

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092320\
 Data File : VX018546.D
 Acq On : 23 Sep 2020 19:53
 Operator : JC/SP
 Sample : L4083-17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB01-20200917

Quant Time: Sep 24 00:38:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 17 12:17:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	480636	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	757607	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	716398	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	356598	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	325673	47.90	ug/l	0.00
Spiked Amount			Recovery	=	95.80%	
35) Dibromofluoromethane	5.47	113	256126	48.90	ug/l	0.00
Spiked Amount			Recovery	=	97.80%	
50) Toluene-d8	8.70	98	924121	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	
62) 4-Bromofluorobenzene	11.12	95	341208	45.08	ug/l	0.00
Spiked Amount			Recovery	=	90.16%	

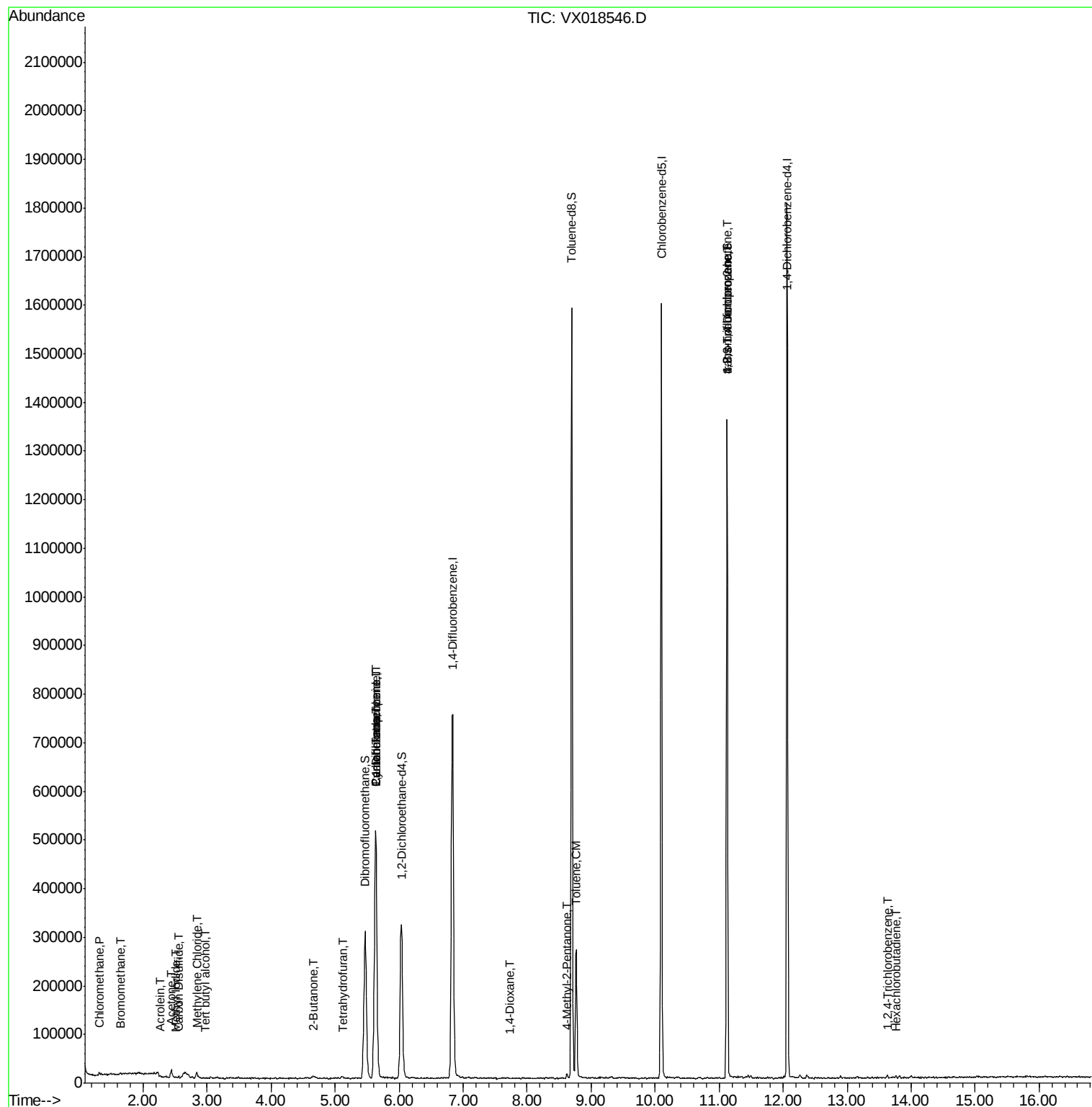
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	2470	0.463	ug/l	94
