

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\WX070820\
 Data File : VX017257.D
 Acq On : 08 Jul 2020 15:53
 Operator : JC/SP
 Sample : L3207-01 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 31063

Quant Time: Jul 08 16:16:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	248986	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	417663	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	434420	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	244936	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	167152	54.46	ug/l	0.00
Spiked Amount			Recovery	=	108.92%	
35) Dibromofluoromethane	5.46	113	142905	54.09	ug/l	0.00
Spiked Amount			Recovery	=	108.18%	
50) Toluene-d8	8.70	98	505303	51.72	ug/l	0.00
Spiked Amount			Recovery	=	103.44%	
62) 4-Bromofluorobenzene	11.12	95	217484	56.95	ug/l	0.00
Spiked Amount			Recovery	=	113.90%	

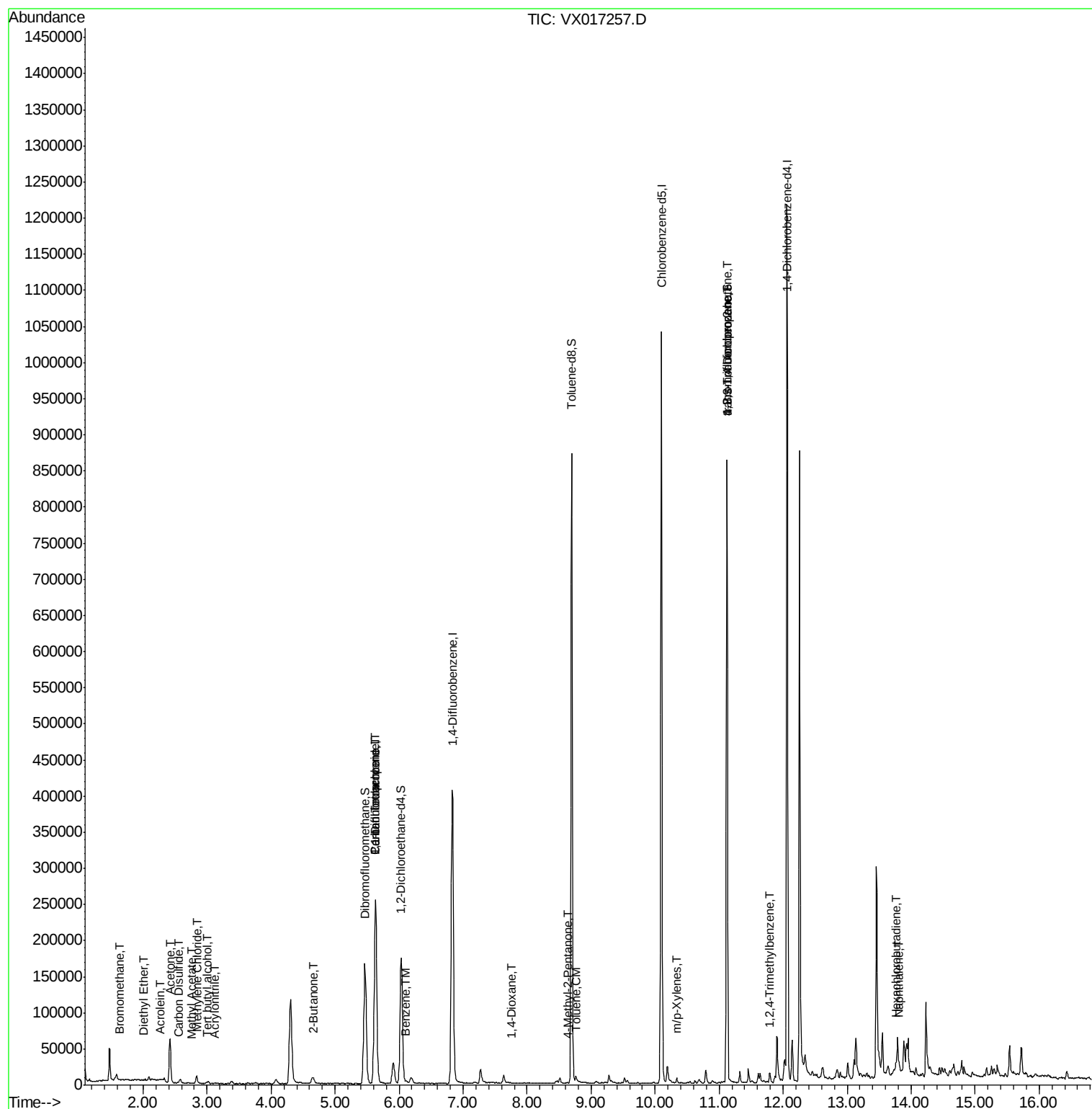
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	360	0.252	ug/l #	40
8) Diethyl Ether	2.01	74	225	0.531	ug/l	76
11) Tert butyl alcohol	3.00	59	1405	2.399	ug/l #	90
13) Acrolein	2.27	56	495	1.414	ug/l #	61
15) Acrylonitrile	3.12	53	711	0.505	ug/l #	71
16) Acetone	2.42	43	65937	57.423	ug/l	98
17) Carbon Disulfide	2.55	76	1411	0.228	ug/l #	72
18) Methyl Acetate	2.76	43	677	0.226	ug/l #	51
20) Methylene Chloride	2.84	84	4973	1.123	ug/l	94
25) 2-Butanone	4.65	43	4538	2.372	ug/l	93
36) 1,1-Dichloropropene	5.63	75	18189	4.608	ug/l #	52
38) Carbon Tetrachloride	5.62	117	23868	5.490	ug/l #	16
40) Benzene	6.11	78	2990	0.258	ug/l #	79
44) Trichloroethene	7.20	130	145	Below Cal		60
49) 1,4-Dioxane	7.75	88	18	0.251	ug/l #	24
51) 4-Methyl-2-Pentanone	8.63	43	907	0.229	ug/l	97
52) Toluene	8.76	92	2463	0.340	ug/l	97
68) m/p-Xylenes	10.34	106	1284	0.223	ug/l	86
76) 1,2,3-Trichloropropane	11.12	75	108479	22.522	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	108479	58.325	ug/l #	13
84) 1,2,4-Trimethylbenzene	11.79	105	4426	0.328	ug/l #	45
88) 1,4-Dichlorobenzene	12.08	146	545	Below Cal	#	1
94) Hexachlorobutadiene	13.76	225	98	0.894	ug/l #	17
95) Naphthalene	13.82	128	4485	0.289	ug/l #	85

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017257.D

Acq: 08 Jul 2020 15:53

Instrument :

MSVOA_X

ClientSampleId :

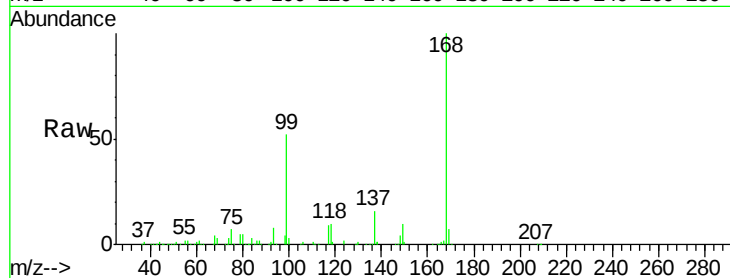
31063

Tgt Ion:168 Resp: 248986

Ion Ratio Lower Upper

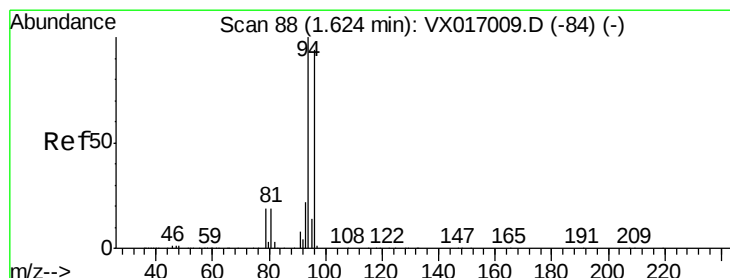
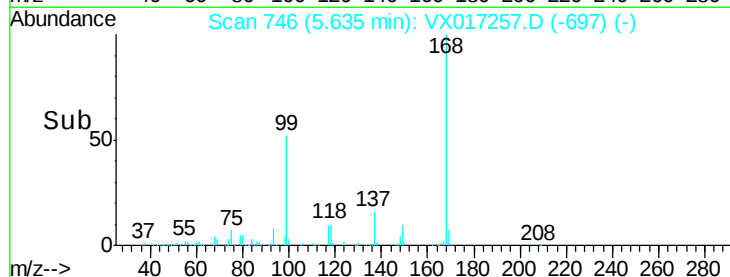
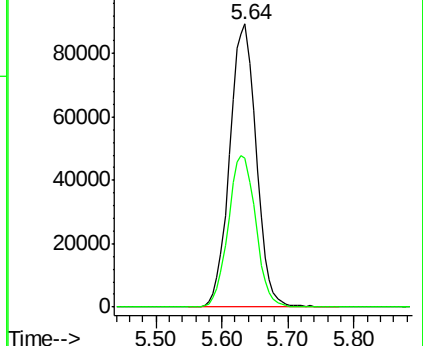
168 100

99 52.5 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.252 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX017257.D

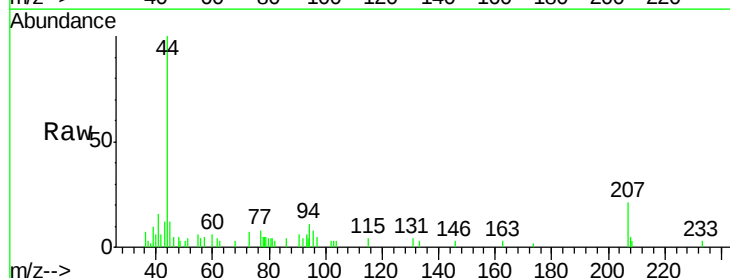
Acq: 08 Jul 2020 15:53

Tgt Ion: 94 Resp: 360

Ion Ratio Lower Upper

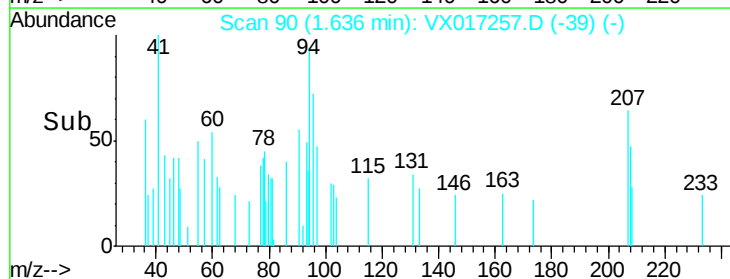
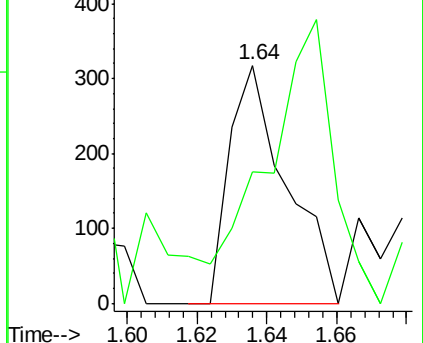
94 100

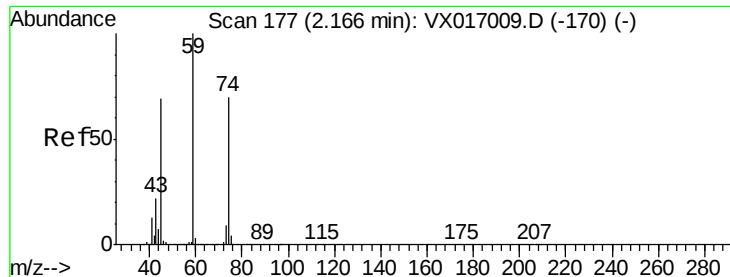
96 35.8 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#8

