

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX043020\
 Data File : VX015999.D
 Acq On : 30 Apr 2020 16:45
 Operator : JC/SP
 Sample : L2430-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 01 08:00:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X043020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 30 12:42:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	45495	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	251796	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	224583	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	107938	30.87	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.90%
60) 4-Bromofluorobenzene	11.12	95	107963	28.67	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.57%
63) Toluene-d8	8.70	98	296303	30.76	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.53%

Target Compounds

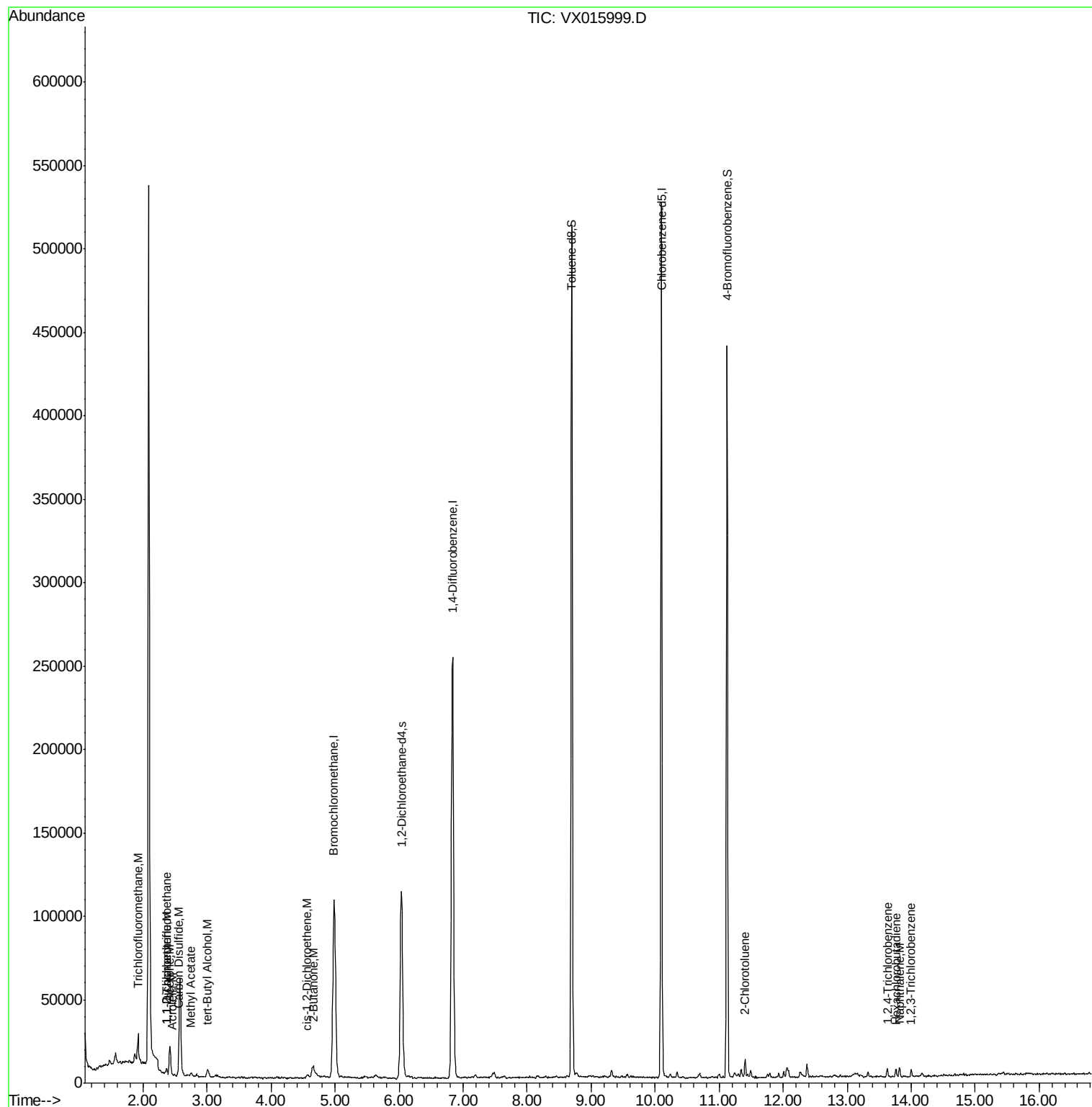
					Ovalue
7) Trichlorofluoromethane	1.92	101	10258	2.053	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	2.37	101	1037	0.402	ug/l 96
10) 1,1-Dichloroethene	2.36	96	565	0.217	ug/l # 67
12) Methyl Acetate	2.75	43	2100	0.462	ug/l # 78
13) Acrolein	2.46	56	77	0.211	ug/l 89
15) Acetone	2.42	58	5902	13.283	ug/l 87
16) Carbon Disulfide	2.55	76	3754	0.474	ug/l # 87
22) cis-1,2-Dichloroethene	4.57	96	1135	0.351	ug/l # 58
23) tert-Butyl Alcohol	3.01	59	5516	6.712	ug/l # 100
30) 2-Butanone	4.65	43	752	0.319	ug/l # 89
75) 2-Chlorotoluene	11.41	91	4531	0.490	ug/l 96
89) 1,2,4-Trichlorobenzene	13.63	180	1151	0.262	ug/l # 95
90) Hexachlorobutadiene	13.77	225	560	0.297	ug/l 89
91) Naphthalene	13.82	128	2998	0.215	ug/l 98
92) 1,2,3-Trichlorobenzene	14.01	180	850	0.202	ug/l 94

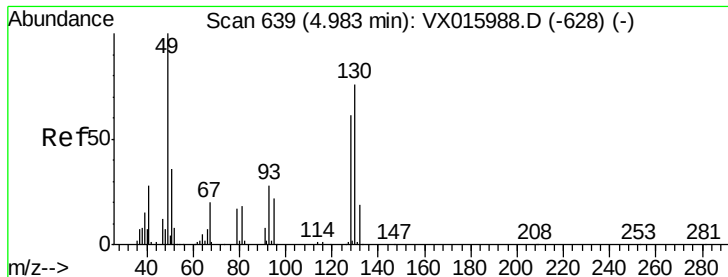
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 01 08:00:32 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X043020W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Apr 30 12:42:44 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 639

Delta R.T. 0.00 min

Lab File: VX015999.D

Acq: 30 Apr 2020 16:45

Instrument :

MSVOA_X

ClientSampleId :

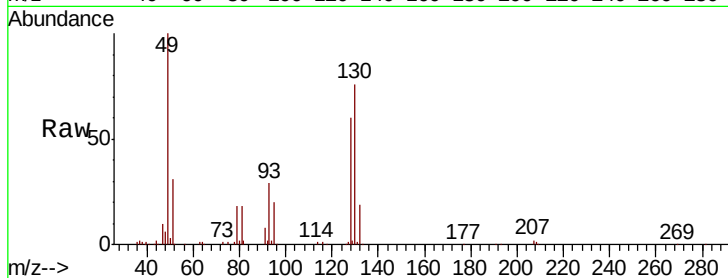
Tot Ion:128 Resp: 45495

Ion Ratio Lower Upper

128 100

49 163.5 0.0 418.5

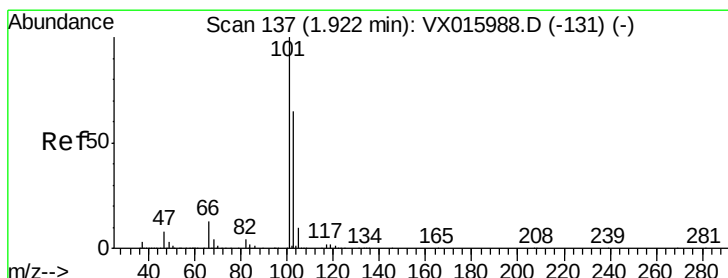
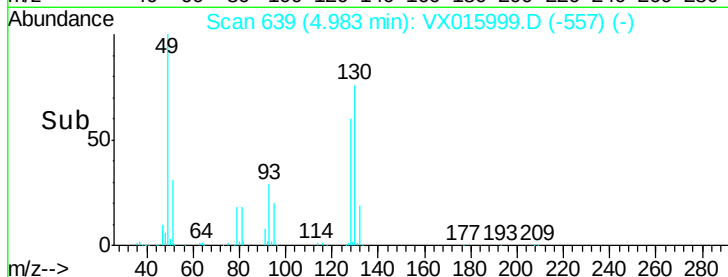
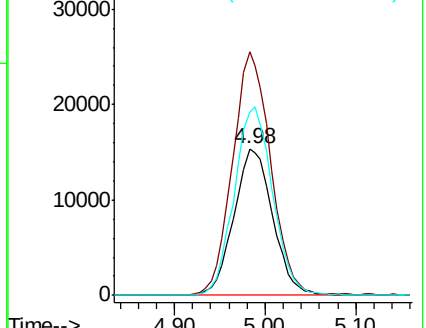
130 128.2 0.0 326.3



