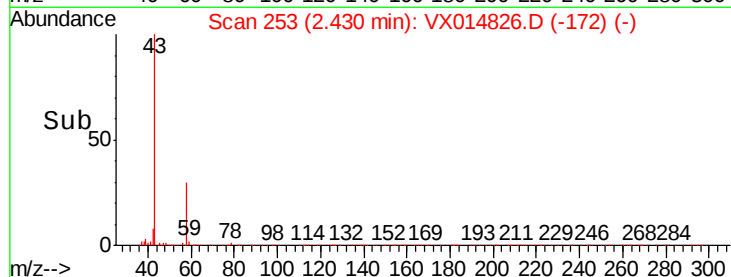
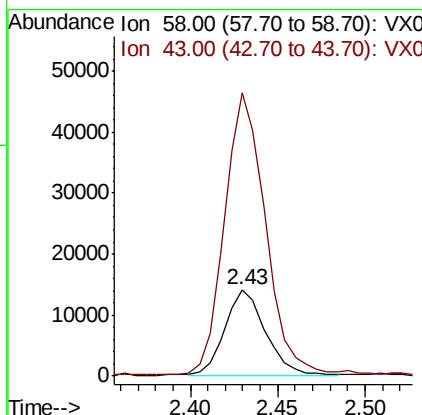
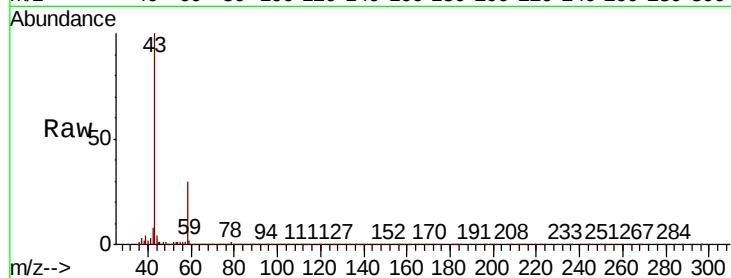




#15
Acetone
Concen: 30.956 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014826.D
Acq: 05 Feb 2020 16:41

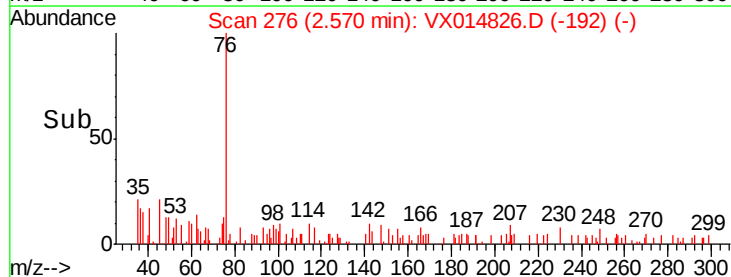
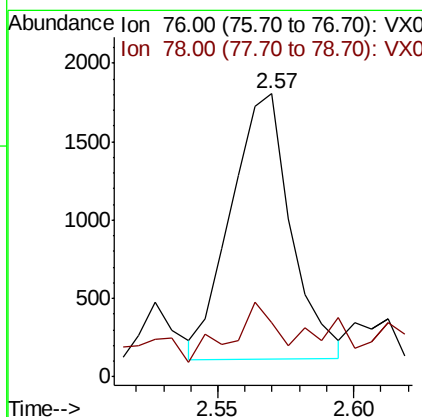
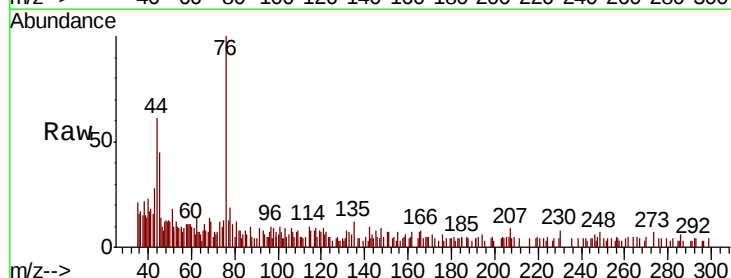
Instrument :
MSVOA_X
ClientSampleId :

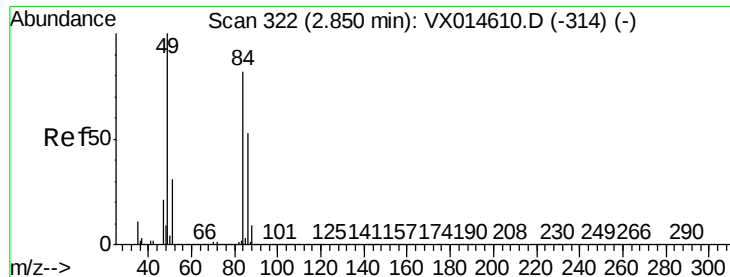
Tot Ion: 58 Resp: 22647
Ion Ratio Lower Upper
58 100
43 329.1 236.3 354.5



#16
Carbon Disulfide
Concen: 0.268 ug/l
RT: 2.57 min Scan# 276
Delta R.T. 0.01 min
Lab File: VX014826.D
Acq: 05 Feb 2020 16:41