Diethyl Ether

Concen: 0.531 ug/l

RT: 2.01 min Scan# 152

Delta R.T. -0.15 min

Lab File: VX017257.D

Acq: 08 Jul 2020 15:53

Instrument :

MSVOA_X

ClientSampled :

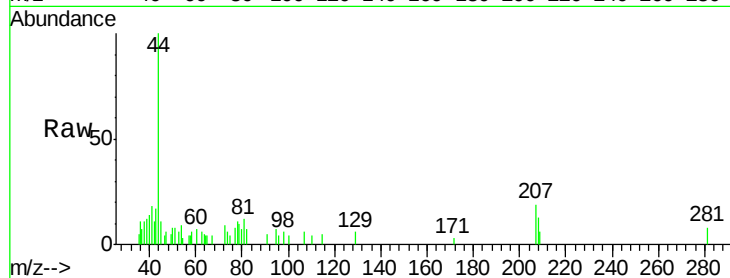
31063

Tgt Ion: 74 Resp: 225

Ion Ratio Lower Upper

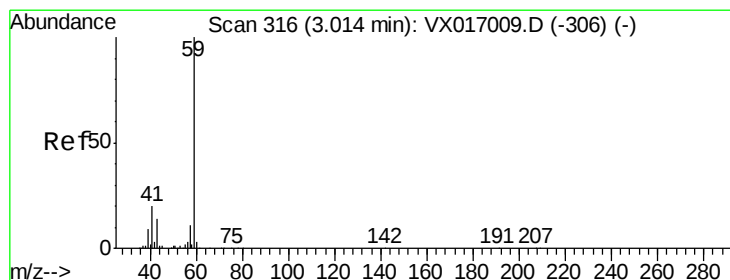
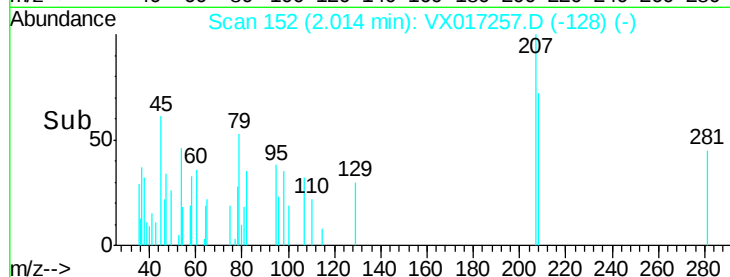
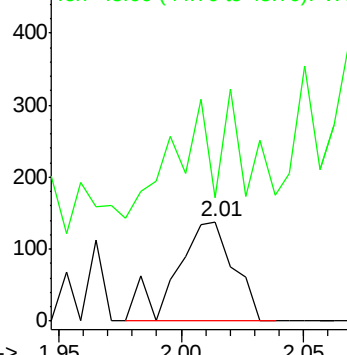
74 100

45 75.6 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 2.399 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX017257.D

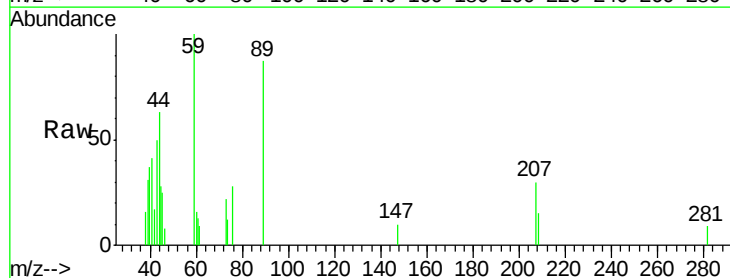
Acq: 08 Jul 2020 15:53

Tgt Ion: 59 Resp: 1405

Ion Ratio Lower Upper

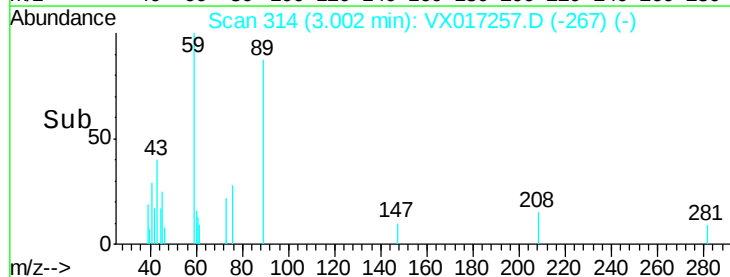
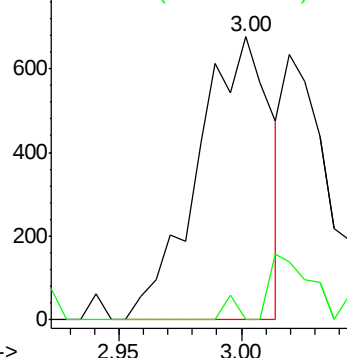
59 100

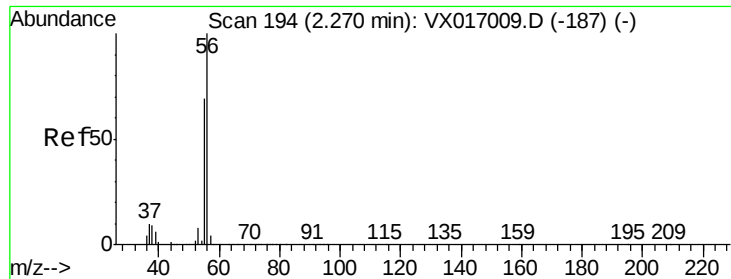
57 14.1 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.414 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX017257.D

Acq: 08 Jul 2020 15:53

Instrument :

MSVOA_X

ClientSampled :

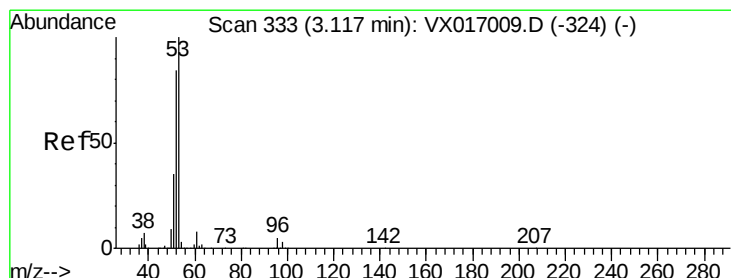
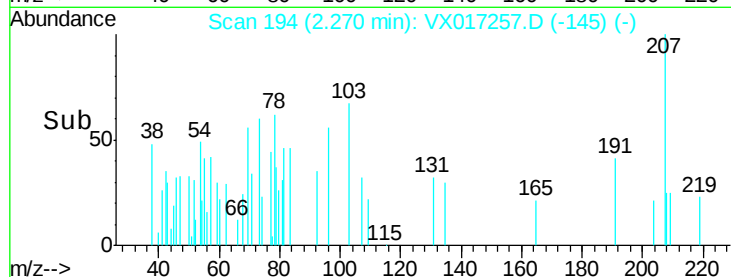
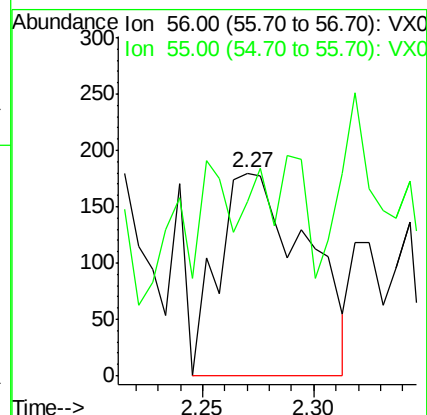
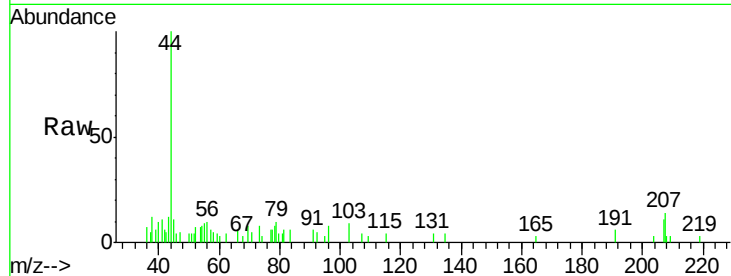
31063

Tgt Ion: 56 Resp: 495

Ion Ratio Lower Upper

56 100

55 38.0 55.7 83.5#



#15

Acrylonitrile

Concen: 0.505 ug/l

RT: 3.12 min Scan# 334

Delta R.T. 0.01 min

Lab File: VX017257.D

Acq: 08 Jul 2020 15:53

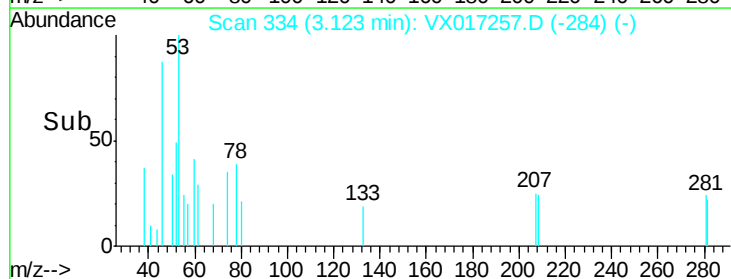
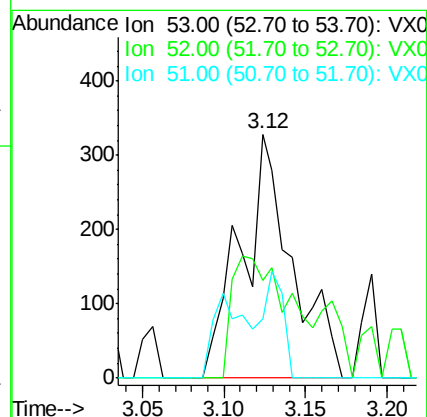
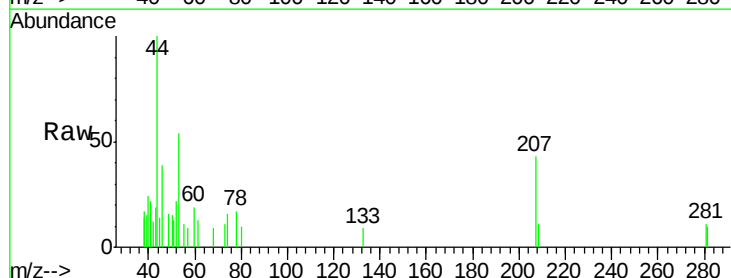
Tgt Ion: 53 Resp: 711

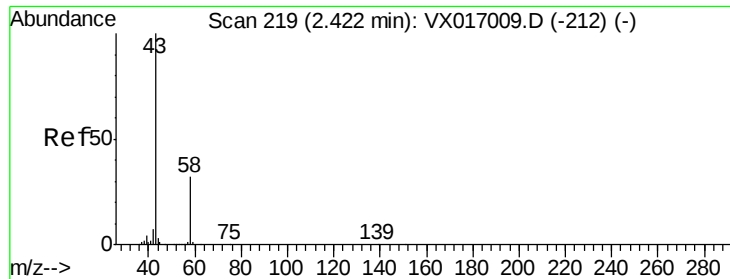
Ion Ratio Lower Upper

53 100

52 56.1 65.6 98.4#

51 17.4 28.3 42.5#





#16

Acetone

Concen: 57.423 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017257.D

Acq: 08 Jul 2020 15:53

Instrument :