5) Bromomethane	1.65	94	918	0.265	ug/l	87
10) Methyl Iodide	2.51	142	1258	5.113	ug/l #	88
11) Tert butyl alcohol	2.98	59	446	0.377	ug/l #	13
13) Acrolein	2.27	56	331	0.442	ug/l	91
16) Acetone	2.44	43	23037	8.859	ug/l	100
17) Carbon Disulfide	2.56	76	2866	0.206	ug/l #	85
20) Methylene Chloride	2.83	84	5480	0.955	ug/l #	80
25) 2-Butanone	4.65	43	5693	1.406	ug/l #	87
29) Tetrahydrofuran	5.12	42	3673	1.439	ug/l #	58
31) Cyclohexane	5.64	56	9531	1.158	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	39035	5.308	ug/l #	52
38) Carbon Tetrachloride	5.64	117	50756	6.232	ug/l #	20
49) 1,4-Dioxane	7.72	88	37	0.353	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	5864	0.756	ug/l	98
52) Toluene	8.76	92	96622	7.286	ug/l	100
76) 1,2,3-Trichloropropane	11.12	75	176061	23.495	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	176061	60.205	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.63	180	1629	0.212	ug/l	84
94) Hexachlorobutadiene	13.76	225	744	0.230	ug/l	85