Tgt Ion: 76 Resp: 2595
Ion Ratio Lower Upper
76 100
78 16.0 7.8 11.8#





#18

Methylene Chloride

Concen: 0.420 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.01 min

Lab File: VX014826.D

Acq: 05 Feb 2020 16:41

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 84 Resp: 1736

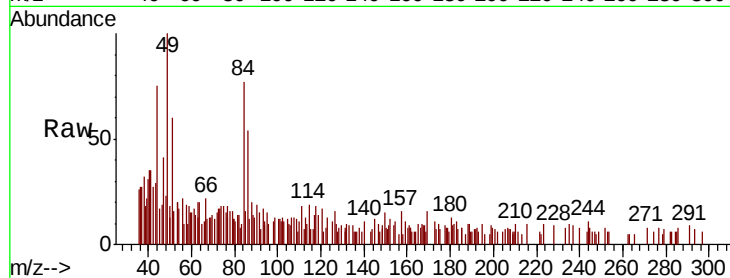
Ion Ratio Lower Upper

84 100

49 95.1 102.2 153.2#

51 17.4 31.4 47.0#

86 39.5 50.8 76.2#

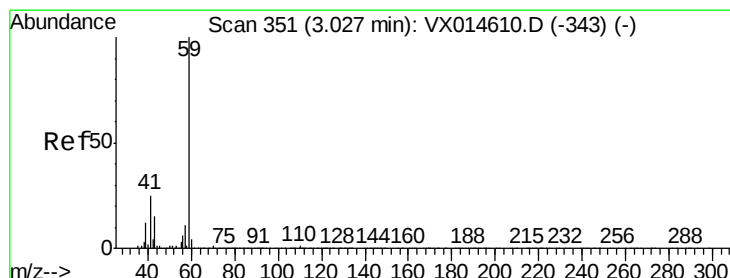
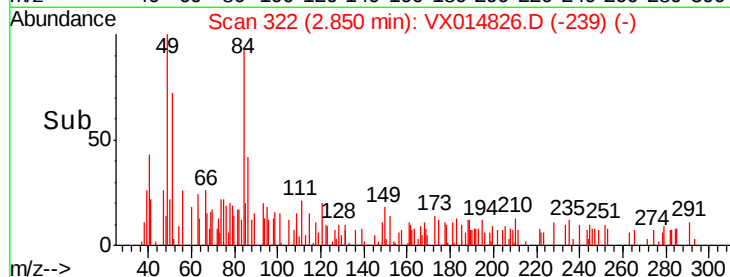
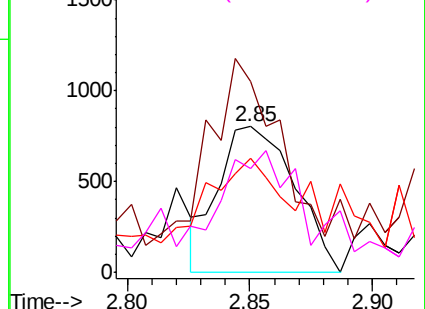


Abundance Ion 84.00 (83.70 to 84.70): VX0

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: 3.477 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.02 min

Lab File: VX014826.D

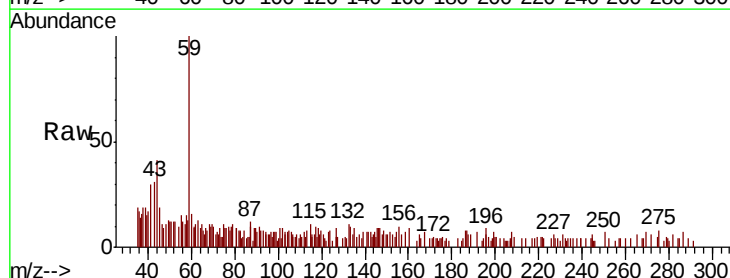
Acq: 05 Feb 2020 16:41

Tgt Ion: 59 Resp: 3138

Ion Ratio Lower Upper

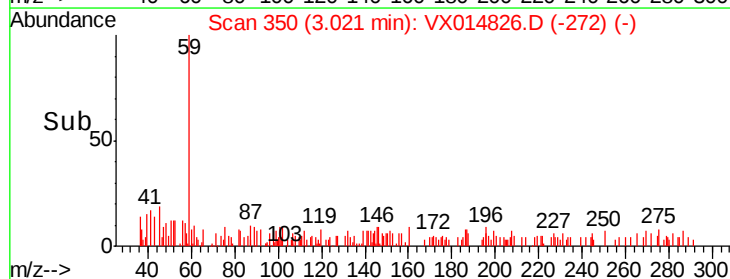
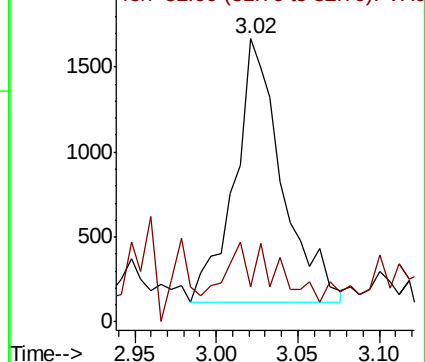
59 100

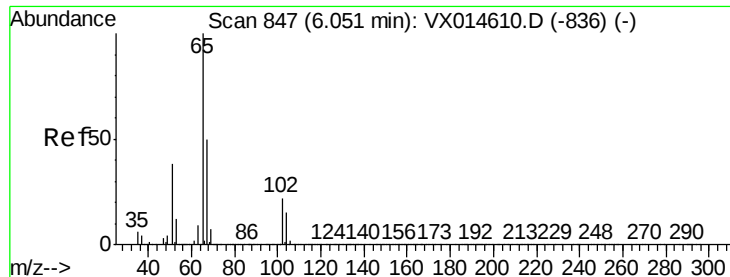
52 11.8 0.2 0.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#27

1,2-Dichloroethane-d4

Concen: 31.468 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014826.D

Acq: 05 Feb 2020 16:41

Instrument :