MSVOA_X

ClientSampleId :

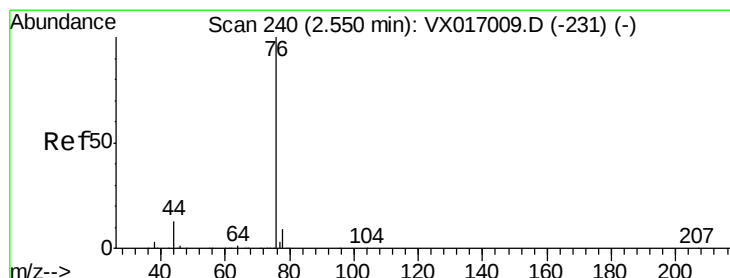
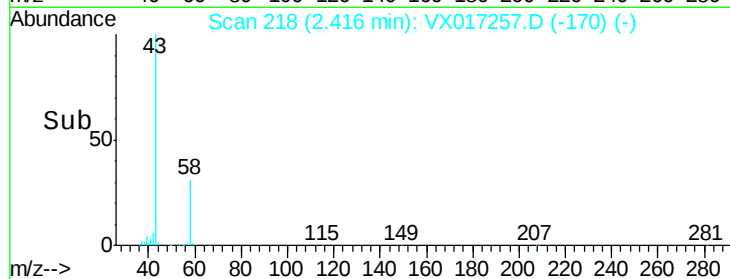
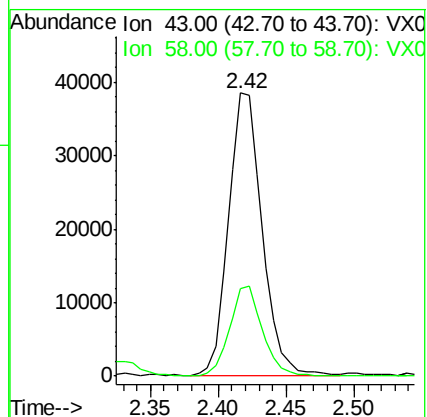
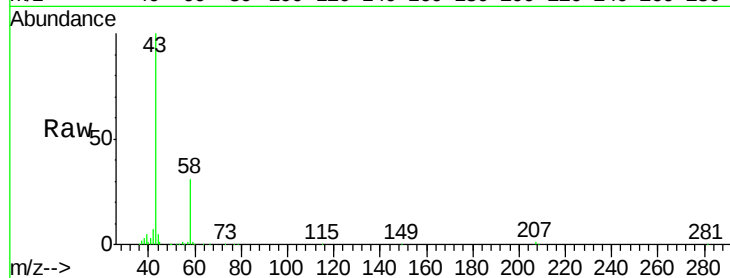
31063

Tgt Ion: 43 Resp: 65937

Ion Ratio Lower Upper

43 100

58 30.8 25.7 38.5



#17

Carbon Disulfide

Concen: 0.228 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX017257.D

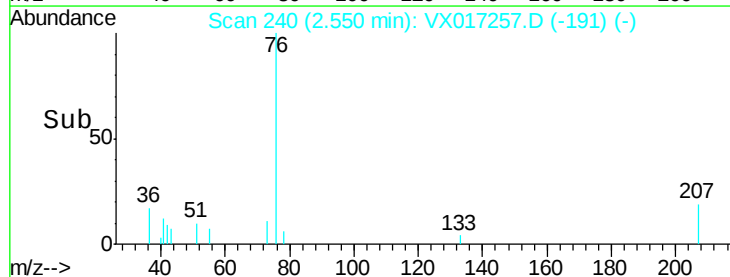
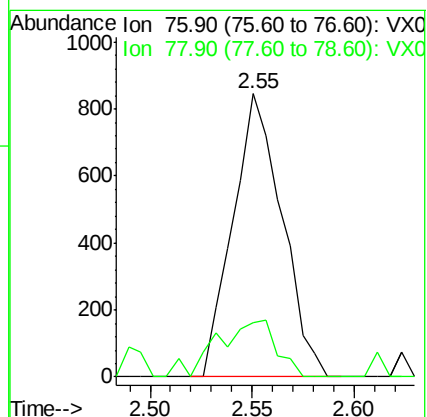
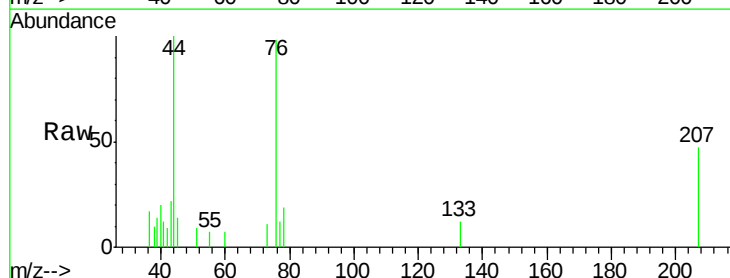
Acq: 08 Jul 2020 15:53

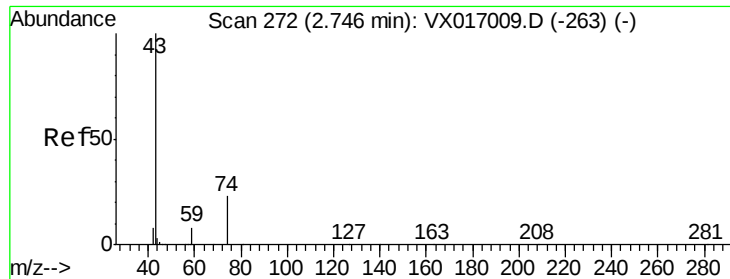
Tgt Ion: 76 Resp: 1411

Ion Ratio Lower Upper

76 100

78 19.3 7.2 10.8#

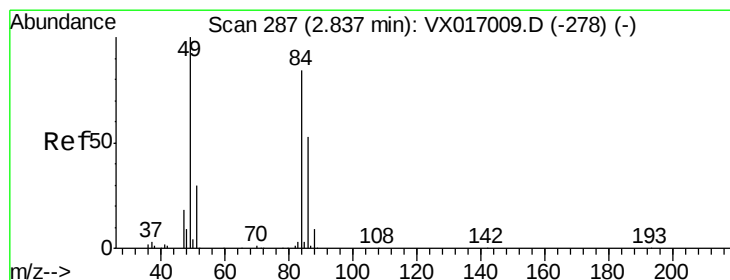
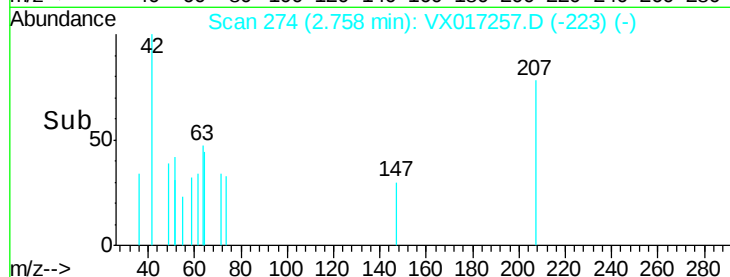
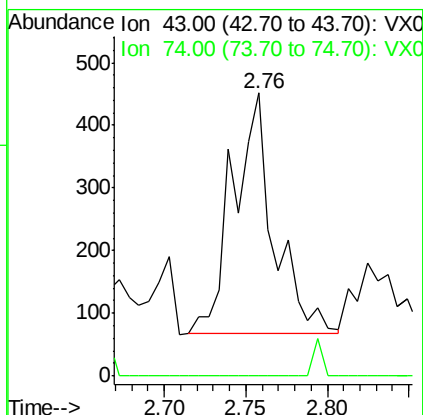
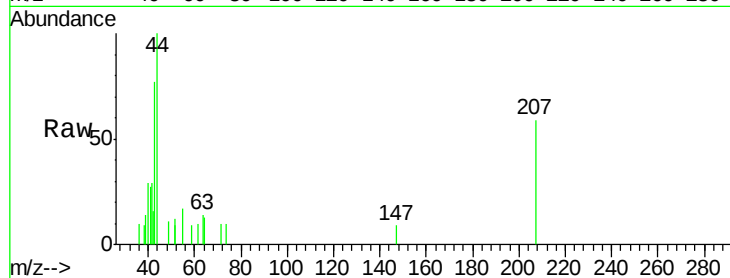




#18
Methyl Acetate
Concen: 0.226 ug/l
RT: 2.76 min Scan# 274
Delta R.T. 0.01 min
Lab File: VX017257.D
Acq: 08 Jul 2020 15:53

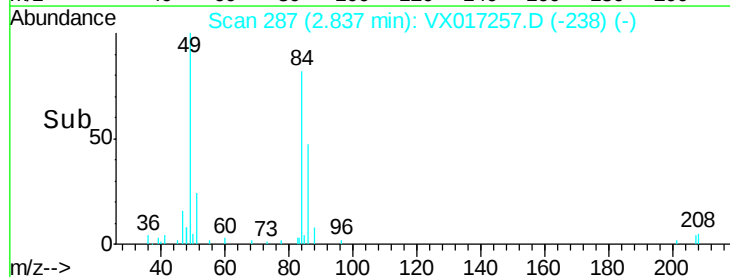
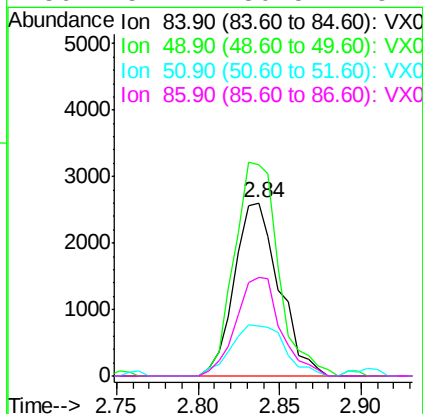
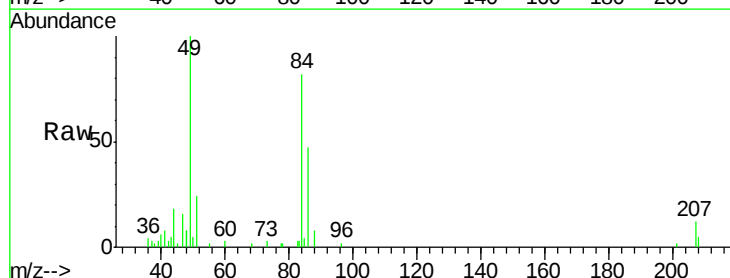
Instrument :
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ClientSampleID :
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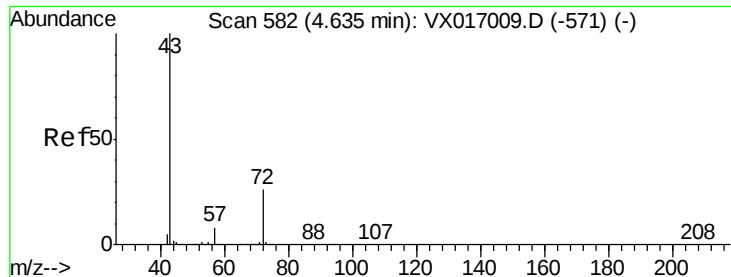
Tgt Ion: 43 Resp: 677
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#



#20
Methylene Chloride
Concen: 1.123 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017257.D
Acq: 08 Jul 2020 15:53

Tgt Ion: 84 Resp: 4973
Ion Ratio Lower Upper
84 100
49 121.7 94.7 142.1
51 28.8 28.6 42.8
86 57.2 50.5 75.7





