

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070120\
 Data File : VX017095.D
 Acq On : 01 Jul 2020 14:06
 Operator : JC/SP
 Sample : L3163-01 20X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 I-OC-3

Quant Time: Jul 02 01:35:51 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	5.63	168	205565	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	352118	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	378746	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	206099	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	136204	53.75	ug/l	0.00
Spiked Amount			Recovery	=	107.50%	
35) Dibromofluoromethane	5.46	113	119056	53.45	ug/l	0.00
Spiked Amount			Recovery	=	106.90%	
50) Toluene-d8	8.70	98	433891	52.68	ug/l	0.00
Spiked Amount			Recovery	=	105.36%	
62) 4-Bromofluorobenzene	11.12	95	193815	60.20	ug/l	0.00
Spiked Amount			Recovery	=	120.40%	

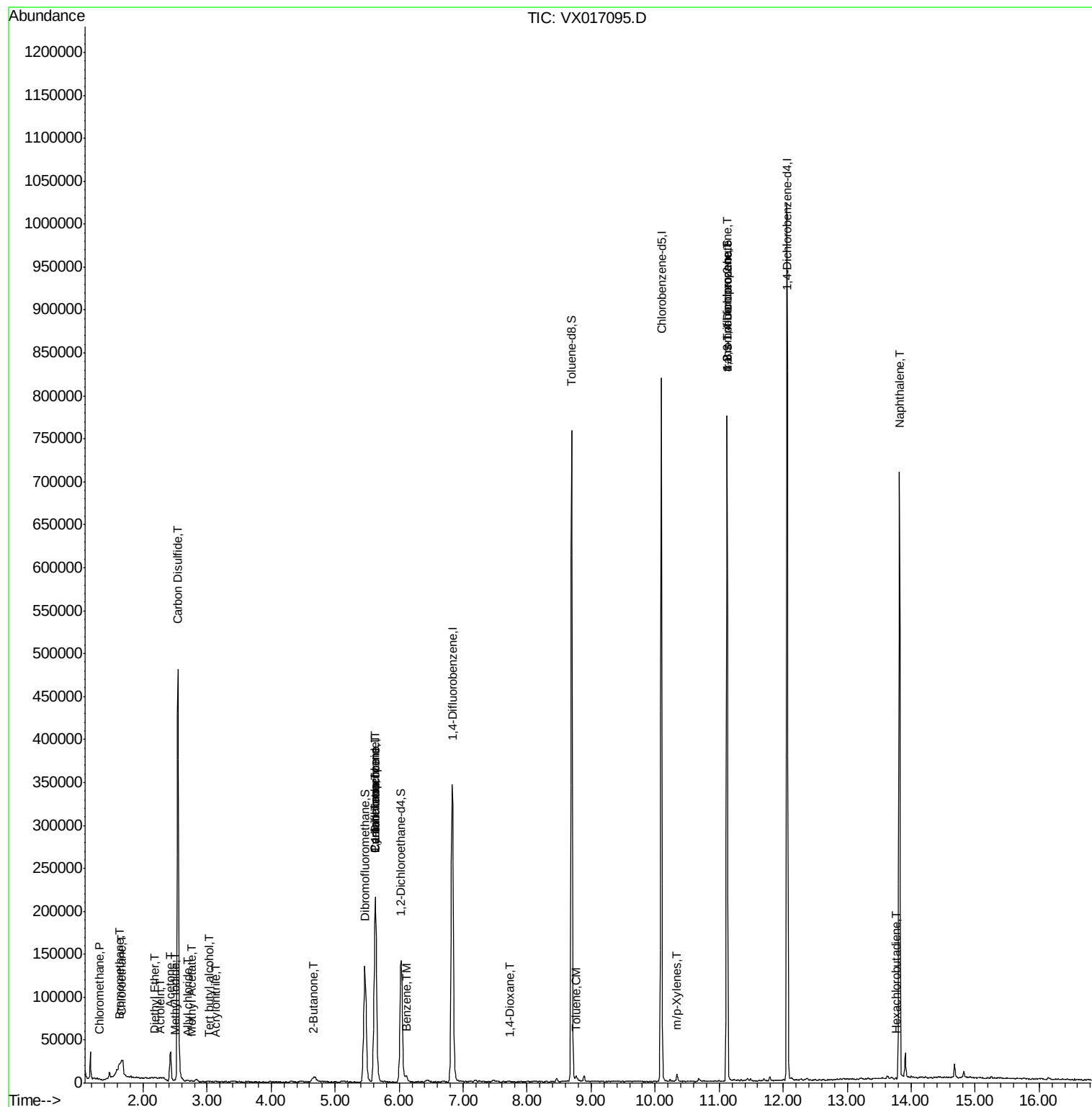
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	554	0.230	ug/l #	54
5) Bromomethane	1.62	94	368	0.312	ug/l	91
6) Chloroethane	1.67	64	317	0.240	ug/l	98
8) Diethyl Ether	2.18	74	217	0.559	ug/l	95
10) Methyl Iodide	2.50	142	870	0.341	ug/l	92
11) Tert butyl alcohol	3.03	59	200	0.414	ug/l #	73
13) Acrolein	2.26	56	311	1.076	ug/l #	82
14) Allyl chloride	2.70	41	1399	0.372	ug/l #	49
15) Acrylonitrile	3.12	53	312	0.268	ug/l #	63
16) Acetone	2.43	43	36371	38.365	ug/l	99
17) Carbon Disulfide	2.54	76	586703	103.354	ug/l	100
18) Methyl Acetate	2.76	43	1120	0.453	ug/l #	62
20) Methylene Chloride	2.82	84	1364	Below Cal	#	87
25) 2-Butanone	4.65	43	5492	3.477	ug/l	98
31) Cyclohexane	5.62	56	4460	1.304	ug/l #	4
36) 1,1-Dichloropropene	5.63	75	15991	4.805	ug/l #	50
38) Carbon Tetrachloride	5.63	117	19662	5.364	ug/l #	17
40) Benzene	6.11	78	7860	0.804	ug/l	97
44) Trichloroethene	7.18	130	592	Below Cal		98
49) 1,4-Dioxane	7.71	88	91	1.507	ug/l #	24
52) Toluene	8.77	92	1866	0.306	ug/l	94
68) m/p-Xylenes	10.34	106	1652	0.330	ug/l	99
76) 1,2,3-Trichloropropane	11.12	75	96952	23.922	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	96952	61.950	ug/l #	13
88) 1,4-Dichlorobenzene	12.08	146	630	Below Cal	#	1
94) Hexachlorobutadiene	13.77	225	33	0.864	ug/l #	57
95) Naphthalene	13.82	128	420472	32.170	ug/l	99

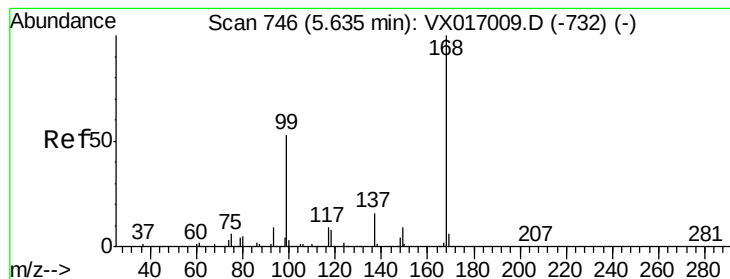
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX070120\
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ClientSampleId :
I-OC-3

Quant Time: Jul 02 01:35:51 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 29 17:10:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017095.D

Acq: 01 Jul 2020 14:06

Instrument :

MSVOA_X

ClientSampled :

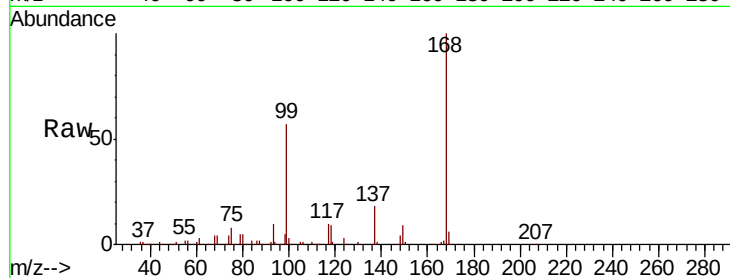
I-OC-3

Tot Ion:168 Resp: 205565

Ion Ratio Lower Upper

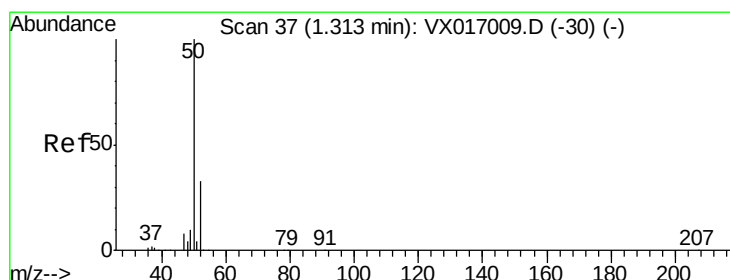
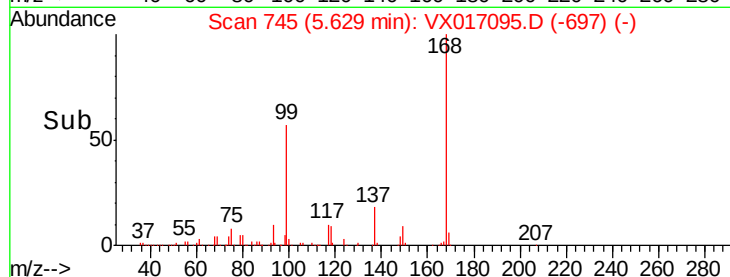
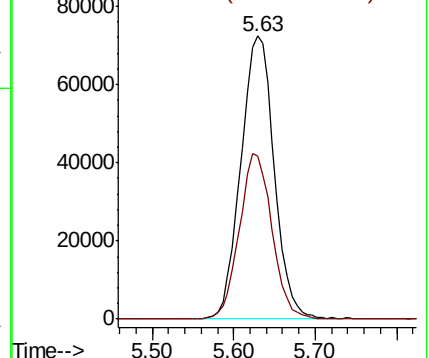
168 100

99 57.5 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.230 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017095.D

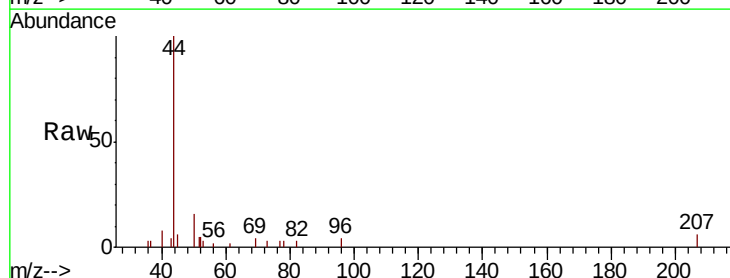
Acq: 01 Jul 2020 14:06

Tgt Ion: 50 Resp: 554

Ion Ratio Lower Upper

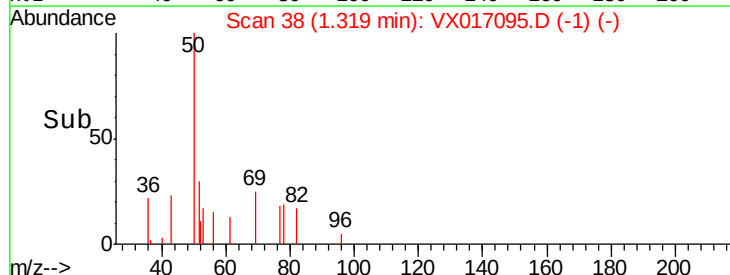
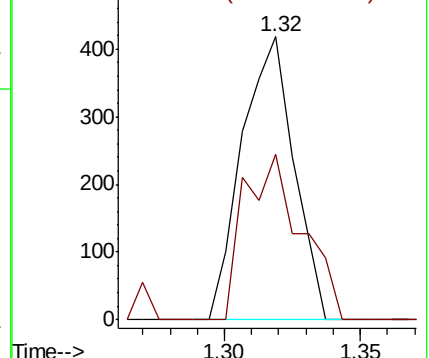
50 100