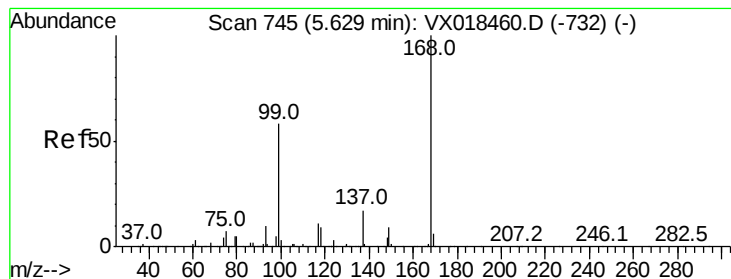
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091720W.M
Quant Title : SW846 8260
QLast Update : Thu Sep 17 12:17:36 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018546.D

Acq: 23 Sep 2020 19:53

Instrument :

MSVOA_X

ClientSampleId :

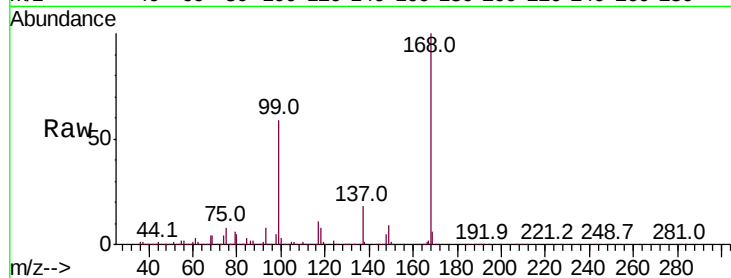
FB01-20200917

Tot Ion:168 Resp: 480636

Ion Ratio Lower Upper

168 100

99 59.4 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

200000

150000

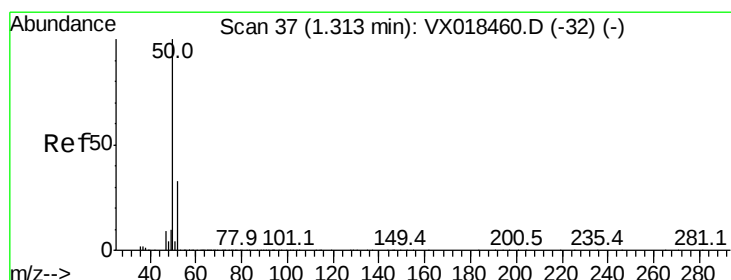
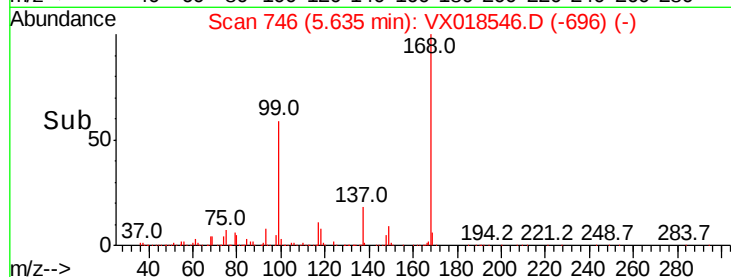
100000

50000

0

5.50 5.60 5.70

Time-->



#3

Chloromethane

Concen: 0.463 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX018546.D

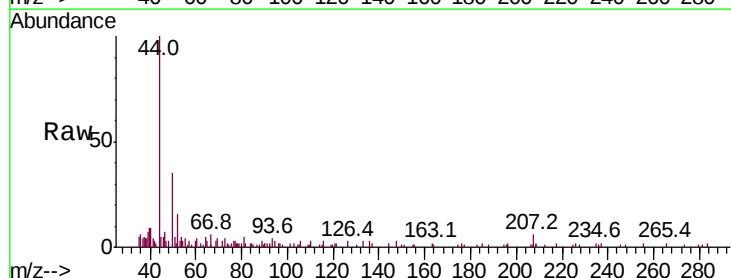
Acq: 23 Sep 2020 19:53

Tgt Ion: 50 Resp: 2470

Ion Ratio Lower Upper

50 100

52 36.9 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

2000

1500

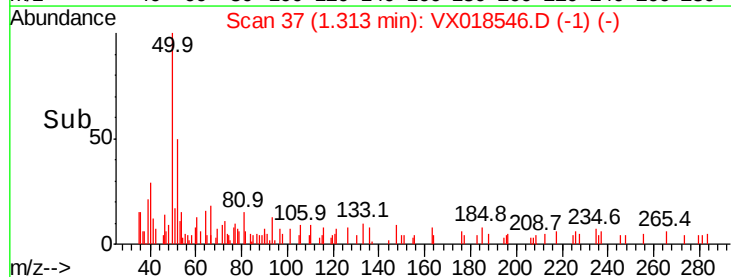
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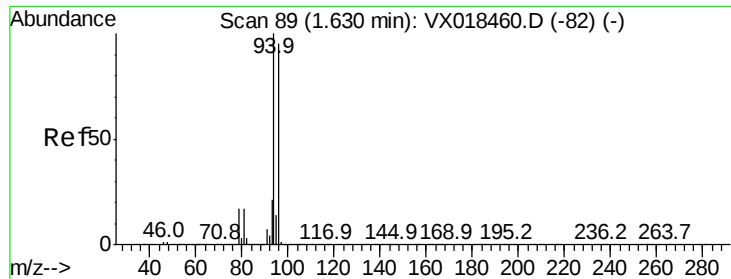
500

0

1.25 1.30 1.35

Time-->





#5

Bromomethane

Concen: 0.265 ug/l

RT: 1.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VX018546.D

Acq: 23 Sep 2020 19:53

Instrument :

MSVOA_X

ClientSampleId :