#25

2-Butanone

Concen: 2.372 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX017257.D

Acq: 08 Jul 2020 15:53

Instrument :

MSVOA_X

ClientSampled :

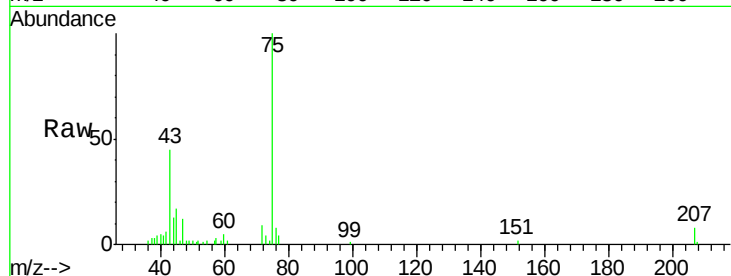
31063

Tgt Ion: 43 Resp: 4538

Ion Ratio Lower Upper

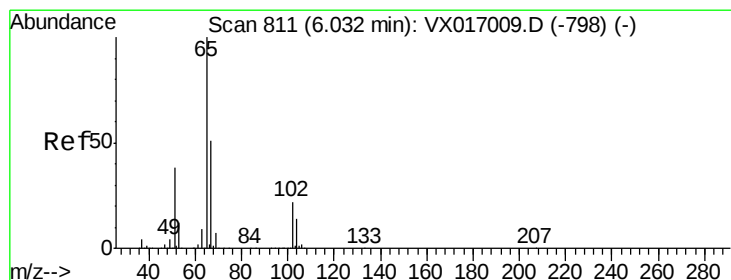
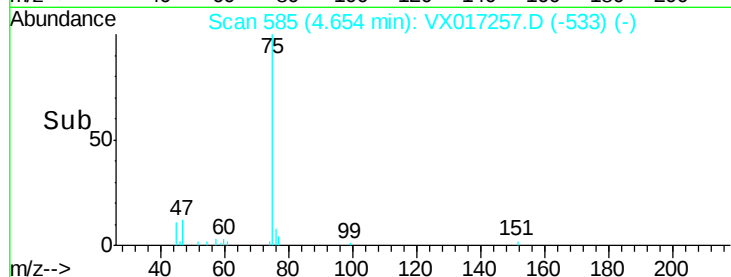
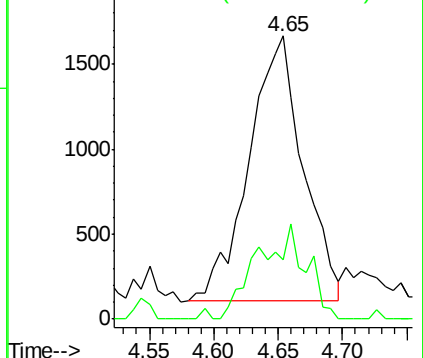
43 100

72 22.5 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 54.456 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017257.D

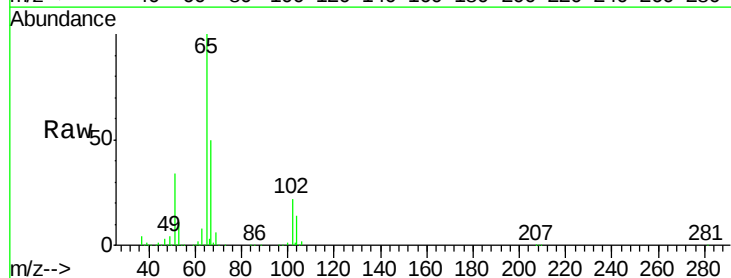
Acq: 08 Jul 2020 15:53

Tgt Ion: 65 Resp: 167152

Ion Ratio Lower Upper

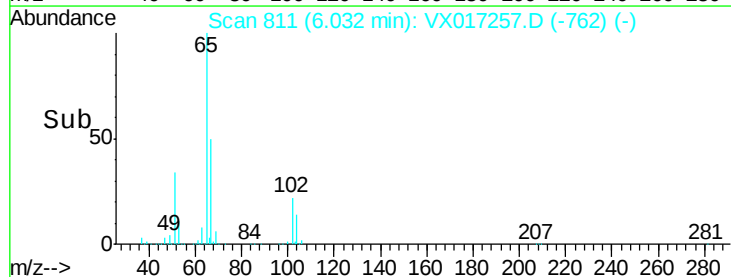
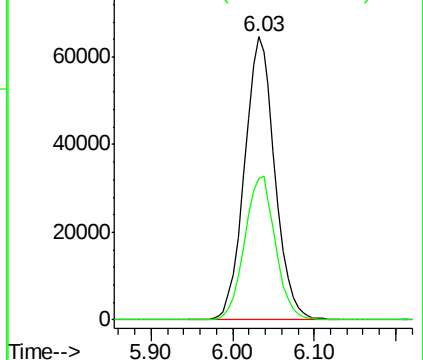
65 100

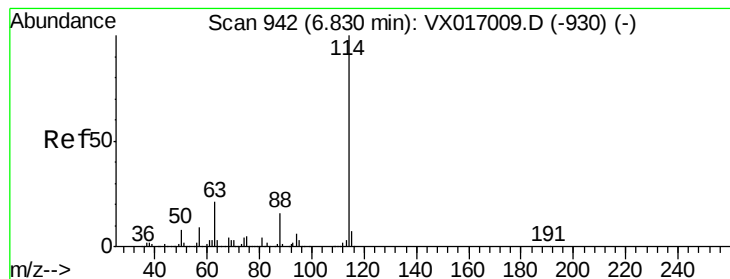
67 51.4 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX017257.D

Acq: 08 Jul 2020 15:53

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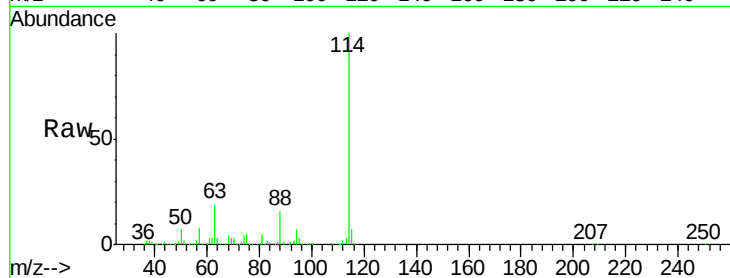
Tgt Ion:114 Resp: 417663

Ion Ratio Lower Upper

114 100

63 19.1 0.0 41.4

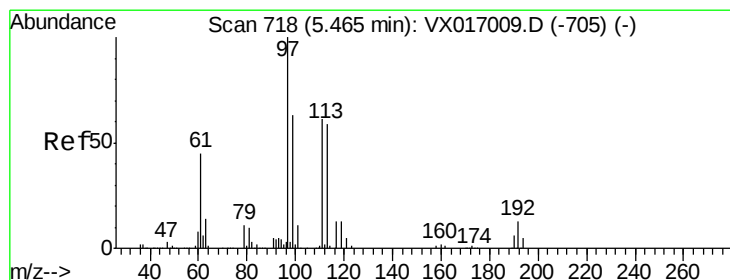
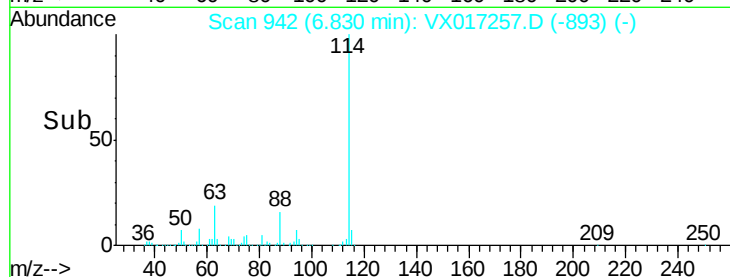
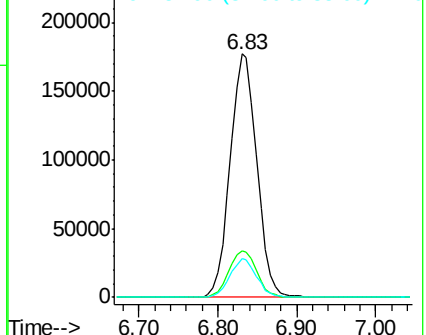
88 15.8 0.0 32.4



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: 54.089 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX017257.D

Acq: 08 Jul 2020 15:53

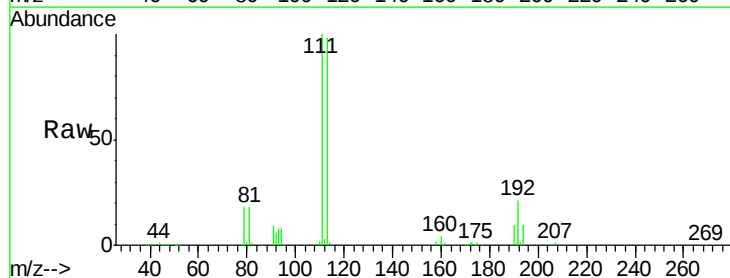
Tgt Ion:113 Resp: 142905

Ion Ratio Lower Upper

113 100

111 103.2 81.9 122.9

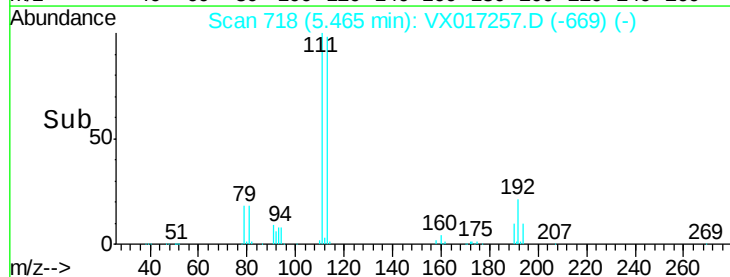
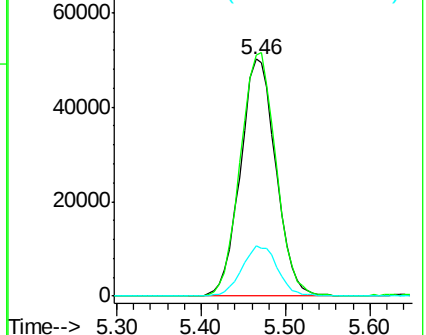
192 21.5 16.7 25.1

