

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX051420\
 Data File : VX016223.D
 Acq On : 14 May 2020 12:14
 Operator : JC/SP
 Sample : L2596-02 20X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 E-1U

Quant Time: May 15 01:31:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X050420W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 06 06:43:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	233118	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	392070	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	390997	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	216735	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	145485	47.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.86%	
35) Dibromofluoromethane	5.47	113	120434	48.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.98%	
50) Toluene-d8	8.70	98	487325	50.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.84%	
62) 4-Bromofluorobenzene	11.12	95	204482	56.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.34%	

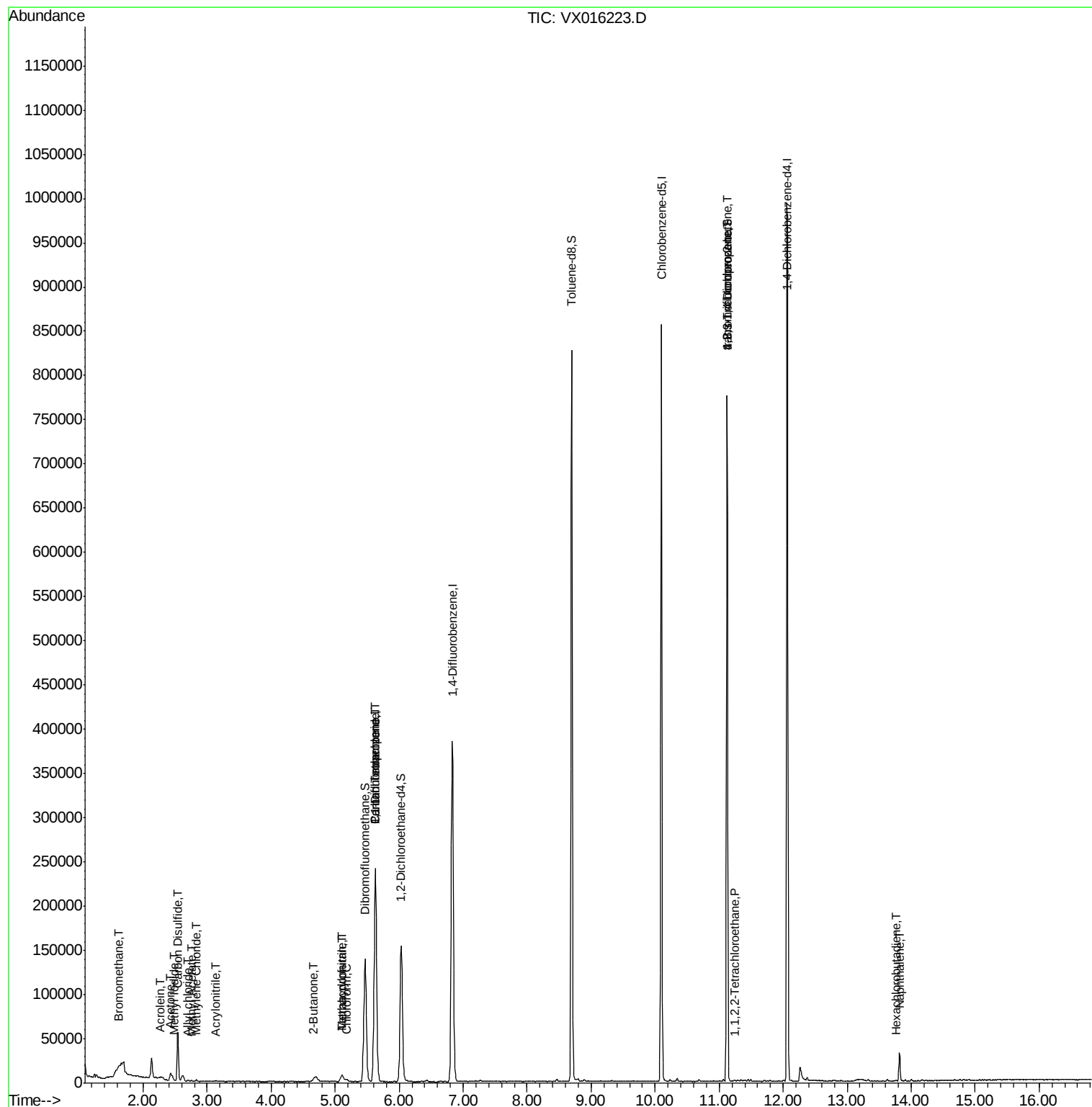
Target Compounds						Qvalue
5) Bromomethane	1.62	94	598	0.39	ug/l #	66
10) Methyl Iodide	2.50	142	719	0.23	ug/l #	74
13) Acrolein	2.28	56	401	0.83	ug/l	94
14) Allyl chloride	2.69	41	1284	0.29	ug/l #	38
15) Acrylonitrile	3.12	53	412	0.26	ug/l	97
16) Acetone	2.43	43	9701	7.09	ug/l #	86
17) Carbon Disulfide	2.54	76	69639	9.40	ug/l	99
18) Methyl Acetate	2.75	43	1184	0.35	ug/l	98
20) Methylene Chloride	2.82	84	846	0.30	ug/l #	76
25) 2-Butanone	4.65	43	3893	1.77	ug/l	92
29) Tetrahydrofuran	5.10	42	7495	5.13	ug/l	99
30) Chloroform	5.17	83	1468	0.31	ug/l	99
36) 1,1-Dichloropropene	5.62	75	17234	4.47	ug/l #	49
38) Carbon Tetrachloride	5.63	117	22579	5.76	ug/l #	14
41) Methacrylonitrile	5.11	41	4401	1.82	ug/l #	45
75) 1,1,2,2-Tetrachloroethane	11.24	83	20	2.06	ug/l #	26
76) 1,2,3-Trichloropropane	11.12	75	99757	20.28	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	99757	48.34	ug/l #	13
94) Hexachlorobutadiene	13.76	225	226	0.62	ug/l	97
95) Naphthalene	13.82	128	19288	1.14	ug/l	99

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX016223.D

Acq: 14 May 2020 12:14

Instrument :

MSVOA_X

ClientSampleId :

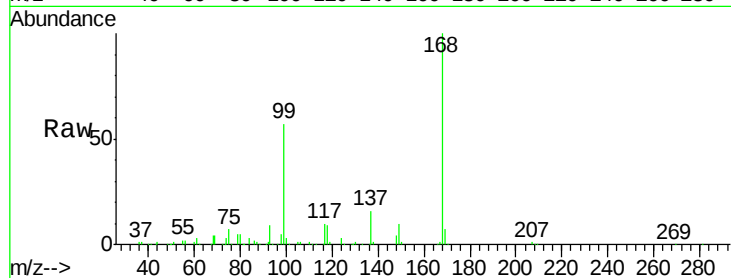
E-1U

Tgt Ion:168 Resp: 233118

Ion Ratio Lower Upper

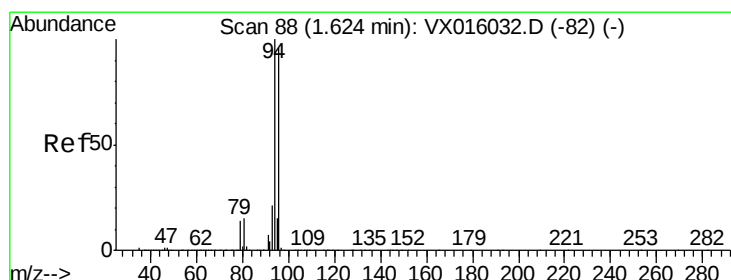
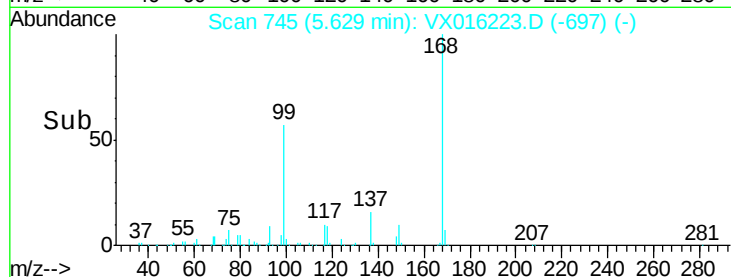
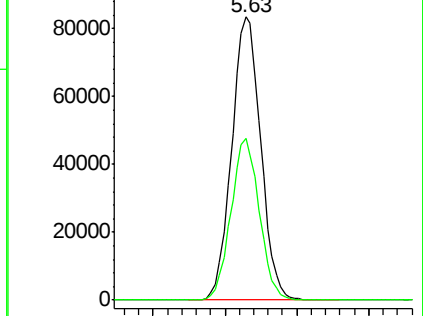
168 100

99 57.0 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.39 ug/l

RT: 1.62 min Scan# 87

Delta R.T. -0.01 min

Lab File: VX016223.D

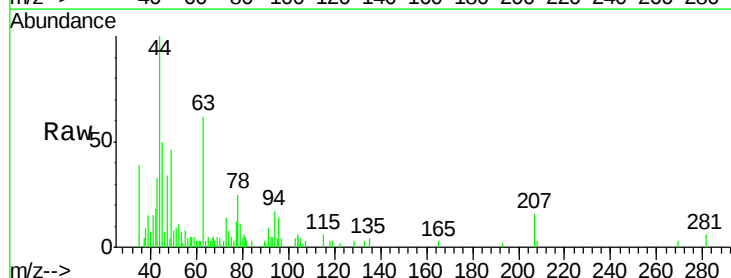
Acq: 14 May 2020 12:14

Tgt Ion: 94 Resp: 598

Ion Ratio Lower Upper

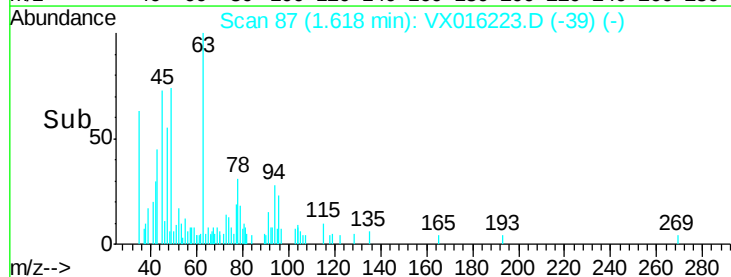
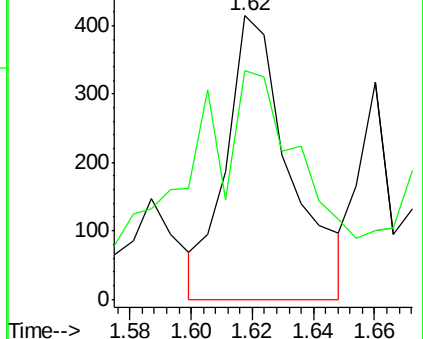
94 100

