

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010920\
 Data File : VX014494.D
 Acq On : 09 Jan 2020 13:16
 Operator : JC/SP
 Sample : L1044-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 09 14:37:12 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 13 01:35:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	79047	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	434151	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	392593	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	165030	29.15	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.17%
60) 4-Bromofluorobenzene	11.13	95	184476	29.10	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.00%
63) Toluene-d8	8.71	98	524010	29.86	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.53%

Target Compounds

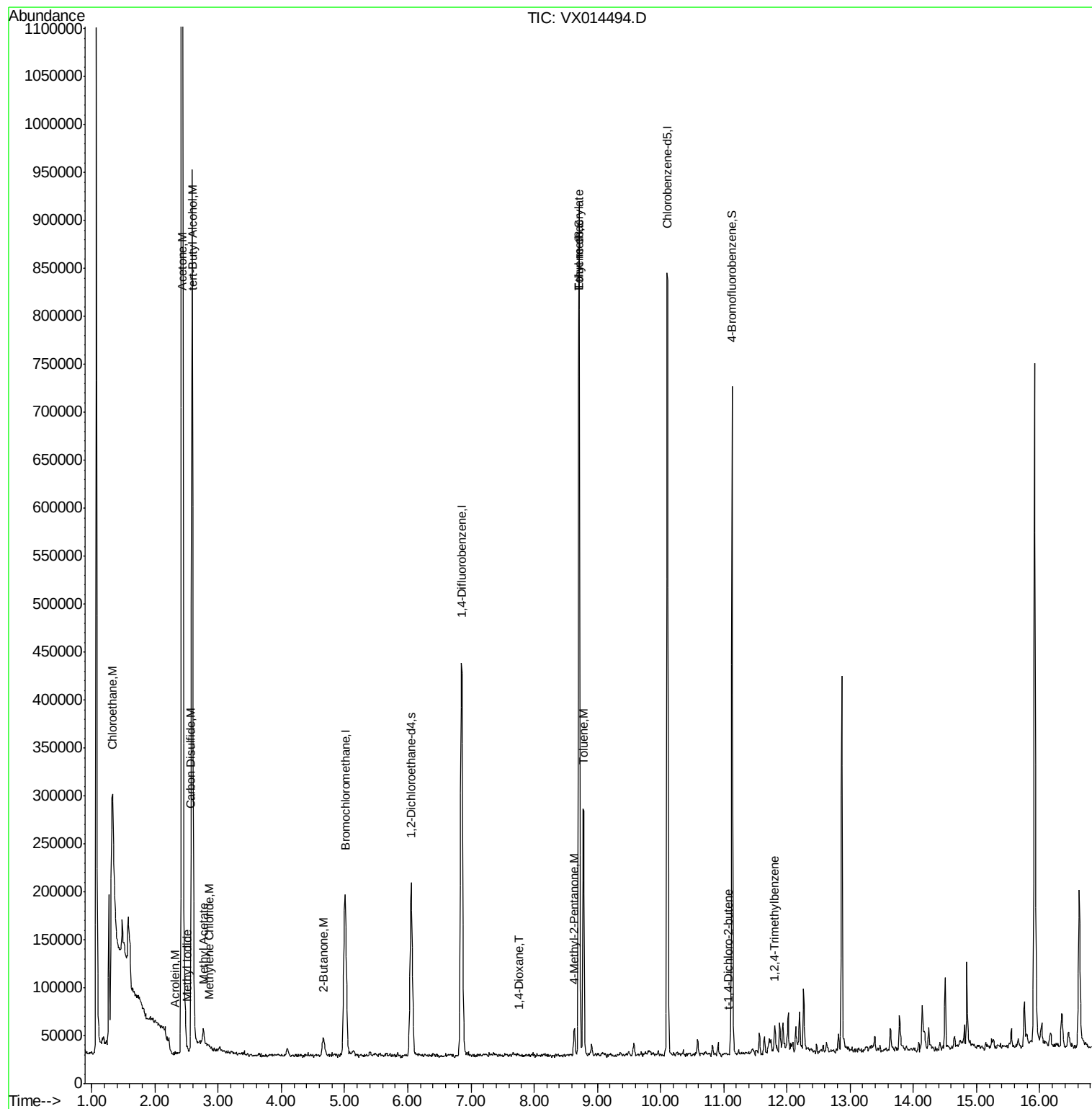
					Ovalue	
6) Chloroethane	1.33	64	638268	179.110	ug/l #	51
11) Methyl Iodide	2.51	142	1487	0.261	ug/l #	53
12) Methyl Acetate	2.76	43	18459	2.694	ug/l	93
13) Acrolein	2.32	56	190	0.229	ug/l	85
15) Acetone	2.43	58	1070865	1360.777	ug/l	92
16) Carbon Disulfide	2.56	76	14019	1.169	ug/l #	93
18) Methylene Chloride	2.84	84	1608	0.296	ug/l #	77
23) tert-Butyl Alcohol	2.59	59	40606	38.646	ug/l	100
30) 2-Butanone	4.66	43	35132	9.504	ug/l	93
45) 1,4-Dioxane	7.75	88	300	2.697	ug/l #	23
51) Ethyl methacrylate	8.72	69	1856	0.233	ug/l	91
58) 4-Methyl-2-Pentanone	8.64	43	20032	2.727	ug/l	95
62) Toluene	8.78	91	173478	8.308	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	473	0.203	ug/l #	29
80) 1,2,4-Trimethylbenzene	11.81	105	7719	0.407	ug/l	53

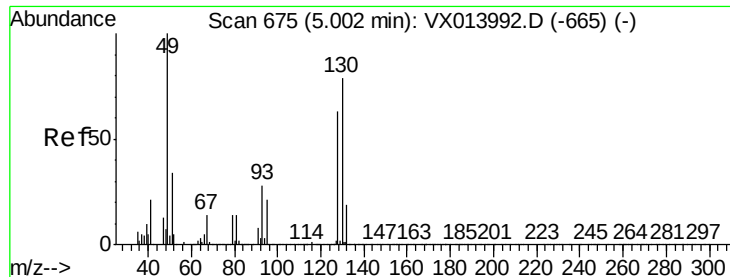
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
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Quant Time: Jan 09 14:37:12 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X121219W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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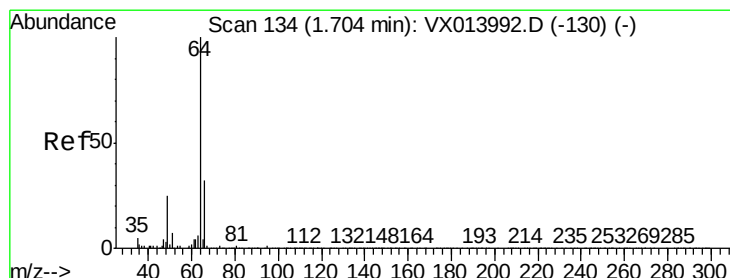
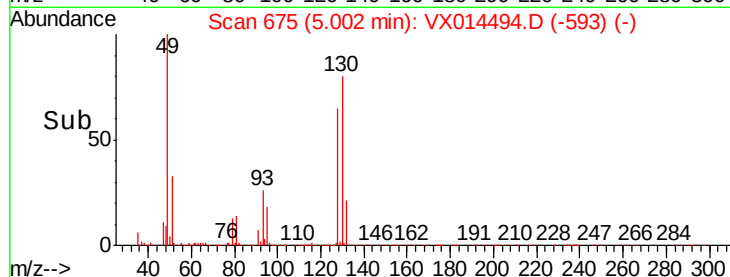
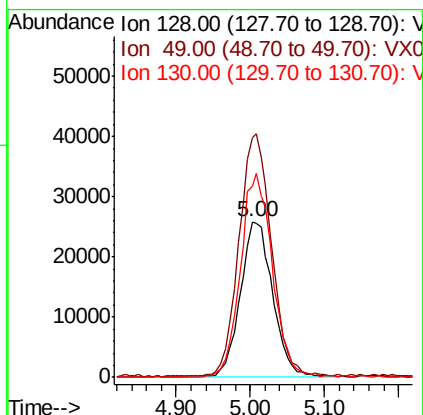
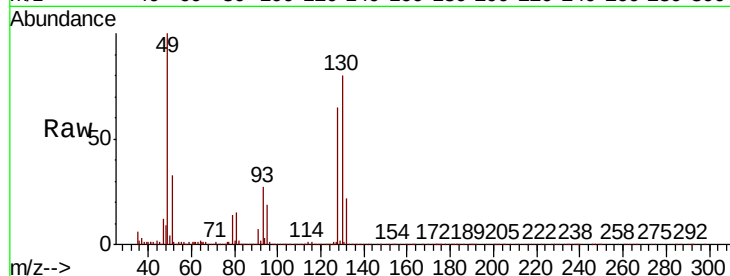