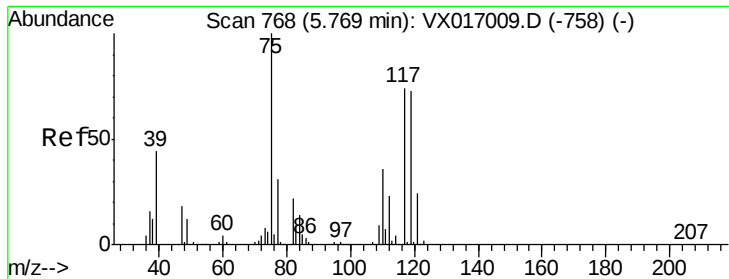


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

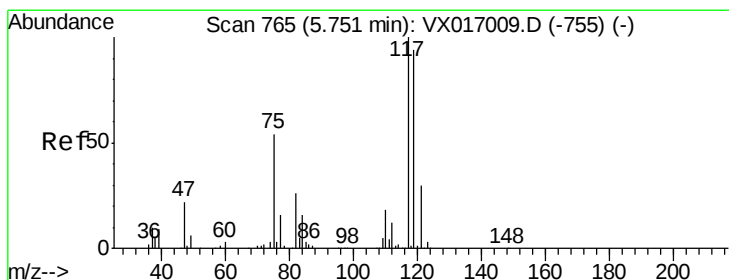
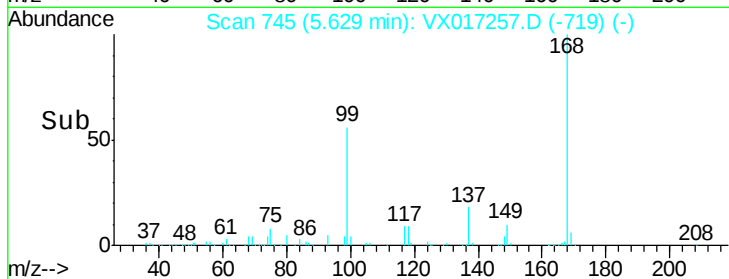
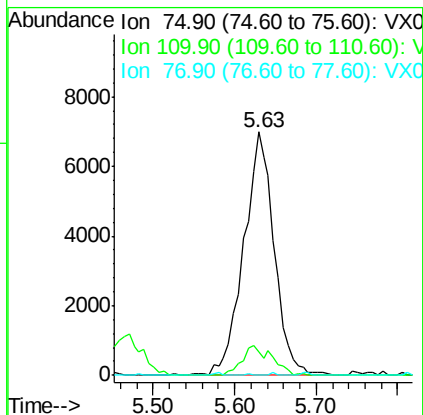
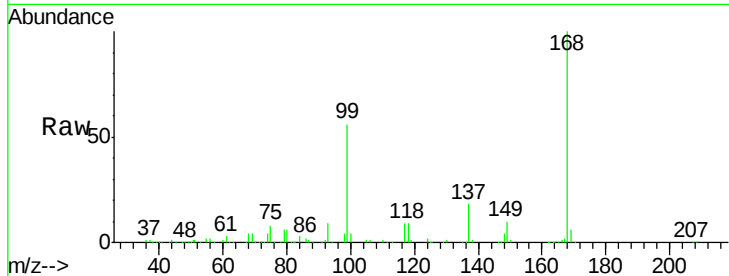




#36
 1,1-Dichloropropene
 Concen: 4.608 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017257.D
 Acq: 08 Jul 2020 15:53

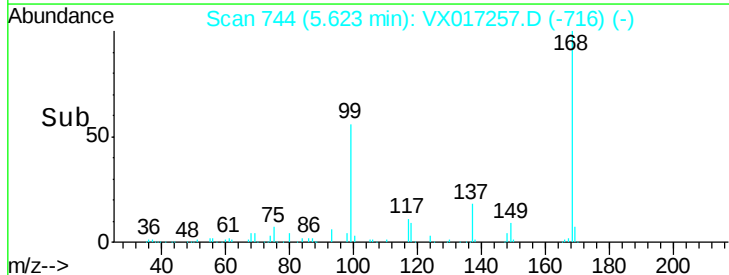
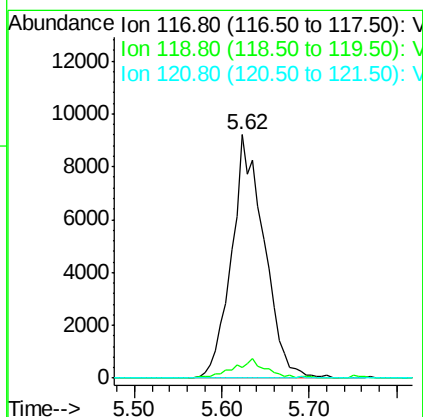
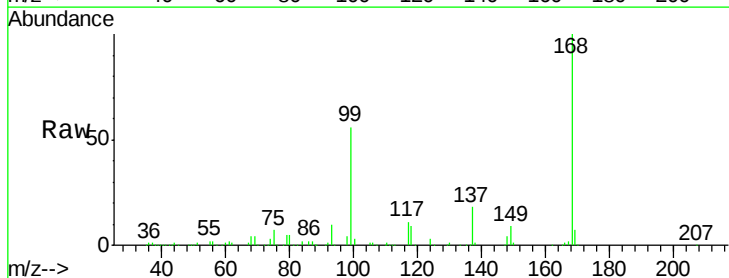
Instrument :
 MSVOA_X
 ClientSampleId :
 31063

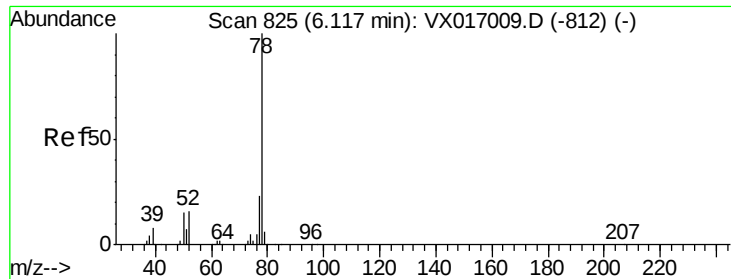
Tgt Ion: 75 Resp: 18189
 Ion Ratio Lower Upper
 75 100
 110 11.9 18.1 54.1#
 77 0.1 24.6 37.0#



#38
 Carbon Tetrachloride
 Concen: 5.490 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.13 min
 Lab File: VX017257.D
 Acq: 08 Jul 2020 15:53

Tgt Ion: 117 Resp: 23868
 Ion Ratio Lower Upper
 117 100
 119 4.4 75.4 113.0#
 121 0.0 23.8 35.6#





#40

Benzene

Concen: 0.258 ug/l

RT: 6.11 min Scan# 824

Delta R.T. -0.01 min

Lab File: VX017257.D

Acq: 08 Jul 2020 15:53

Instrument :

MSVOA_X

ClientSampled :

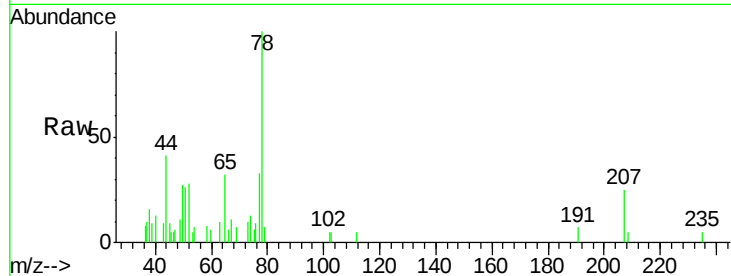
31063

Tgt Ion: 78 Resp: 2990

Ion Ratio Lower Upper

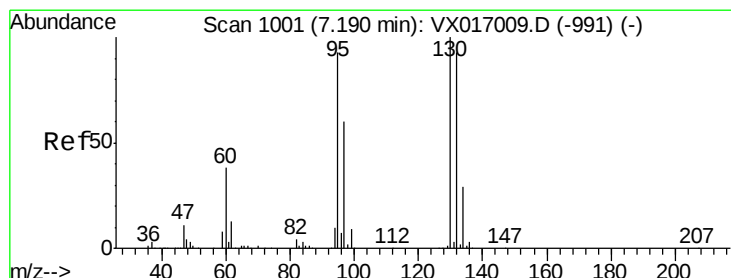
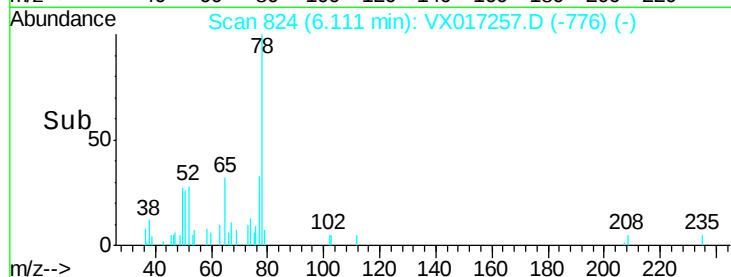
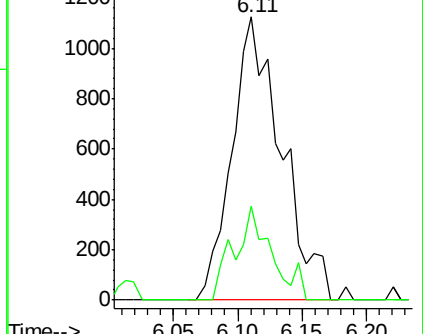
78 100

77 33.0 18.3 27.5#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#44

Trichloroethene

Concen: Below Cal

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX017257.D

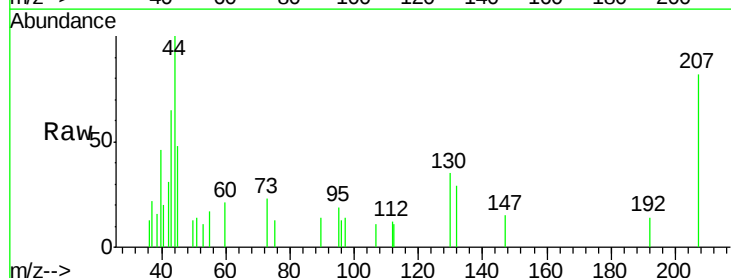
Acq: 08 Jul 2020 15:53

Tgt Ion: 130 Resp: 145

Ion Ratio Lower Upper

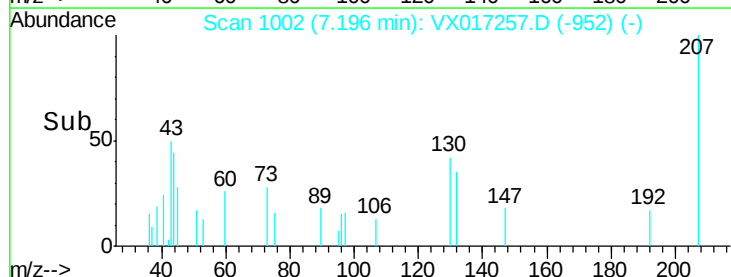
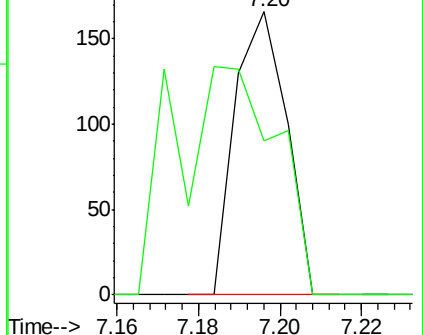
130 100

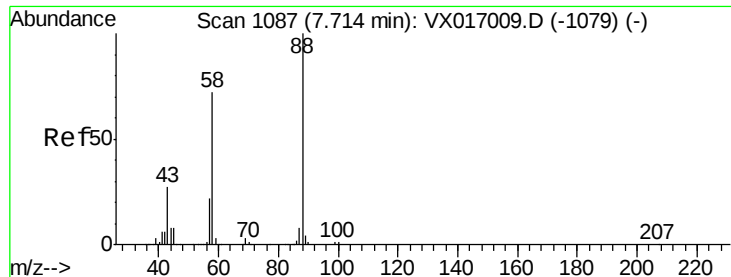
95 54.2 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