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



#7

Trichlorofluoromethane

Concen: 2.053 ug/l

RT: 1.92 min Scan# 137

Delta R.T. 0.00 min

Lab File: VX015999.D

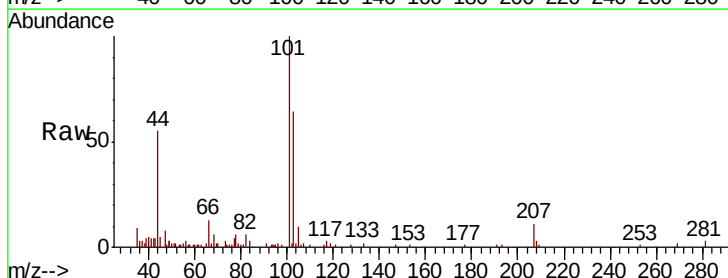
Acq: 30 Apr 2020 16:45

Tgt Ion:101 Resp: 10258

Ion Ratio Lower Upper

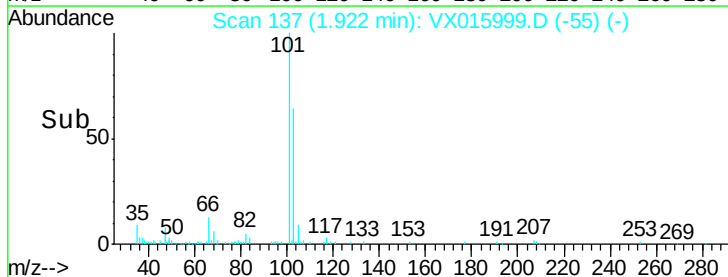
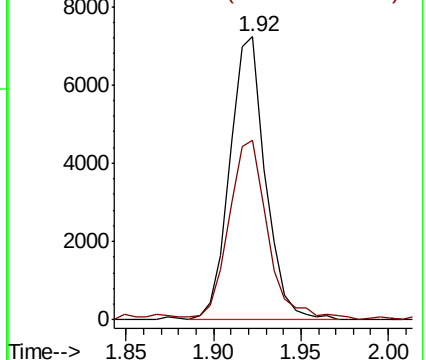
101 100

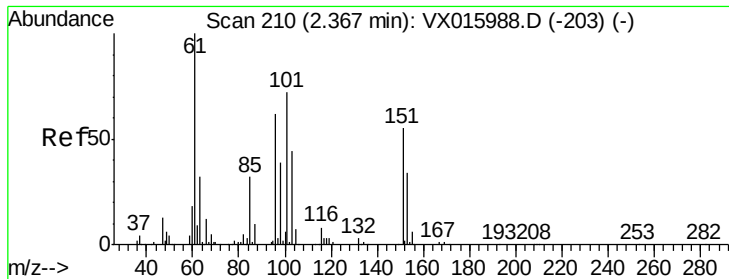
103 62.6 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.402 ug/l

RT: 2.37 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX015999.D

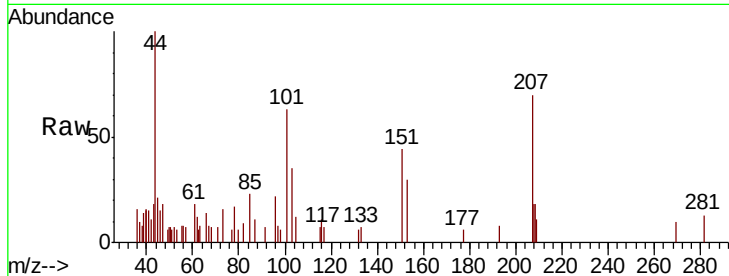
Acq: 30 Apr 2020 16:45

Instrument :

MSVOA_X

ClientSampleId :

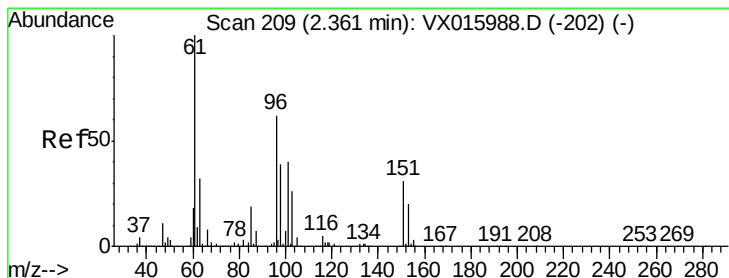
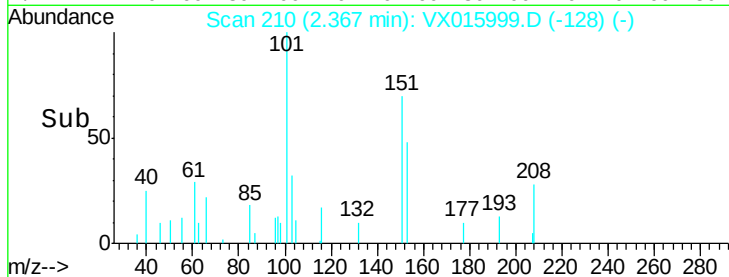
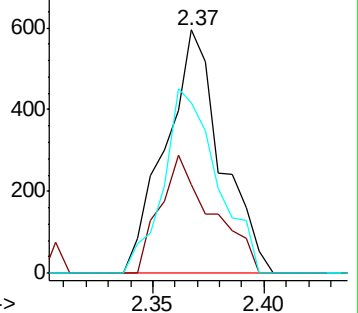
Tot Ion:	101	Resp:	1037
Ion	Ratio	Lower	Upper
101	100		
85	45.4	0.0	90.6
151	73.1	0.0	157.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VX0

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 0.217 ug/l

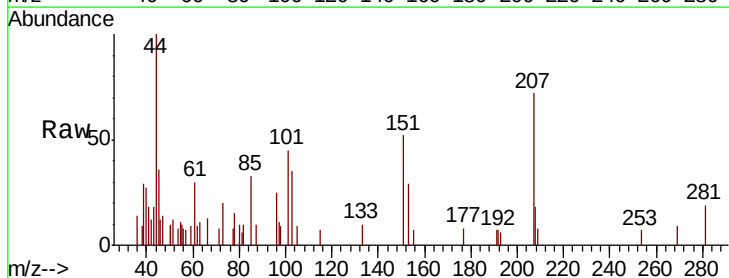
RT: 2.36 min Scan# 209

Delta R.T. 0.00 min

Lab File: VX015999.D

Acq: 30 Apr 2020 16:45

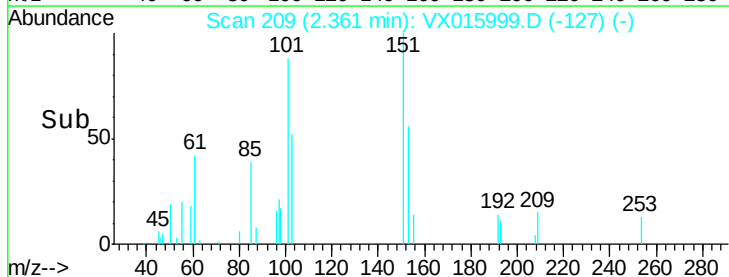
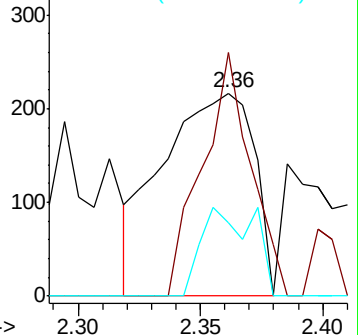
Tgt Ion:	96	Resp:	565
Ion	Ratio	Lower	Upper
96	100		
61	119.8	129.8	194.8#
98	35.9	51.1	76.7#