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 5.00 min Scan# 675
Delta R.T. 0.00 min
Lab File: VX014494.D
Acq: 09 Jan 2020 13:16

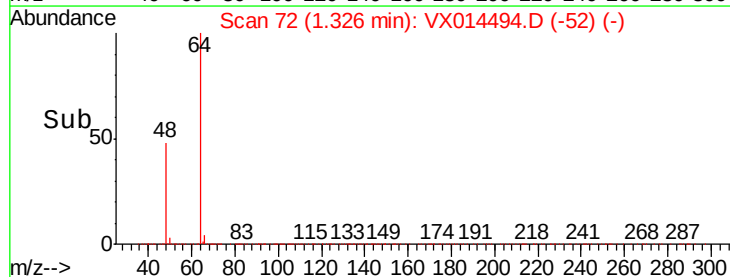
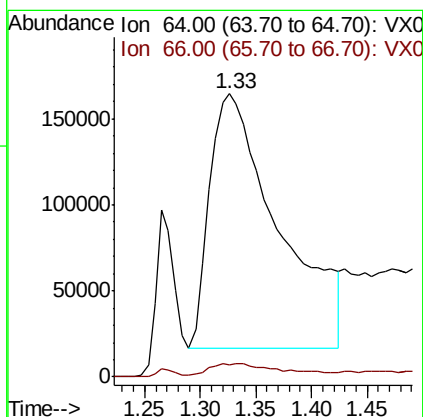
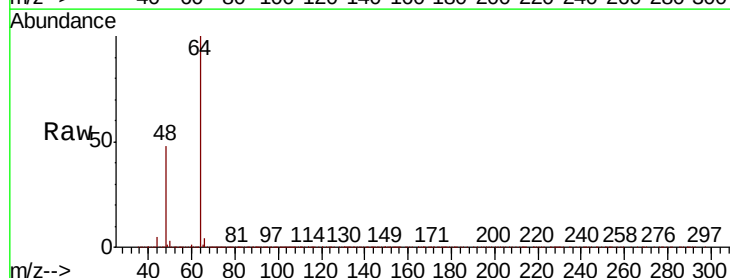
Instrument :
MSVOA_X
ClientSampled :

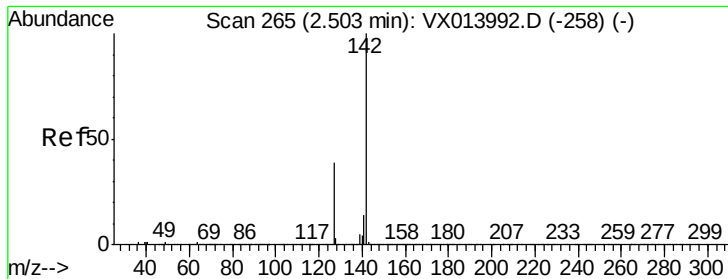
Tot Ion:128 Resp: 79047
Ion Ratio Lower Upper
128 100
49 154.4 0.0 405.0
130 127.9 0.0 321.5



#6
Chloroethane
Concen: 179.110 ug/l
RT: 1.33 min Scan# 72
Delta R.T. -0.38 min
Lab File: VX014494.D
Acq: 09 Jan 2020 13:16

Tgt Ion: 64 Resp: 638268
Ion Ratio Lower Upper
64 100
66 4.3 25.2 37.8#

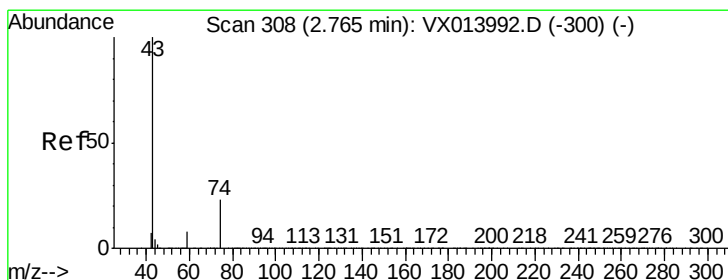
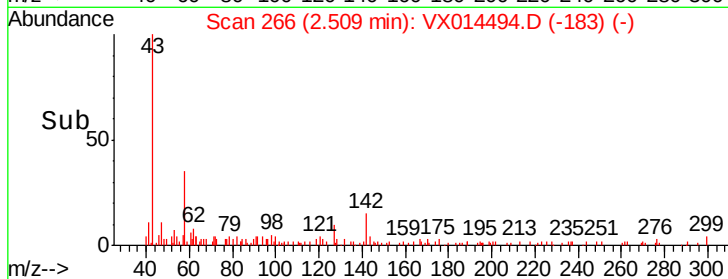
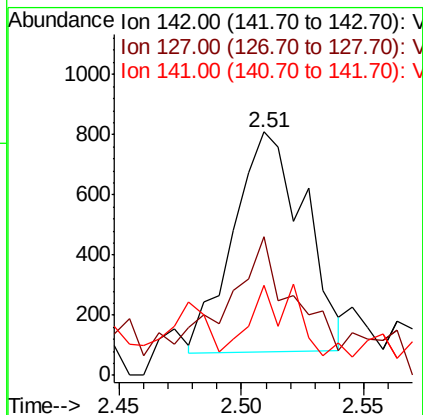
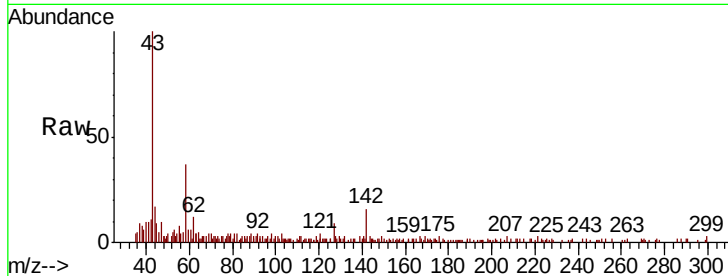




#11
Methyl Iodide
Concen: 0.261 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX014494.D
Acq: 09 Jan 2020 13:16

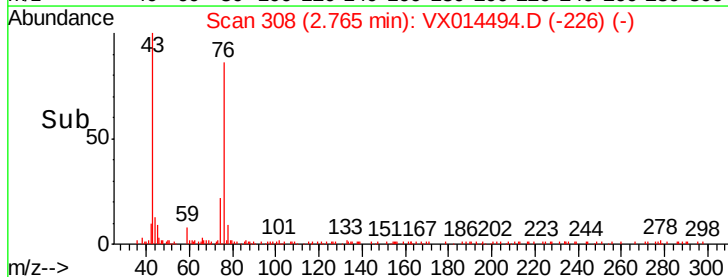
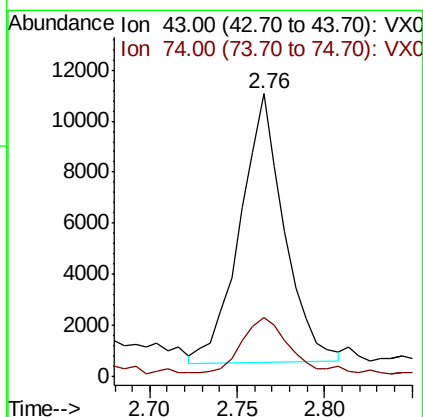
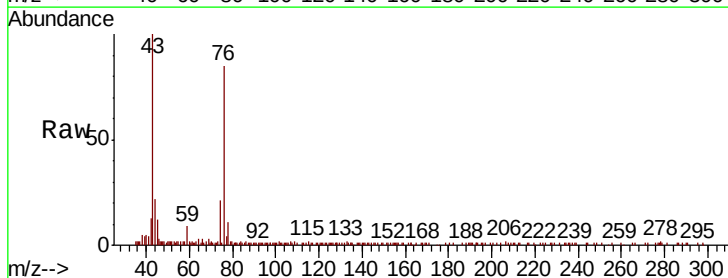
Instrument :
MSVOA_X
ClientSampled :