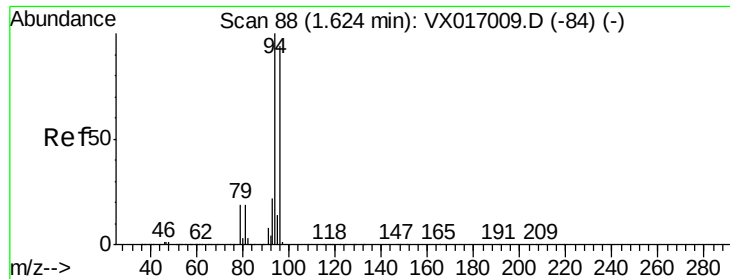
52 58.4 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.312 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VX017095.D

Acq: 01 Jul 2020 14:06

Instrument :

MSVOA_X

ClientSampled :

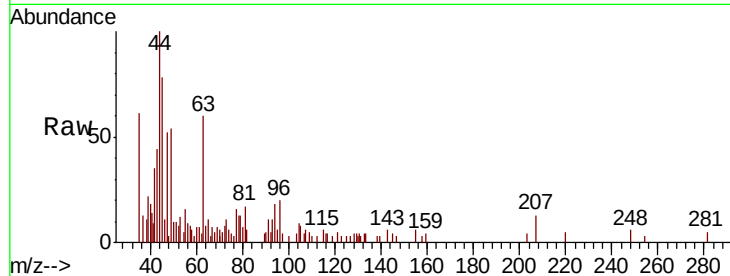
I-OC-3

Tot Ion: 94 Resp: 368

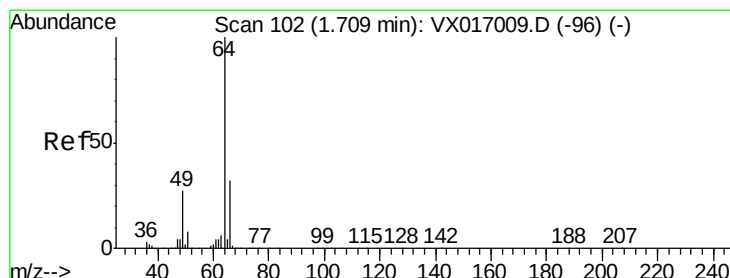
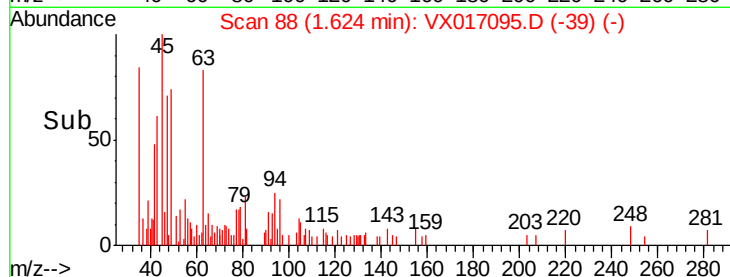
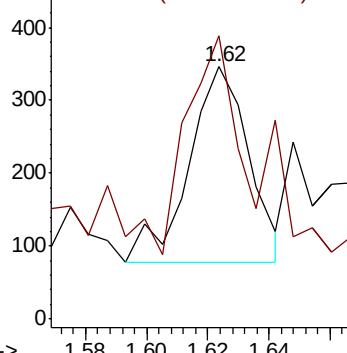
Ion Ratio Lower Upper

94 100

96 102.6 75.0 112.4



Abundance Ion 93.90 (93.60 to 94.60): VX0



#6

Chloroethane

Concen: 0.240 ug/l

RT: 1.67 min Scan# 95

Delta R.T. -0.04 min

Lab File: VX017095.D

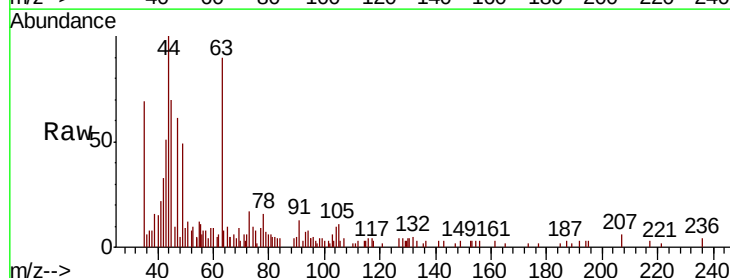
Acq: 01 Jul 2020 14:06

Tgt Ion: 64 Resp: 317

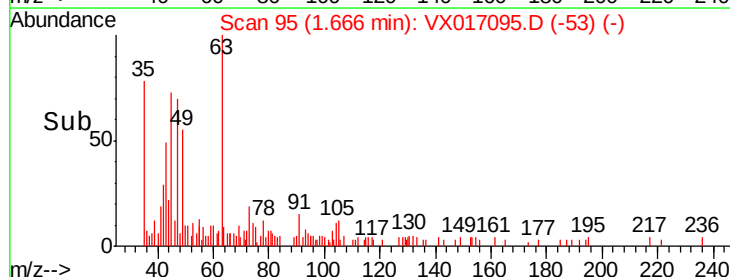
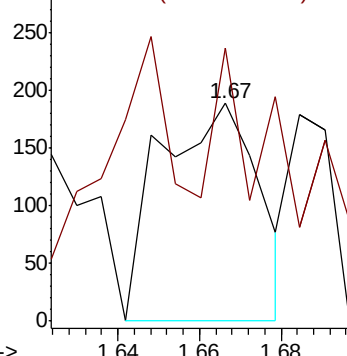
Ion Ratio Lower Upper

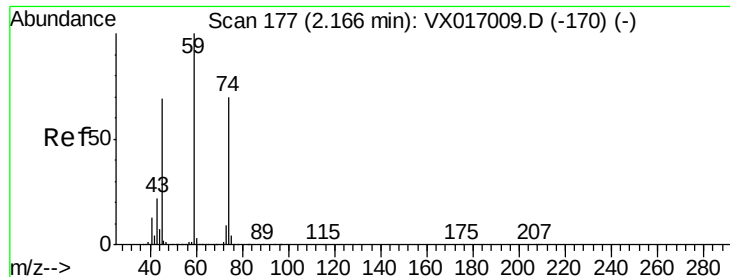
64 100

66 32.8 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VX0





#8

Diethyl Ether

Concen: 0.559 ug/l

RT: 2.18 min Scan# 180

Delta R.T. 0.02 min

Lab File: VX017095.D

Acq: 01 Jul 2020 14:06

Instrument :

MSVOA_X

ClientSampled :

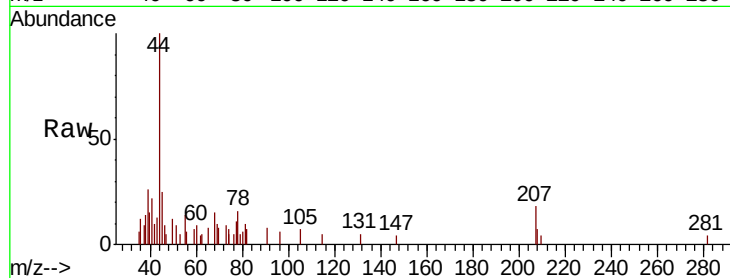
I-OC-3

Tot Ion: 74 Resp: 217

Ion Ratio Lower Upper

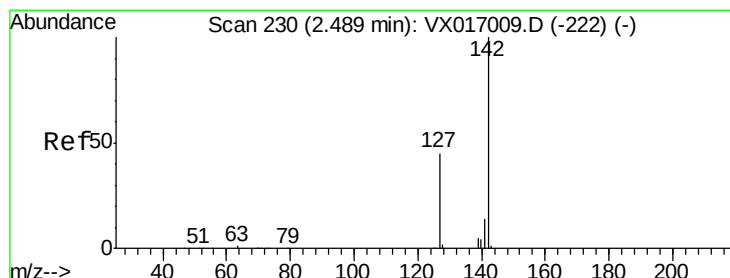
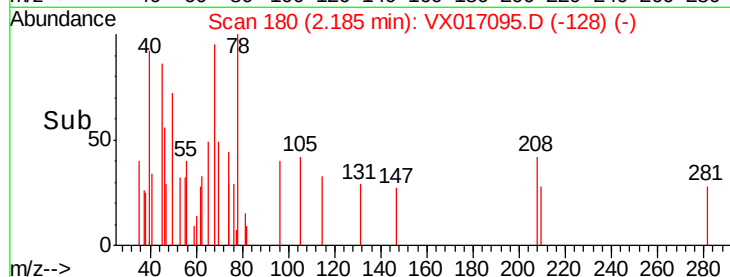
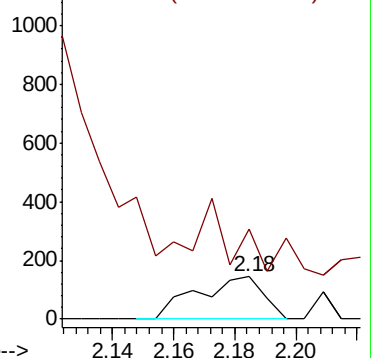
74 100

45 104.1 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 0.341 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX017095.D

Acq: 01 Jul 2020 14:06

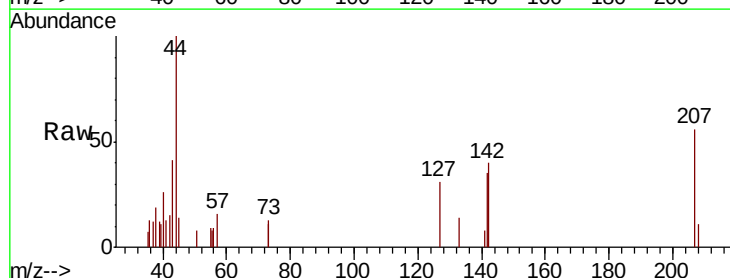
Tgt Ion: 142 Resp: 870

Ion Ratio Lower Upper

142 100

127 39.8 36.6 54.8

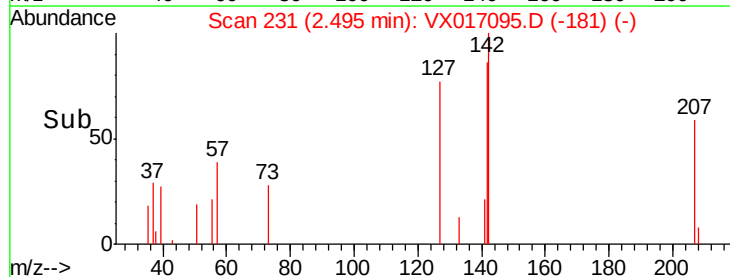
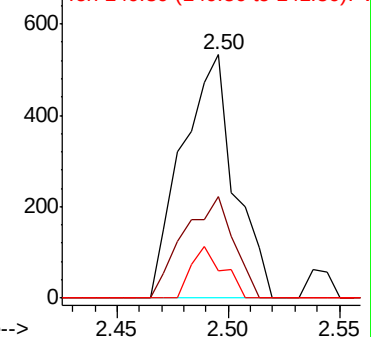
141 12.9 11.6 17.4