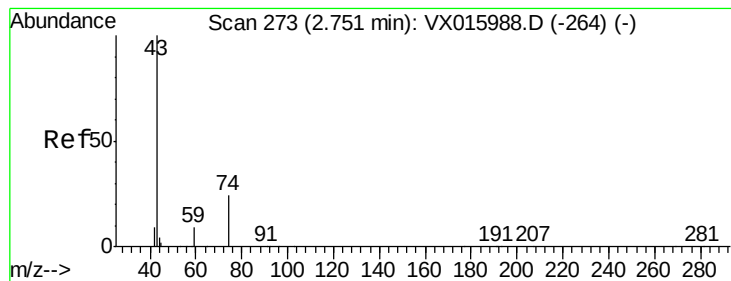


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#12

Methyl Acetate

Concen: 0.462 ug/l

RT: 2.75 min Scan# 272

Delta R.T. -0.01 min

Lab File: VX015999.D

Acq: 30 Apr 2020 16:45

Instrument :

MSVOA_X

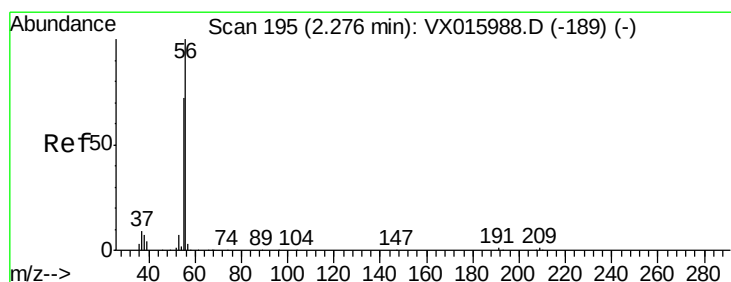
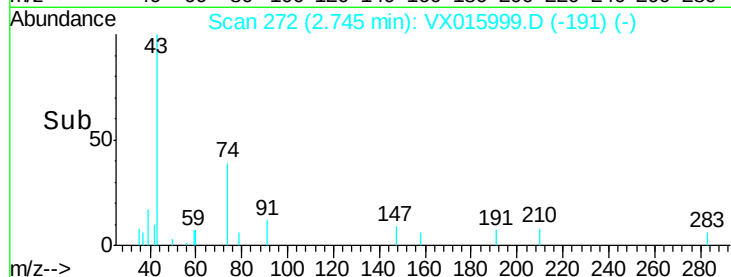
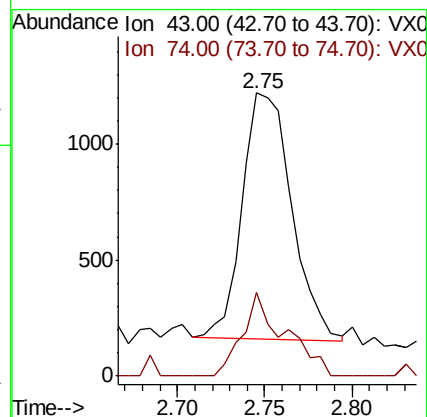
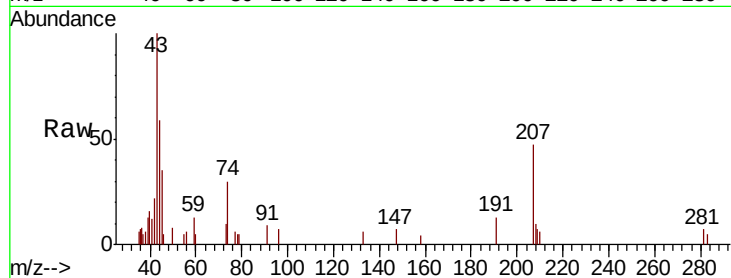
ClientSampled :

Tot Ion: 43 Resp: 2100

Ion Ratio Lower Upper

43 100

74 34.3 19.0 28.4#



#13

Acrolein

Concen: 0.211 ug/l

RT: 2.46 min Scan# 226

Delta R.T. 0.19 min

Lab File: VX015999.D

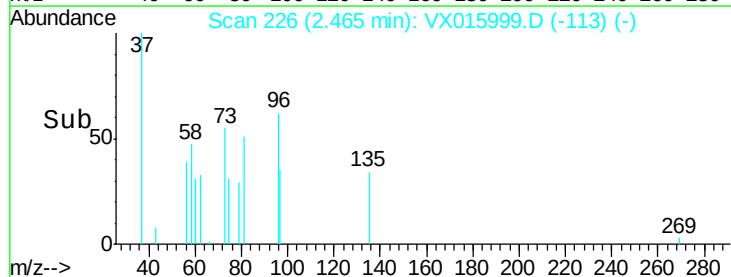
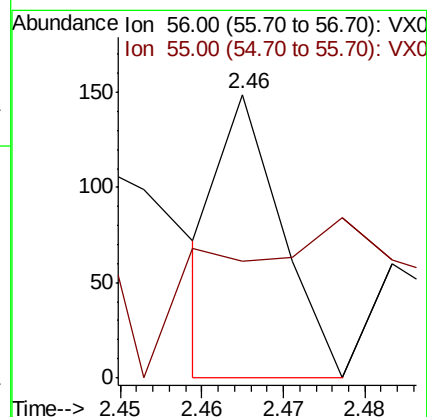
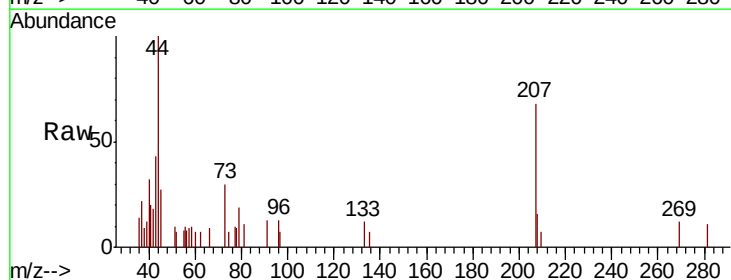
Acq: 30 Apr 2020 16:45

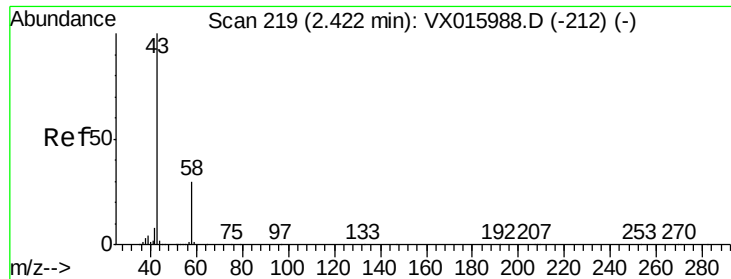
Tgt Ion: 56 Resp: 77

Ion Ratio Lower Upper

56 100

55 61.0 56.2 84.4





#15

Acetone

Concen: 13.283 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX015999.D

Acq: 30 Apr 2020 16:45

Instrument :