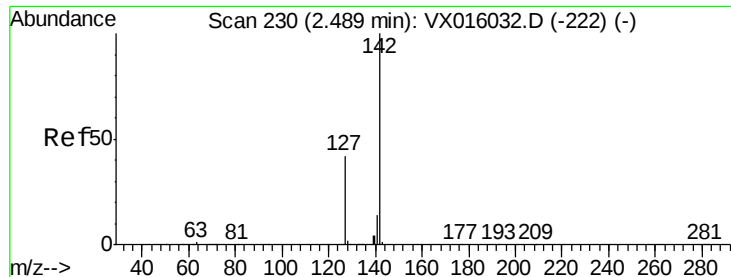
96 62.7 76.9 115.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

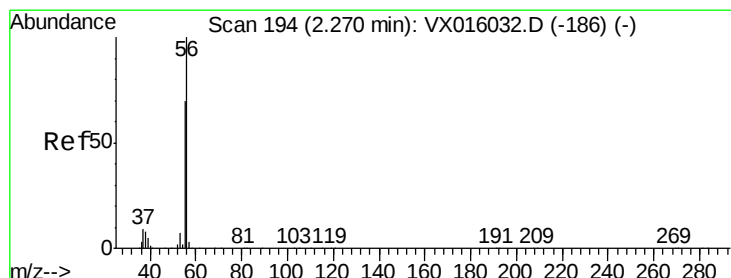
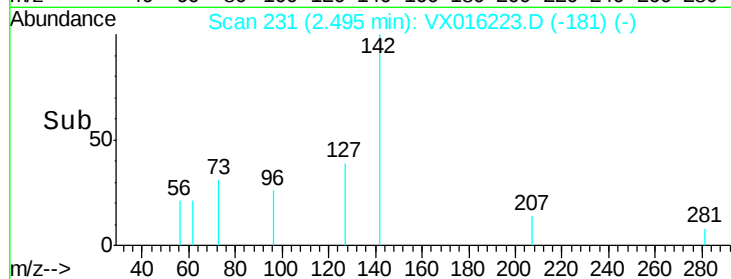
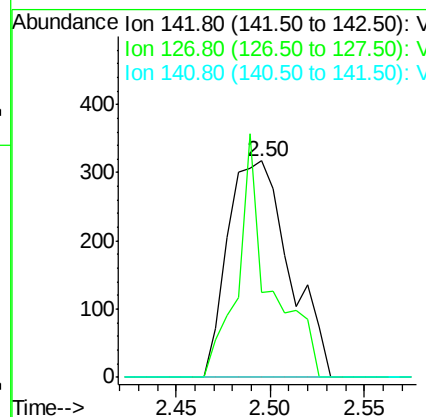
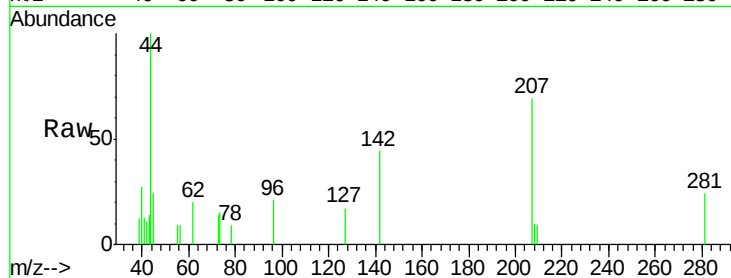




#10
Methyl Iodide
Concen: 0.23 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX016223.D
Acq: 14 May 2020 12:14

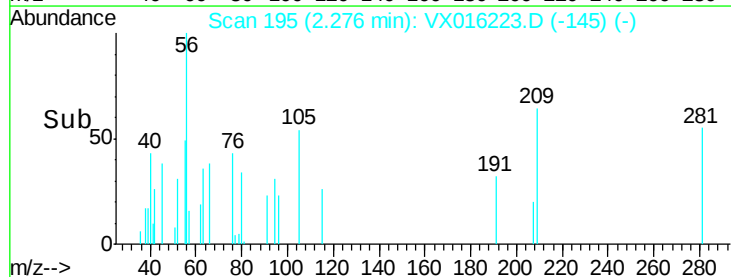
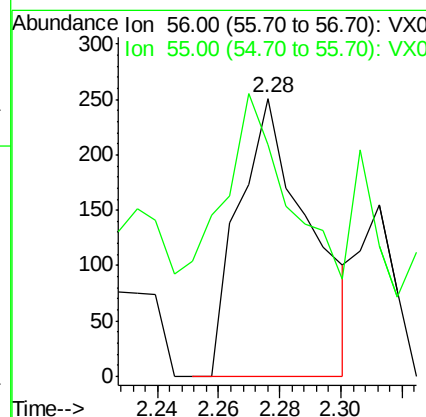
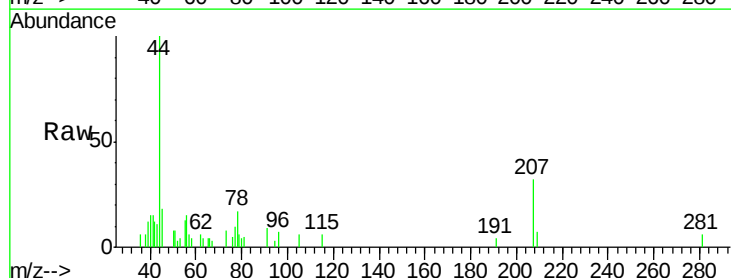
Instrument :
MSVOA_X
ClientSampled :
E-1U

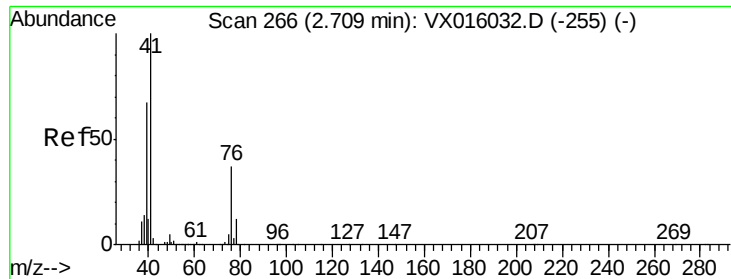
Tgt Ion: 142 Resp: 719
Ion Ratio Lower Upper
142 100
127 58.4 34.6 52.0#
141 0.0 11.3 16.9#



#13
Acrolein
Concen: 0.83 ug/l
RT: 2.28 min Scan# 195
Delta R.T. 0.01 min
Lab File: VX016223.D
Acq: 14 May 2020 12:14

Tgt Ion: 56 Resp: 401
Ion Ratio Lower Upper
56 100
55 65.8 56.5 84.7

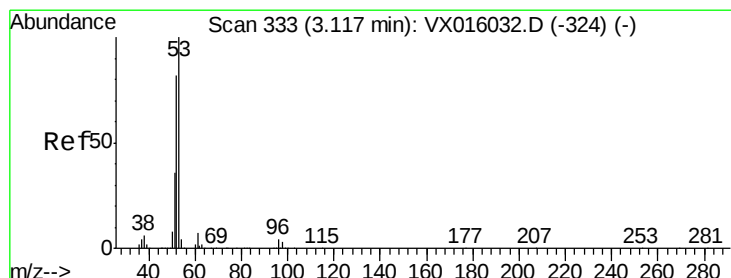
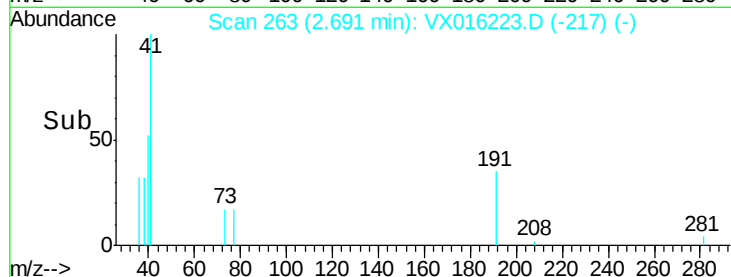
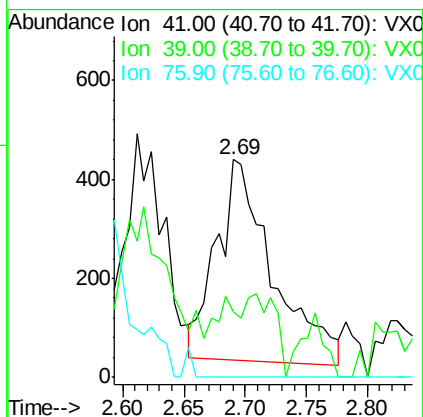
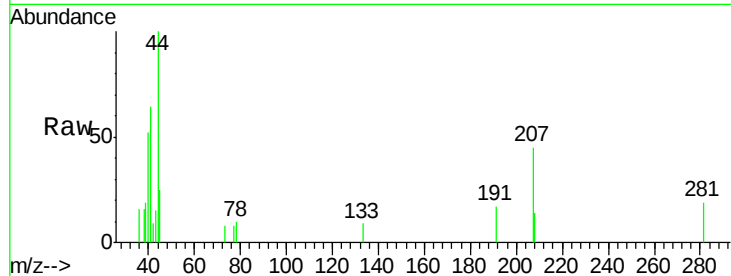




#14
 Allyl chloride
 Concen: 0.29 ug/l
 RT: 2.69 min Scan# 263
 Delta R.T. -0.02 min
 Lab File: VX016223.D
 Acq: 14 May 2020 12:14