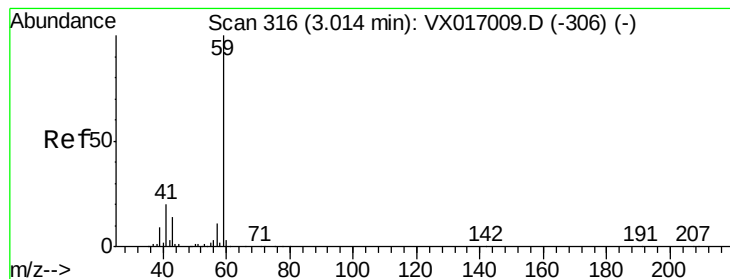


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 0.414 ug/l

RT: 3.03 min Scan# 319

Delta R.T. 0.02 min

Lab File: VX017095.D

Acq: 01 Jul 2020 14:06

Instrument :

MSVOA_X

ClientSampled :

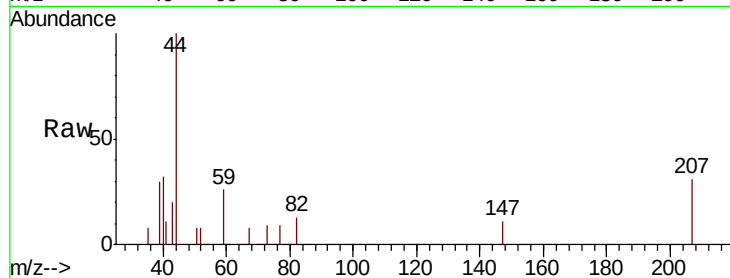
I-OC-3

Tot Ion: 59 Resp: 200

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.03

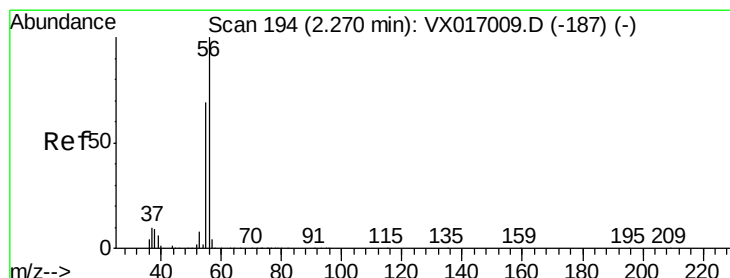
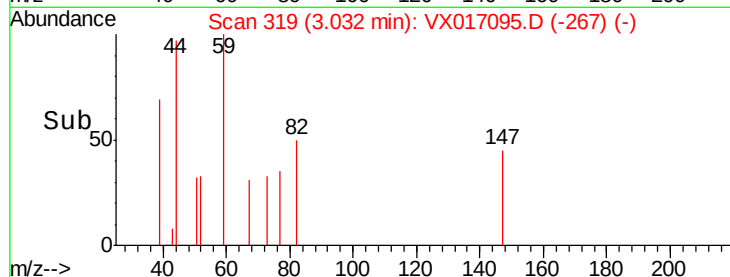
150

100

50

0

Time--> 3.00 3.02 3.04



#13

Acrolein

Concen: 1.076 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX017095.D

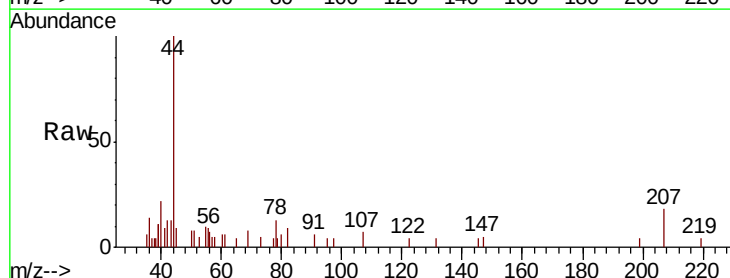
Acq: 01 Jul 2020 14:06

Tgt Ion: 56 Resp: 311

Ion Ratio Lower Upper

56 100

55 55.0 55.7 83.5#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.26

250

200

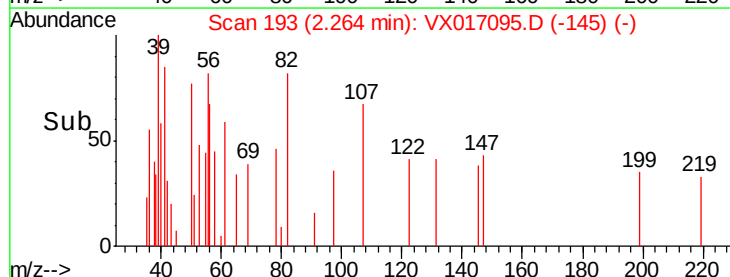
150

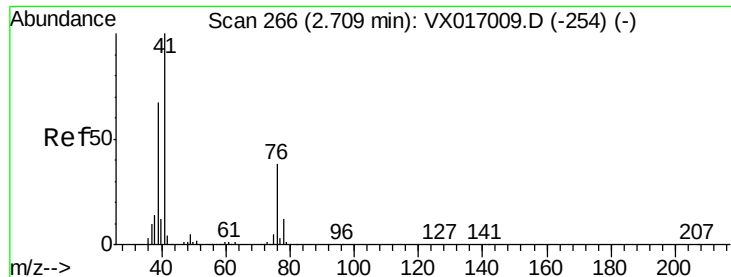
100

50

0

Time--> 2.24 2.26 2.28

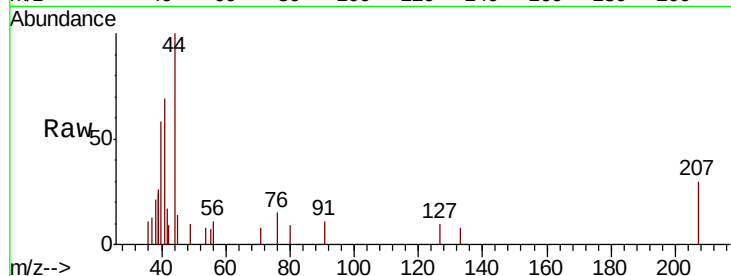




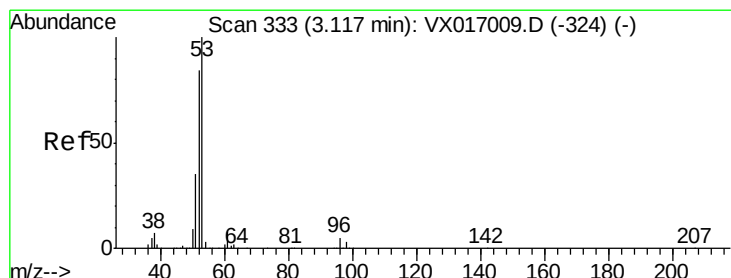
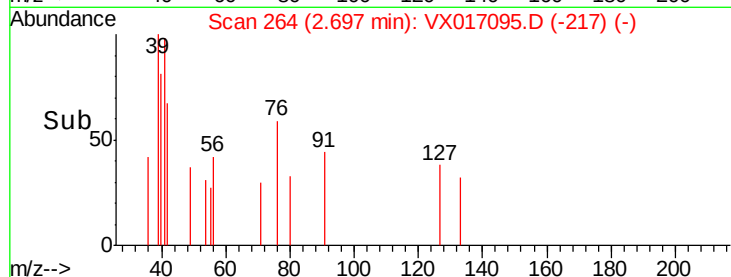
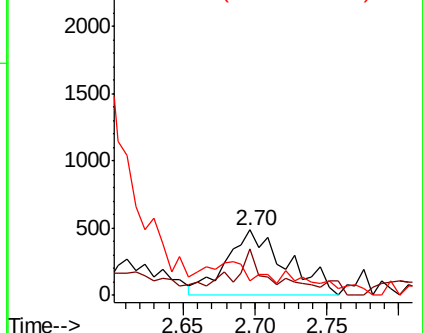
#14
Allvl chloride
Concen: 0.372 ug/l
RT: 2.70 min Scan# 264
Delta R.T. -0.01 min
Lab File: VX017095.D
Acq: 01 Jul 2020 14:06

Instrument :
MSVOA_X
ClientSampleId :
I-OC-3

Tot Ion: 41 Resp: 1399
Ion Ratio Lower Upper
41 100
39 25.6 49.4 74.2#
76 0.0 26.8 40.2#

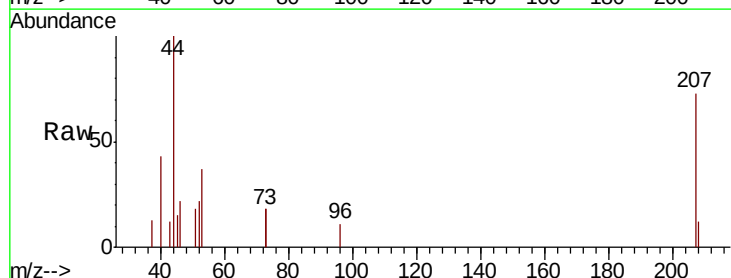


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 75.90 (75.60 to 76.60): VX0

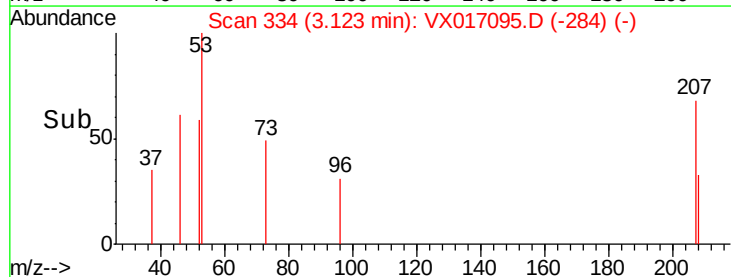
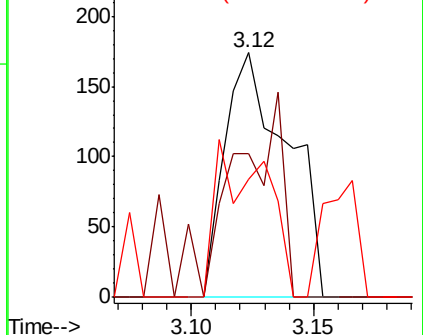


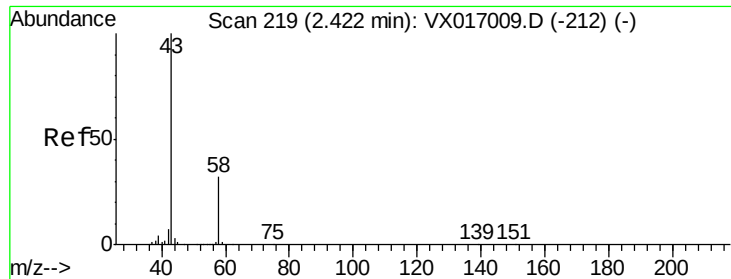
#15
Acrylonitrile
Concen: 0.268 ug/l
RT: 3.12 min Scan# 334
Delta R.T. 0.01 min
Lab File: VX017095.D
Acq: 01 Jul 2020 14:06

Tgt Ion: 53 Resp: 312
Ion Ratio Lower Upper
53 100
52 58.0 65.6 98.4#
51 0.0 28.3 42.5#



Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 38.365 ug/l

RT: 2.43 min Scan# 220

Delta R.T. 0.01 min

Lab File: VX017095.D

Acq: 01 Jul 2020 14:06

Instrument :

MSVOA_X

ClientSampleId :