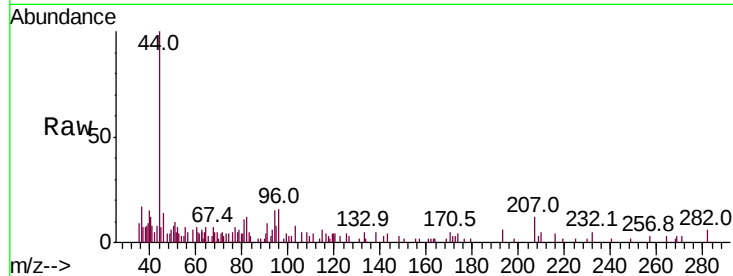
FB01-20200917

Tot Ion: 94 Resp: 918

Ion Ratio Lower Upper

94 100

96 106.8 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

600

400

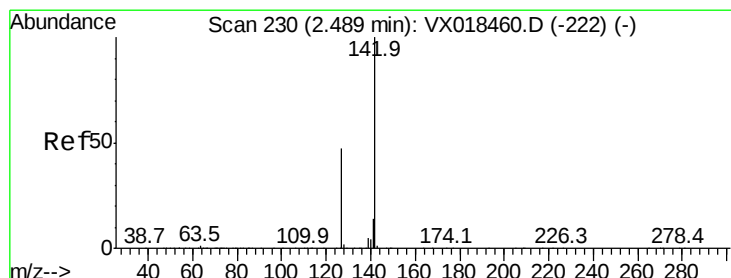
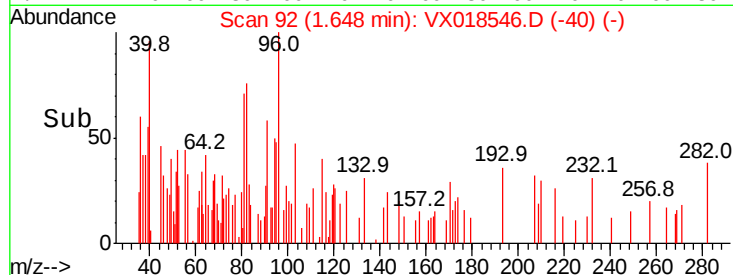
200