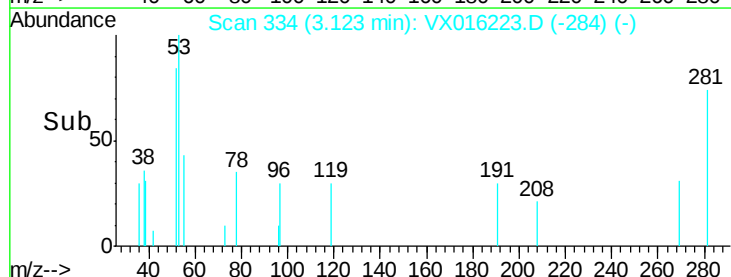
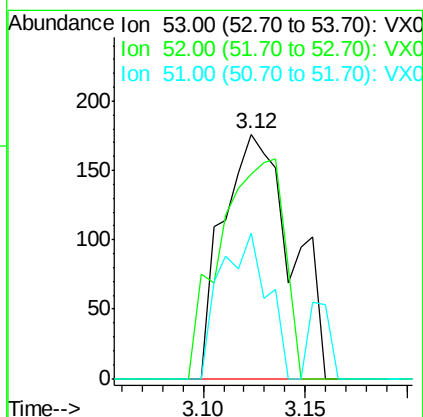
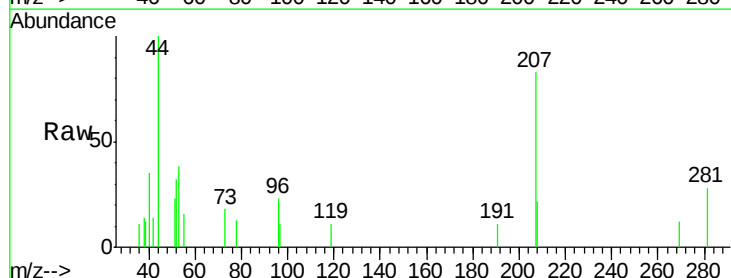
Instrument :
 MSVOA_X
 ClientSampled :
 E-1U

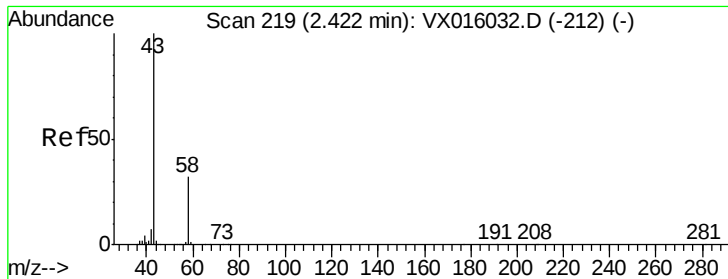
Tgt Ion: 41 Resp: 1284
 Ion Ratio Lower Upper
 41 100
 39 13.9 50.5 75.7#
 76 0.0 26.6 40.0#



#15
 Acrylonitrile
 Concen: 0.26 ug/l
 RT: 3.12 min Scan# 334
 Delta R.T. 0.01 min
 Lab File: VX016223.D
 Acq: 14 May 2020 12:14

Tgt Ion: 53 Resp: 412
 Ion Ratio Lower Upper
 53 100
 52 83.5 66.1 99.1
 51 41.3 28.8 43.2





#16

Acetone

Concen: 7.09 ug/l

RT: 2.43 min Scan# 220

Delta R.T. 0.01 min

Lab File: VX016223.D

Acq: 14 May 2020 12:14

Instrument :

MSVOA_X

ClientSampleId :

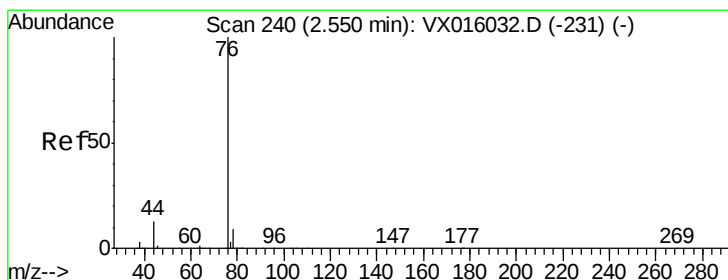
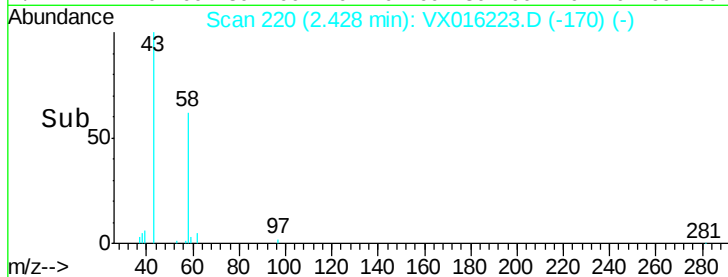
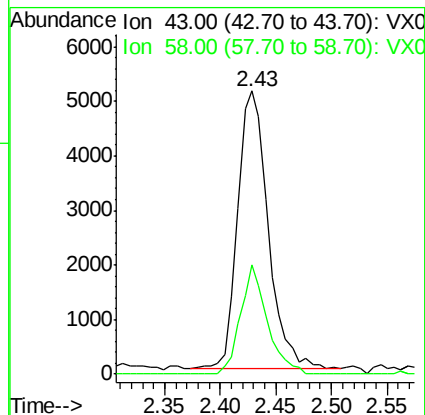
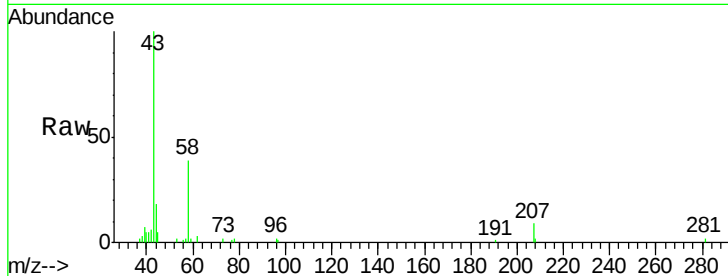
E-1U

Tgt Ion: 43 Resp: 9701

Ion Ratio Lower Upper

43 100

58 39.4 25.4 38.0#



#17

Carbon Disulfide

Concen: 9.40 ug/l

RT: 2.54 min Scan# 239

Delta R.T. -0.01 min

Lab File: VX016223.D

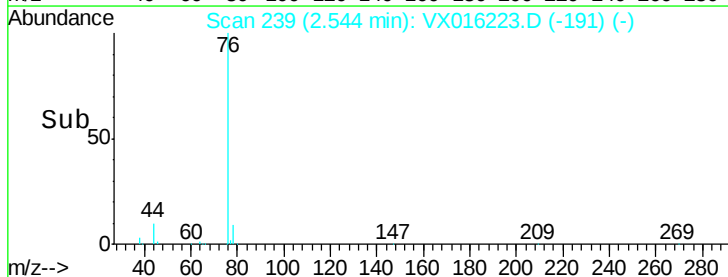
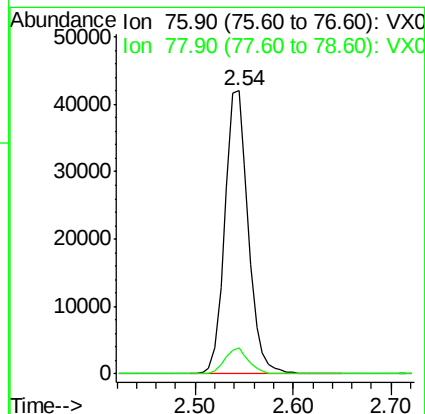
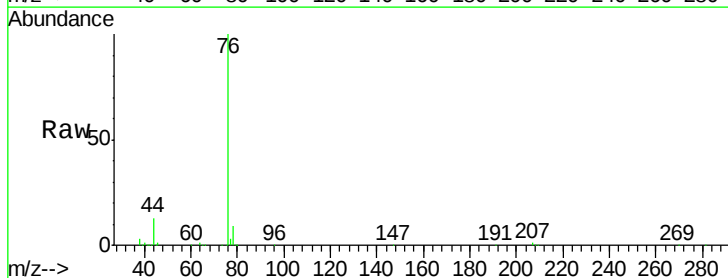
Acq: 14 May 2020 12:14

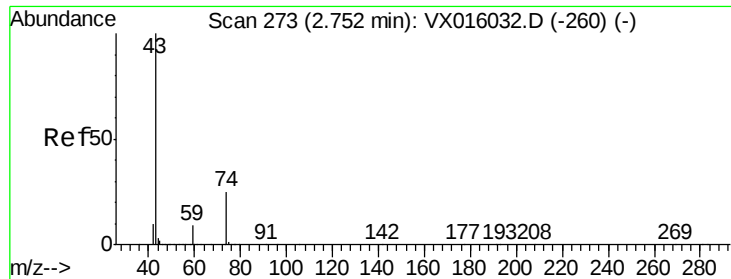
Tgt Ion: 76 Resp: 69639

Ion Ratio Lower Upper

76 100

78 9.1 7.5 11.3

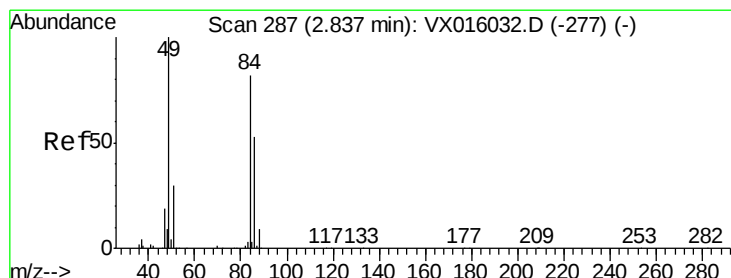
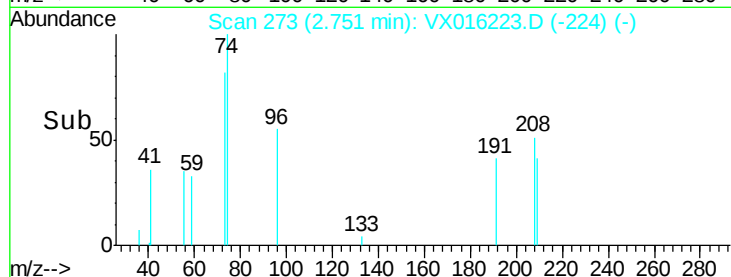
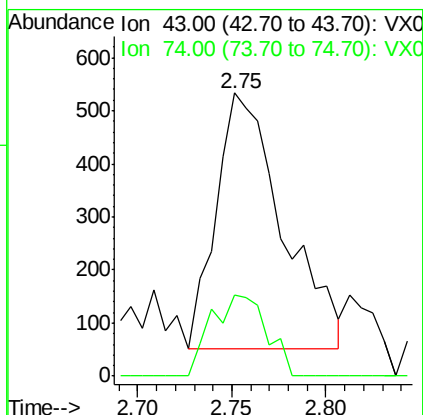
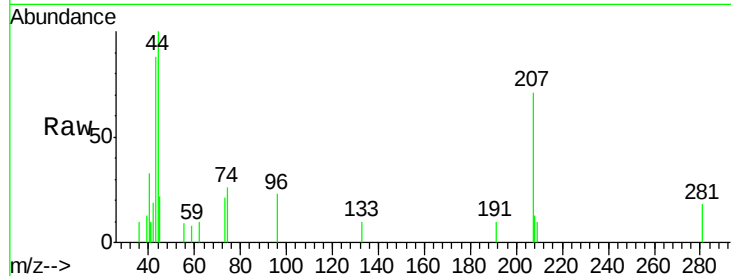