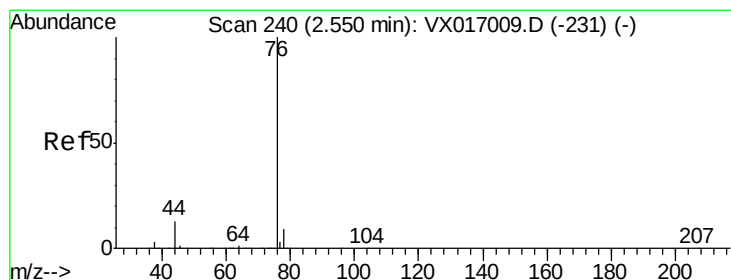
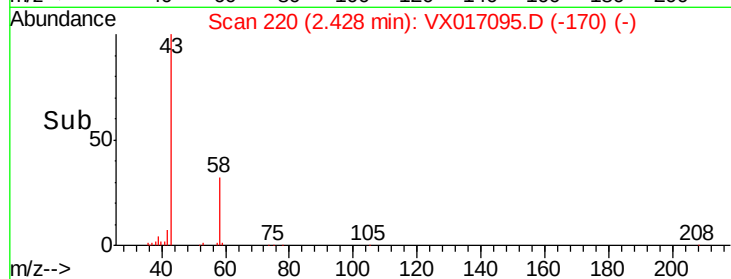
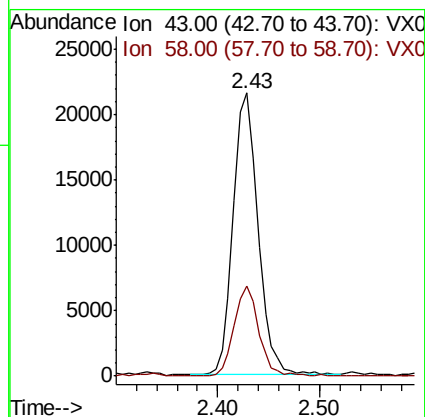
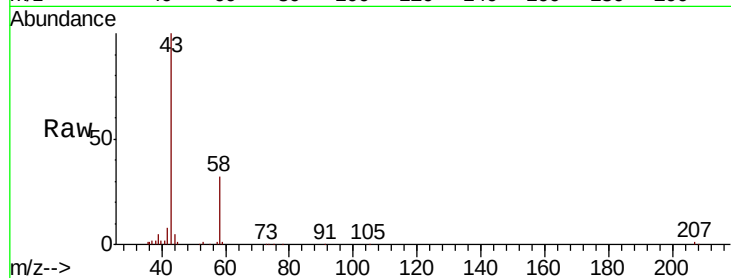
I-OC-3

Tot Ion: 43 Resp: 36371

Ion Ratio Lower Upper

43 100

58 31.7 25.7 38.5



#17

Carbon Disulfide

Concen: 103.354 ug/l

RT: 2.54 min Scan# 239

Delta R.T. -0.01 min

Lab File: VX017095.D

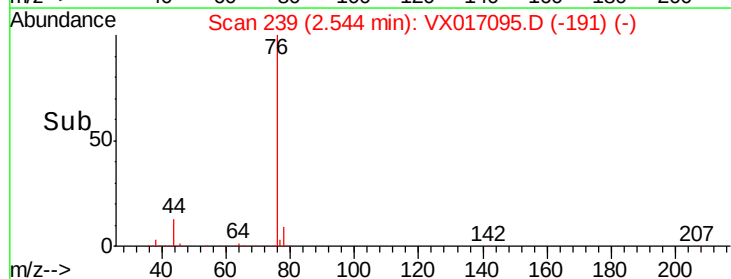
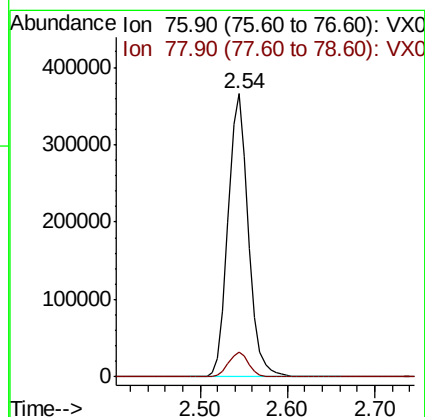
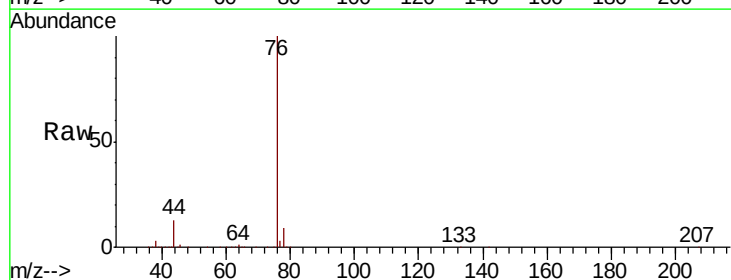
Acq: 01 Jul 2020 14:06

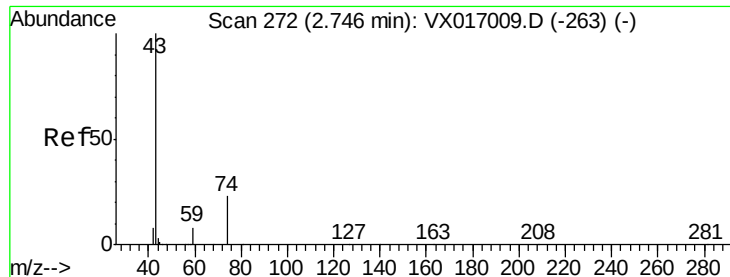
Tgt Ion: 76 Resp: 586703

Ion Ratio Lower Upper

76 100

78 9.0 7.2 10.8





#18

Methyl Acetate

Concen: 0.453 ug/l

RT: 2.76 min Scan# 274

Delta R.T. 0.01 min

Lab File: VX017095.D

Acq: 01 Jul 2020 14:06

Instrument :

MSVOA_X

ClientSampled :

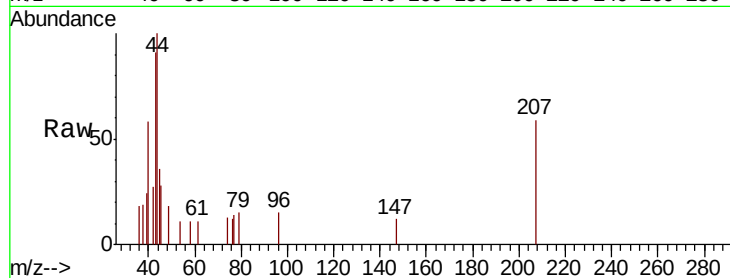
I-OC-3

Tot Ion: 43 Resp: 1120

Ion Ratio Lower Upper

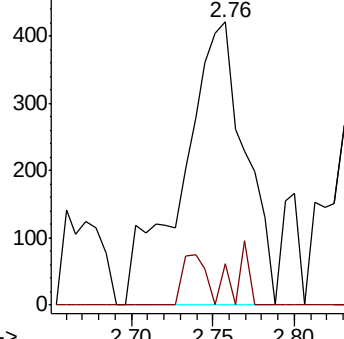
43 100

74 5.2 19.3 28.9#

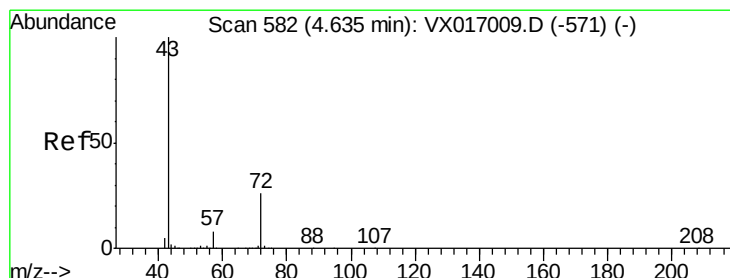
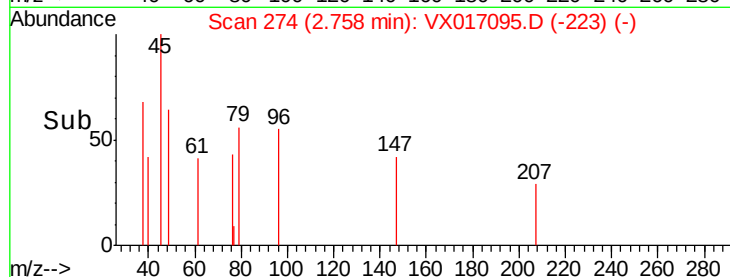


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



Time-->



#25

2-Butanone

Concen: 3.477 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX017095.D

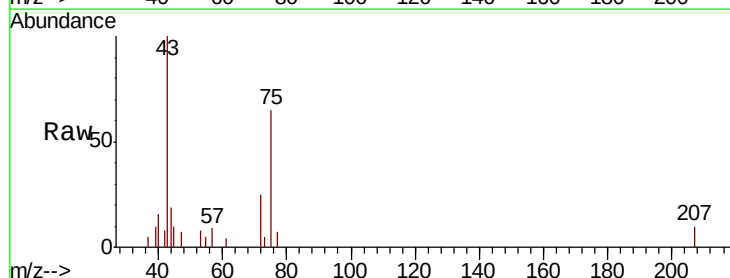
Acq: 01 Jul 2020 14:06

Tgt Ion: 43 Resp: 5492

Ion Ratio Lower Upper

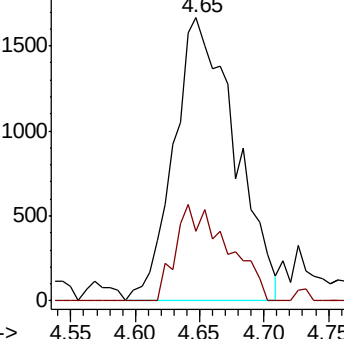
43 100

72 24.7 20.8 31.2

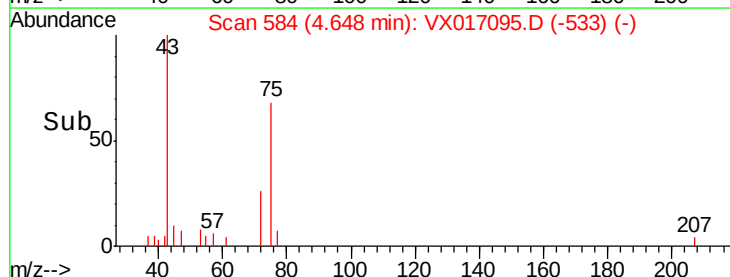


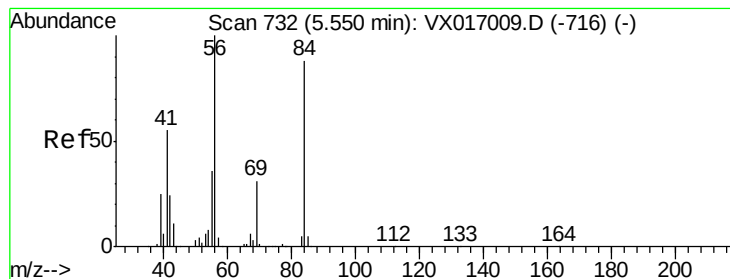
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->





#31

Cyclohexane

Concen: 1.304 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.07 min

Lab File: VX017095.D

Acq: 01 Jul 2020 14:06

Instrument :

MSVOA_X

ClientSampled :