MSVOA_X

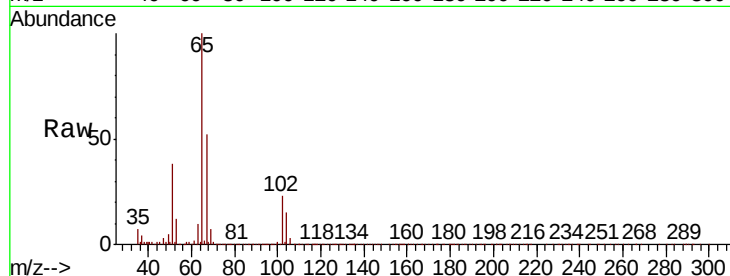
ClientSampleId :

Tot Ion: 65 Resp: 141061

Ion Ratio Lower Upper

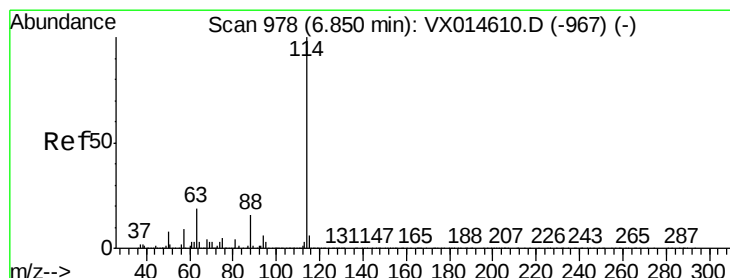
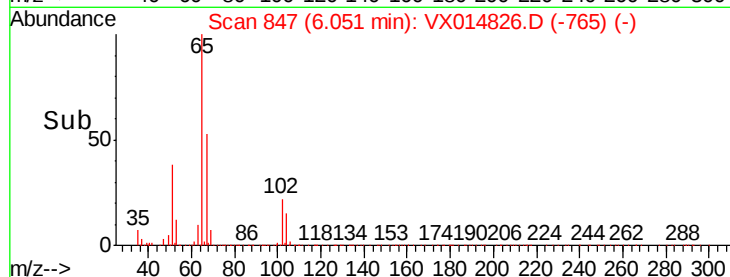
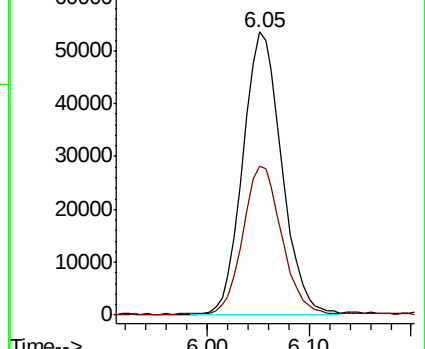
65 100

67 52.0 43.1 64.7



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014826.D

Acq: 05 Feb 2020 16:41

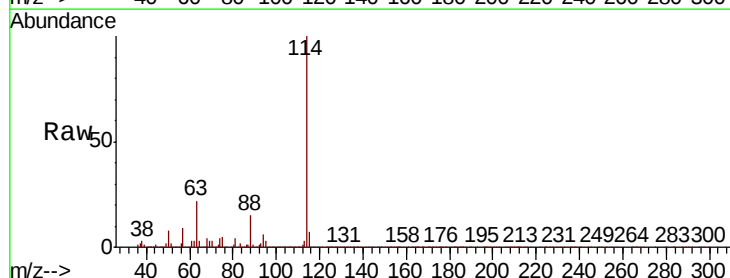
Tgt Ion: 114 Resp: 349658

Ion Ratio Lower Upper

114 100

63 20.3 16.1 24.1

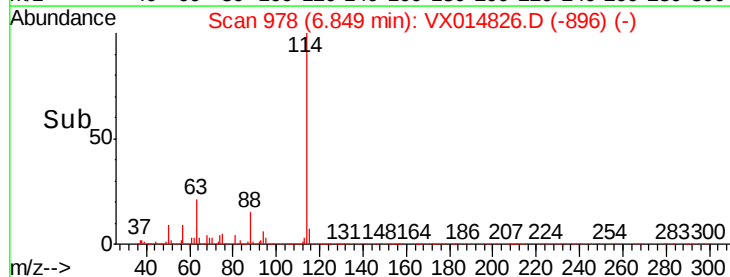
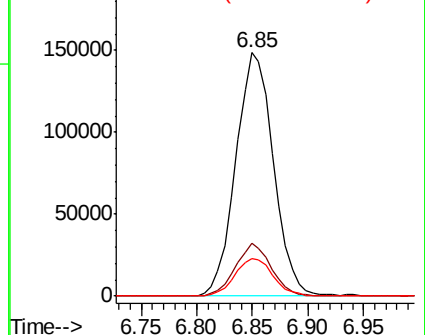
88 15.7 12.5 18.7