#18
Methyl Acetate
Concen: 0.35 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX016223.D
Acq: 14 May 2020 12:14

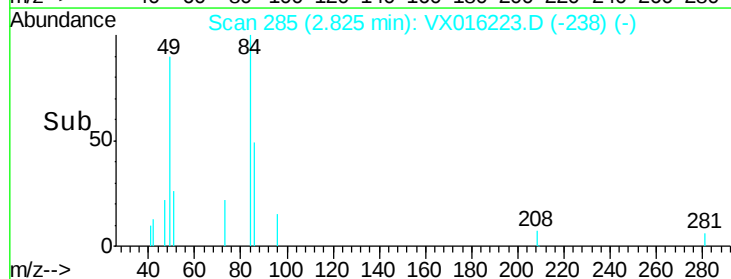
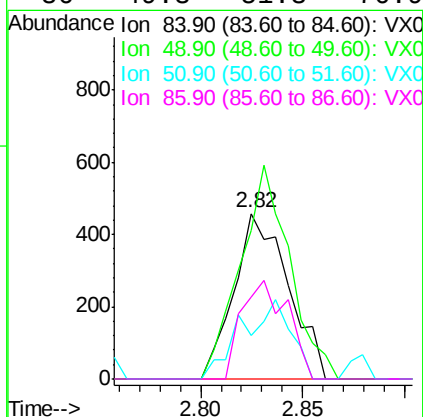
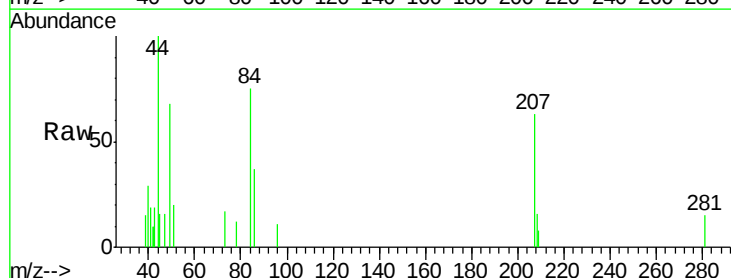
Instrument :
MSVOA_X
ClientSampled :
E-1U

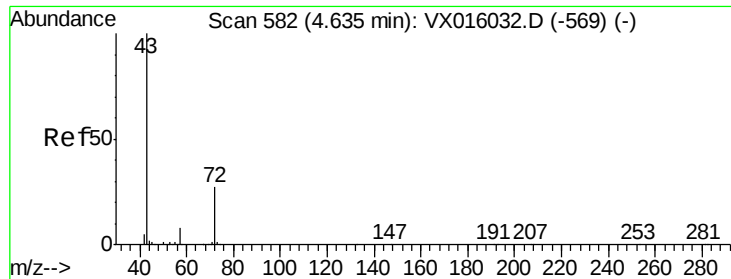
Tgt Ion: 43 Resp: 1184
Ion Ratio Lower Upper
43 100
74 26.4 20.2 30.2



#20
Methylene Chloride
Concen: 0.30 ug/l
RT: 2.82 min Scan# 285
Delta R.T. -0.01 min
Lab File: VX016223.D
Acq: 14 May 2020 12:14

Tgt Ion: 84 Resp: 846
Ion Ratio Lower Upper
84 100
49 89.7 97.3 145.9#
51 26.4 29.3 43.9#
86 49.3 51.3 76.9#





#25

2-Butanone

Concen: 1.77 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX016223.D

Acq: 14 May 2020 12:14

Instrument :

MSVOA_X

ClientSampled :

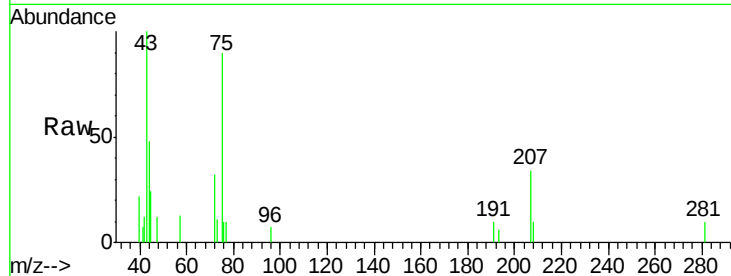
E-1U

Tgt Ion: 43 Resp: 3893

Ion Ratio Lower Upper

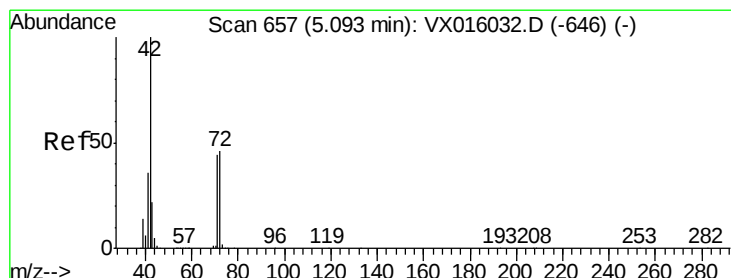
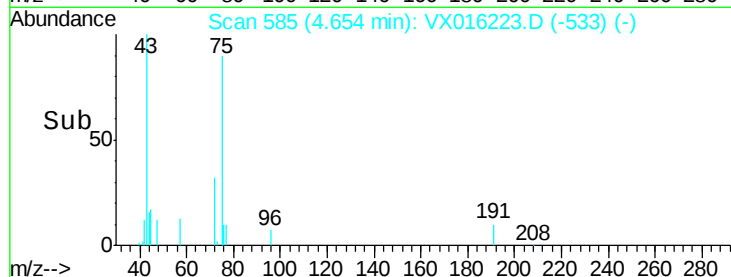
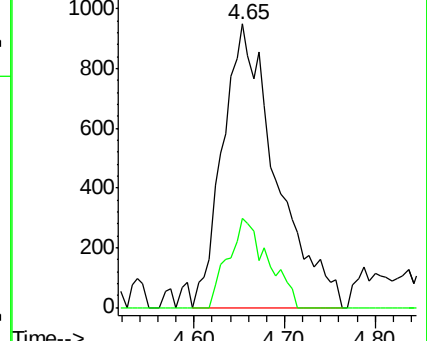
43 100

72 31.5 21.8 32.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 5.13 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX016223.D

Acq: 14 May 2020 12:14

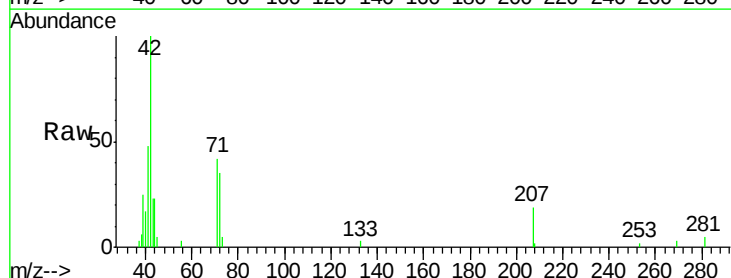
Tgt Ion: 42 Resp: 7495

Ion Ratio Lower Upper

42 100

72 44.7 37.1 55.7

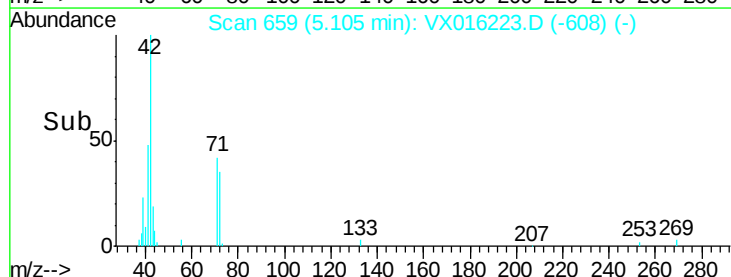
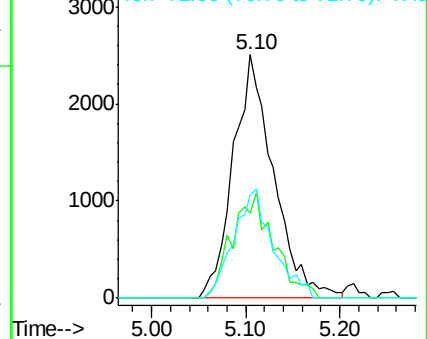
71 43.3 34.5 51.7

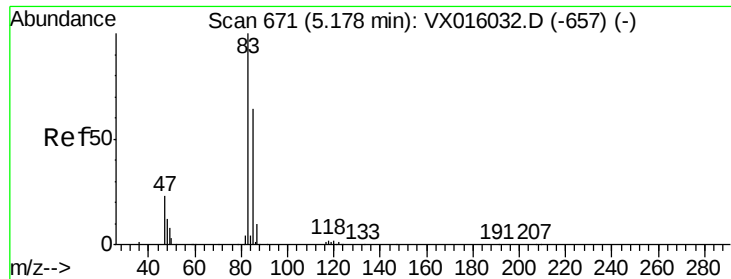


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

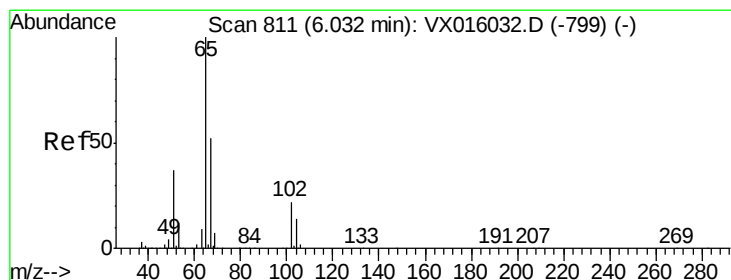
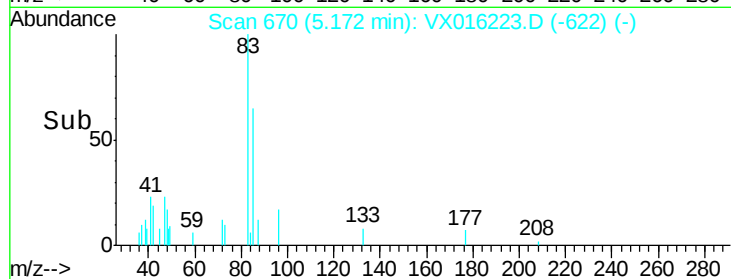
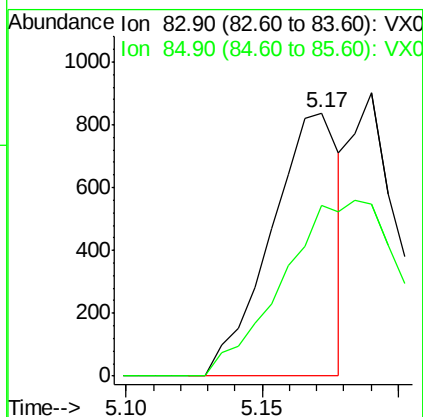
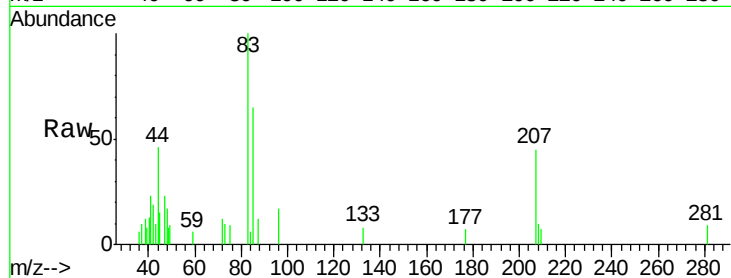