I-OC-3

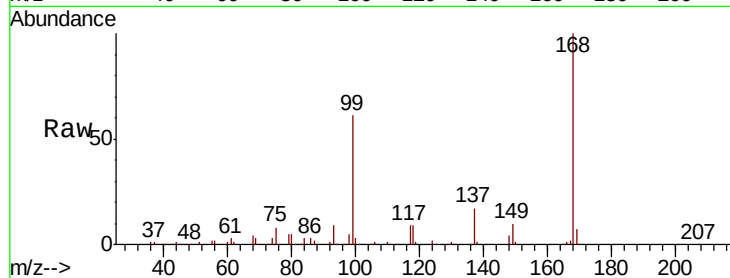
Tot Ion: 56 Resp: 4460

Ion Ratio Lower Upper

56 100

69 151.8 25.0 37.4#

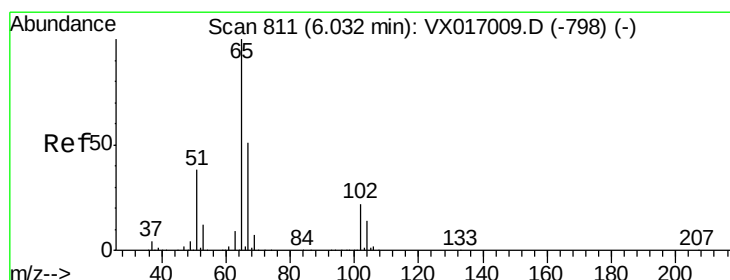
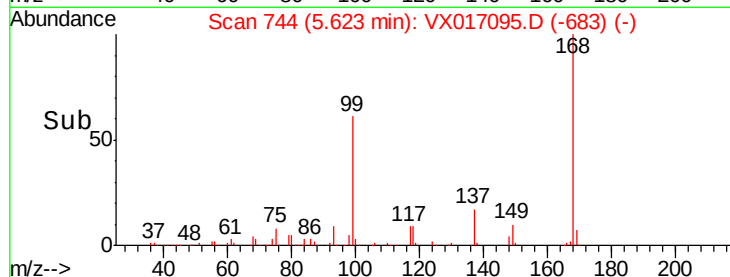
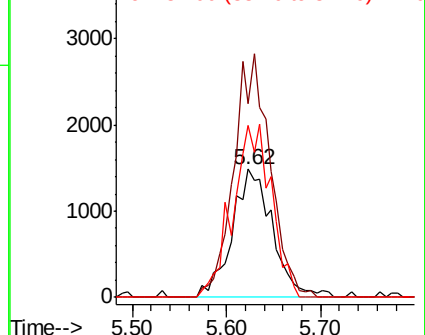
84 134.4 69.1 103.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 53.746 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017095.D

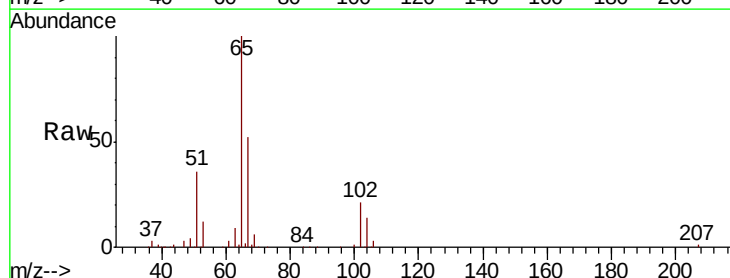
Acq: 01 Jul 2020 14:06

Tgt Ion: 65 Resp: 136204

Ion Ratio Lower Upper

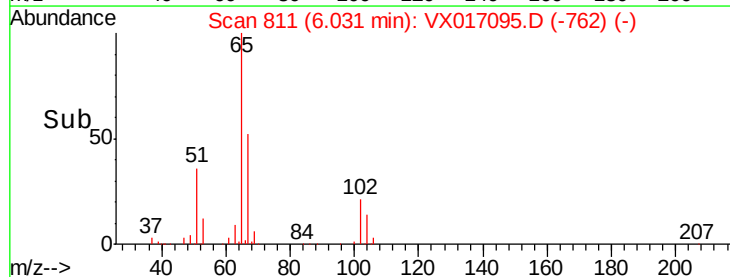
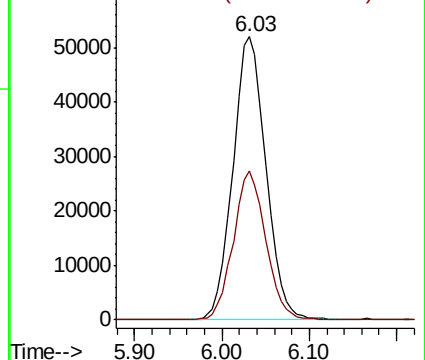
65 100

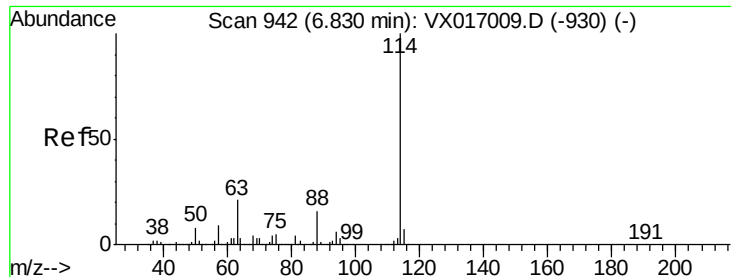
67 51.9 0.0 103.8



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: VX017095.D

Acq: 01 Jul 2020 14:06

Instrument :

MSVOA_X

ClientSampleId :

I-OC-3

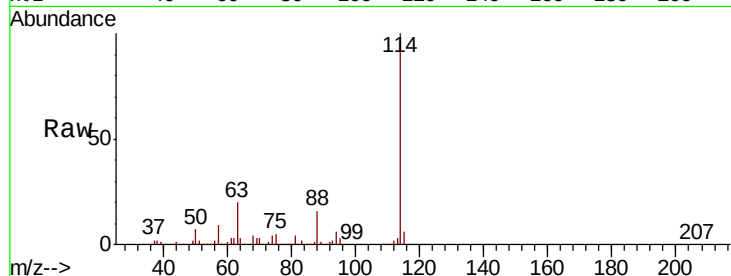
Tot Ion:114 Resp: 352118

Ion Ratio Lower Upper

114 100

63 20.2 0.0 41.4

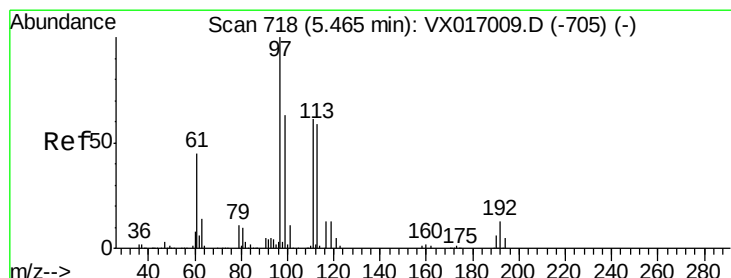
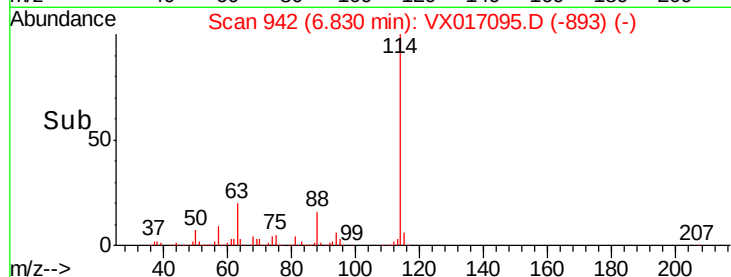
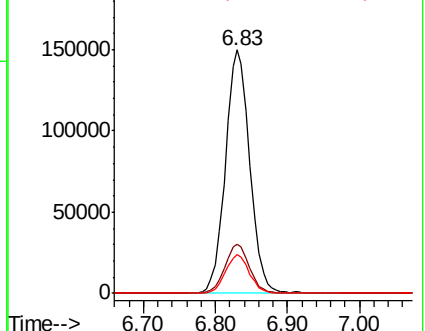
88 15.7 0.0 32.4



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: 53.451 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX017095.D

Acq: 01 Jul 2020 14:06

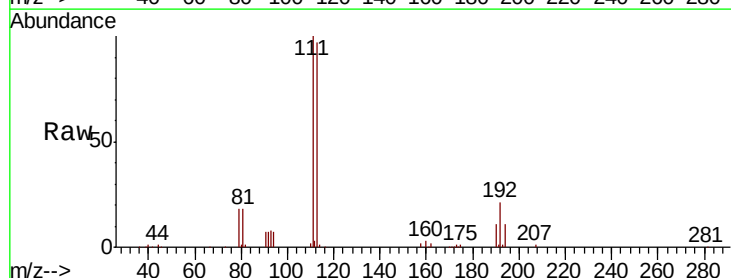
Tgt Ion:113 Resp: 119056

Ion Ratio Lower Upper

113 100

111 101.1 81.9 122.9

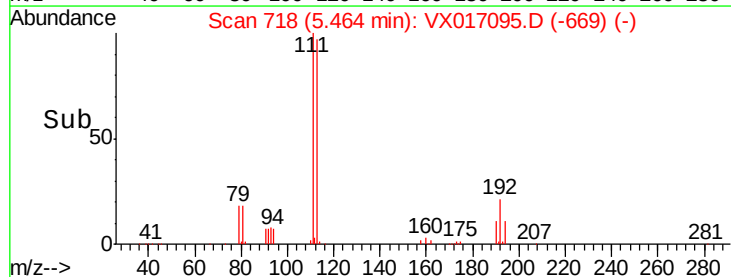
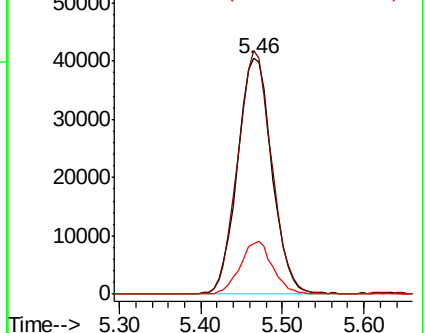
192 21.0 16.7 25.1

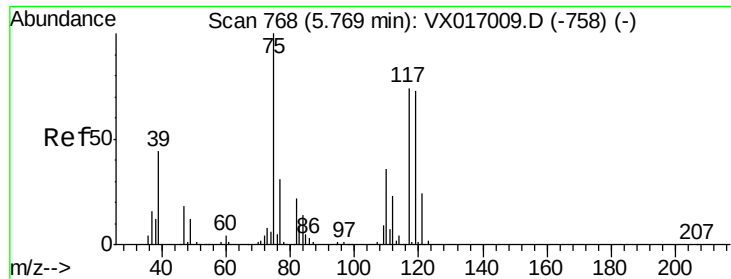


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

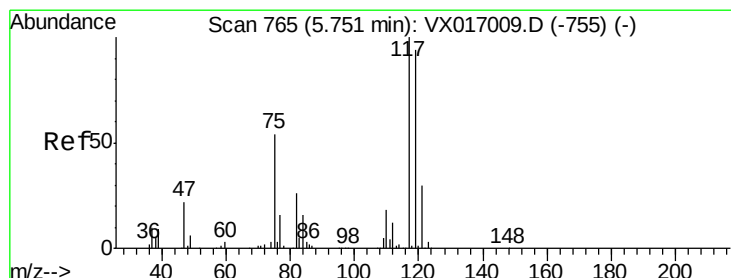
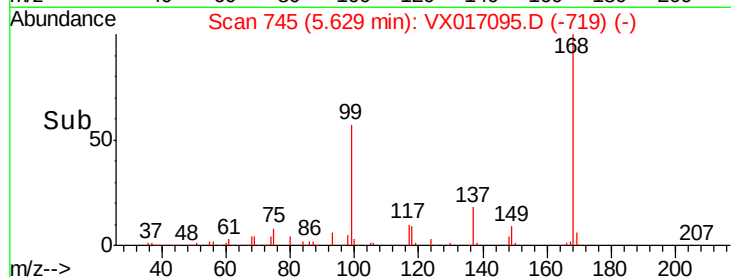
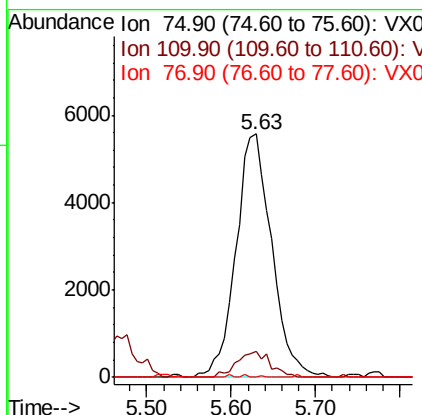
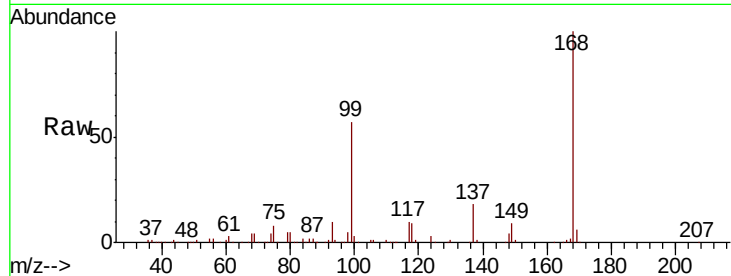