0

1.60 1.65 1.70

1.65

Time-->



#10

Methyl Iodide

Concen: 5.113 ug/l

RT: 2.51 min Scan# 233

Delta R.T. 0.02 min

Lab File: VX018546.D

Acq: 23 Sep 2020 19:53

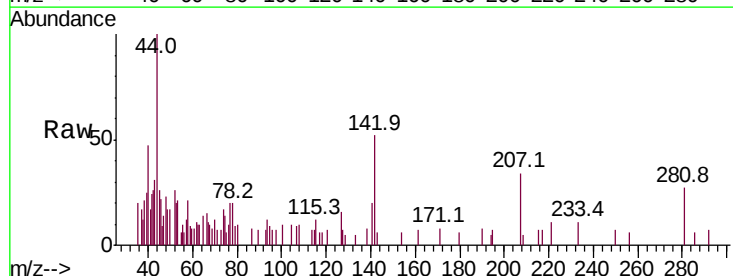
Tgt Ion: 142 Resp: 1258

Ion Ratio Lower Upper

142 100

127 35.8 36.0 54.0#

141 12.6 11.9 17.9



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

600

400

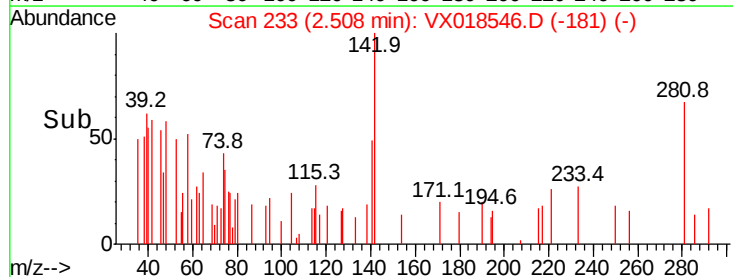
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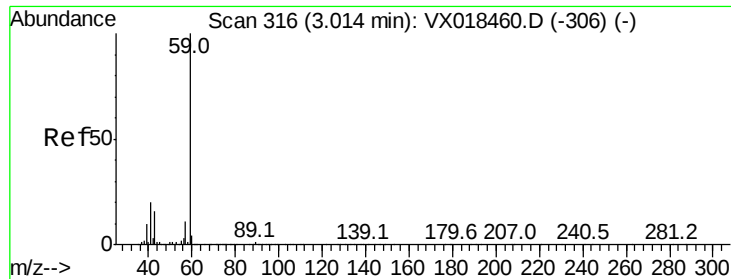
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2.45 2.50 2.55

2.51

Time-->



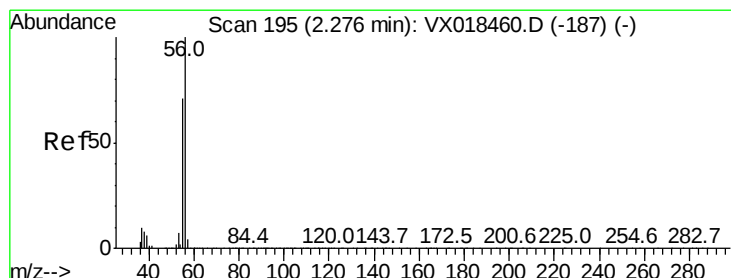
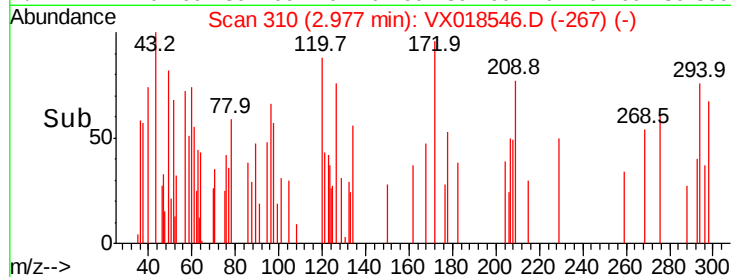
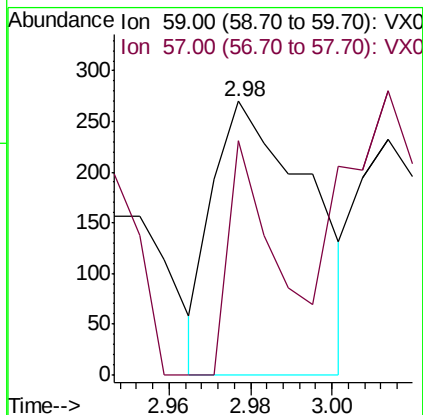
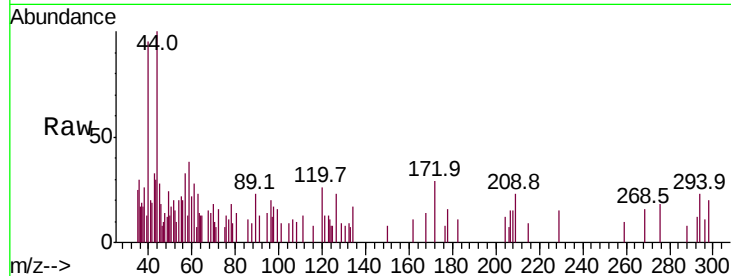


#11

Tert butyl alcohol
Concen: 0.377 ug/l
RT: 2.98 min Scan# 310
Delta R.T. -0.04 min
Lab File: VX018546.D
Acq: 23 Sep 2020 19:53