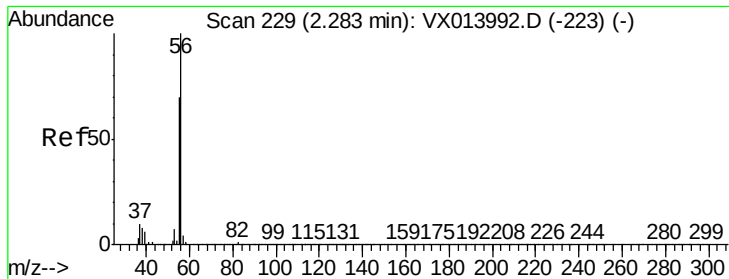
Tot Ion:142 Resp: 1487
Ion Ratio Lower Upper
142 100
127 75.0 19.5 58.5#
141 19.4 7.0 20.9



#12
Methyl Acetate
Concen: 2.694 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.00 min
Lab File: VX014494.D
Acq: 09 Jan 2020 13:16

Tgt Ion: 43 Resp: 18459
Ion Ratio Lower Upper
43 100
74 19.8 18.5 27.7

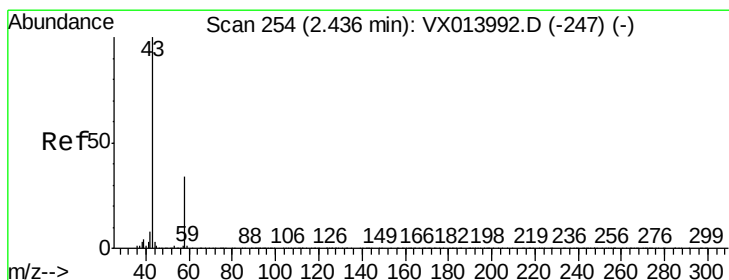
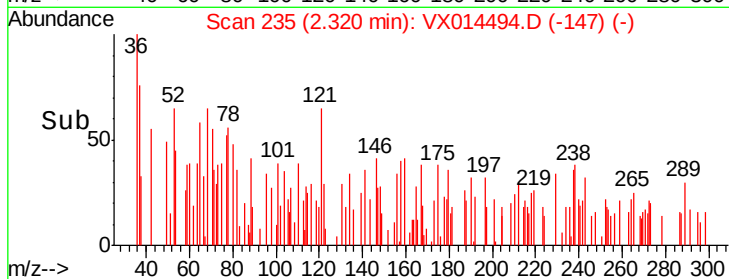
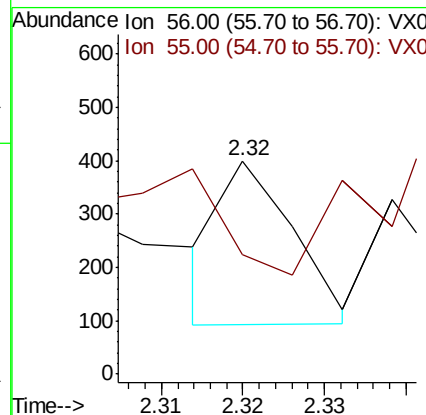
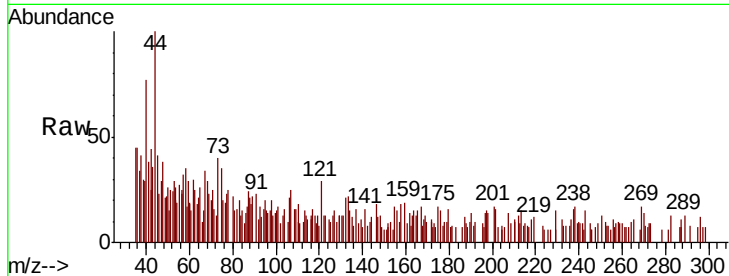




#13
Acrolein
Concen: 0.229 ug/l
RT: 2.32 min Scan# 235
Delta R.T. 0.04 min
Lab File: VX014494.D
Acq: 09 Jan 2020 13:16

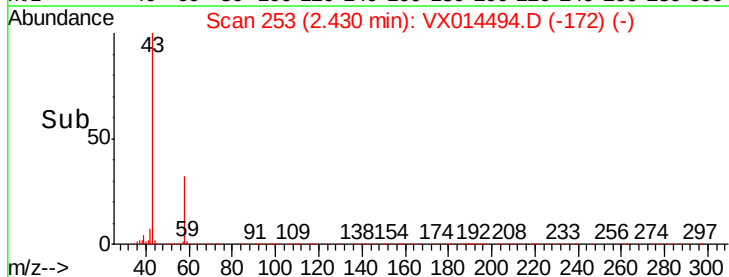
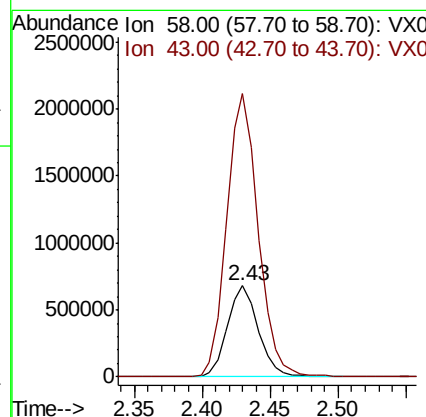
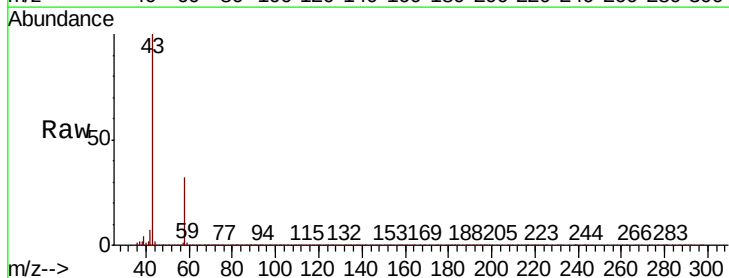
Instrument :
MSVOA_X
ClientSampled :

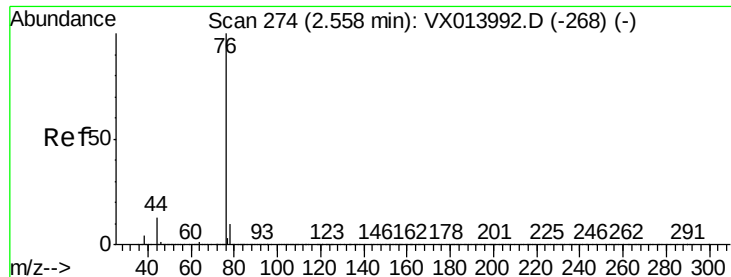
Tot Ion: 56 Resp: 190
Ion Ratio Lower Upper
56 100
55 80.5 54.9 82.3



#15
Acetone
Concen: 1360.777 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014494.D
Acq: 09 Jan 2020 13:16

Tgt Ion: 58 Resp: 1070865
Ion Ratio Lower Upper
58 100
43 311.2 236.3 354.5





#16

Carbon Disulfide

Concen: 1.169 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014494.D

Acq: 09 Jan 2020 13:16

Instrument :