#36
 1,1-Dichloropropene
 Concen: 4.805 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017095.D
 Acq: 01 Jul 2020 14:06

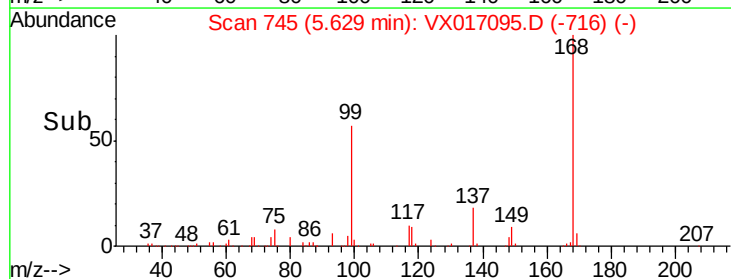
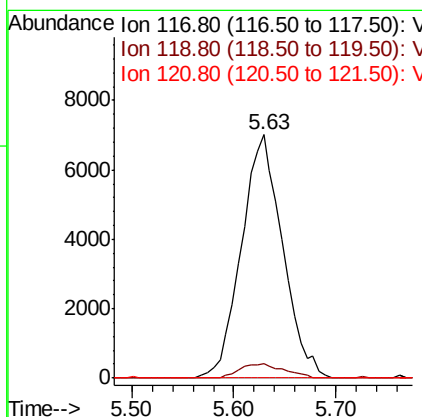
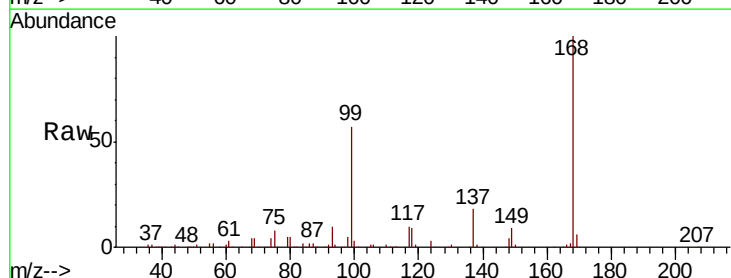
Instrument :
 MSVOA_X
 ClientSampleId :
 I-OC-3

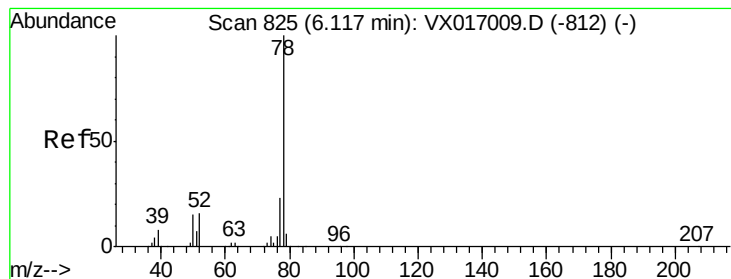
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.9	18.1	54.1#
77	0.1	24.6	37.0#



#38
 Carbon Tetrachloride
 Concen: 5.364 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX017095.D
 Acq: 01 Jul 2020 14:06

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	75.4	113.0#
121	0.0	23.8	35.6#





#40

Benzene

Concen: 0.804 ug/l

RT: 6.11 min Scan# 824

Delta R.T. -0.01 min

Lab File: VX017095.D

Acq: 01 Jul 2020 14:06

Instrument :

MSVOA_X

ClientSampled :

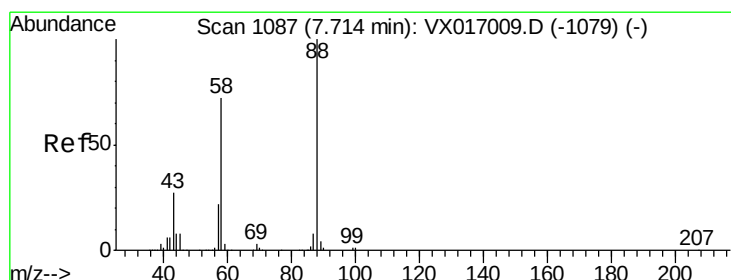
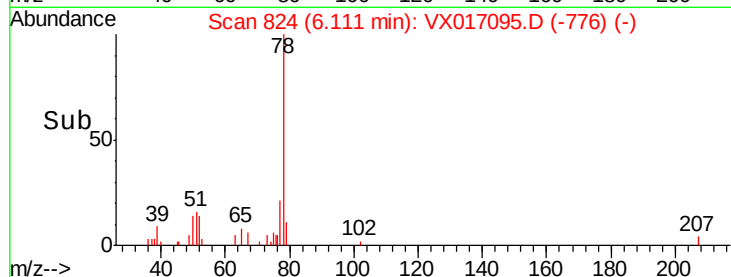
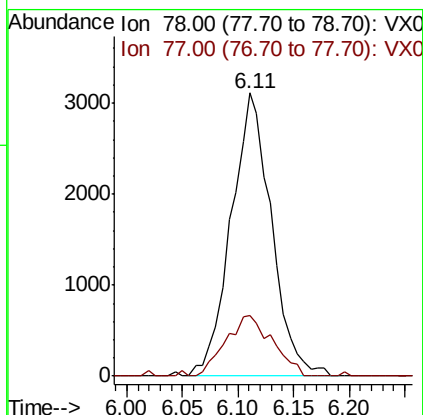
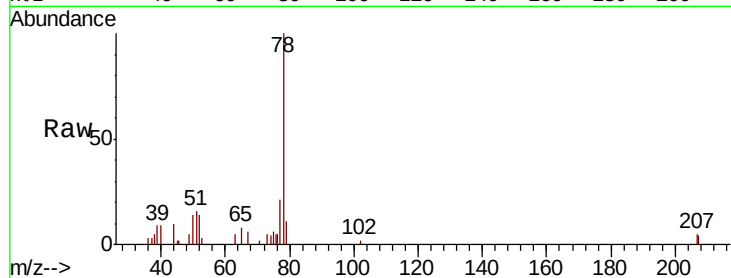
I-OC-3

Tot Ion: 78 Resp: 7860

Ion Ratio Lower Upper

78 100

77 21.3 18.3 27.5



#49

1,4-Dioxane

Concen: 1.507 ug/l

RT: 7.71 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX017095.D

Acq: 01 Jul 2020 14:06

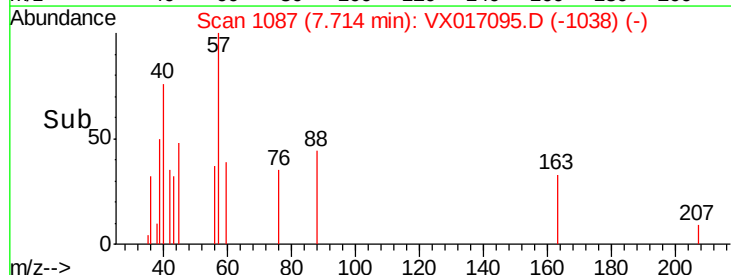
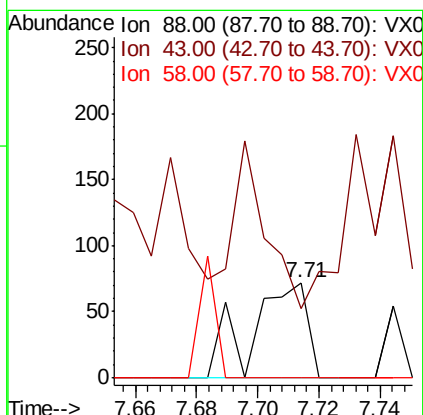
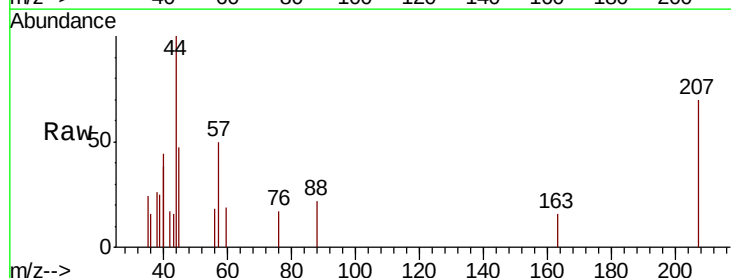
Tgt Ion: 88 Resp: 91

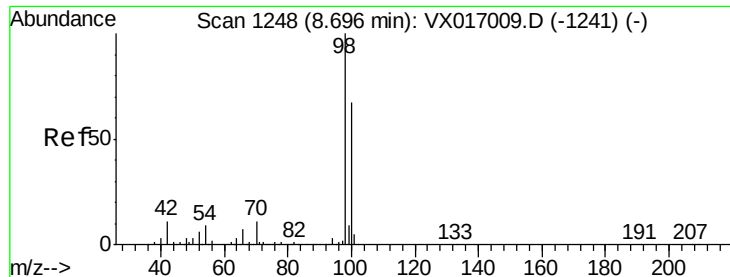
Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.8#

58 0.0 54.8 82.2#





#50

Toluene-d8

Concen: 52.679 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017095.D

Acq: 01 Jul 2020 14:06

Instrument :

MSVOA_X

ClientSampleId :

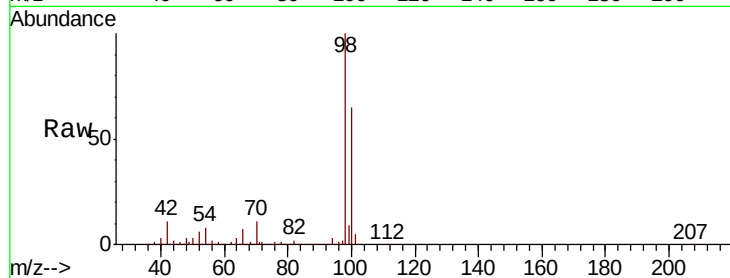
I-OC-3

Tot Ion: 98 Resp: 433891

Ion Ratio Lower Upper

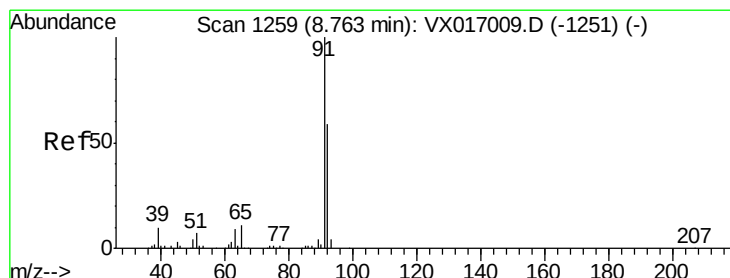
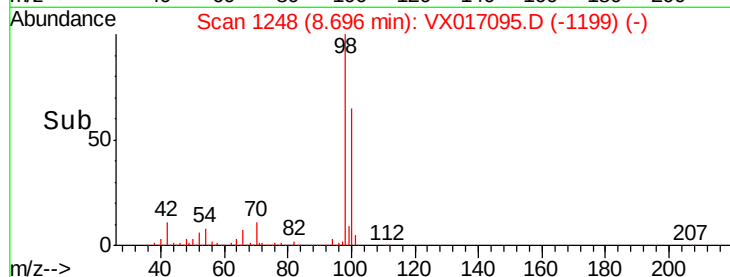
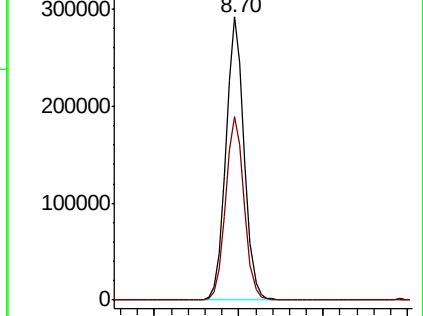
98 100