Instrument :
MSVOA_X
ClientSampleId :
FB01-20200917

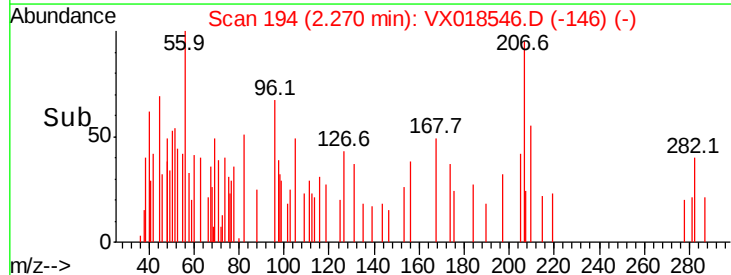
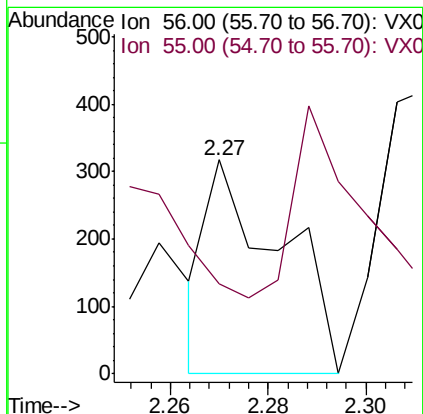
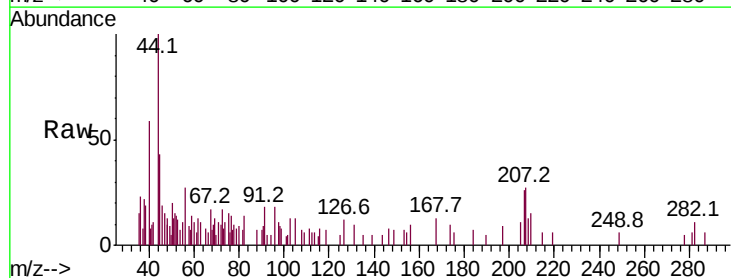
Tot Ion: 59 Resp: 446
Ion Ratio Lower Upper
59 100
57 42.8 8.2 12.4#

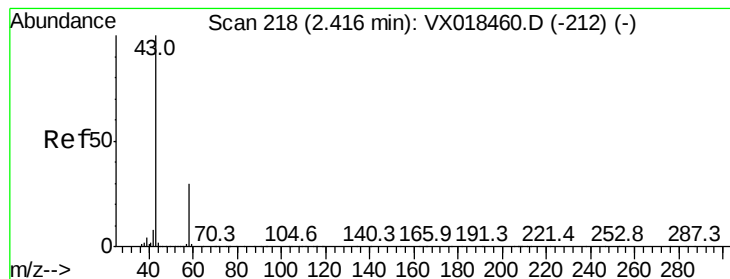


#13

Acrolein
Concen: 0.442 ug/l
RT: 2.27 min Scan# 194
Delta R.T. -0.01 min
Lab File: VX018546.D
Acq: 23 Sep 2020 19:53

Tgt Ion: 56 Resp: 331
Ion Ratio Lower Upper
56 100
55 80.1 58.2 87.4





#16

Acetone

Concen: 8.859 ug/l

RT: 2.44 min Scan# 222

Delta R.T. 0.02 min

Lab File: VX018546.D

Acq: 23 Sep 2020 19:53

Instrument :

MSVOA_X

ClientSampleId :