MSVOA_X

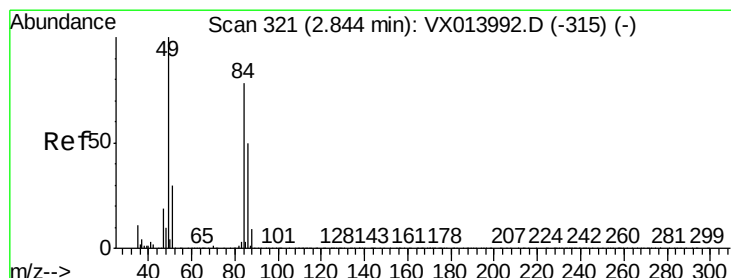
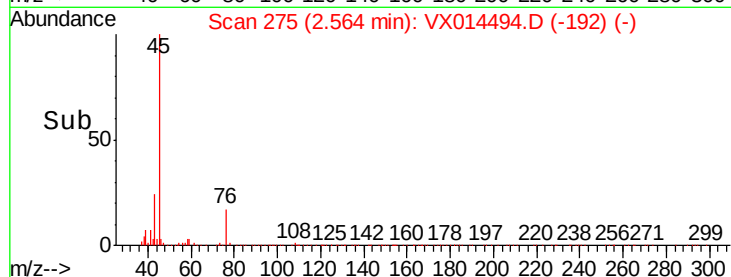
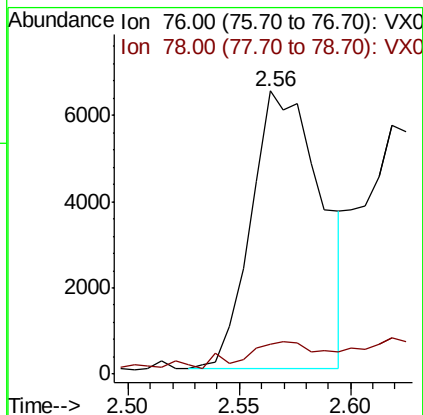
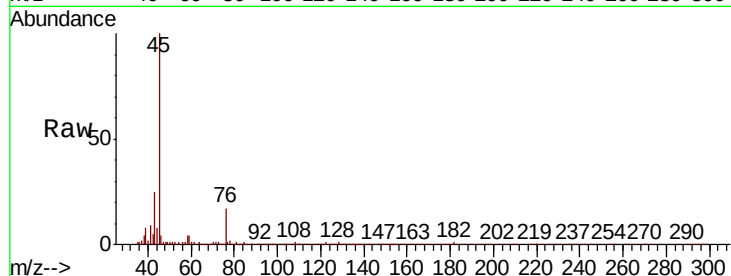
ClientSampleId :

Tot Ion: 76 Resp: 14019

Ion Ratio Lower Upper

76 100

78 7.4 7.8 11.8#



#18

Methylene Chloride

Concen: 0.296 ug/l

RT: 2.84 min Scan# 321

Delta R.T. 0.00 min

Lab File: VX014494.D

Acq: 09 Jan 2020 13:16

Tgt Ion: 84 Resp: 1608

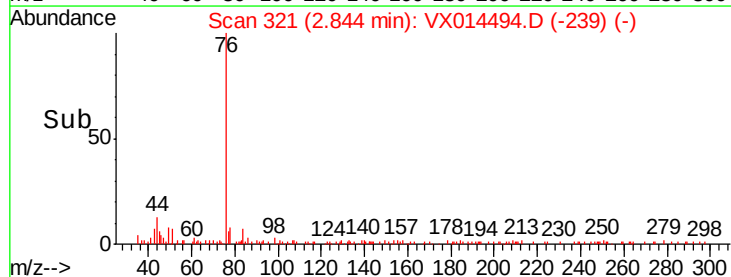
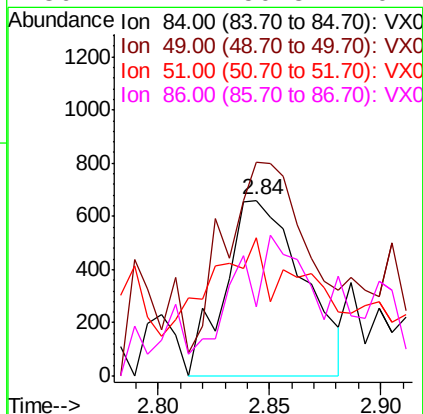
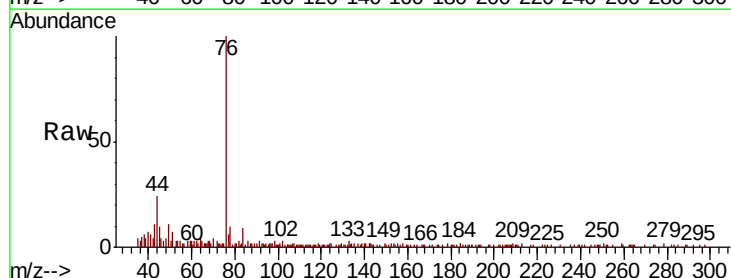
Ion Ratio Lower Upper

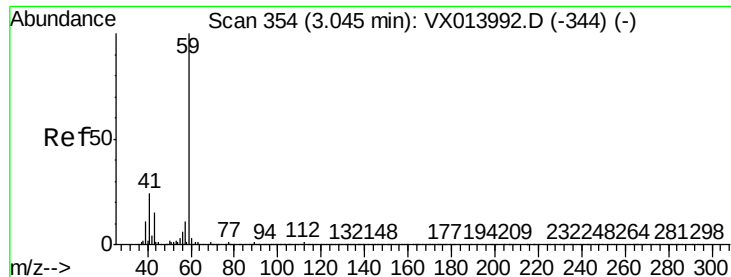
84 100

49 108.3 102.2 153.2

51 41.9 31.4 47.0

86 27.2 50.8 76.2#





#23

tert-Butyl Alcohol

Concen: 38.646 ug/l

RT: 2.59 min Scan# 279

Delta R.T. -0.46 min

Lab File: VX014494.D

Acq: 09 Jan 2020 13:16

Instrument :

MSVOA_X

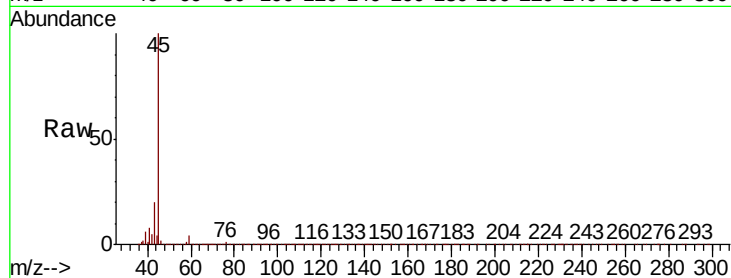
ClientSampleId :

Tot Ion: 59 Resp: 40606

Ion Ratio Lower Upper

59 100

52 0.2 0.2 0.2



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

25000

20000

15000

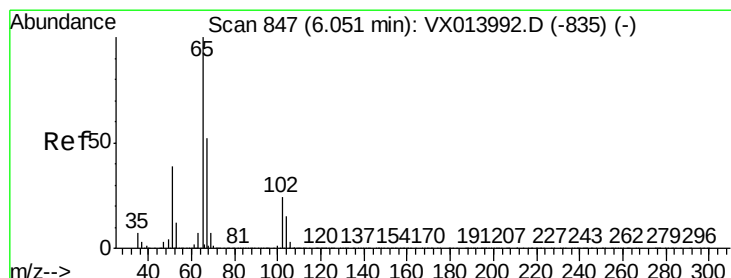
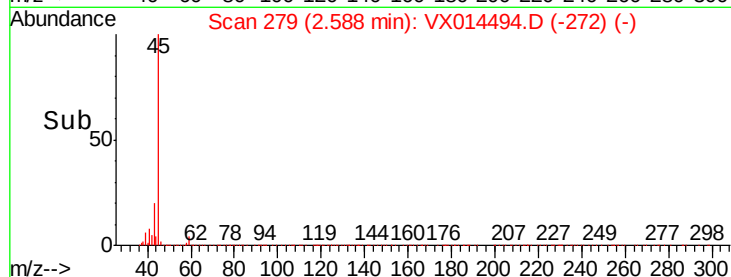
10000