MSVOA_X

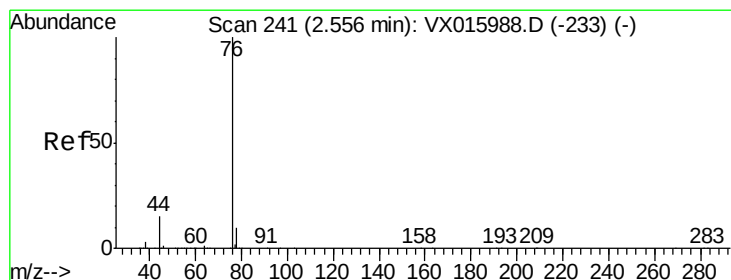
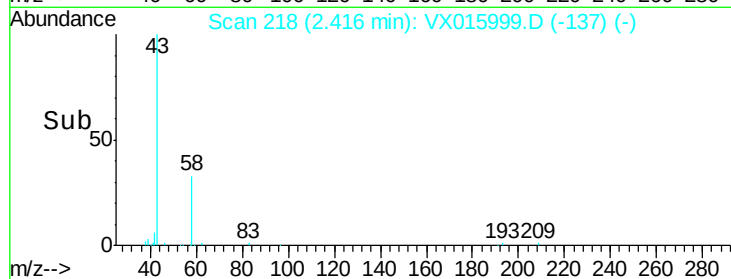
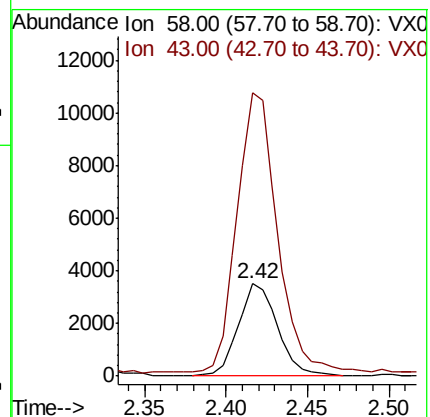
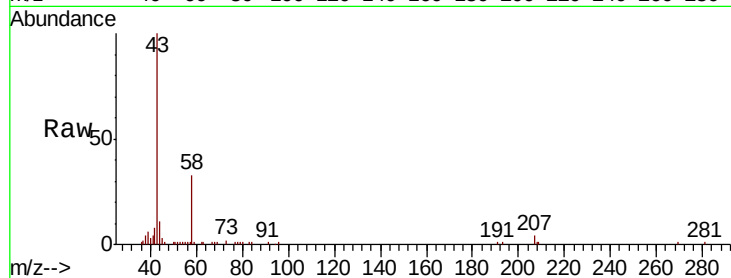
ClientSampleId :

Tot Ion: 58 Resp: 5902

Ion Ratio Lower Upper

58 100

43 302.1 264.2 396.2



#16

Carbon Disulfide

Concen: 0.474 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.01 min

Lab File: VX015999.D

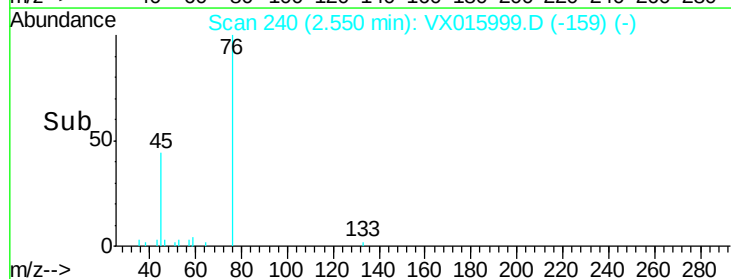
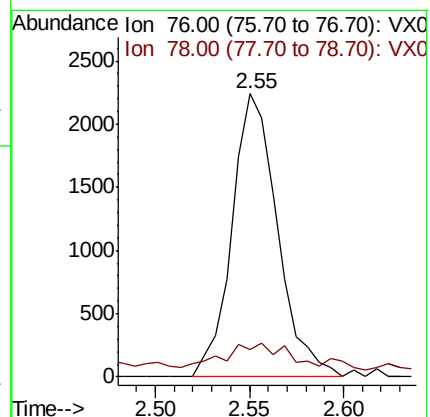
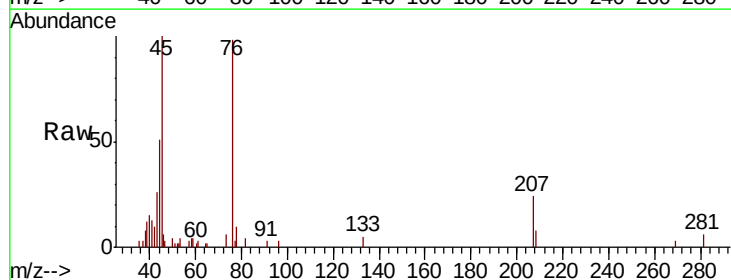
Acq: 30 Apr 2020 16:45

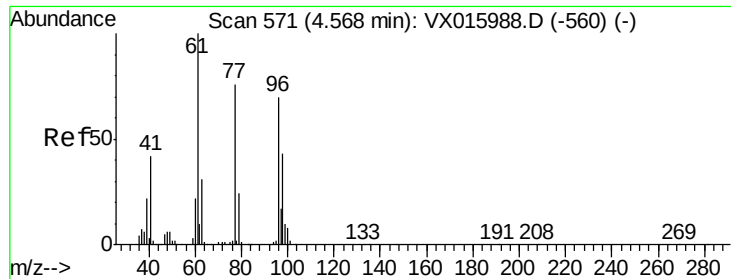
Tgt Ion: 76 Resp: 3754

Ion Ratio Lower Upper

76 100

78 4.9 7.7 11.5#



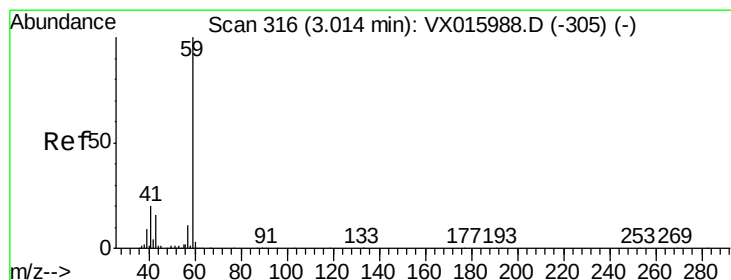
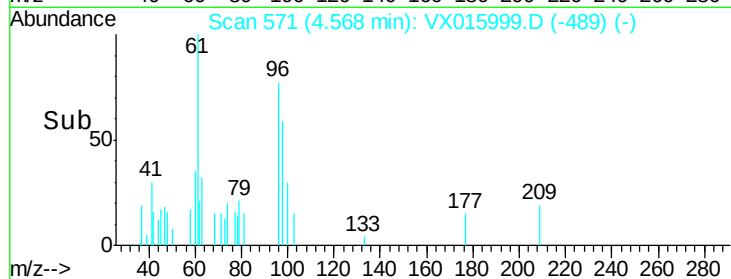
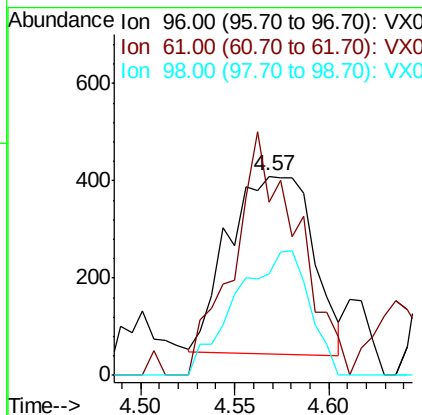
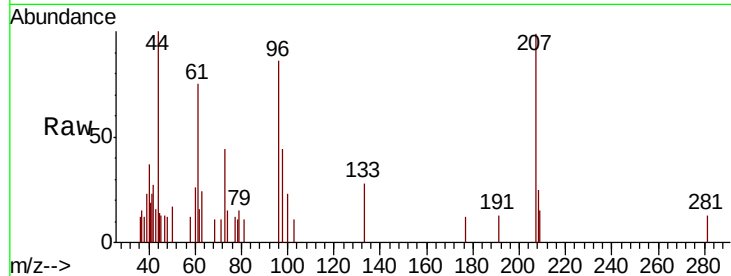


#22

cis-1,2-Dichloroethene
 Concen: 0.351 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. 0.00 min
 Lab File: VX015999.D
 Acq: 30 Apr 2020 16:45

Instrument :
 MSVOA_X
 ClientSampleId :