100 65.9 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#52

Toluene

Concen: 0.306 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. 0.01 min

Lab File: VX017095.D

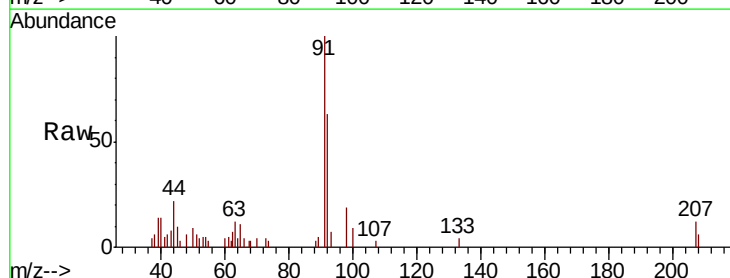
Acq: 01 Jul 2020 14:06

Tgt Ion: 92 Resp: 1866

Ion Ratio Lower Upper

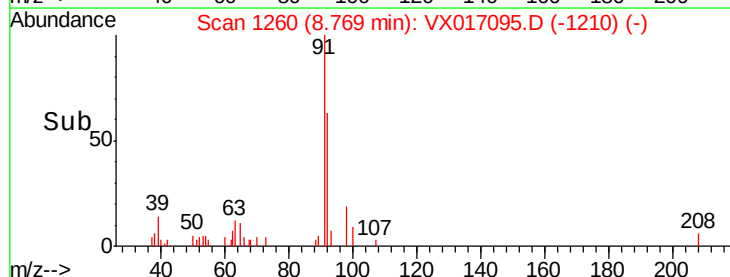
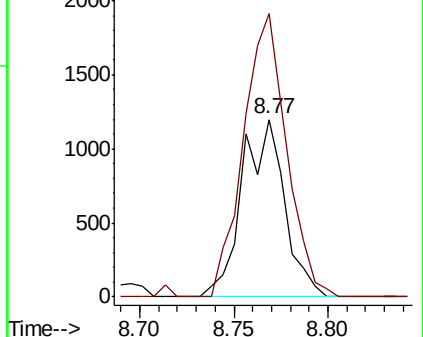
92 100

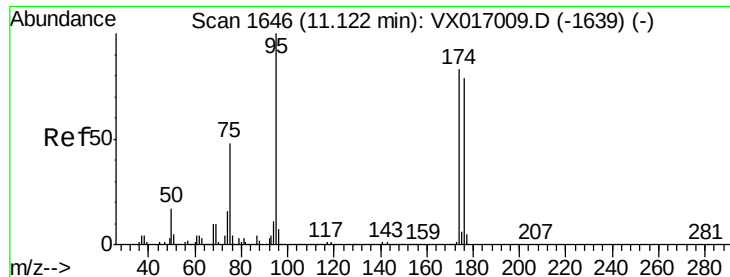
91 162.9 136.9 205.3



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

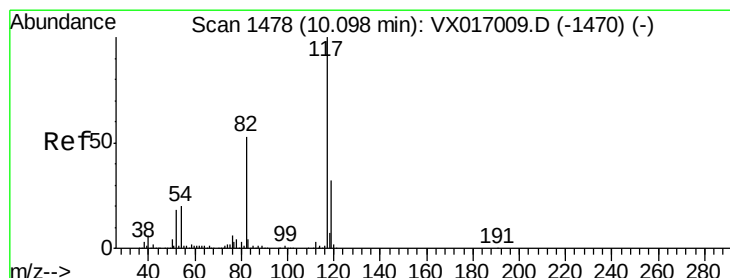
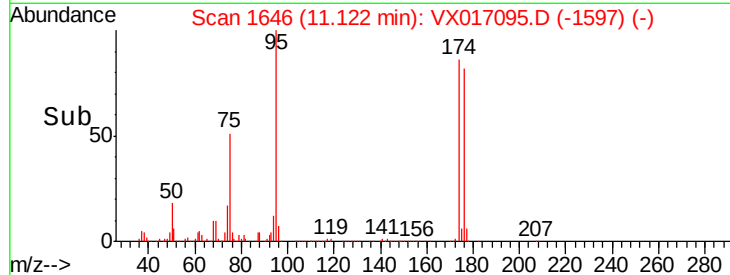
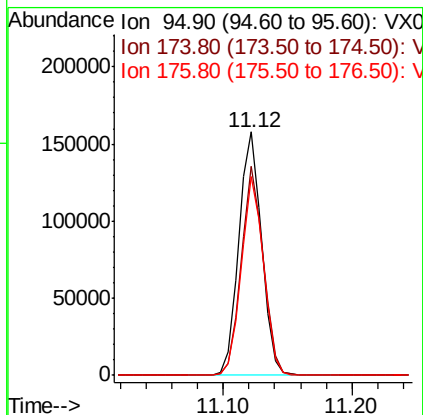
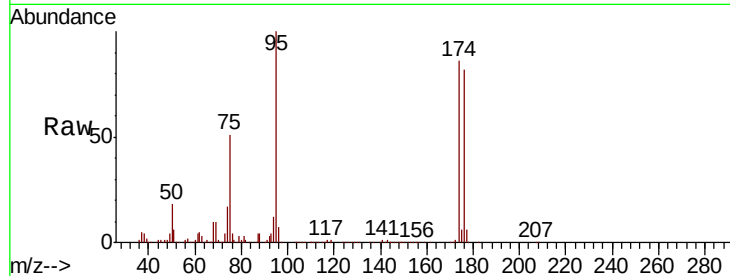




#62
4-Bromofluorobenzene
Concen: 60.196 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017095.D
Acq: 01 Jul 2020 14:06

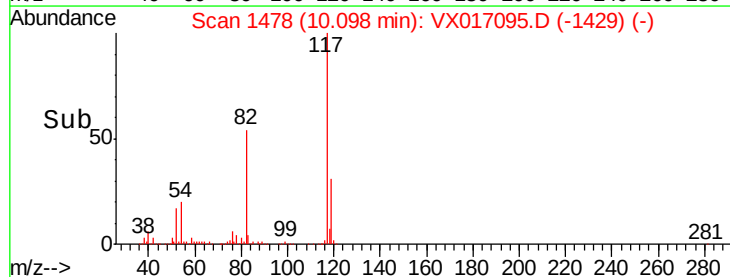
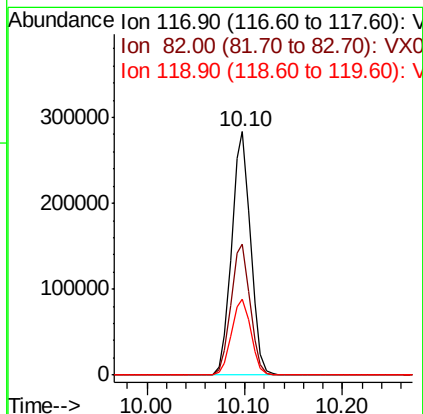
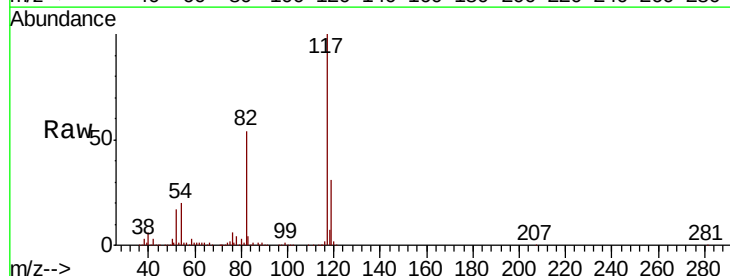
Instrument :
MSVOA_X
ClientSampleId :
I-OC-3

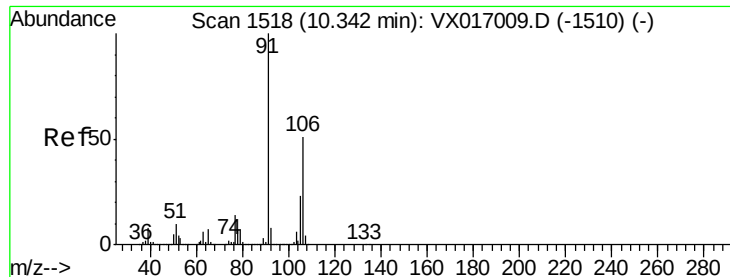
Tot Ion	Ratio	Lower	Upper
95	100		
174	82.8	0.0	164.0
176	79.3	0.0	157.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017095.D
Acq: 01 Jul 2020 14:06

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.9	42.6	63.8
119	31.3	25.4	38.2





#68

m/p-Xvlenes

Concen: 0.330 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX017095.D

Acq: 01 Jul 2020 14:06

Instrument :

MSVOA_X

ClientSampled :

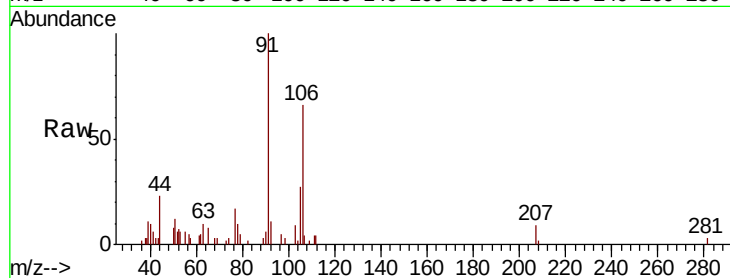
I-OC-3

Tot Ion:106 Resp: 1652

Ion Ratio Lower Upper

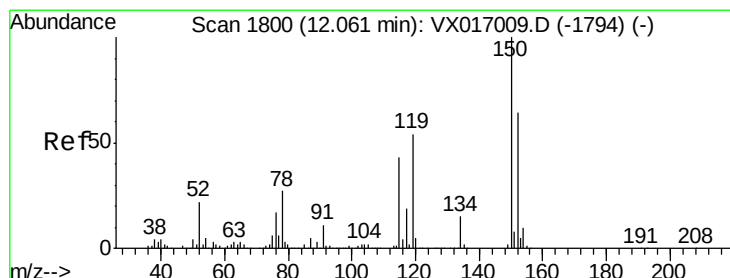
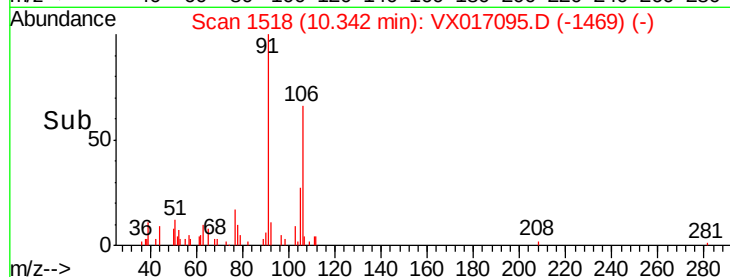
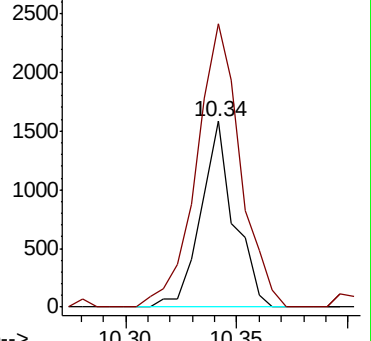
106 100