#30
Chloroform
Concen: 0.31 ug/l
RT: 5.17 min Scan# 670
Delta R.T. -0.01 min
Lab File: VX016223.D
Acq: 14 May 2020 12:14

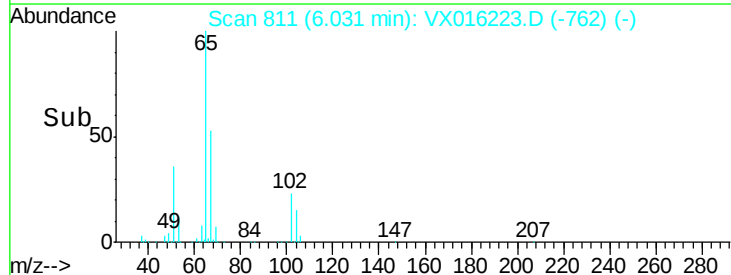
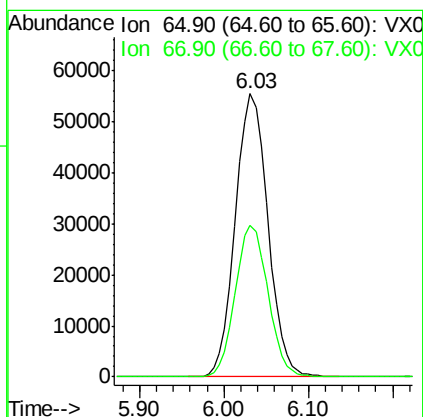
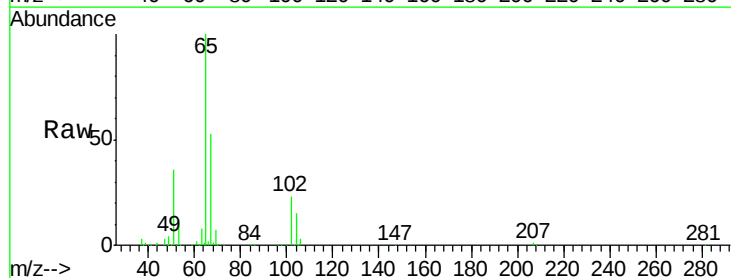
Instrument :
MSVOA_X
ClientSampled :
E-1U

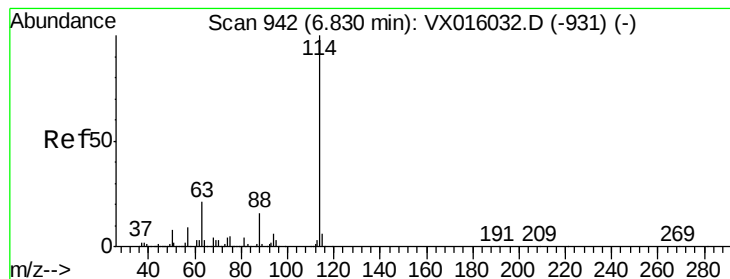
Tgt Ion: 83 Resp: 1468
Ion Ratio Lower Upper
83 100
85 65.1 51.6 77.4



#33
1,2-Dichloroethane-d4
Concen: 47.43 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX016223.D
Acq: 14 May 2020 12:14

Tgt Ion: 65 Resp: 145485
Ion Ratio Lower Upper
65 100
67 53.8 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016223.D

Acq: 14 May 2020 12:14

Instrument :

MSVOA_X

ClientSampleId :

E-1U

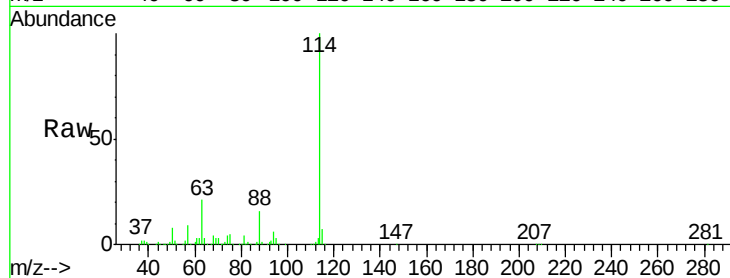
Tgt Ion:114 Resp: 392070

Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.8

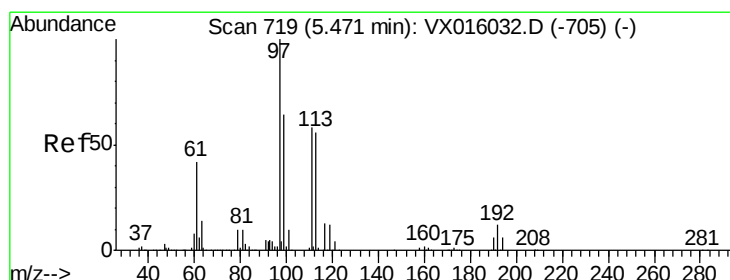
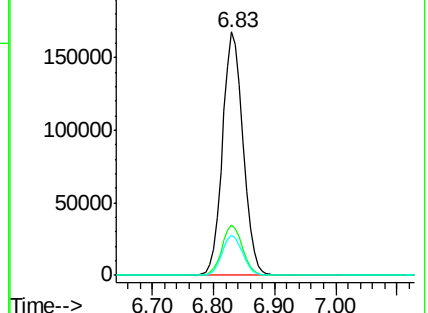
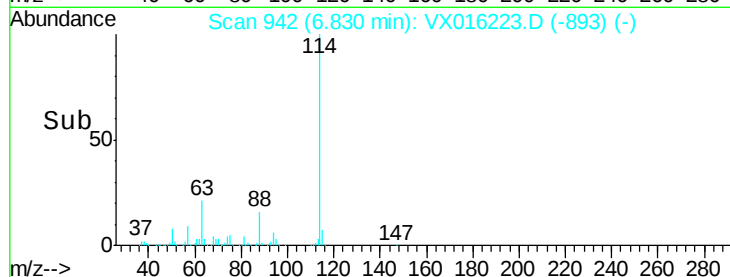
88 16.3 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 48.49 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016223.D

Acq: 14 May 2020 12:14

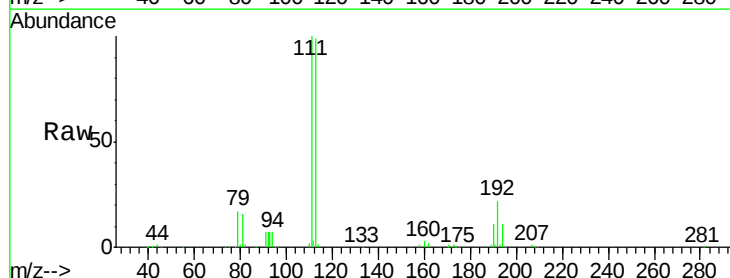
Tgt Ion:113 Resp: 120434

Ion Ratio Lower Upper

113 100

111 102.7 81.6 122.4

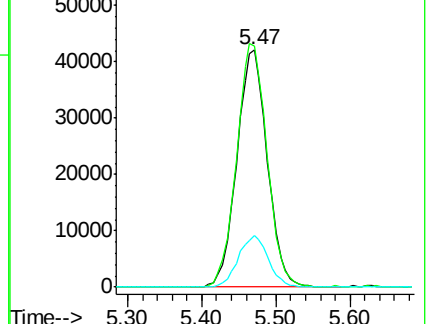
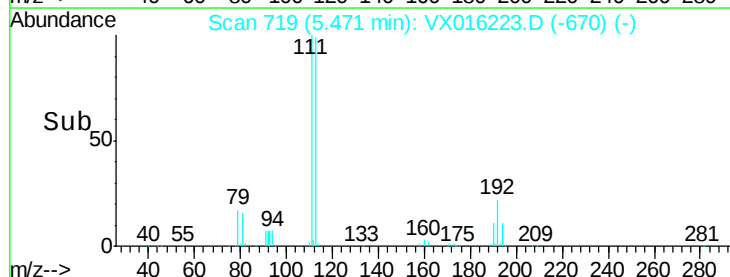
192 21.5 17.0 25.4

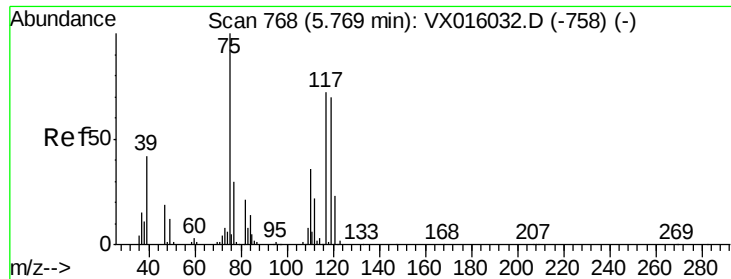


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.47 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.15 min

Lab File: VX016223.D

Acq: 14 May 2020 12:14

Instrument :

MSVOA_X

ClientSampleId :