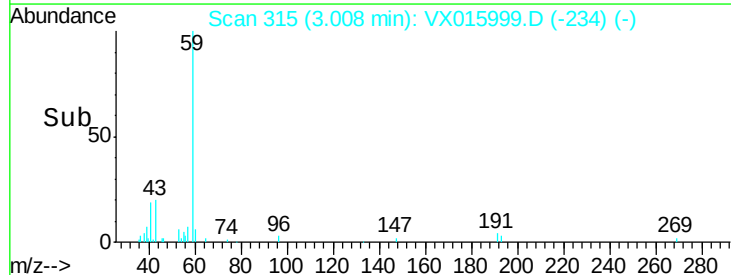
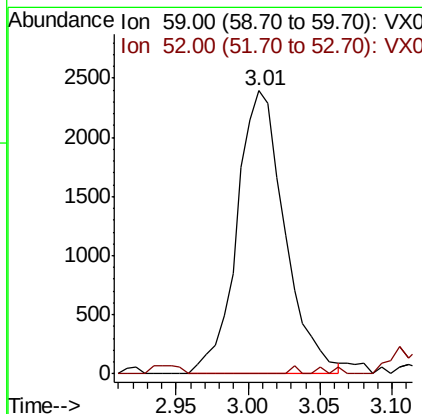
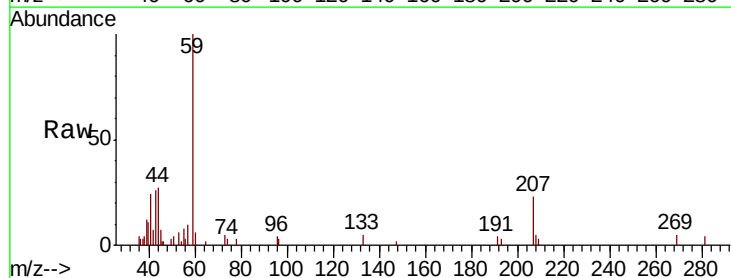
Tot Ion: 96 Resp: 1135
 Ion Ratio Lower Upper
 96 100
 61 103.4 121.6 182.4#
 98 25.6 51.9 77.9#

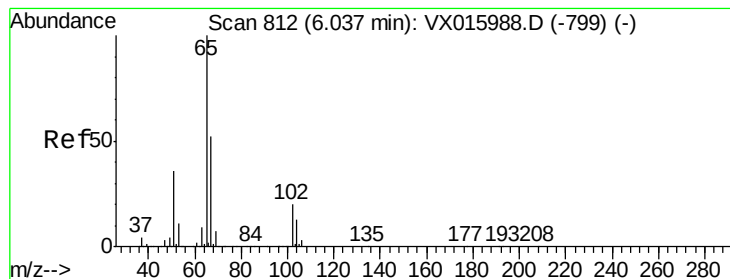


#23

tert-Butyl Alcohol
 Concen: 6.712 ug/l
 RT: 3.01 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX015999.D
 Acq: 30 Apr 2020 16:45

Tgt Ion: 59 Resp: 5516
 Ion Ratio Lower Upper
 59 100
 52 0.3 0.1 0.1#





#27

1,2-Dichloroethane-d4

Concen: 30.871 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.00 min

Lab File: VX015999.D

Acq: 30 Apr 2020 16:45

Instrument :

MSVOA_X

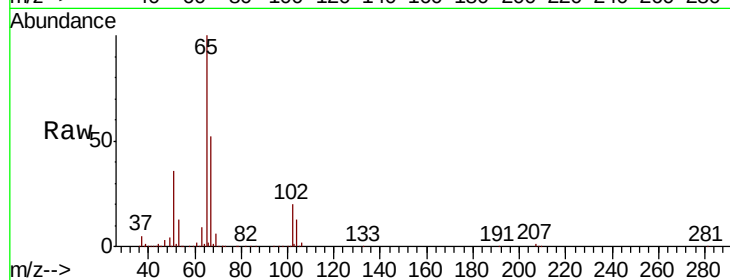
ClientSampleId :

Tot Ion: 65 Resp: 107938

Ion Ratio Lower Upper

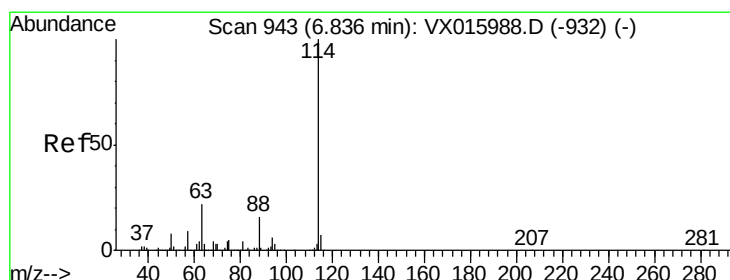
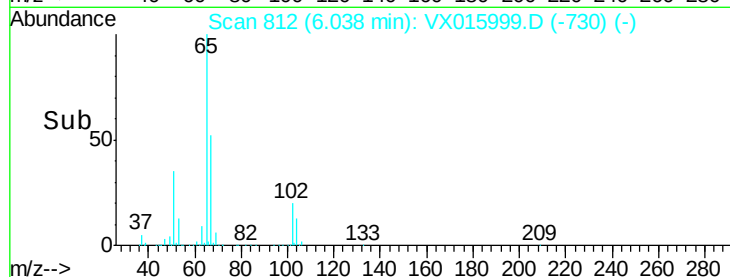
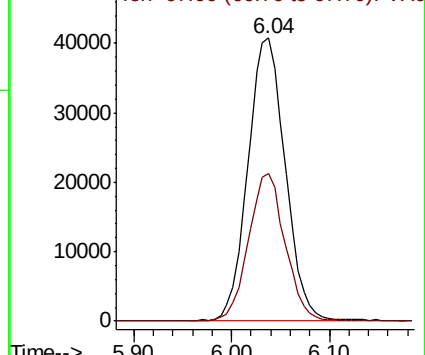
65 100

67 51.0 41.0 61.4



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: 6.84 min Scan# 943

Delta R.T. 0.00 min

Lab File: VX015999.D

Acq: 30 Apr 2020 16:45

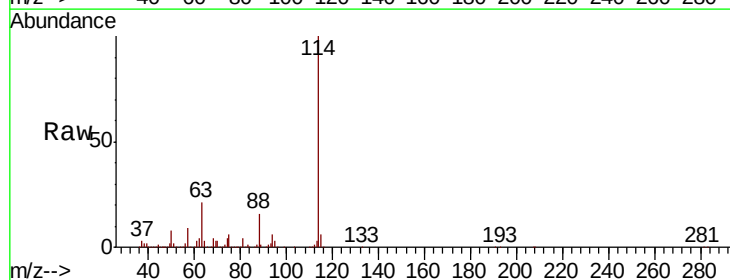
Tgt Ion: 114 Resp: 251796

Ion Ratio Lower Upper

114 100

63 21.3 17.1 25.7

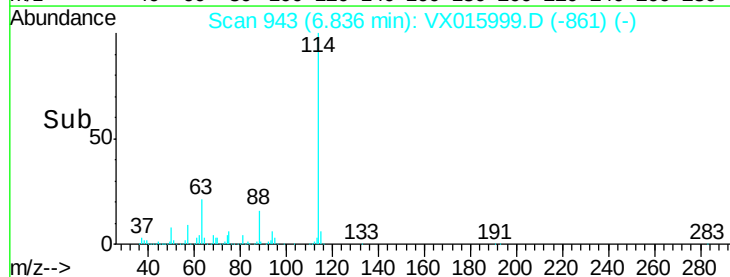
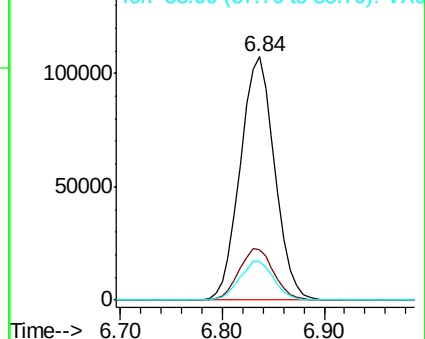
88 16.0 13.0 19.4