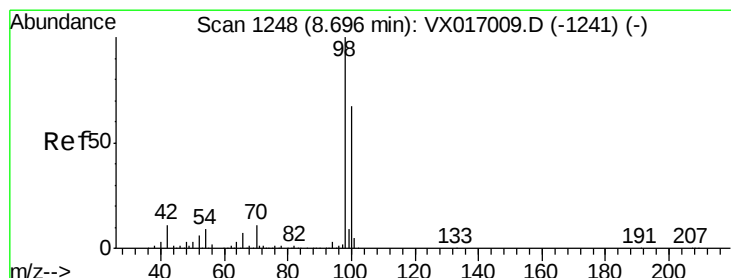
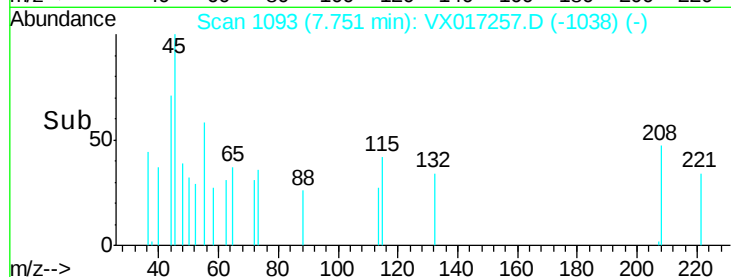
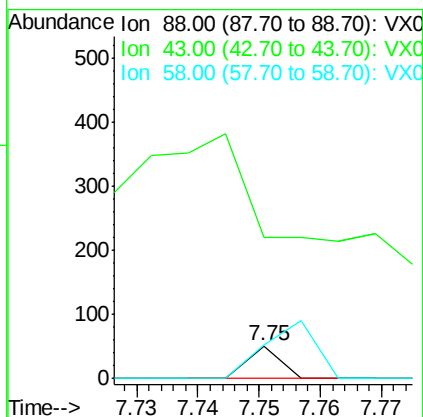
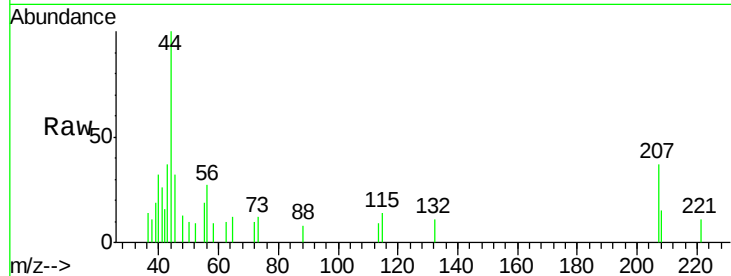




#49
1,4-Dioxane
Concen: 0.251 ug/l
RT: 7.75 min Scan# 1093
Delta R.T. 0.04 min
Lab File: VX017257.D
Acq: 08 Jul 2020 15:53

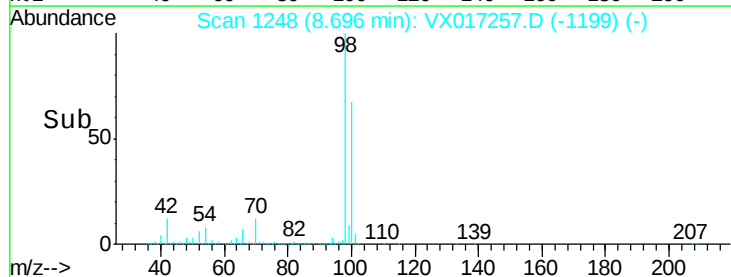
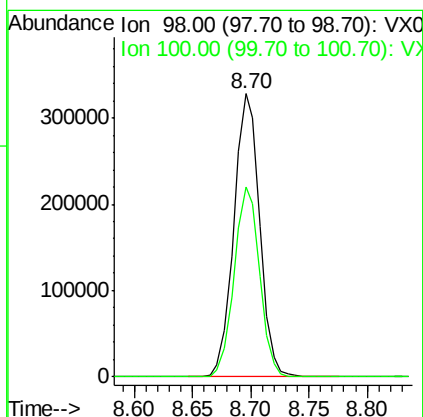
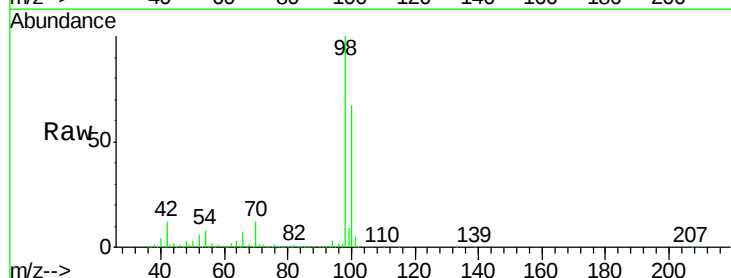
Instrument :
MSVOA_X
ClientSampled :
31063

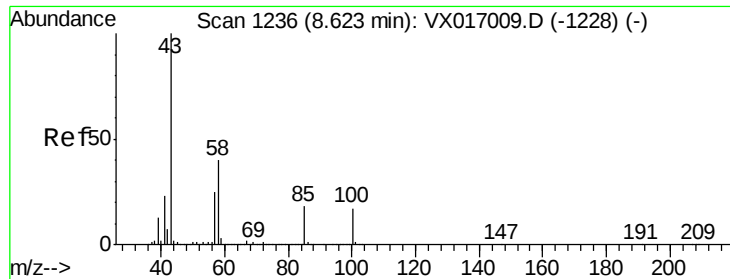
Tgt Ion: 88 Resp: 18
Ion Ratio Lower Upper
88 100
43 0.0 25.8 38.8#
58 0.0 54.8 82.2#



#50
Toluene-d8
Concen: 51.722 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX017257.D
Acq: 08 Jul 2020 15:53

Tgt Ion: 98 Resp: 505303
Ion Ratio Lower Upper
98 100
100 66.5 53.8 80.6

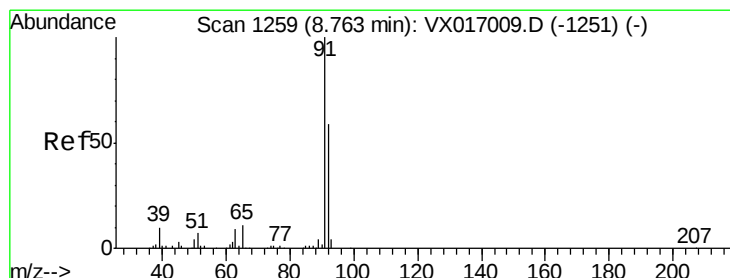
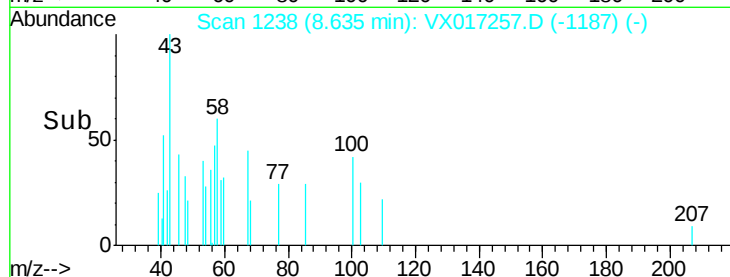
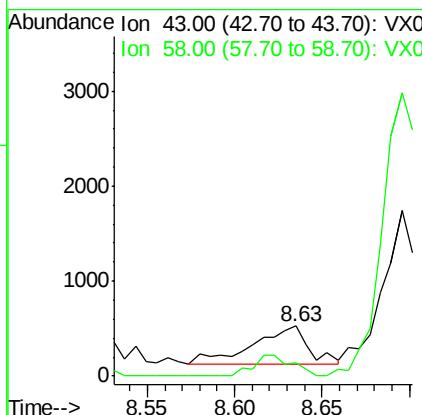
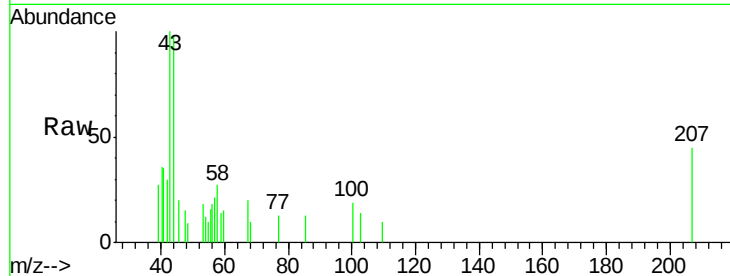




#51
 4-Methyl-2-Pentanone
 Concen: 0.229 ug/l
 RT: 8.63 min Scan# 1238
 Delta R.T. 0.01 min
 Lab File: VX017257.D
 Acq: 08 Jul 2020 15:53

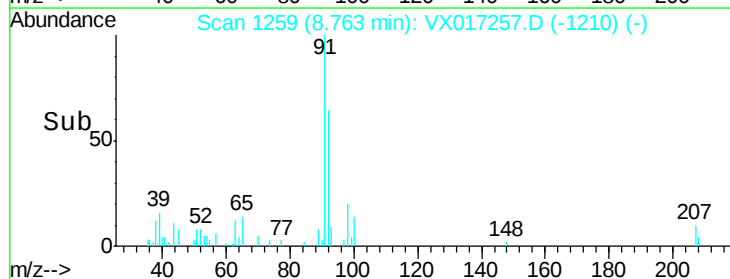
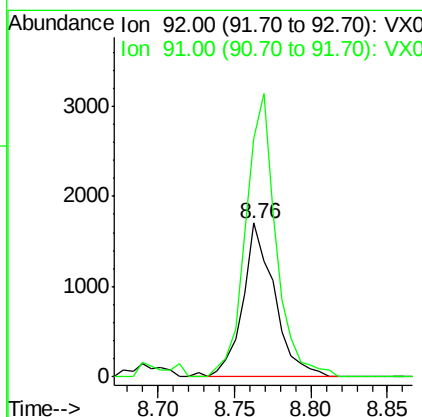
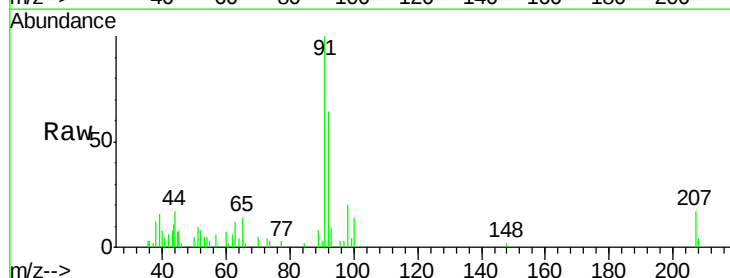
Instrument :
 MSVOA_X
 ClientSampleId :
 31063

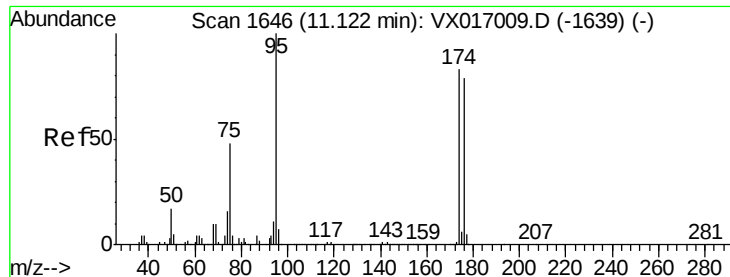
Tgt Ion: 43 Resp: 907
 Ion Ratio Lower Upper
 43 100
 58 38.1 31.9 47.9



#52
 Toluene
 Concen: 0.340 ug/l
 RT: 8.76 min Scan# 1259
 Delta R.T. -0.00 min
 Lab File: VX017257.D
 Acq: 08 Jul 2020 15:53

Tgt Ion: 92 Resp: 2463
 Ion Ratio Lower Upper
 92 100
 91 174.7 136.9 205.3





#62

4-Bromofluorobenzene

Concen: 56.947 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017257.D

Acq: 08 Jul 2020 15:53

Instrument :

MSVOA_X

ClientSampleId :