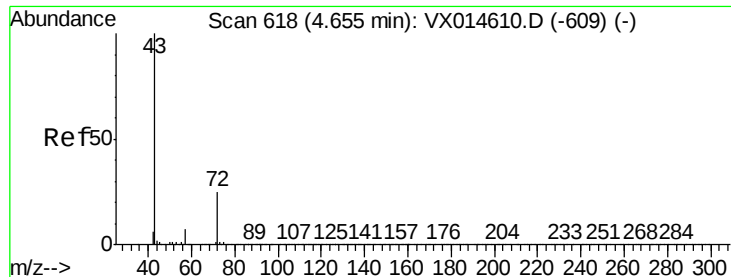


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

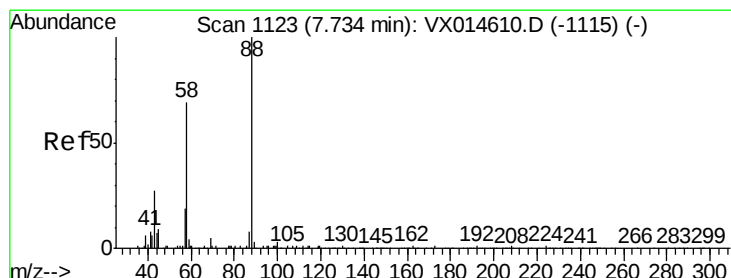
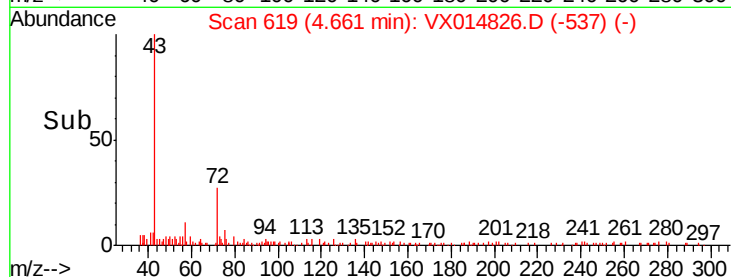
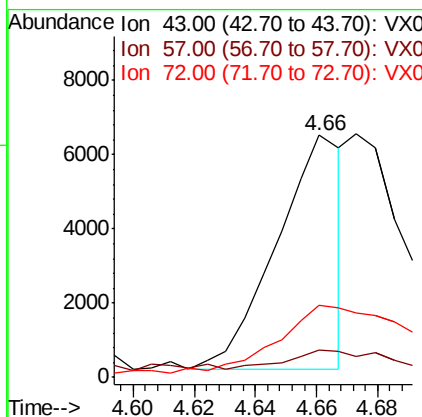
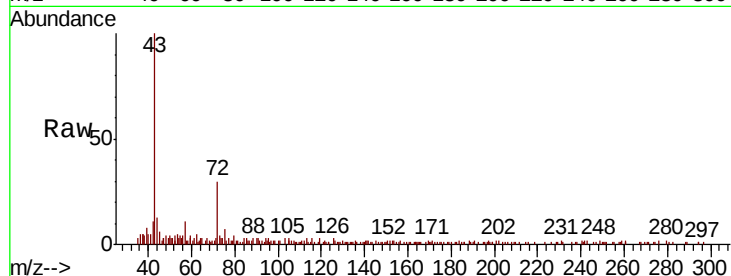




#30
2-Butanone
Concen: 2.925 ug/l
RT: 4.66 min Scan# 619
Delta R.T. 0.00 min
Lab File: VX014826.D
Acq: 05 Feb 2020 16:41

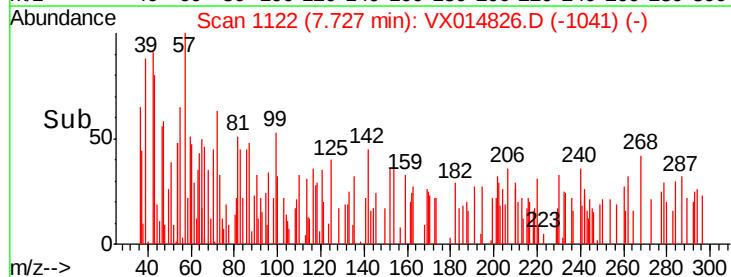
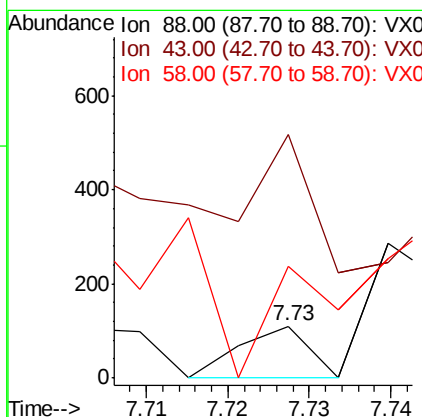
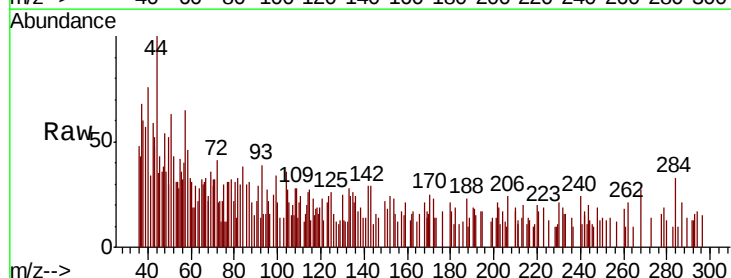
Instrument :
MSVOA_X
ClientSampleId :

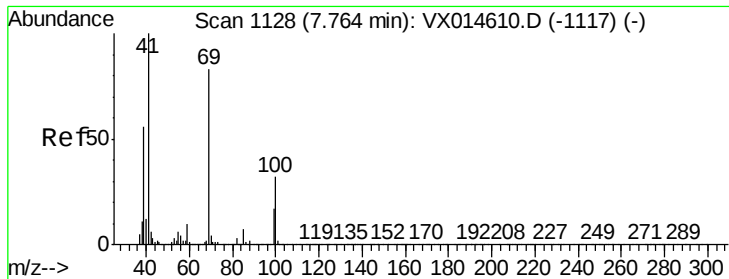
Tot Ion: 43 Resp: 9503
Ion Ratio Lower Upper
43 100
57 8.3 6.2 9.2
72 56.4 20.3 30.5#