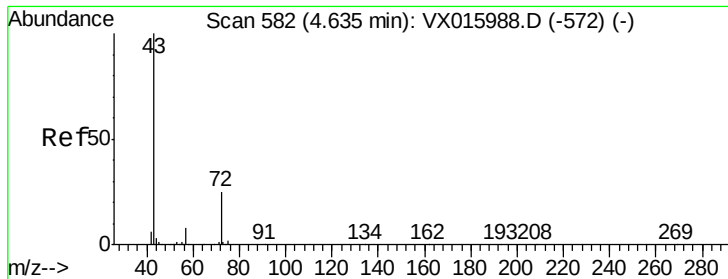


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

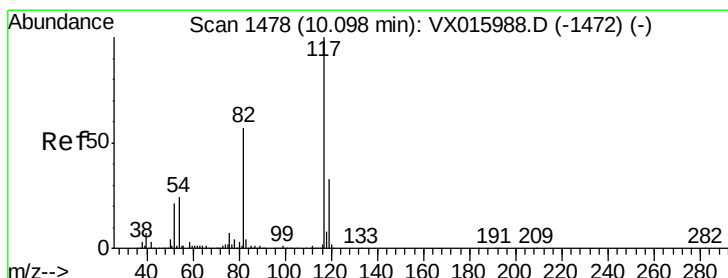
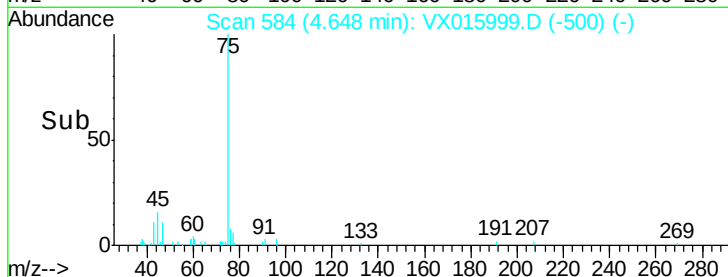
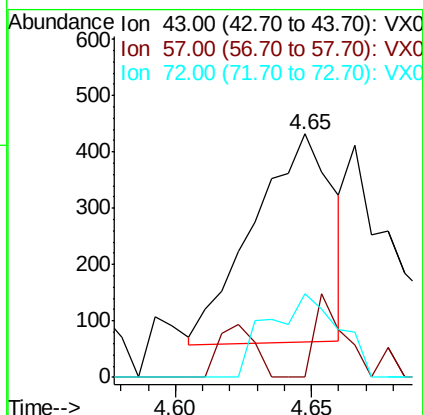
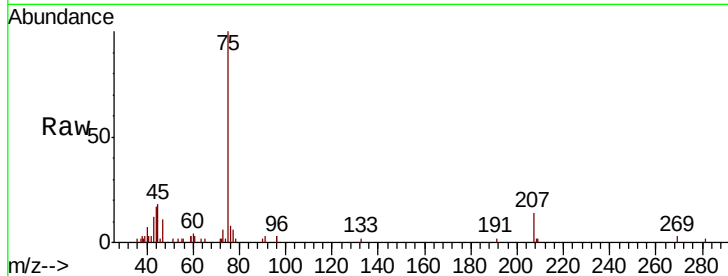




#30
2-Butanone
Concen: 0.319 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX015999.D
Acq: 30 Apr 2020 16:45

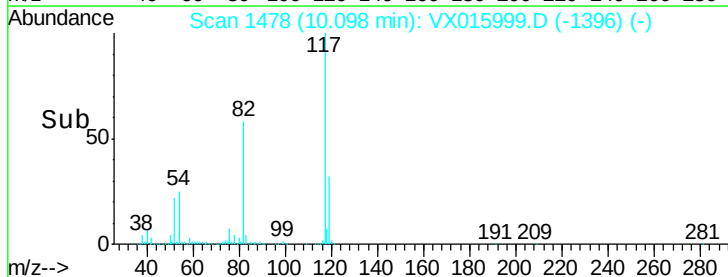
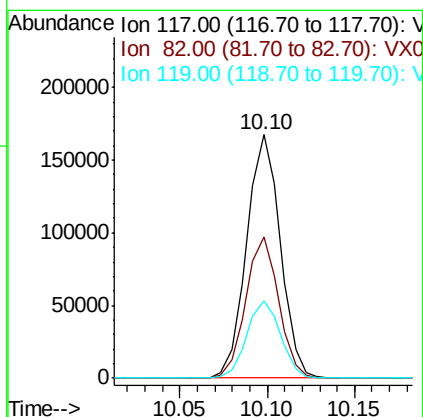
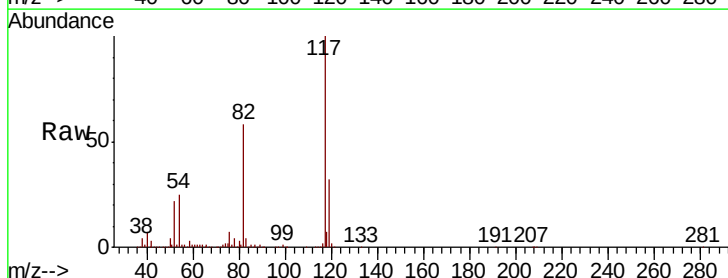
Instrument :
MSVOA_X
ClientSampleId :

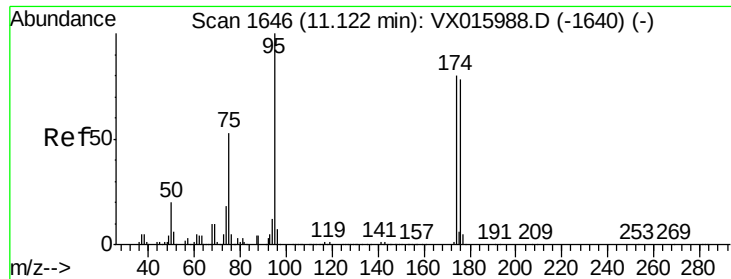
Tot Ion: 43 Resp: 752
Ion Ratio Lower Upper
43 100
57 14.1 6.3 9.5#
72 21.1 20.8 31.2



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX015999.D
Acq: 30 Apr 2020 16:45

Tgt Ion: 117 Resp: 224583
Ion Ratio Lower Upper
117 100
82 56.7 45.1 67.7
119 32.0 25.6 38.4

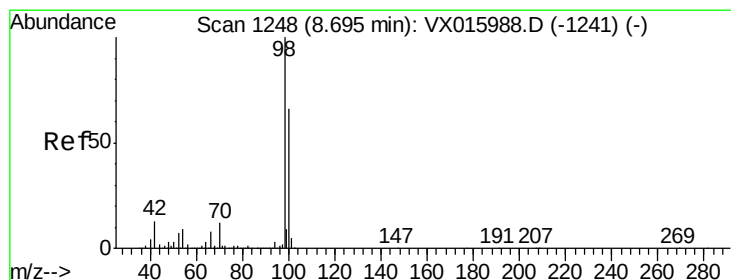
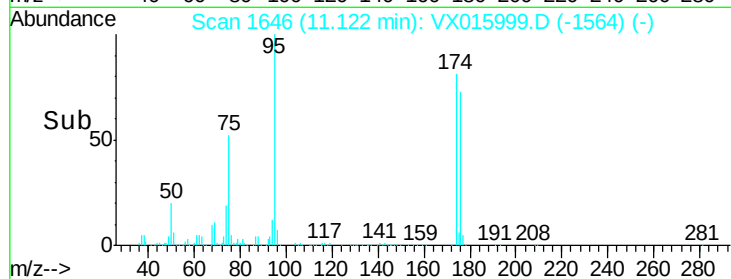
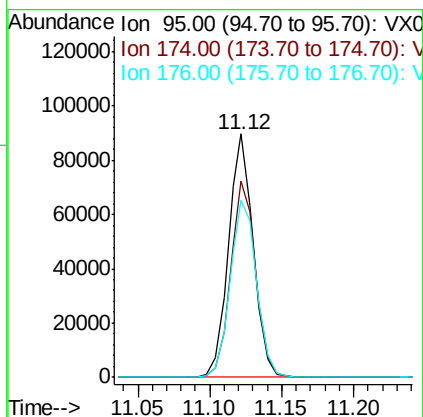
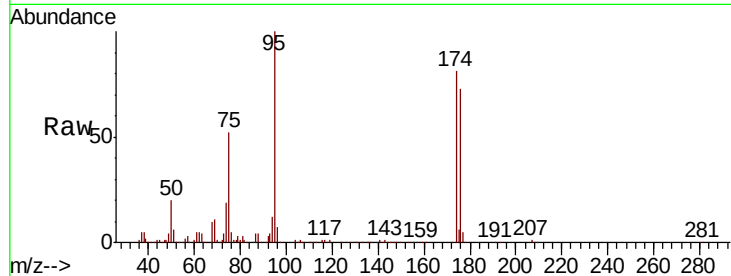