5000

0

2.55 2.60 2.65

Time-->



#27

1,2-Dichloroethane-d4

Concen: 29.151 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014494.D

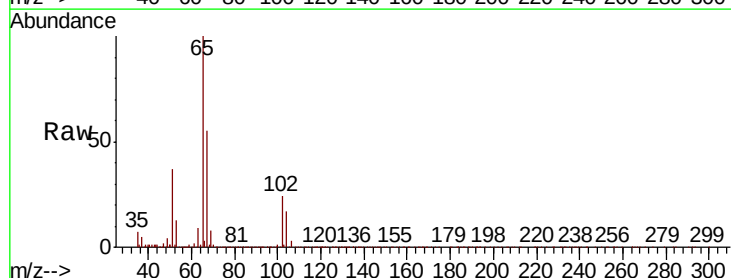
Acq: 09 Jan 2020 13:16

Tgt Ion: 65 Resp: 165030

Ion Ratio Lower Upper

65 100

67 53.6 43.1 64.7



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

60000

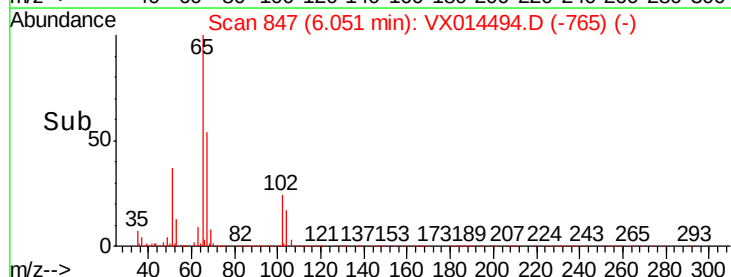
40000

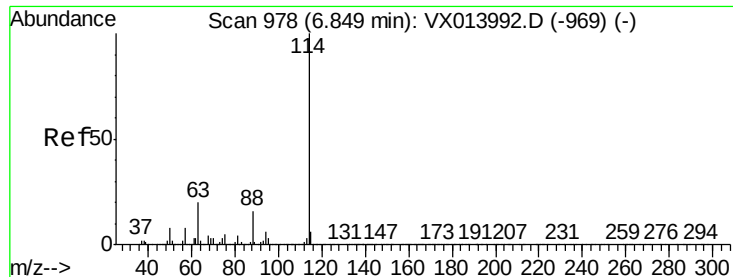
20000

0

5.95 6.00 6.05 6.10 6.15

Time-->

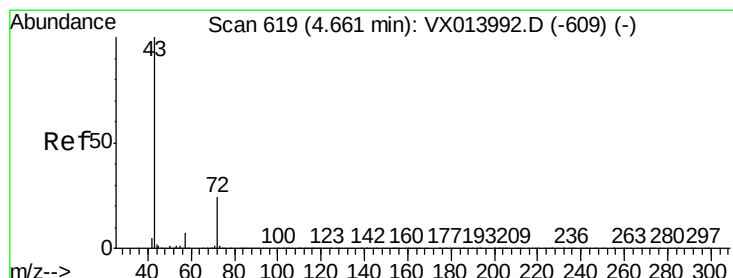
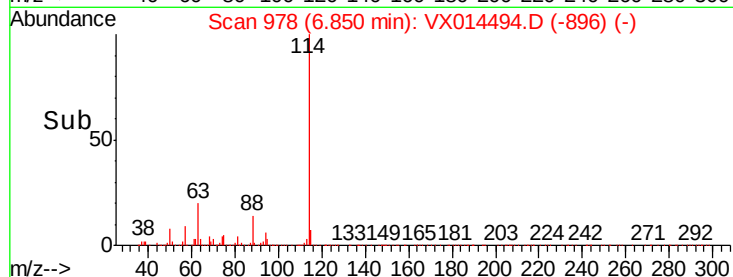
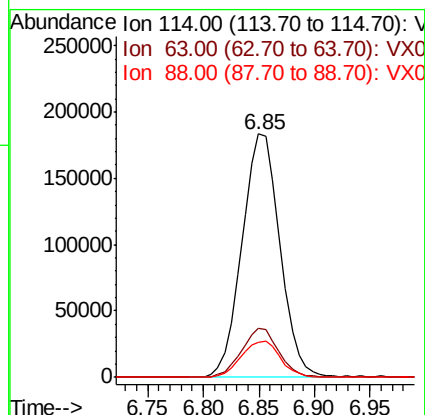
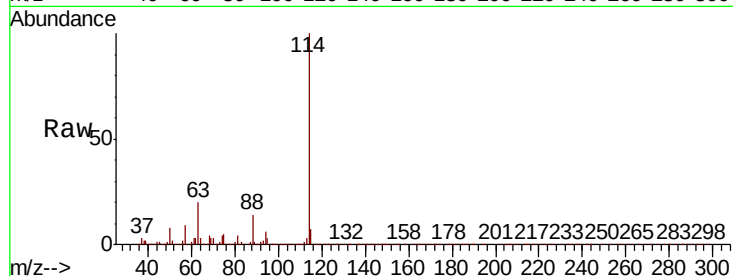




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014494.D
 Acq: 09 Jan 2020 13:16

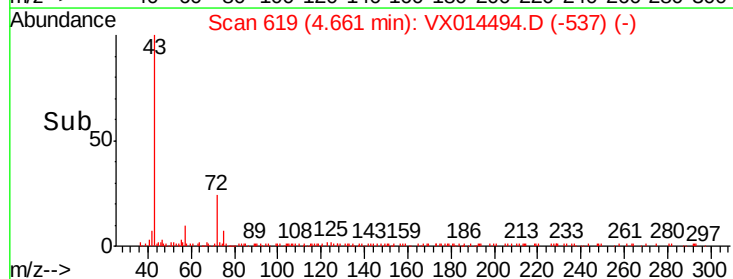
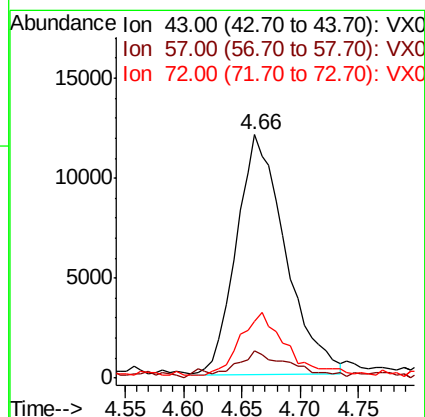
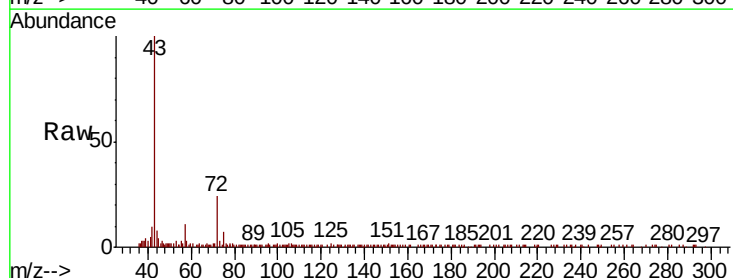
Instrument :
 MSVOA_X
 ClientSampleId :

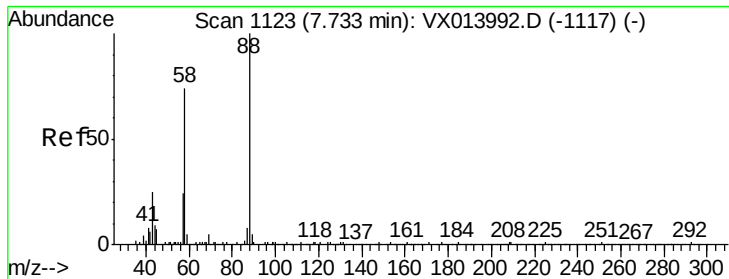
Tot Ion:	114	Resp:	434151
Ion	Ratio	Lower	Upper
114	100		
63	19.6	16.1	24.1
88	15.3	12.5	18.7



#30
 2-Butanone
 Concen: 9.504 ug/l
 RT: 4.66 min Scan# 619
 Delta R.T. 0.00 min
 Lab File: VX014494.D
 Acq: 09 Jan 2020 13:16

Tgt Ion:	43	Resp:	35132
Ion	Ratio	Lower	Upper
43	100		
57	8.5	6.2	9.2
72	21.3	20.3	30.5