E-1U

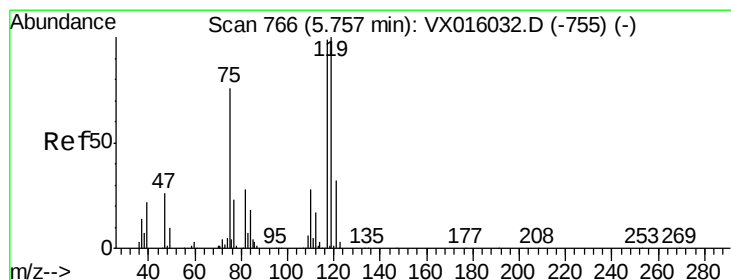
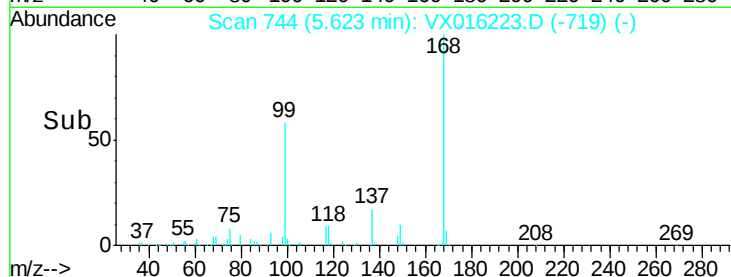
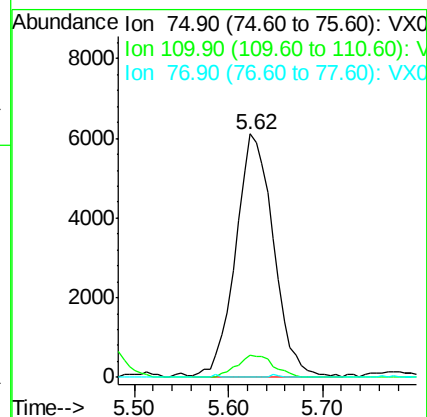
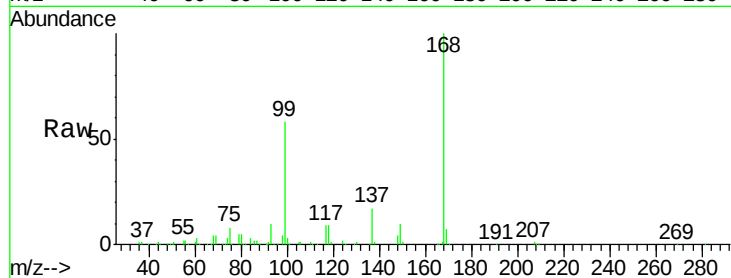
Tgt Ion: 75 Resp: 17234

Ion Ratio Lower Upper

75 100

110 8.7 18.1 54.1#

77 0.0 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.76 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016223.D

Acq: 14 May 2020 12:14

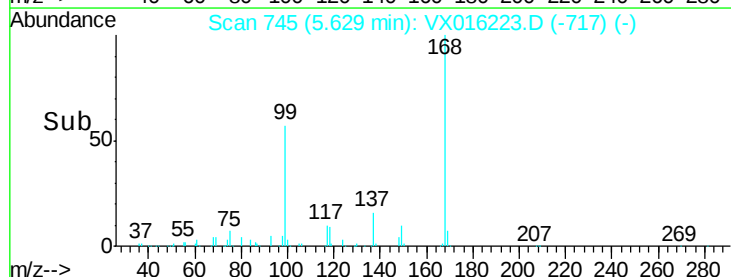
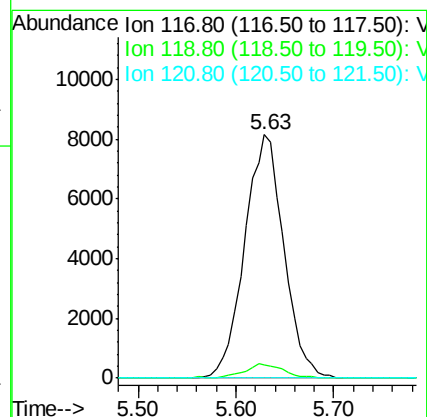
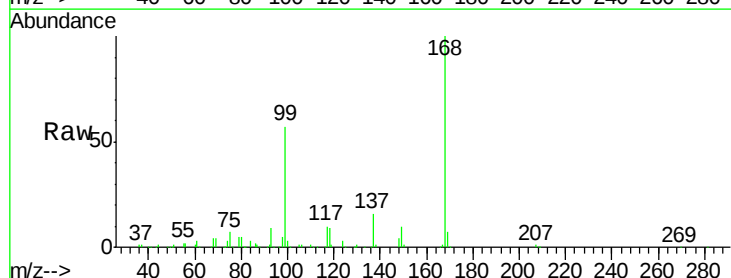
Tgt Ion: 117 Resp: 22579

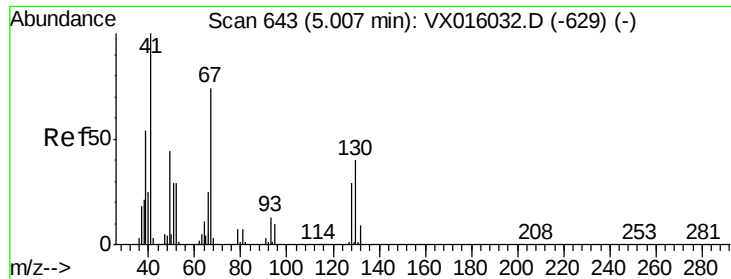
Ion Ratio Lower Upper

117 100

119 5.6 80.3 120.5#

121 0.0 25.7 38.5#





#41

Methacrylonitrile

Concen: 1.82 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.10 min

Lab File: VX016223.D

Acq: 14 May 2020 12:14

Instrument :

MSVOA_X

ClientSampleId :

E-1U

Tgt Ion: 41 Resp: 4401

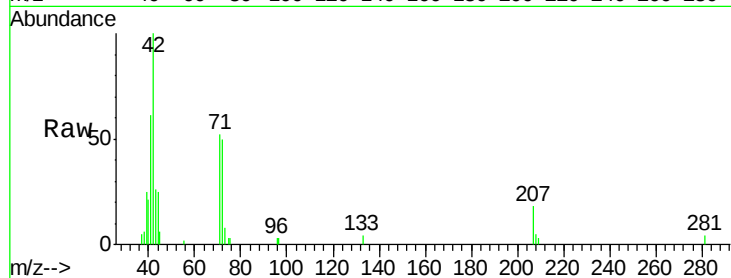
Ion Ratio Lower Upper

41 100

39 47.1 43.2 64.8

67 0.0 59.3 88.9#

52 0.0 23.5 35.3#

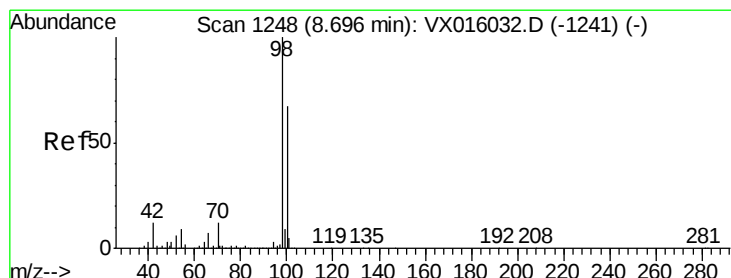
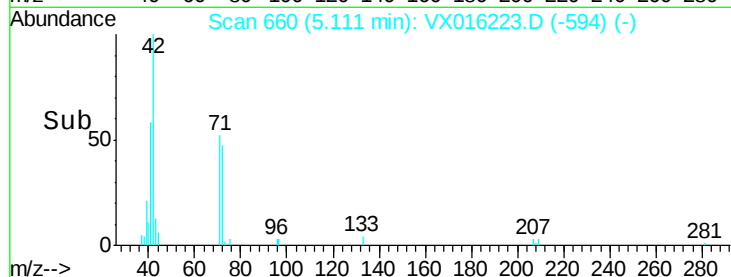
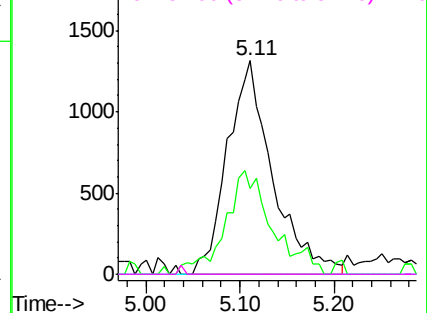


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#50

Toluene-d8

Concen: 50.92 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016223.D

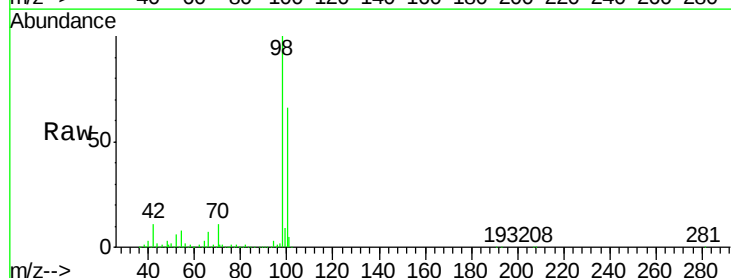
Acq: 14 May 2020 12:14

Tgt Ion: 98 Resp: 487325

Ion Ratio Lower Upper

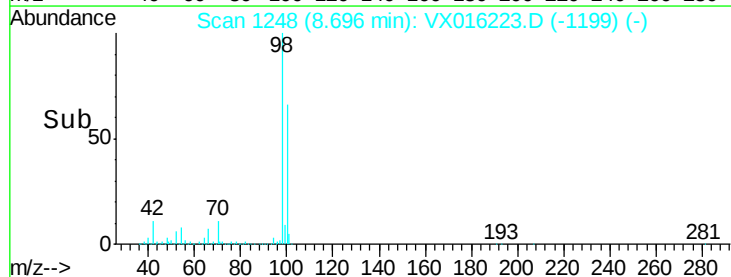
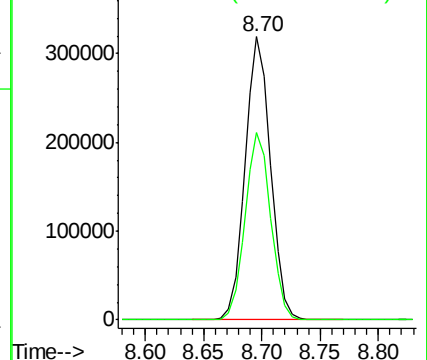
98 100

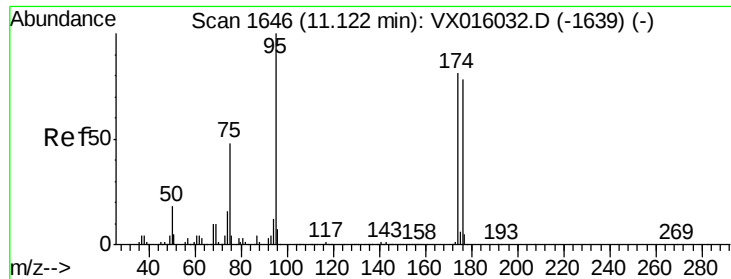
100 66.6 53.7 80.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