#60
4-Bromofluorobenzene
Concen: 28.666 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX015999.D
Acq: 30 Apr 2020 16:45

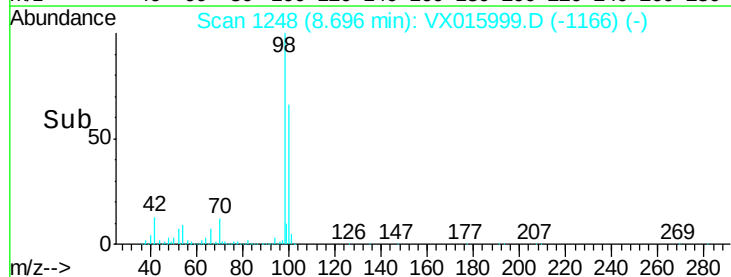
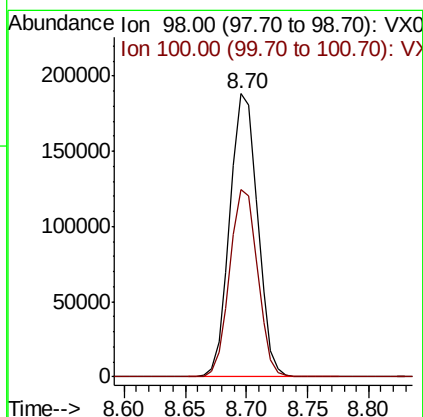
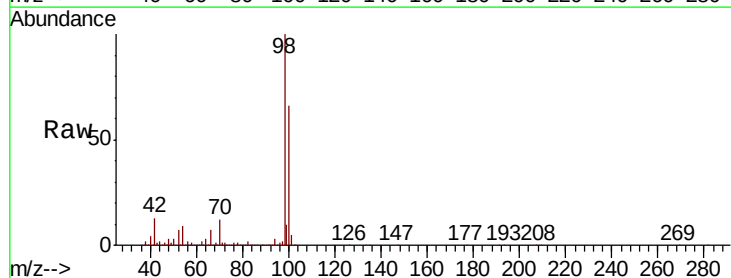
Instrument :
MSVOA_X
ClientSampleId :

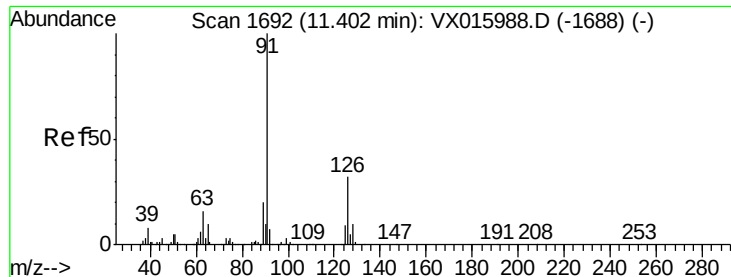
Tot Ion	Ratio	Lower	Upper
95	100		
174	81.4	64.8	97.2
176	76.9	62.4	93.6



#63
Toluene-d8
Concen: 30.755 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX015999.D
Acq: 30 Apr 2020 16:45

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.3	52.5	78.7





#75

2-Chlorotoluene

Concen: 0.490 ug/l

RT: 11.41 min Scan# 1693

Delta R.T. 0.01 min

Lab File: VX015999.D

Acq: 30 Apr 2020 16:45

Instrument :

MSVOA_X

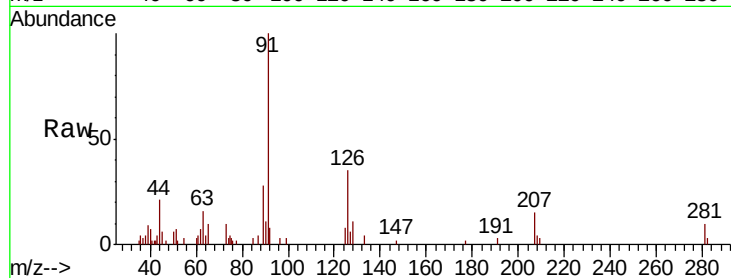
ClientSampleId :

Tot Ion: 91 Resp: 4531

Ion Ratio Lower Upper

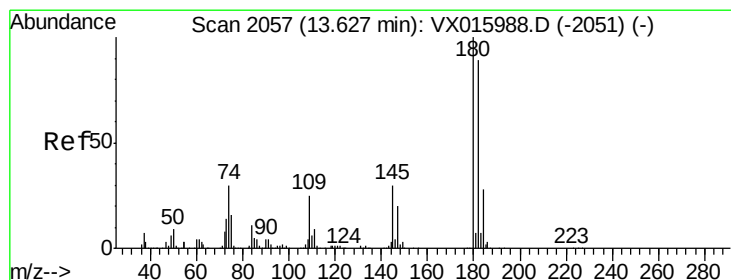
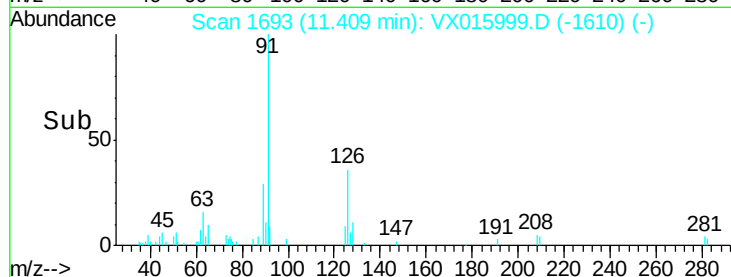
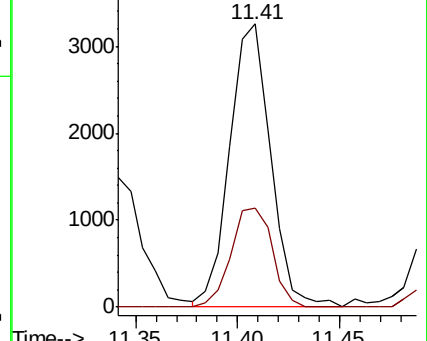
91 100

126 35.1 0.0 66.2



Abundance Ion 91.00 (90.70 to 91.70): VX015988.D (-1688) (-)

Ion 126.00 (125.70 to 126.70): VX015988.D (-1688) (-)



#89

1,2,4-Trichlorobenzene

Concen: 0.262 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. 0.00 min

Lab File: VX015999.D

Acq: 30 Apr 2020 16:45

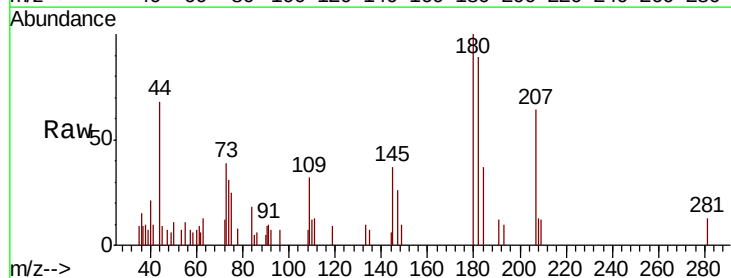
Tgt Ion: 180 Resp: 1151

Ion Ratio Lower Upper

180 100

182 94.1 75.0 112.6

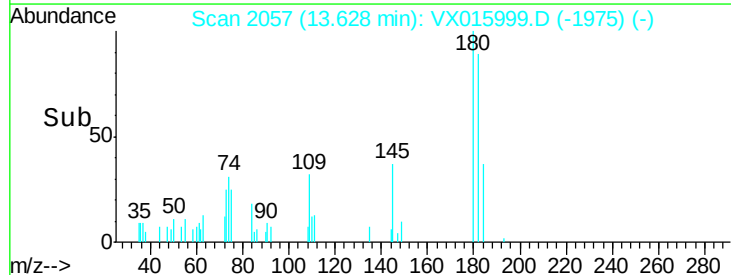
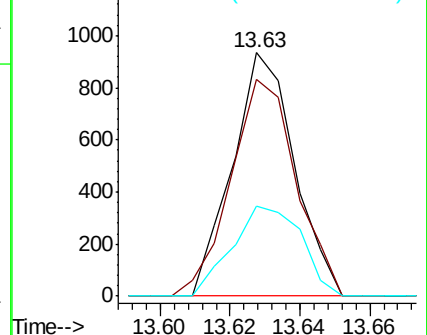
145 41.3 23.9 35.9#