#45

1,4-Dioxane

Concen: 2.697 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

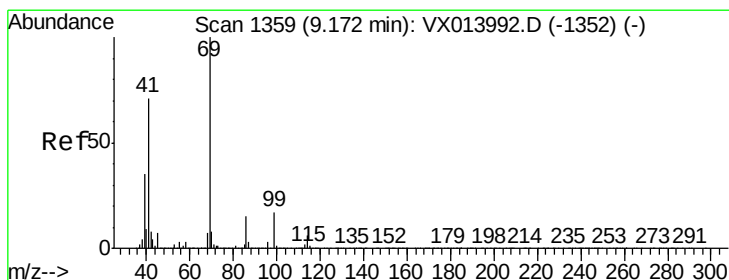
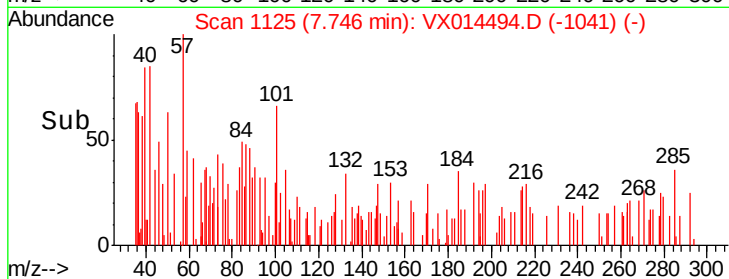
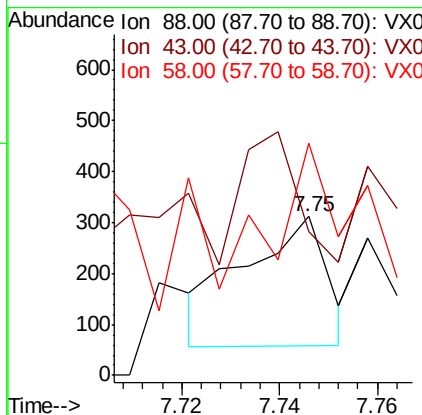
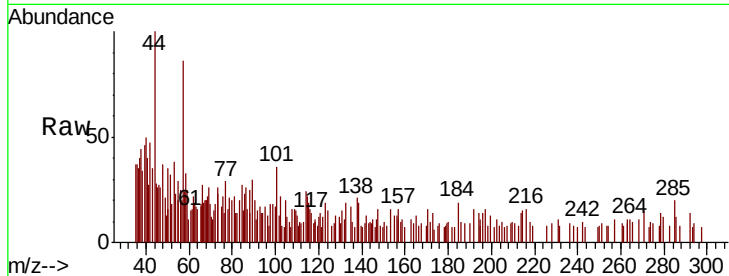
Lab File: VX014494.D

Acq: 09 Jan 2020 13:16

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 88 Resp: 300

Ion	Ratio	Lower	Upper
88	100		
43	67.7	25.4	38.2#
58	139.0	56.5	84.7#



#51

Ethyl methacrylate

Concen: 0.233 ug/l

RT: 8.72 min Scan# 1284

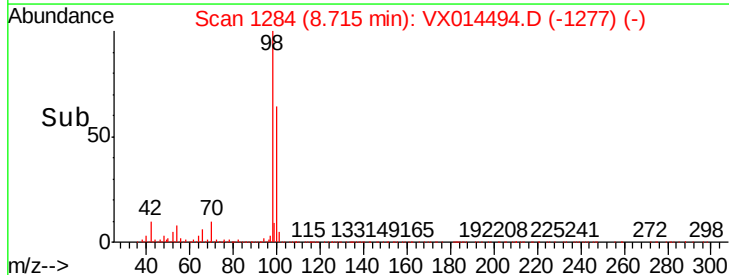
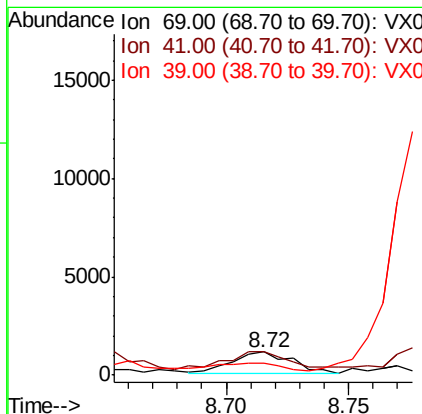
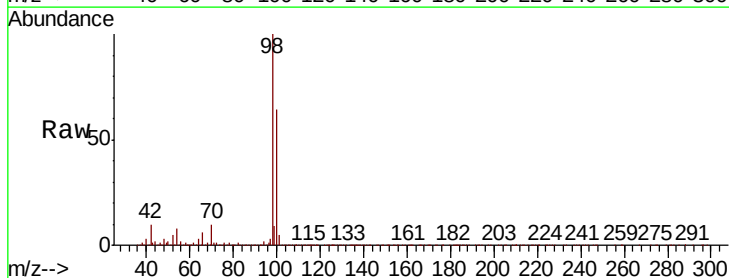
Delta R.T. -0.46 min

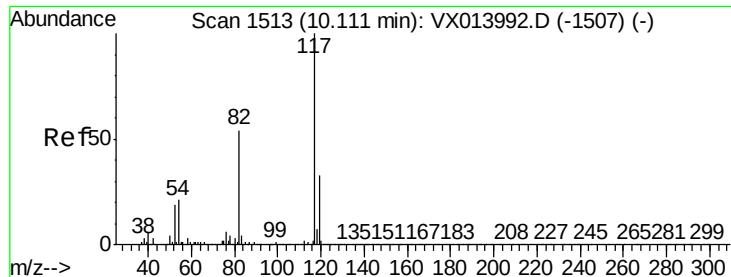
Lab File: VX014494.D

Acq: 09 Jan 2020 13:16

Tgt Ion: 69 Resp: 1856

Ion	Ratio	Lower	Upper
69	100		
41	68.3	35.4	106.1
39	23.2	17.8	53.3

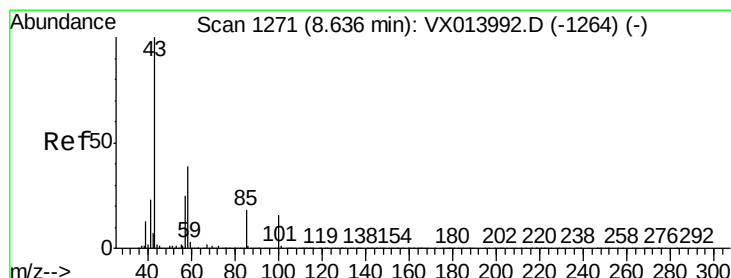
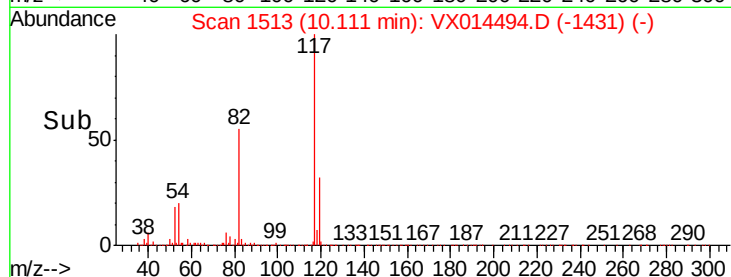
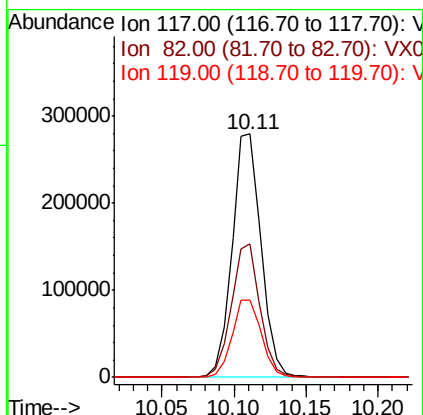
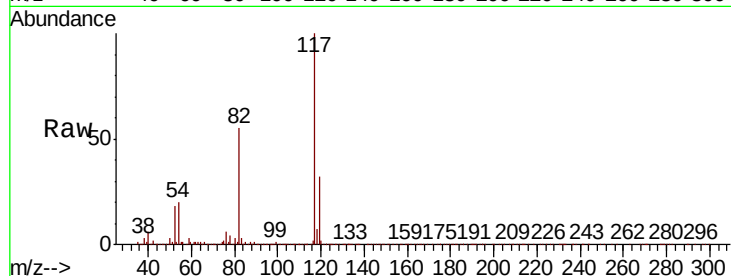