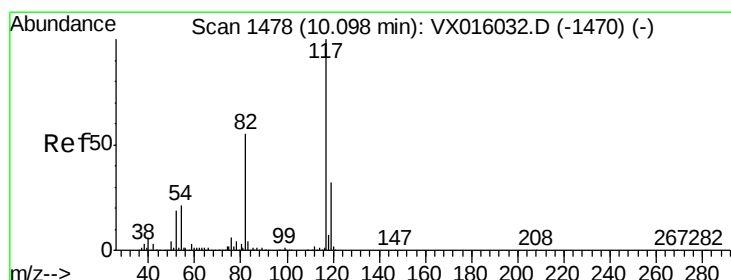
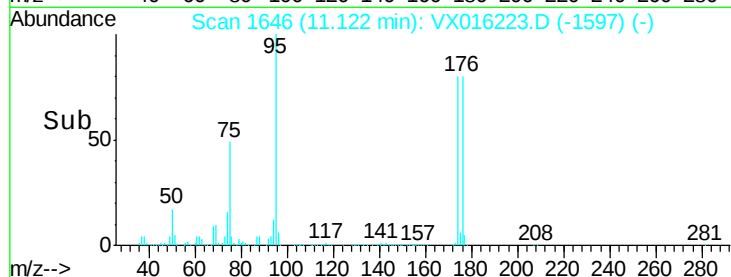
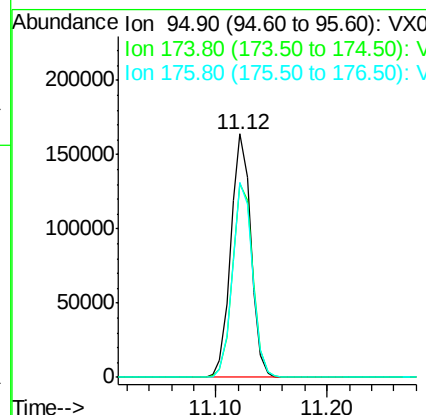
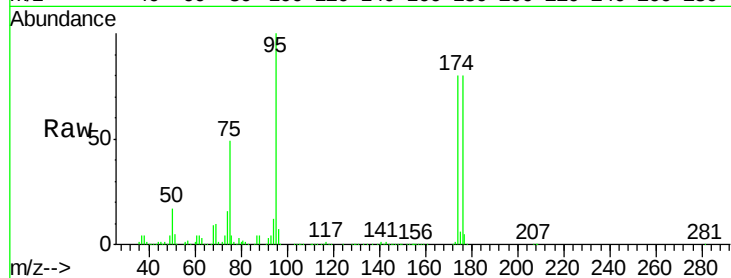




#62
4-Bromofluorobenzene
Concen: 56.17 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016223.D
Acq: 14 May 2020 12:14

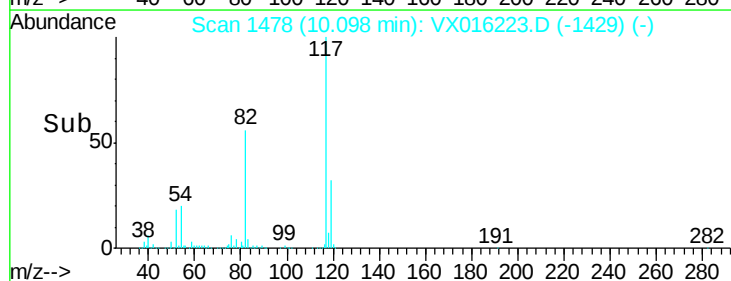
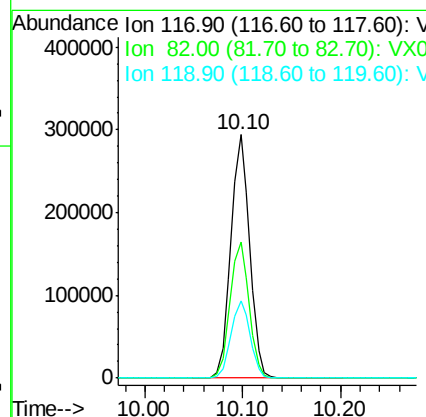
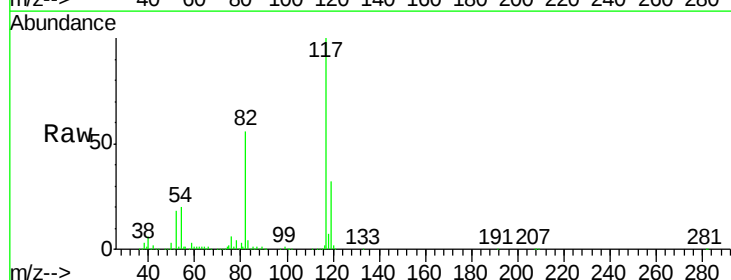
Instrument :
MSVOA_X
ClientSampleId :
E-1U

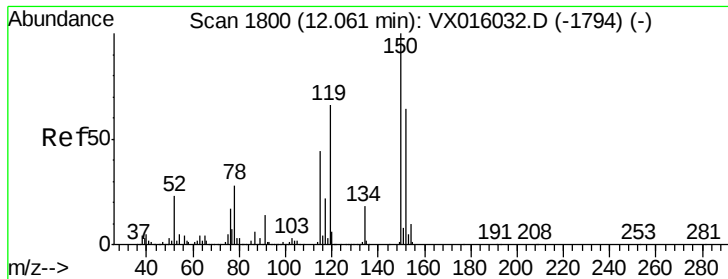
Tgt Ion: 95 Resp: 204482
Ion Ratio Lower Upper
95 100
174 80.4 0.0 159.4
176 79.5 0.0 157.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016223.D
Acq: 14 May 2020 12:14

Tgt Ion: 117 Resp: 390997
Ion Ratio Lower Upper
117 100
82 56.1 44.4 66.6
119 31.9 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.07 min Scan# 1801

Delta R.T. 0.01 min

Lab File: VX016223.D

Acq: 14 May 2020 12:14

Instrument :

MSVOA_X

ClientSampleId :

E-1U

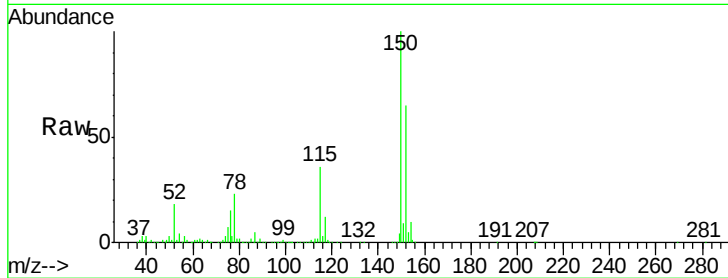
Tgt Ion:152 Resp: 216735

Ion Ratio Lower Upper

152 100

115 58.3 41.3 124.1

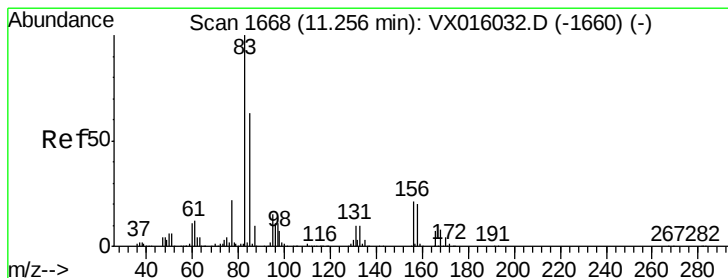
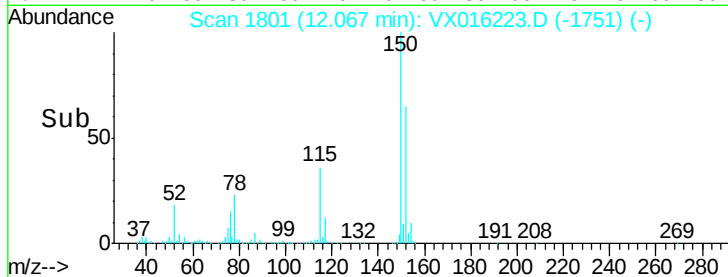
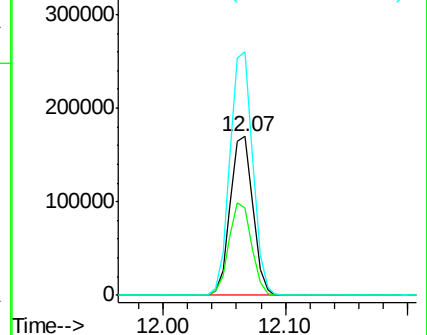
150 154.0 0.0 352.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#75

1,1,2,2-Tetrachloroethane

Concen: 2.06 ug/l

RT: 11.24 min Scan# 1666

Delta R.T. -0.01 min

Lab File: VX016223.D

Acq: 14 May 2020 12:14

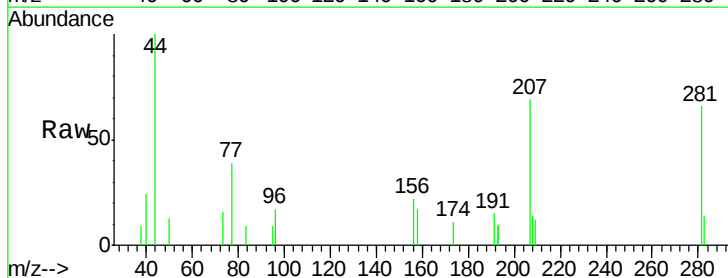
Tgt Ion: 83 Resp: 20

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

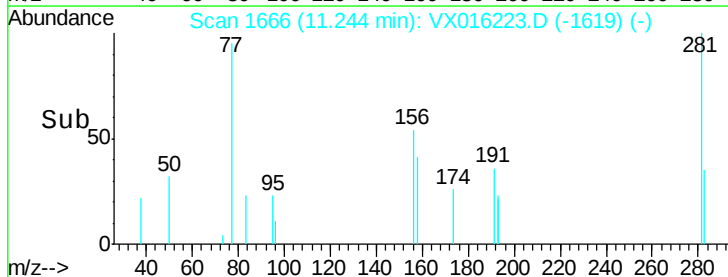
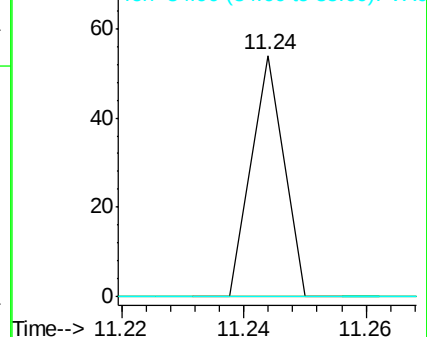
85 0.0 32.0 96.0#