91 200.4 158.6 238.0



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: VX017095.D

Acq: 01 Jul 2020 14:06

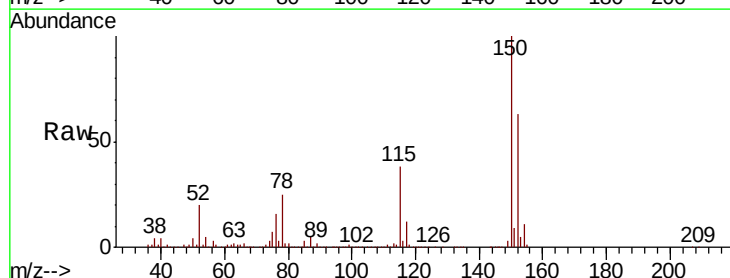
Tgt Ion:152 Resp: 206099

Ion Ratio Lower Upper

152 100

115 57.5 40.9 122.7

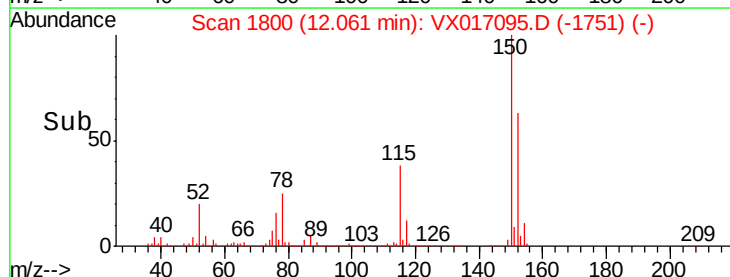
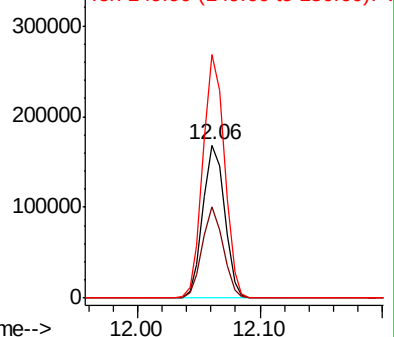
150 157.7 0.0 351.6

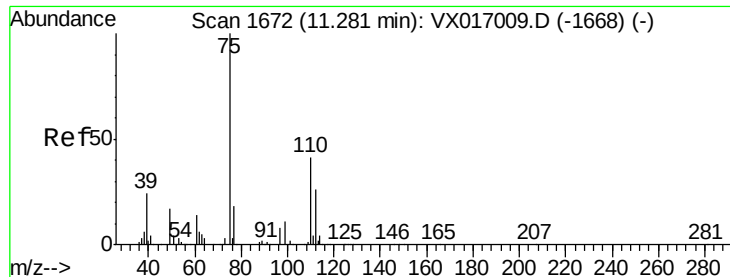


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.922 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017095.D

Acq: 01 Jul 2020 14:06

Instrument :

MSVOA_X

ClientSampleId :

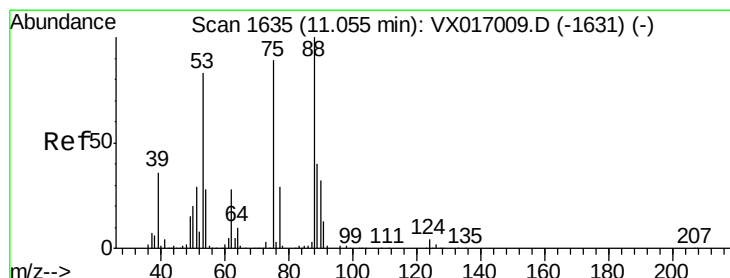
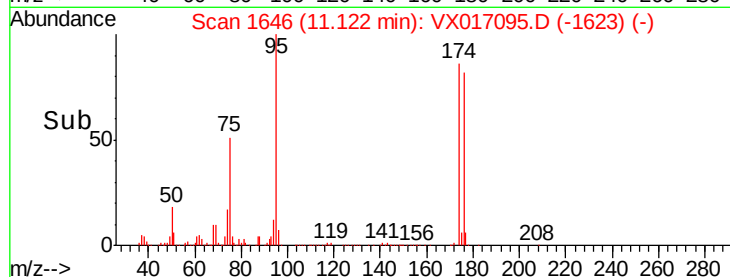
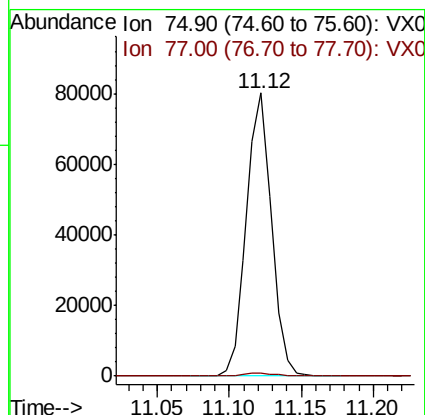
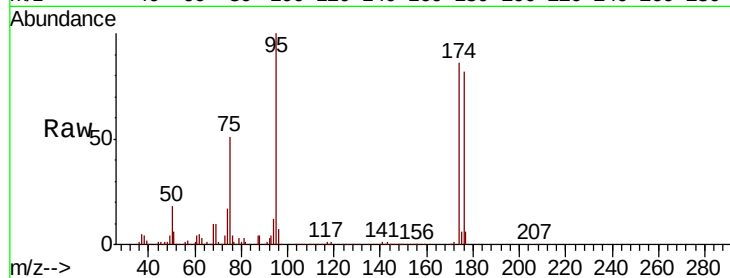
I-OC-3

Tot Ion: 75 Resp: 96952

Ion Ratio Lower Upper

75 100

77 1.4 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.950 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017095.D

Acq: 01 Jul 2020 14:06

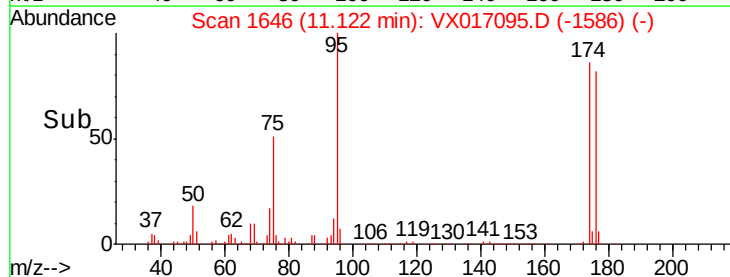
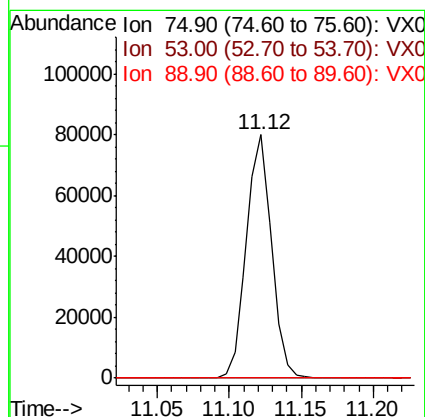
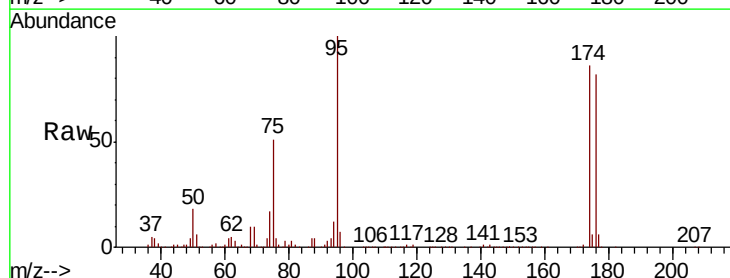
Tgt Ion: 75 Resp: 96952

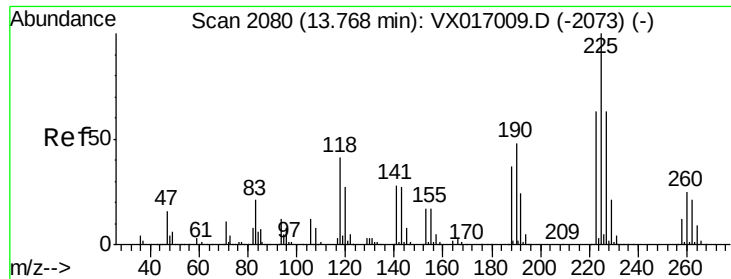
Ion Ratio Lower Upper

75 100

53 0.2 72.4 108.6#

89 0.0 37.0 55.4#





#94

Hexachlorobutadiene

Concen: 0.864 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX017095.D

Acq: 01 Jul 2020 14:06

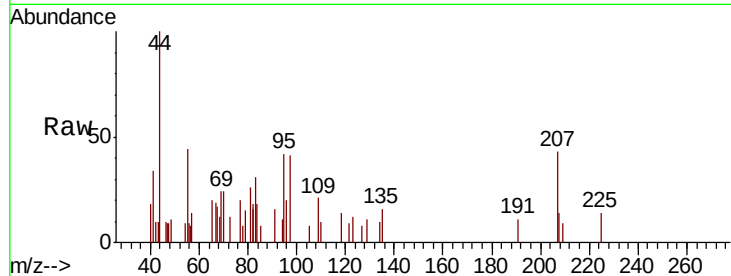
Instrument :

MSVOA_X

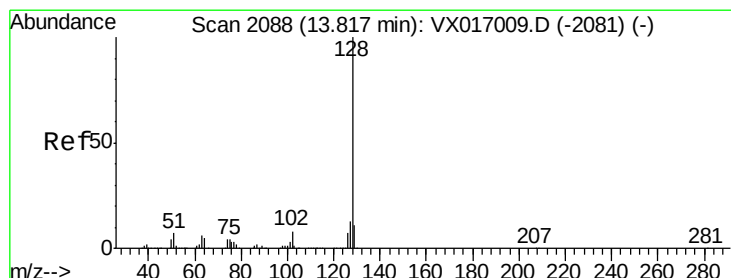
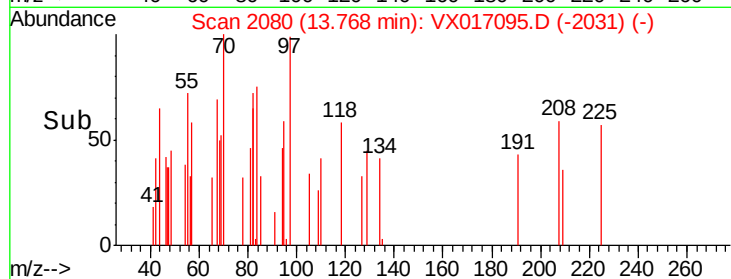
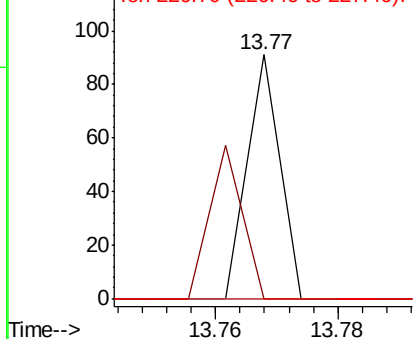
ClientSampled :

I-OC-3

Tot Ion:	225	Resp:	33
Ion	Ratio	Lower	Upper
225	100		
223	63.6	32.5	97.5
227	0.0	33.1	99.2#



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: 32.170 ug/l

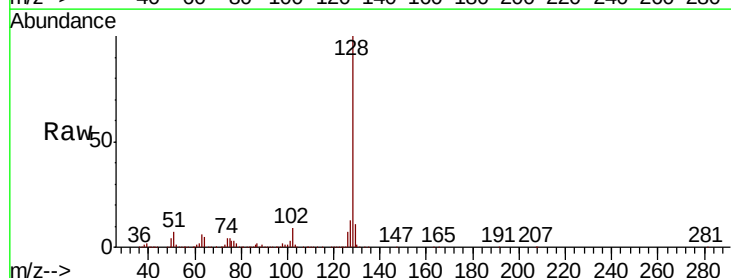
RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX017095.D

Acq: 01 Jul 2020 14:06

Tgt Ion:	128	Resp:	420472
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.2	15.4
129	11.2	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