31063

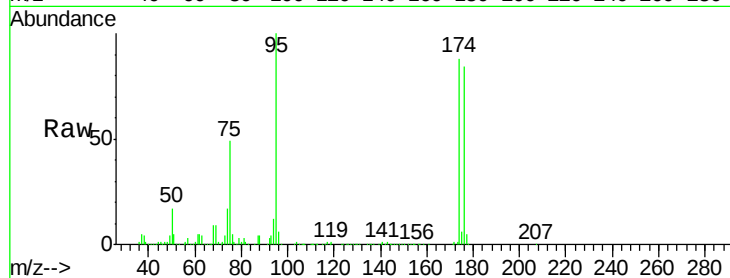
Tgt Ion: 95 Resp: 217484

Ion Ratio Lower Upper

95 100

174 85.6 0.0 164.0

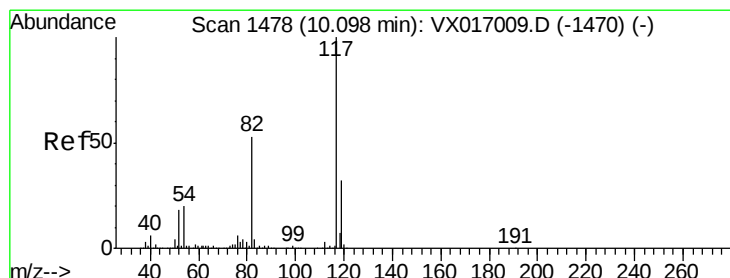
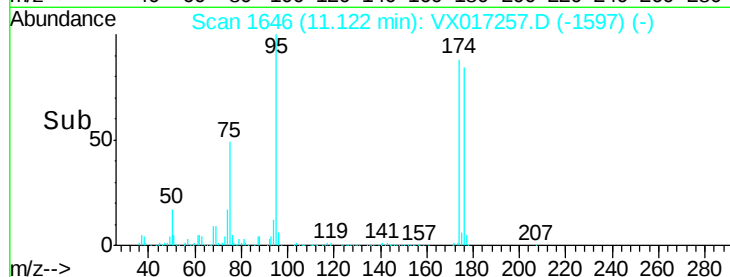
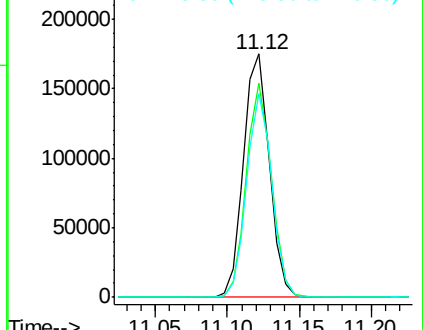
176 81.3 0.0 157.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017257.D

Acq: 08 Jul 2020 15:53

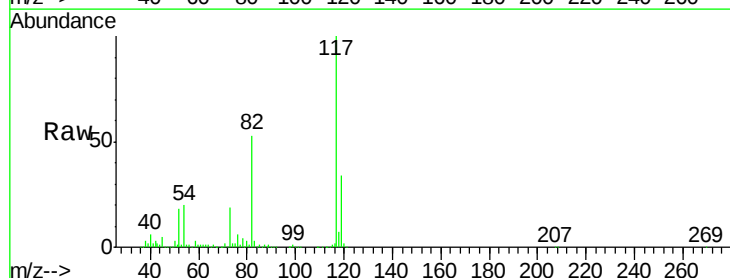
Tgt Ion: 117 Resp: 434420

Ion Ratio Lower Upper

117 100

82 53.0 42.6 63.8

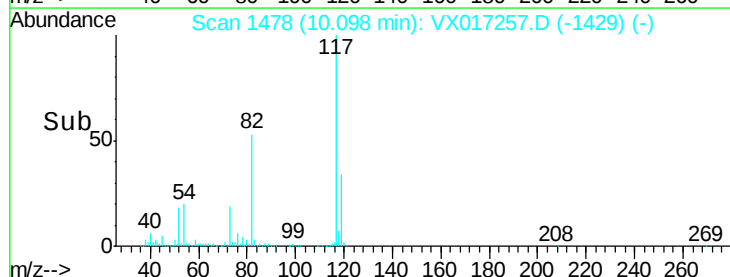
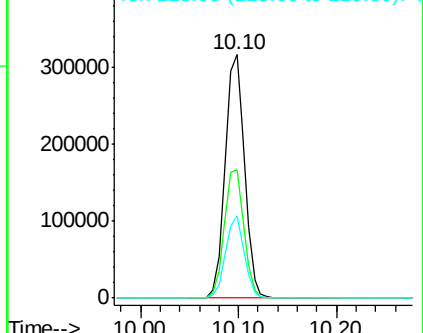
119 33.9 25.4 38.2

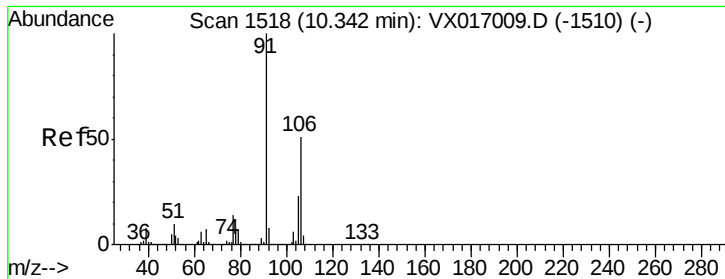


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#68

m/p-Xylenes

Concen: 0.223 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX017257.D

Acq: 08 Jul 2020 15:53

Instrument :

MSVOA_X

ClientSampled :

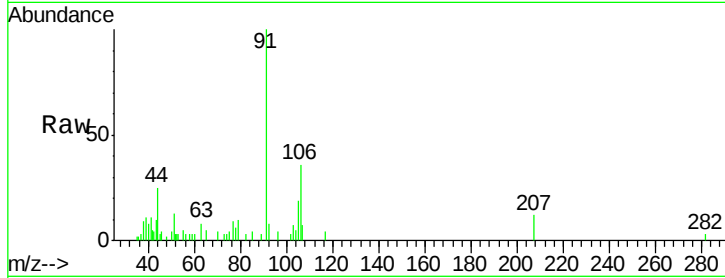
31063

Tgt Ion:106 Resp: 1284

Ion Ratio Lower Upper

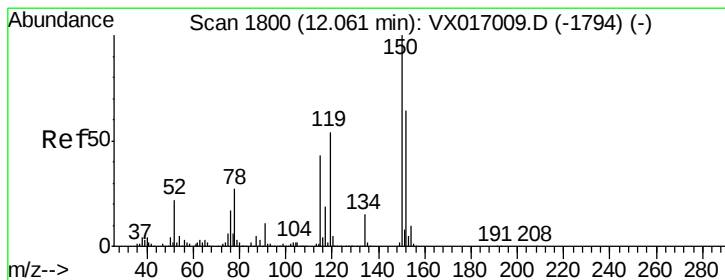
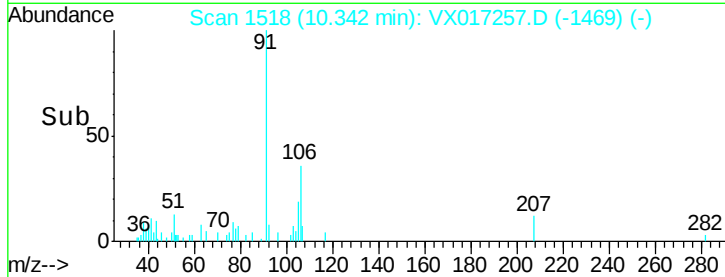
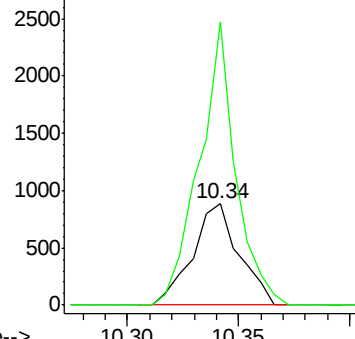
106 100

91 219.0 158.6 238.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX017257.D

Acq: 08 Jul 2020 15:53

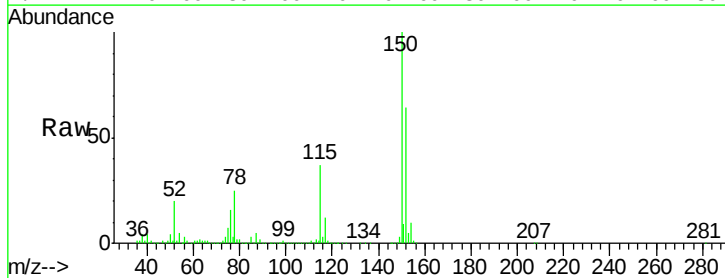
Tgt Ion:152 Resp: 244936

Ion Ratio Lower Upper

152 100

115 56.4 40.9 122.7

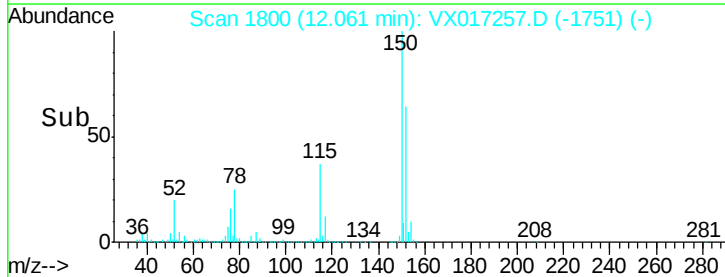
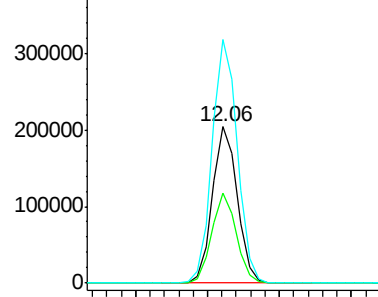
150 157.4 0.0 351.6

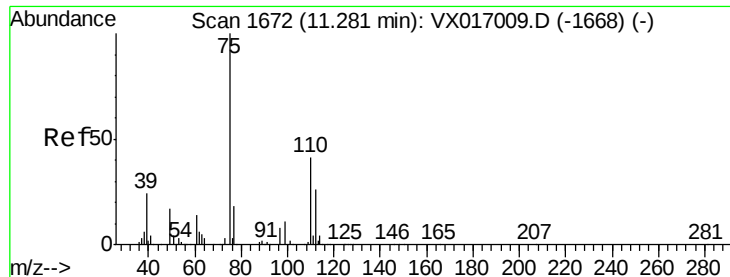


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

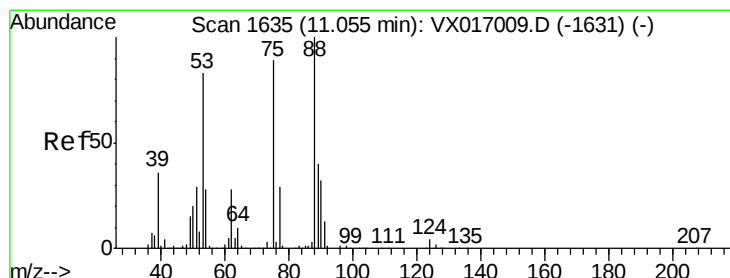
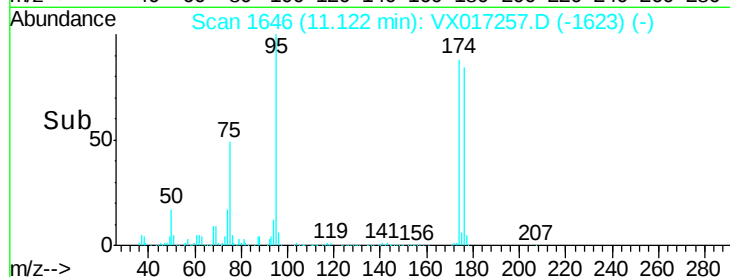
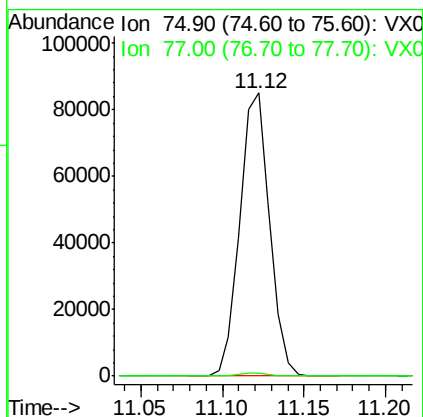
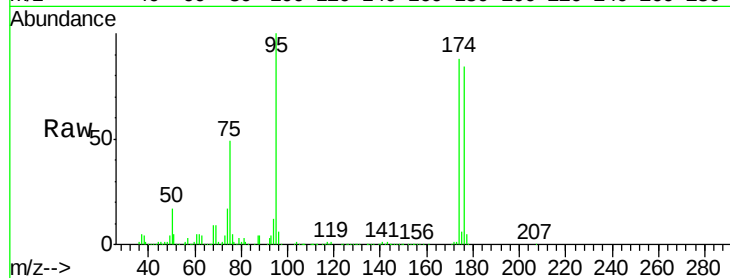