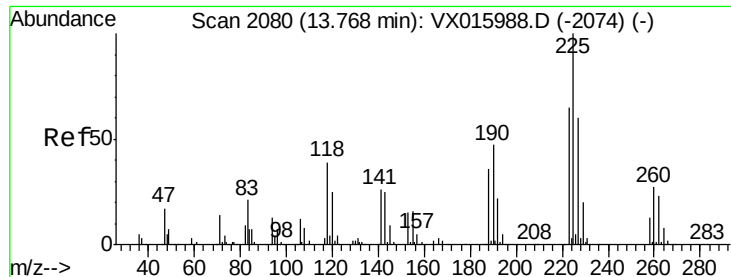


Abundance Ion 180.00 (179.70 to 180.70): VX015988.D (-2051) (-)

Ion 182.00 (181.70 to 182.70): VX015988.D (-2051) (-)

Ion 145.00 (144.70 to 145.70): VX015988.D (-2051) (-)





#90

Hexachlorobutadiene

Concen: 0.297 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX015999.D

Acq: 30 Apr 2020 16:45

Instrument :

MSVOA_X

ClientSampled :

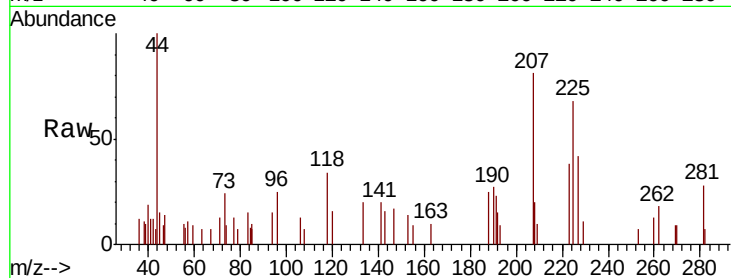
Tot Ion:225 Resp: 560

Ion Ratio Lower Upper

225 100

223 54.6 0.0 123.6

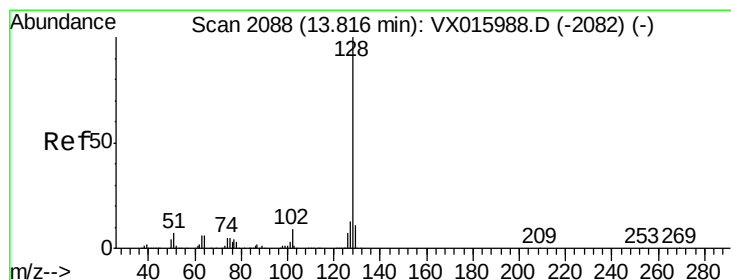
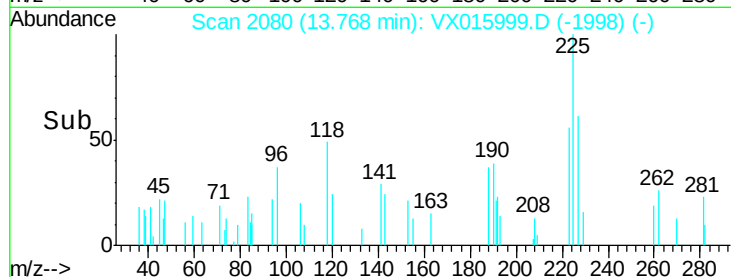
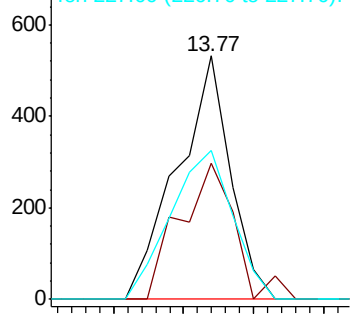
227 72.0 0.0 123.6



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 0.215 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX015999.D

Acq: 30 Apr 2020 16:45

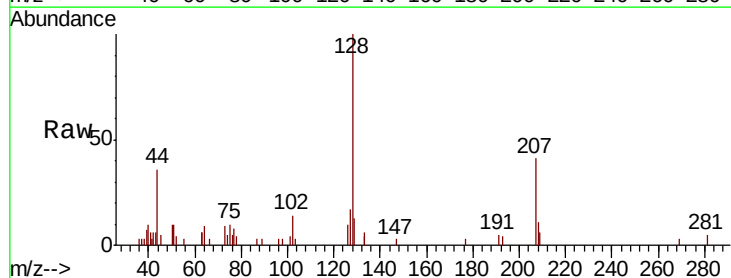
Tgt Ion:128 Resp: 2998

Ion Ratio Lower Upper

128 100

127 13.8 10.5 15.7

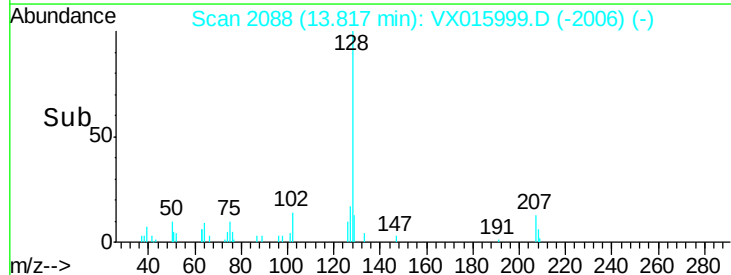
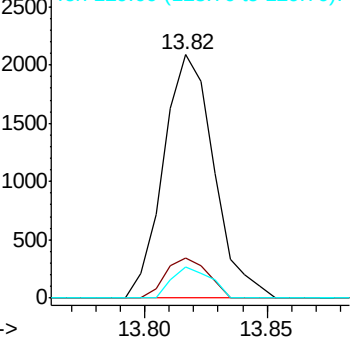
129 9.8 8.6 13.0

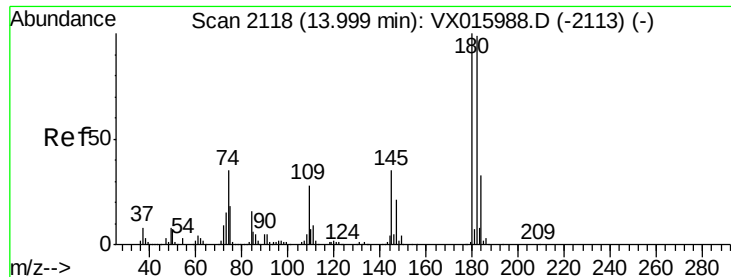


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

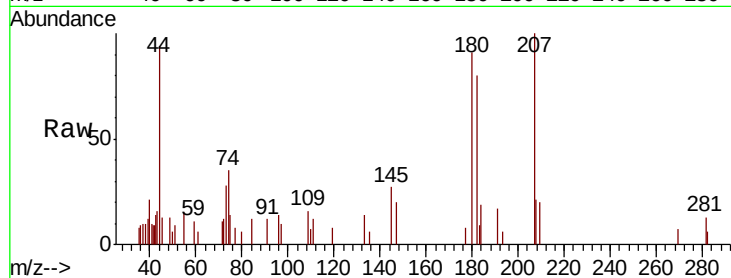




#92
 1,2,3-Trichlorobenzene
 Concen: 0.202 ug/l
 RT: 14.01 min Scan# 2119
 Delta R.T. 0.01 min
 Lab File: VX015999.D
 Acq: 30 Apr 2020 16:45

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	102.0	0.0	197.2
145	41.3	0.0	66.0



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