#45
1,4-Dioxane
Concen: 0.696 ug/l
RT: 7.73 min Scan# 1122
Delta R.T. -0.01 min
Lab File: VX014826.D
Acq: 05 Feb 2020 16:41

Tgt Ion: 88 Resp: 66
Ion Ratio Lower Upper
88 100
43 315.2 25.4 38.2#
58 212.1 56.5 84.7#

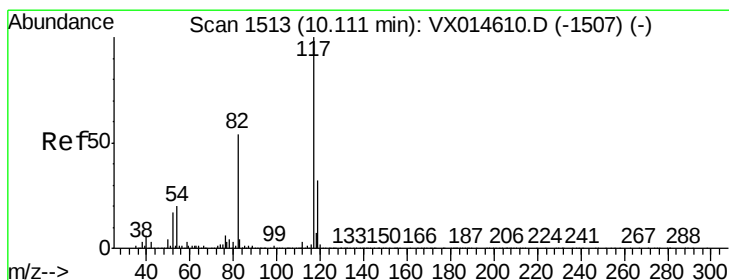
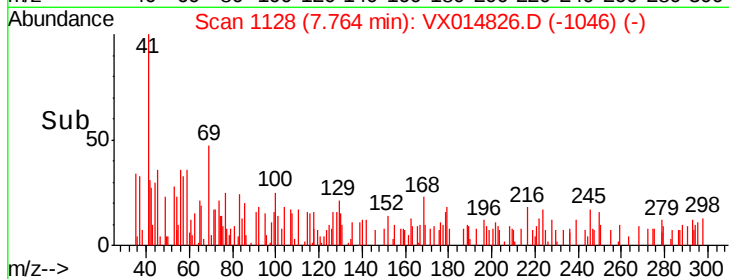
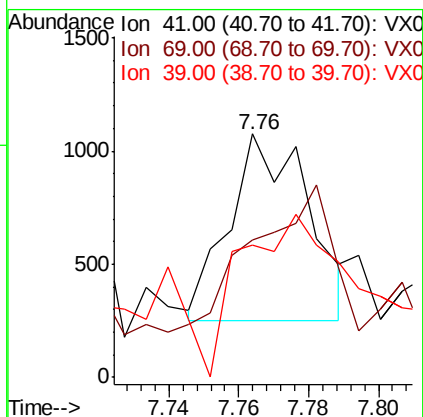
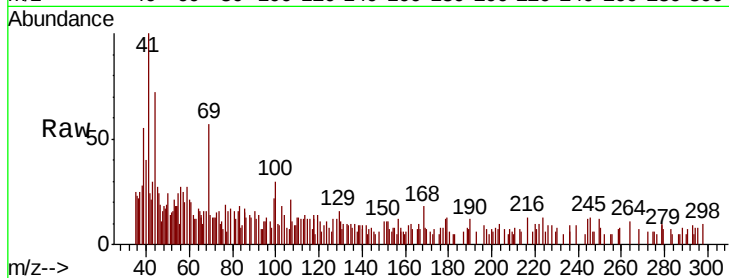




#46
Methvl methacrylate
Concen: 0.278 ug/l
RT: 7.76 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VX014826.D
Acq: 05 Feb 2020 16:41

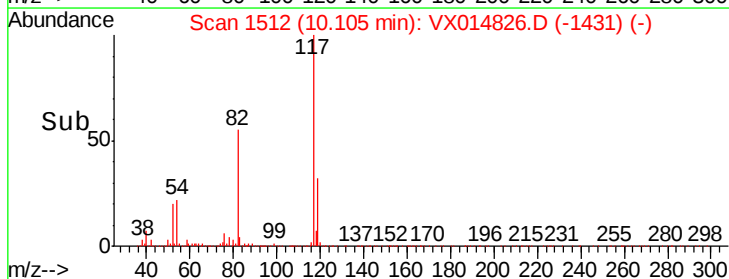
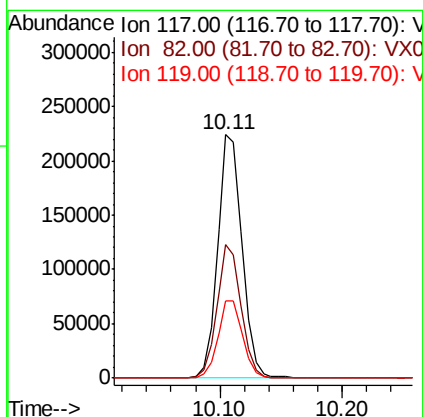
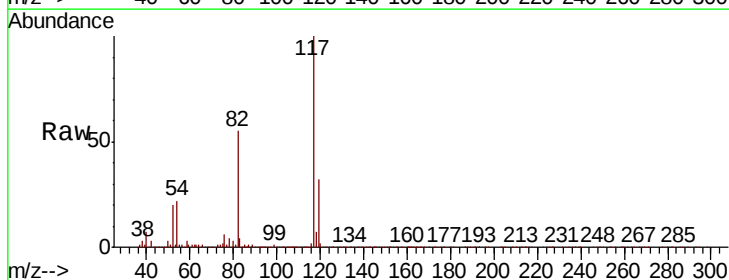
Instrument :
MSVOA_X
ClientSampleId :