#76
 1,2,3-Trichloropropane
 Concen: 22.522 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX017257.D
 Acq: 08 Jul 2020 15:53

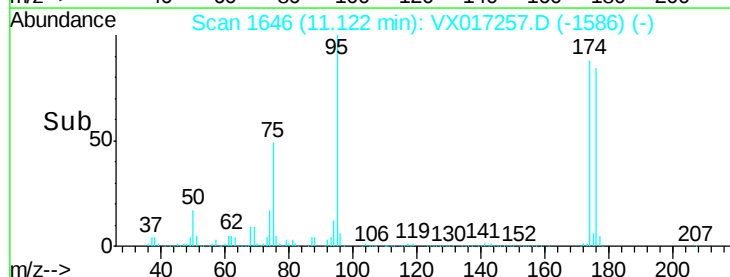
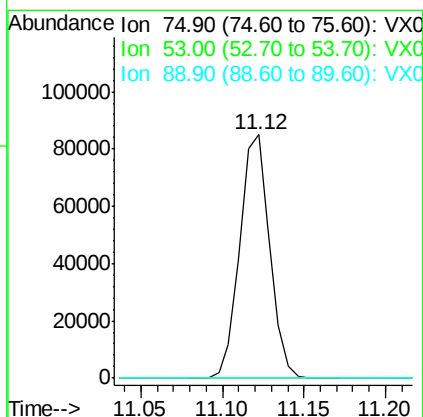
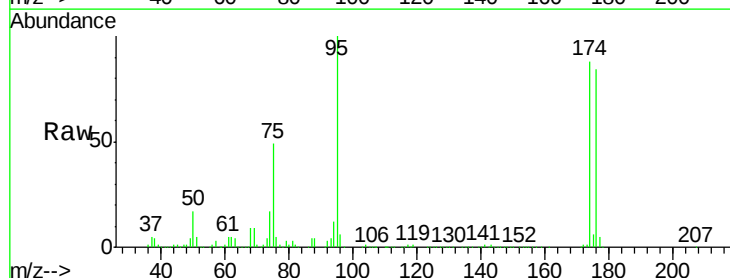
Instrument :
 MSVOA_X
 ClientSampleId :
 31063

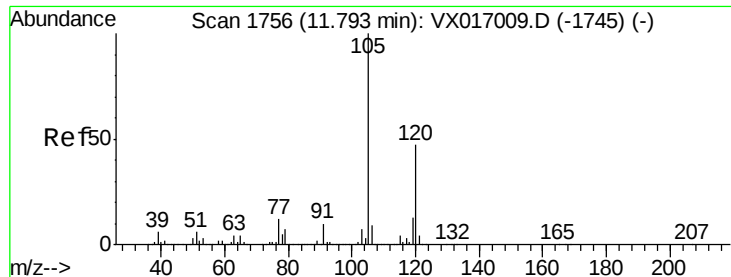
Tgt Ion: 75 Resp: 108479
 Ion Ratio Lower Upper
 75 100
 77 1.3 20.2 60.6#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.325 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX017257.D
 Acq: 08 Jul 2020 15:53

Tgt Ion: 75 Resp: 108479
 Ion Ratio Lower Upper
 75 100
 53 0.2 72.4 108.6#
 89 0.0 37.0 55.4#

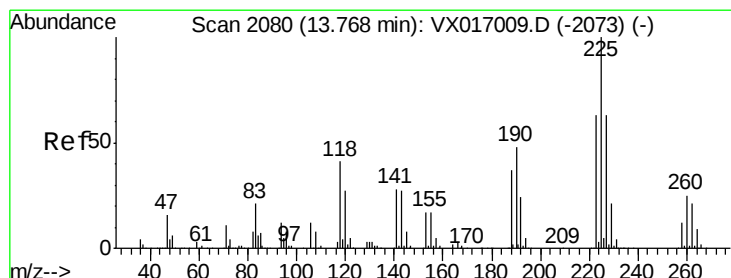
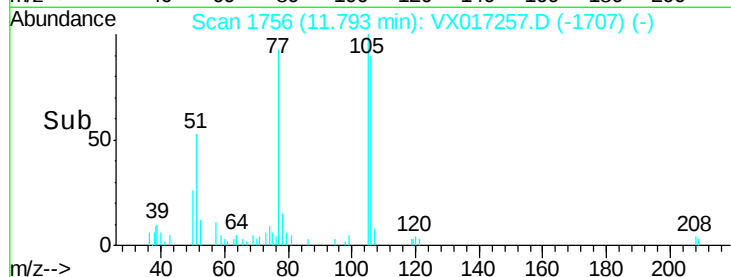
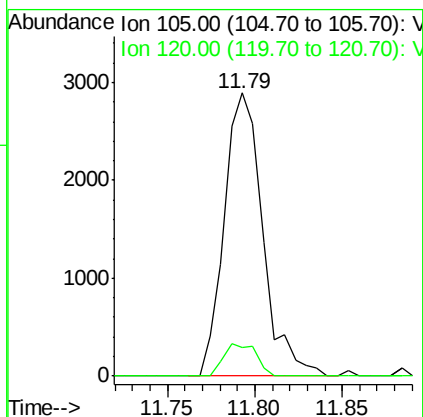
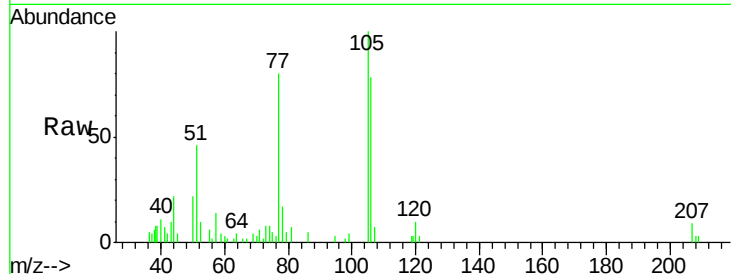




#84
 1,2,4-Trimethylbenzene
 Concen: 0.328 ug/l
 RT: 11.79 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VX017257.D
 Acq: 08 Jul 2020 15:53

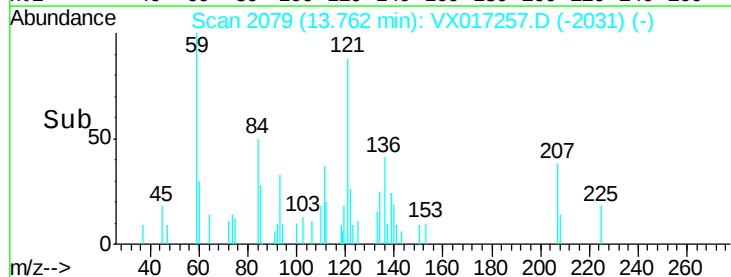
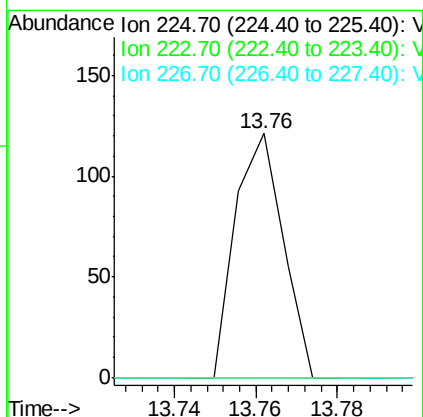
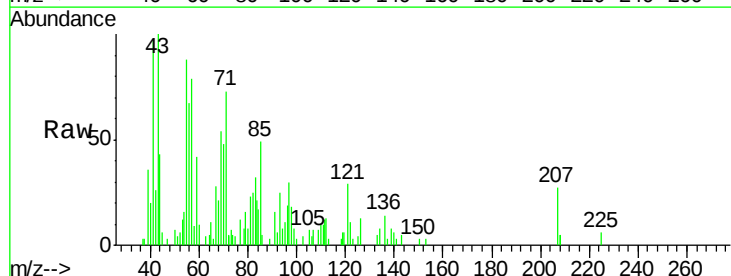
Instrument :
 MSVOA_X
 ClientSampleId :
 31063

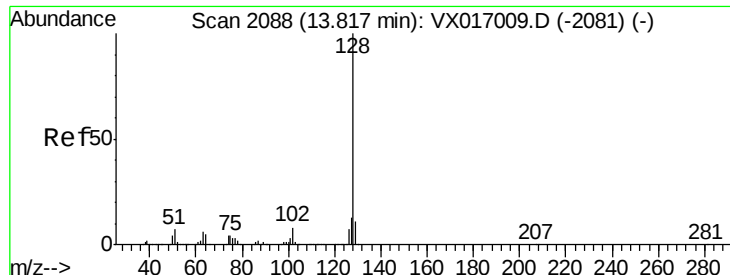
Tgt Ion:105 Resp: 4426
 Ion Ratio Lower Upper
 105 100
 120 9.5 22.9 68.5#



#94
 Hexachlorobutadiene
 Concen: 0.894 ug/l
 RT: 13.76 min Scan# 2079
 Delta R.T. -0.01 min
 Lab File: VX017257.D
 Acq: 08 Jul 2020 15:53

Tgt Ion:225 Resp: 98
 Ion Ratio Lower Upper
 225 100
 223 0.0 32.5 97.5#
 227 0.0 33.1 99.2#





#95

Naphthalene

Concen: 0.289 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX017257.D

Acq: 08 Jul 2020 15:53

Instrument :

MSVOA_X

ClientSampleId :

31063

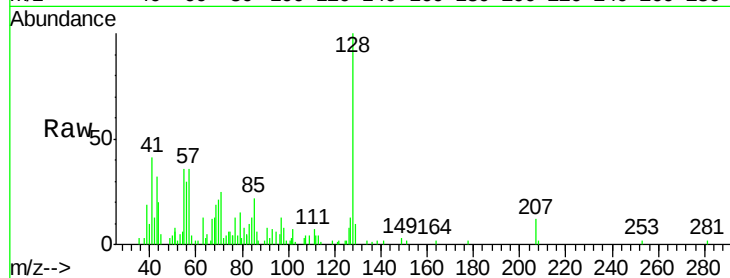
Tgt Ion:128 Resp: 4485

Ion Ratio Lower Upper

128 100

127 22.9 10.2 15.4#

129 12.2 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