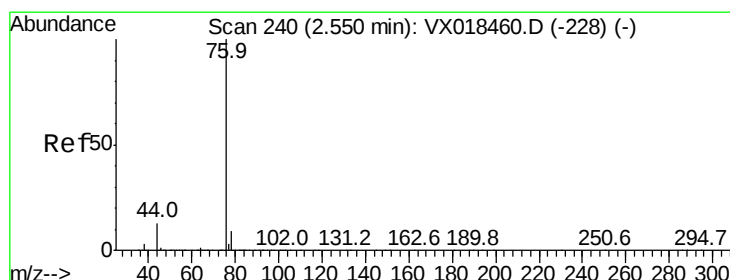
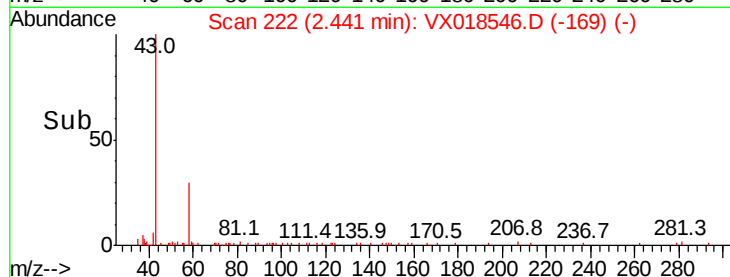
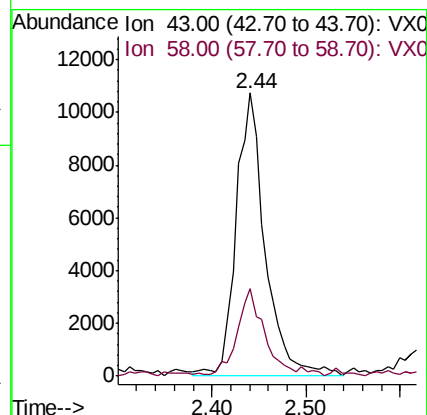
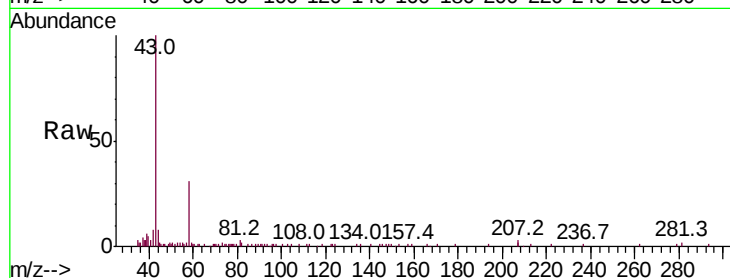
FB01-20200917

Tot Ion: 43 Resp: 23037

Ion Ratio Lower Upper

43 100

58 30.2 24.0 36.0



#17

Carbon Disulfide

Concen: 0.206 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX018546.D

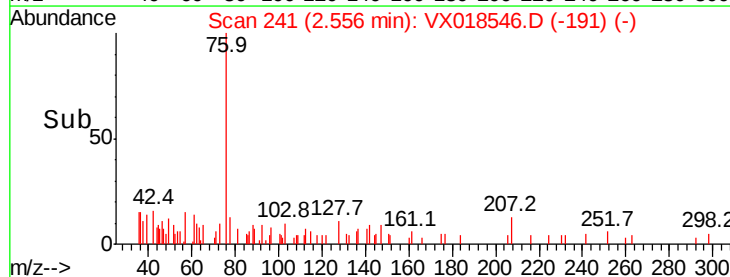
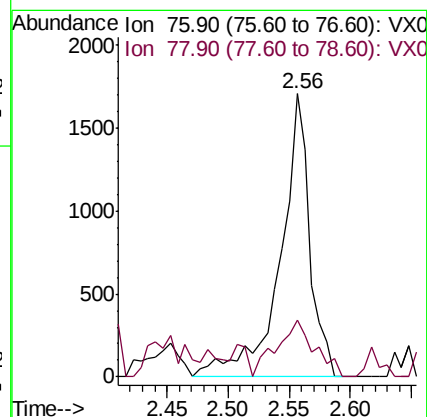
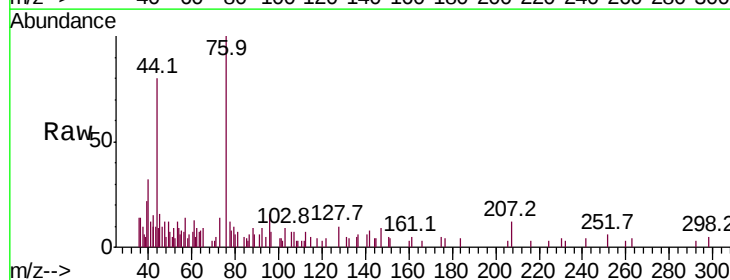
Acq: 23 Sep 2020 19:53