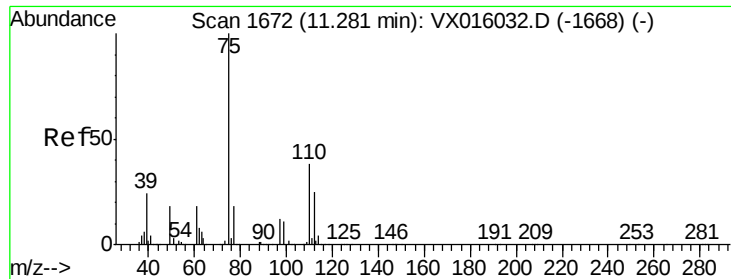


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0

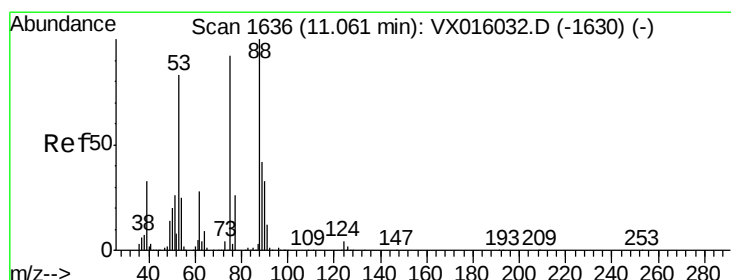
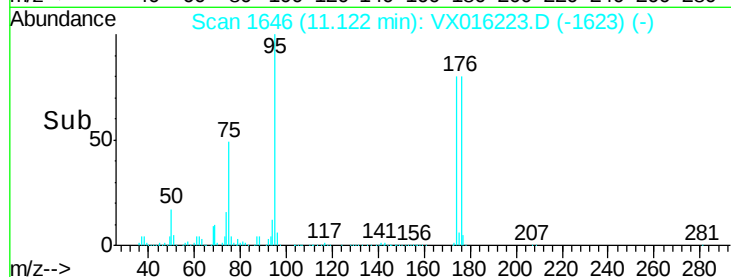
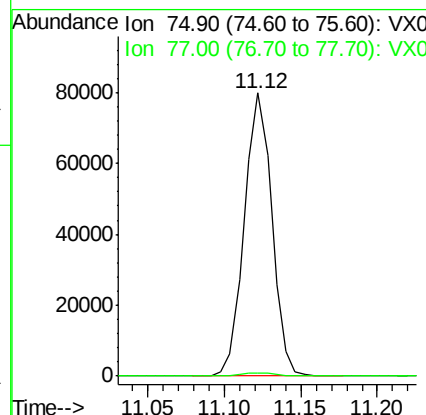
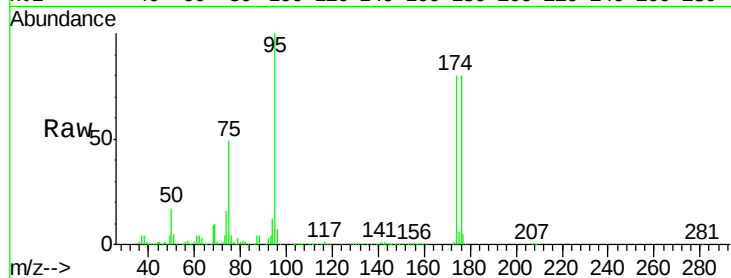




#76
 1,2,3-Trichloropropane
 Concen: 20.28 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX016223.D
 Acq: 14 May 2020 12:14

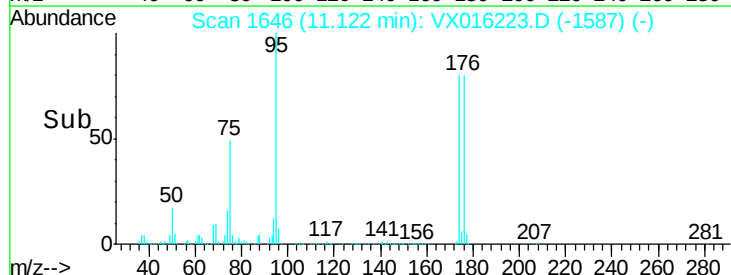
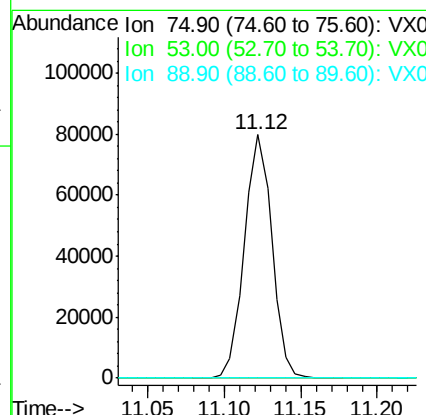
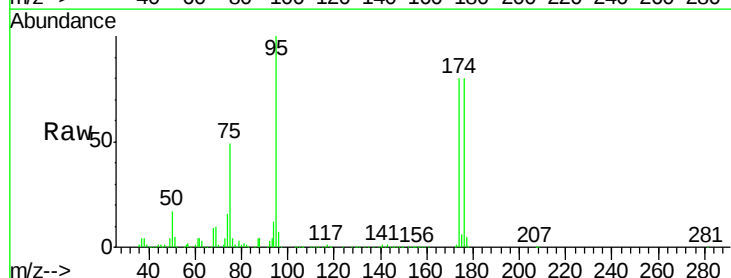
Instrument :
 MSVOA_X
 ClientSampleId :
 E-1U

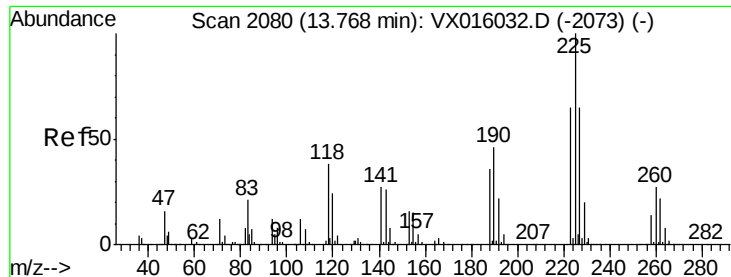
Tgt Ion: 75 Resp: 99757
 Ion Ratio Lower Upper
 75 100
 77 1.4 21.2 63.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 48.34 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX016223.D
 Acq: 14 May 2020 12:14

Tgt Ion: 75 Resp: 99757
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.1 109.7#
 89 0.0 36.7 55.1#





#94

Hexachlorobutadiene

Concen: 0.62 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.01 min

Lab File: VX016223.D

Acq: 14 May 2020 12:14

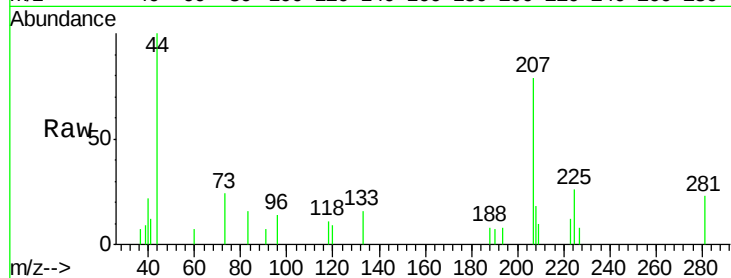
Instrument :

MSVOA_X

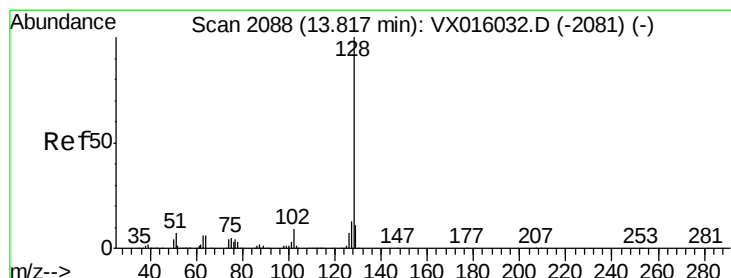
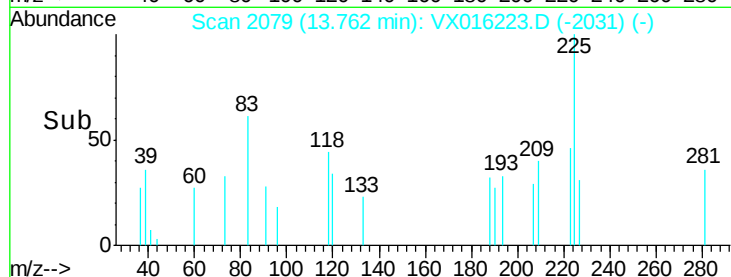
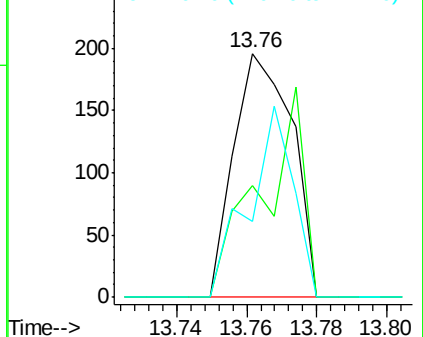
ClientSampleId :

E-1U

Tgt Ion:	225	Resp:	226
Ion	Ratio	Lower	Upper
225	100		
223	63.7	32.3	96.9
227	59.7	31.8	95.4



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 1.14 ug/l

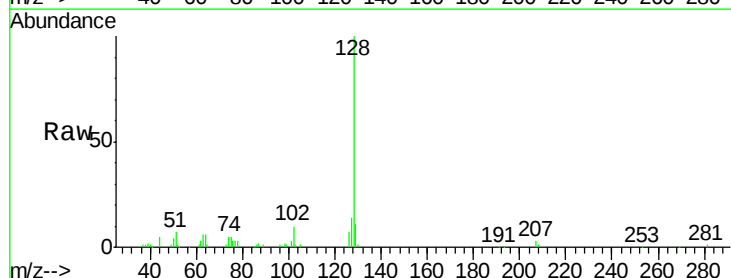
RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX016223.D

Acq: 14 May 2020 12:14

Tgt Ion:	128	Resp:	19288
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.4
129	10.8	8.7	13.1



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