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014494.D
Acq: 09 Jan 2020 13:16

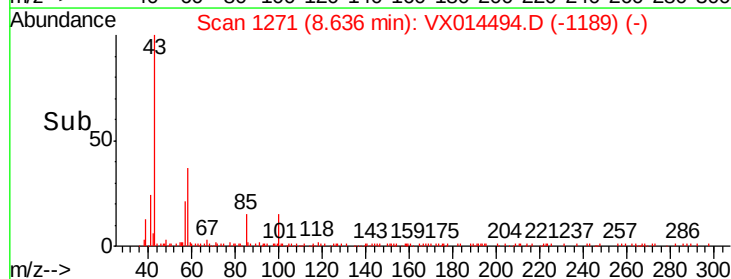
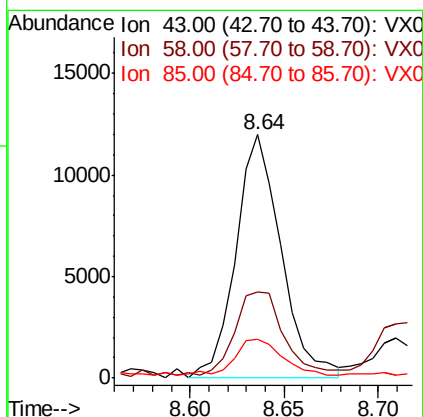
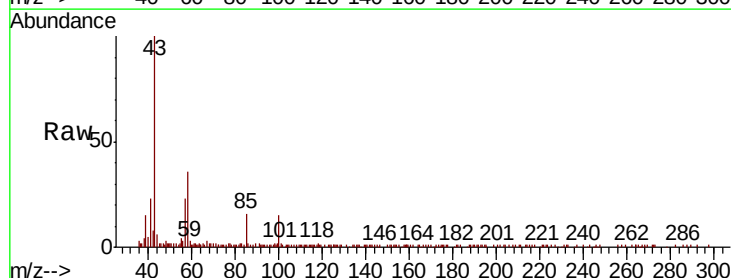
Instrument :
MSVOA_X
ClientSampleId :

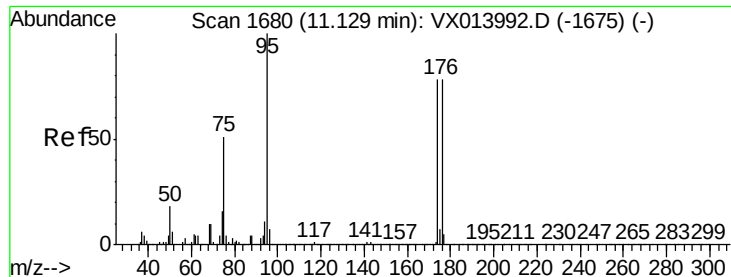
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.8	43.8	65.6
119	32.2	25.8	38.6



#58
4-Methyl-2-Pentanone
Concen: 2.727 ug/l
RT: 8.64 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VX014494.D
Acq: 09 Jan 2020 13:16

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.8	31.2	46.8
85	15.3	14.2	21.2

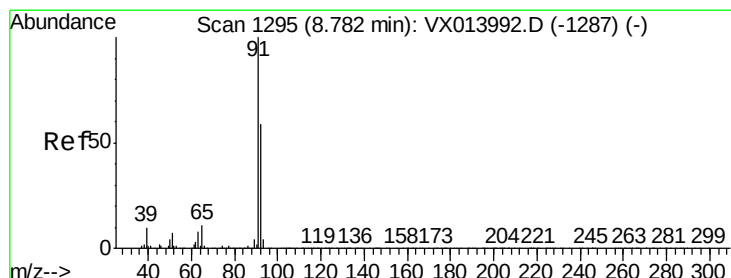
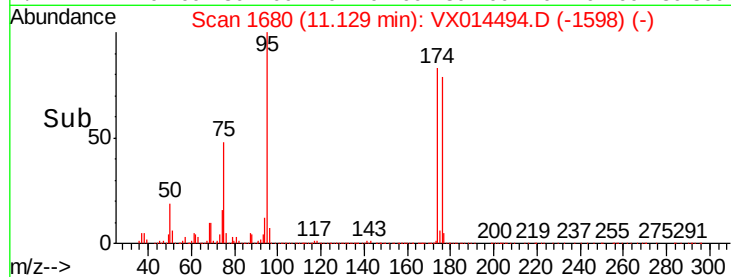
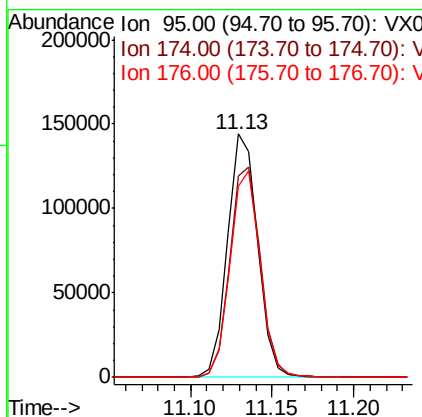
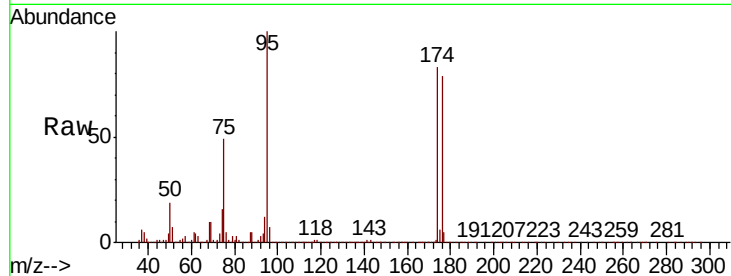




#60
4-Bromofluorobenzene
Concen: 29.099 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014494.D
Acq: 09 Jan 2020 13:16

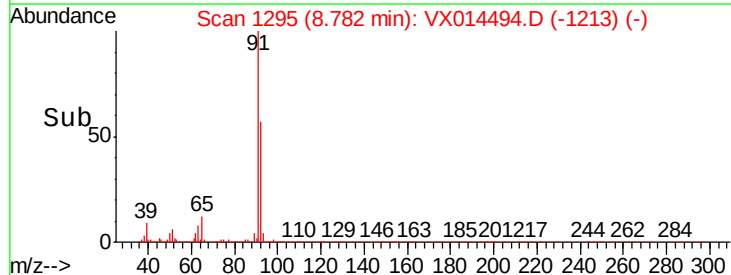
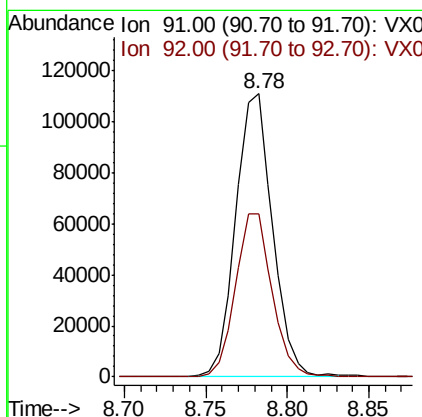
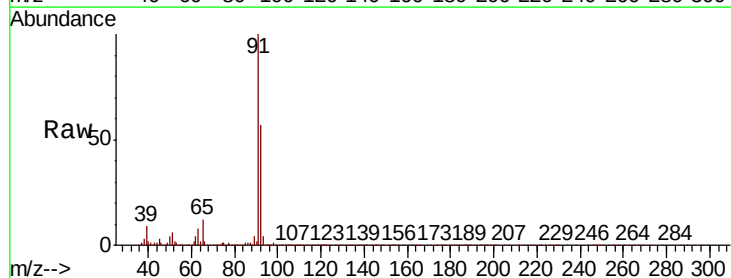
Instrument :
MSVOA_X
ClientSampleId :