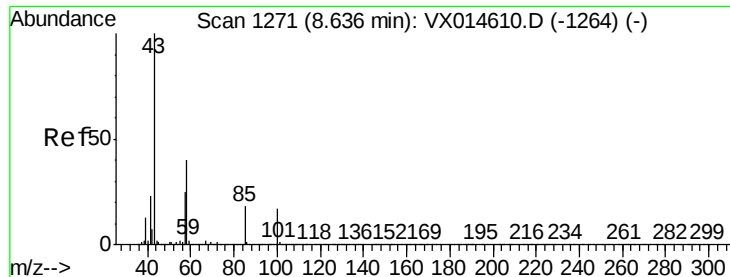
Tot Ion: 41 Resp: 1296
Ion Ratio Lower Upper
41 100
69 47.9 40.6 122.0
39 42.1 27.8 83.3



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014826.D
Acq: 05 Feb 2020 16:41

Tgt Ion: 117 Resp: 309638
Ion Ratio Lower Upper
117 100
82 54.4 43.8 65.6
119 32.4 25.8 38.6

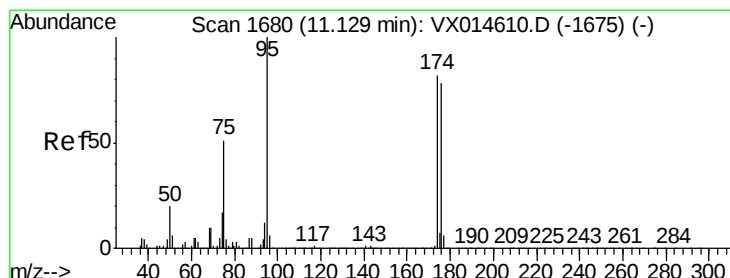
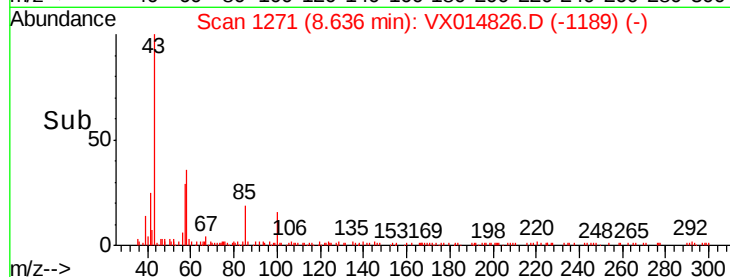
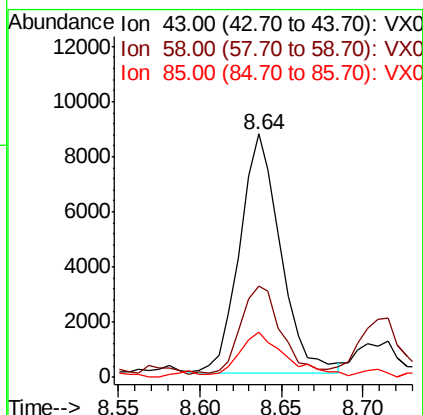
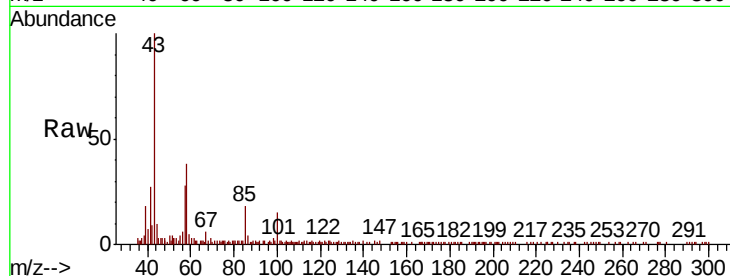




#58
4-Methyl-2-Pentanone
Concen: 2.608 ug/l
RT: 8.64 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VX014826.D
Acq: 05 Feb 2020 16:41

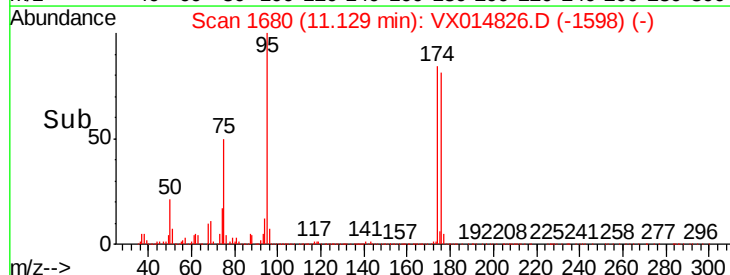
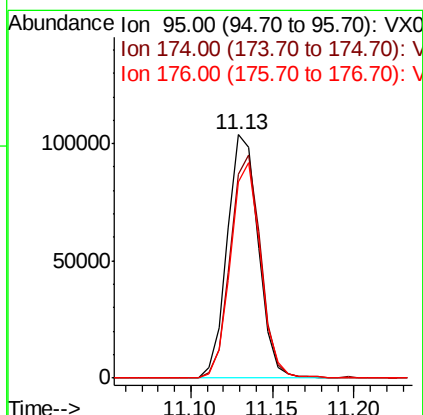
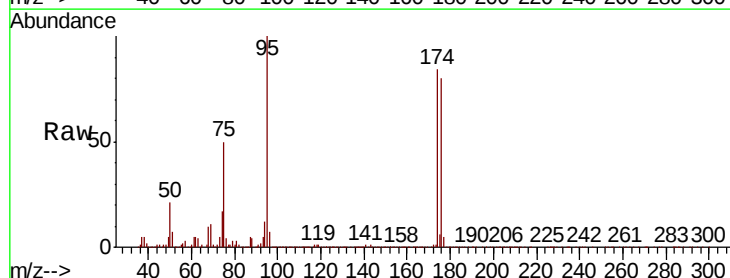
Instrument :
MSVOA_X
ClientSampleId :

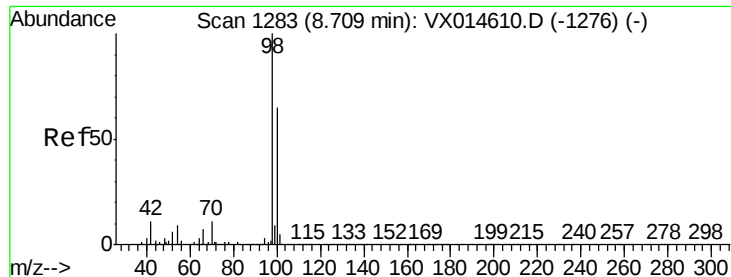
Tot Ion:	43	Resp:	15206
Ion	Ratio	Lower	Upper
43	100		
58	36.0	31.2	46.8
85	19.5	14.2	21.2



#60
4-Bromofluorobenzene
Concen: 27.656 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014826.D
Acq: 05 Feb 2020 16:41

Tgt Ion:	95	Resp:	137033
Ion	Ratio	Lower	Upper
95	100		
174	89.6	70.2	105.2
176	86.5	68.3	102.5





#63

Toluene-d8

Concen: 29.514 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014826.D

Acq: 05 Feb 2020 16:41

Instrument :

MSVOA_X

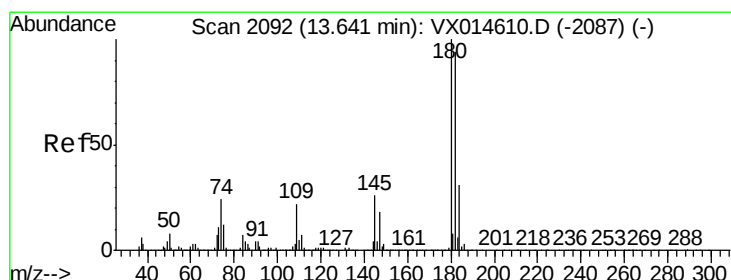
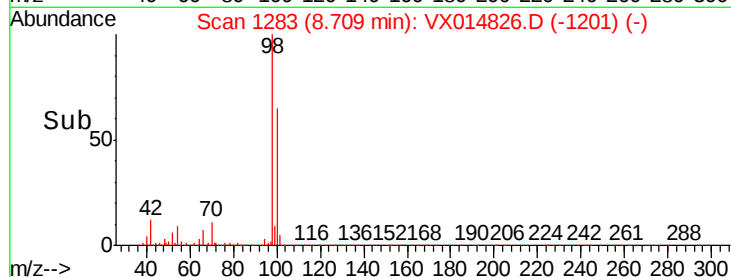
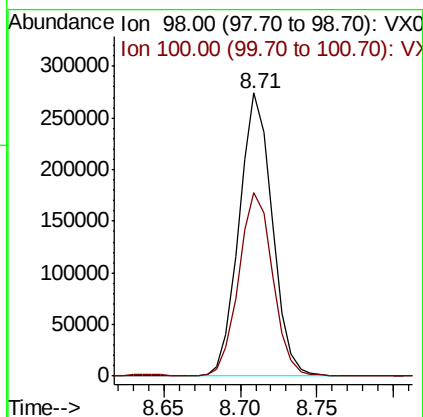
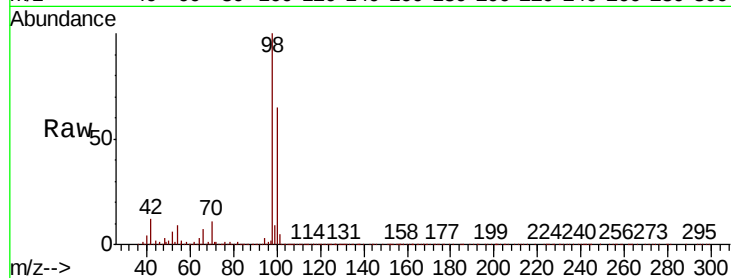
ClientSampleId :

Tot Ion: 98 Resp: 412788

Ion Ratio Lower Upper

98 100

100 66.4 52.2 78.2



#89

1,2,4-Trichlorobenzene

Concen: 0.290 ug/l

RT: 13.63 min Scan# 2091

Delta R.T. -0.01 min

Lab File: VX014826.D

Acq: 05 Feb 2020 16:41

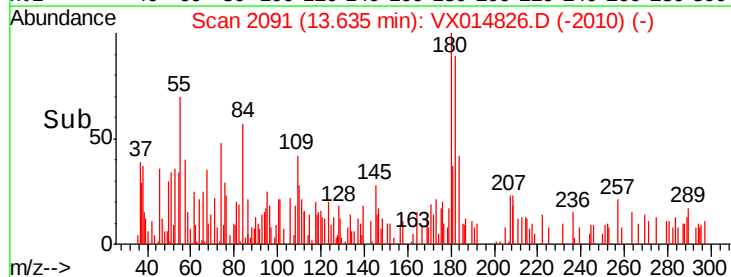
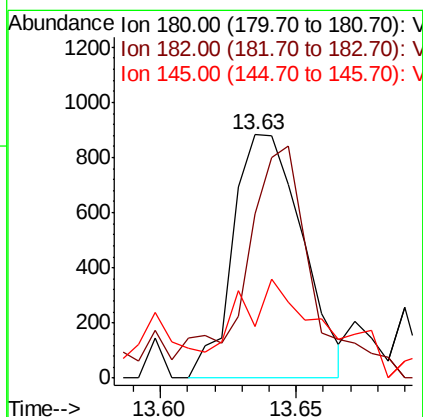
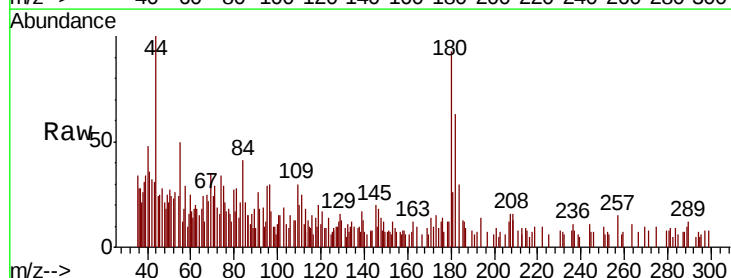
Tgt Ion: 180 Resp: 1561