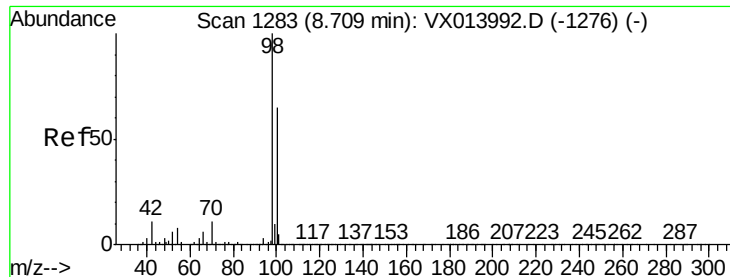
Tot Ion	Ratio	Lower	Upper
95	100		
174	88.4	70.2	105.2
176	84.8	68.3	102.5



#62
Toluene
Concen: 8.308 ug/l
RT: 8.78 min Scan# 1295
Delta R.T. 0.00 min
Lab File: VX014494.D
Acq: 09 Jan 2020 13:16

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.3	46.4	69.6





#63

Toluene-d8

Concen: 29.861 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014494.D

Acq: 09 Jan 2020 13:16

Instrument :

MSVOA_X

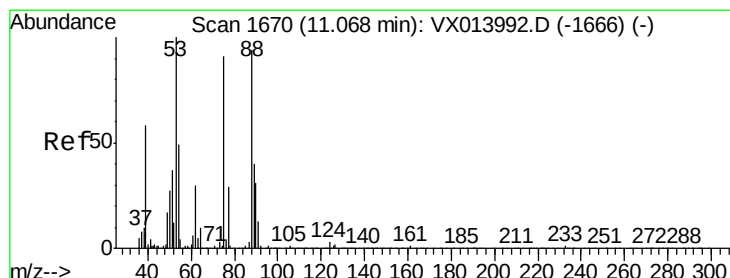
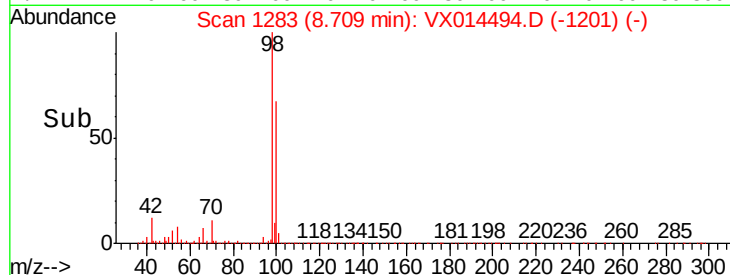
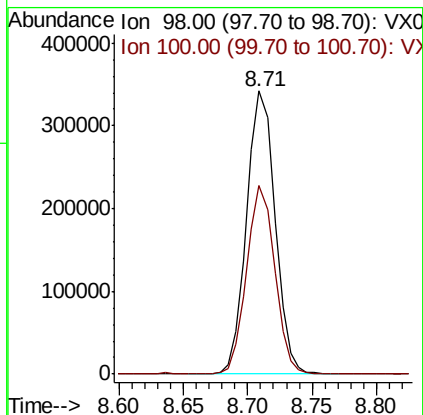
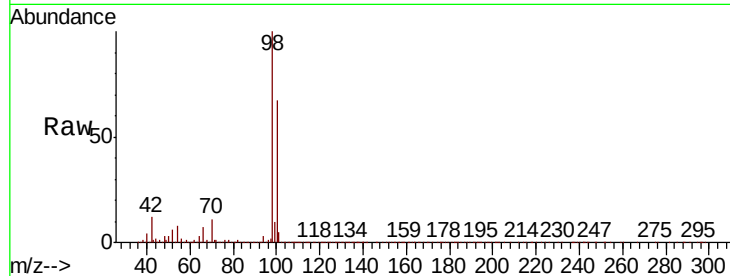
ClientSampleId :

Tot Ion: 98 Resp: 524010

Ion Ratio Lower Upper

98 100

100 65.4 52.2 78.2



#77

t-1,4-Dichloro-2-butene

Concen: 0.203 ug/l

RT: 11.07 min Scan# 1670

Delta R.T. 0.00 min

Lab File: VX014494.D

Acq: 09 Jan 2020 13:16

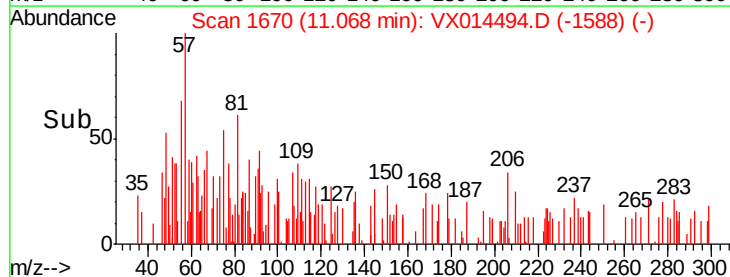
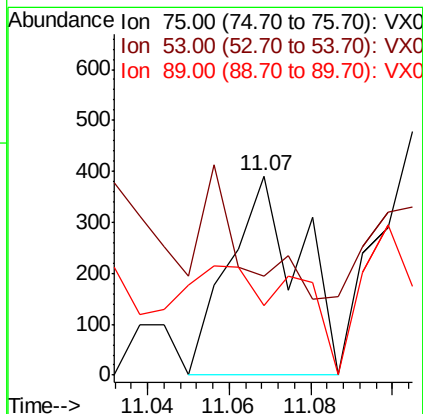
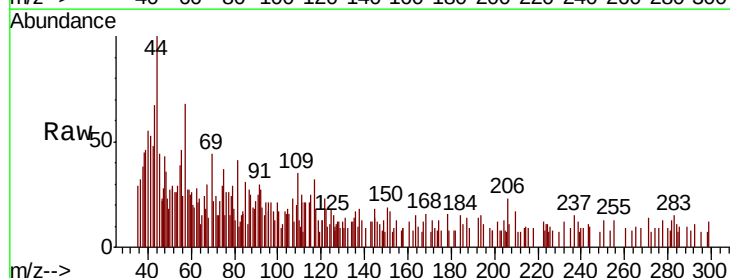
Tgt Ion: 75 Resp: 473

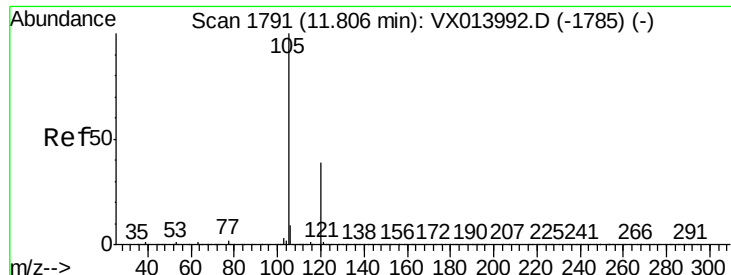
Ion Ratio Lower Upper

75 100

53 10.5 54.4 163.1#

89 35.0 21.9 65.5





#80

1,2,4-Trimethylbenzene

Concen: 0.407 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX014494.D

Acq: 09 Jan 2020 13:16

Instrument :

MSVOA_X

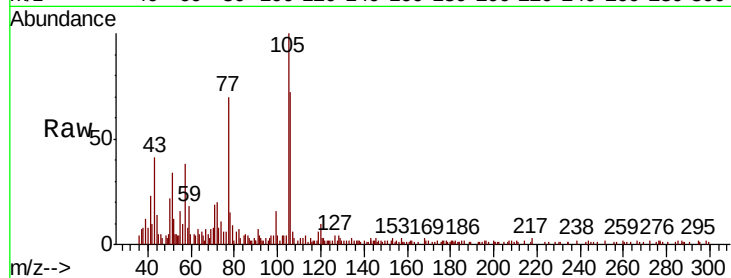
ClientSampleId :

Tot Ion:105 Resp: 7719

Ion Ratio Lower Upper

105 100

120 14.9 0.0 92.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