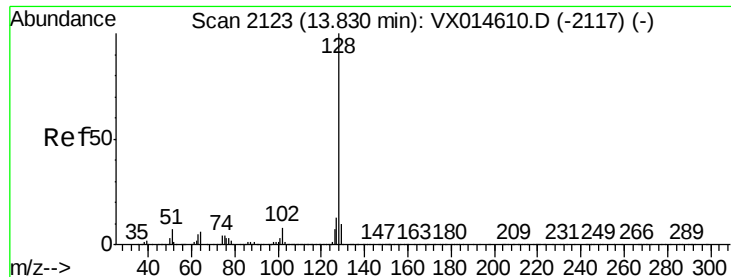
Ion Ratio Lower Upper

180 100

182 55.5 76.4 114.6#

145 26.1 21.9 32.9





#91

Naphthalene

Concen: 0.283 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX014826.D

Acq: 05 Feb 2020 16:41

Instrument :

MSVOA_X

ClientSampleId :

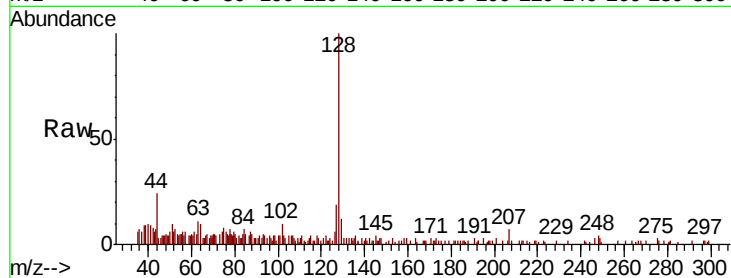
Tot Ion:128 Resp: 4598

Ion Ratio Lower Upper

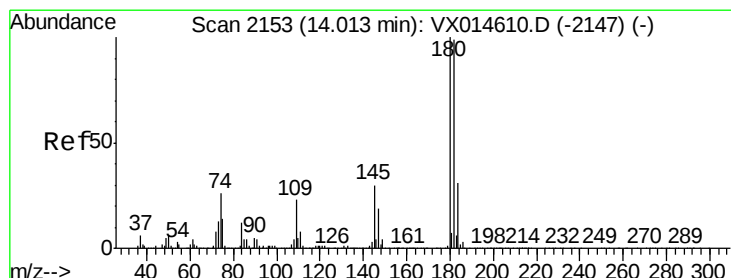
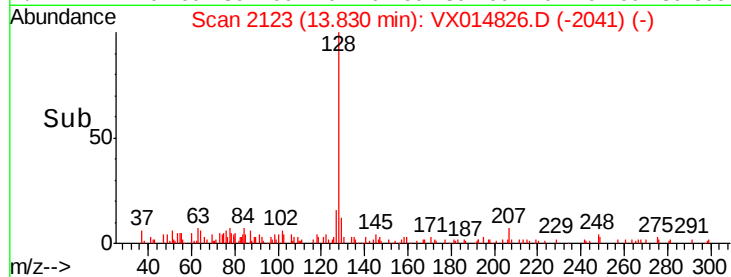
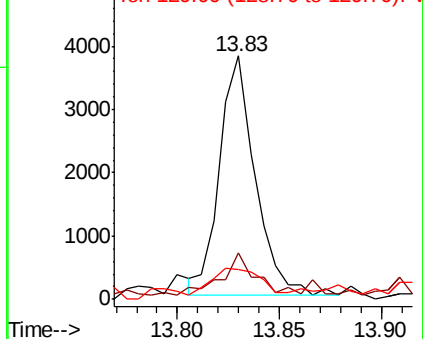
128 100

127 16.6 10.4 15.6#

129 16.7 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



#92

1,2,3-Trichlorobenzene

Concen: 0.250 ug/l

RT: 14.01 min Scan# 2153

Delta R.T. 0.00 min

Lab File: VX014826.D

Acq: 05 Feb 2020 16:41

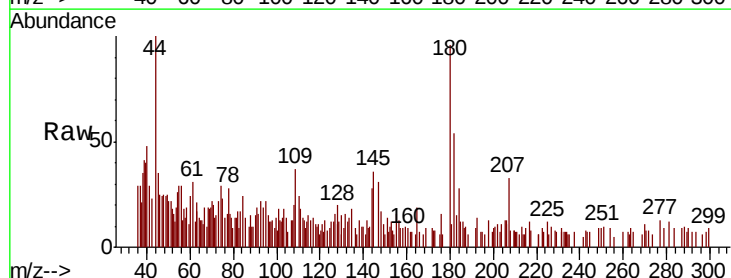
Tgt Ion:180 Resp: 1371

Ion Ratio Lower Upper

180 100

182 90.3 0.0 192.8

145 43.7 0.0 60.0



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