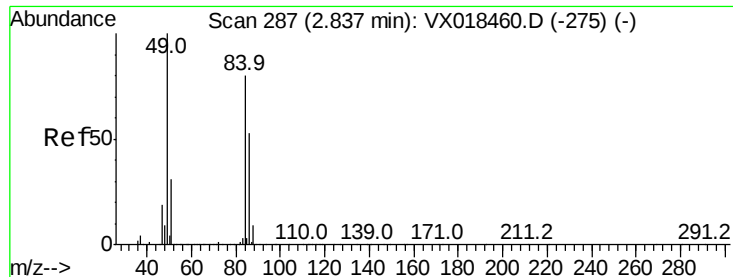
Tgt Ion: 76 Resp: 2866

Ion Ratio Lower Upper

76 100

78 14.2 7.0 10.4#

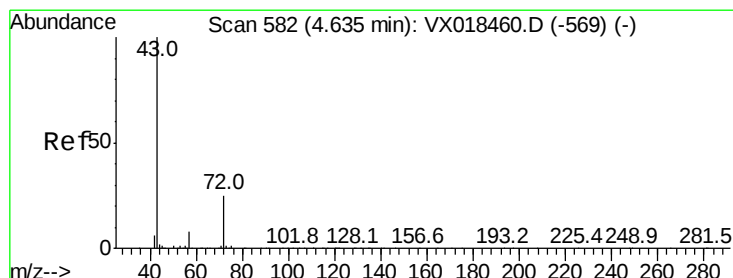
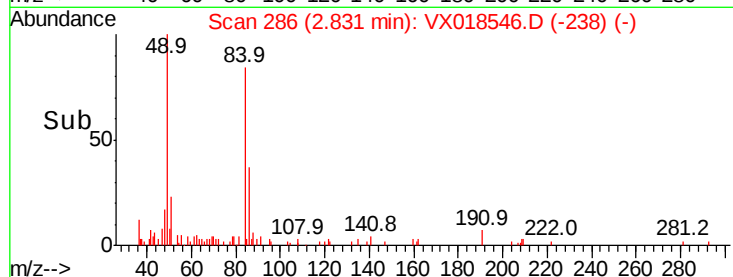
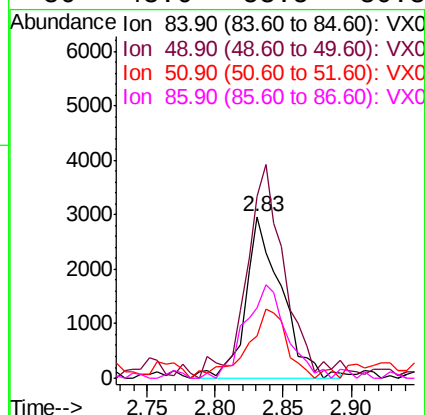
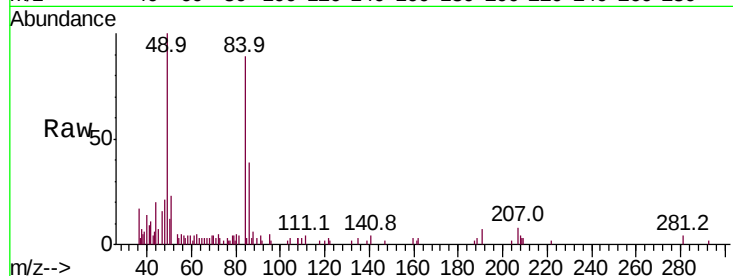




#20
Methvlene Chloride
Concen: 0.955 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX018546.D
Acq: 23 Sep 2020 19:53

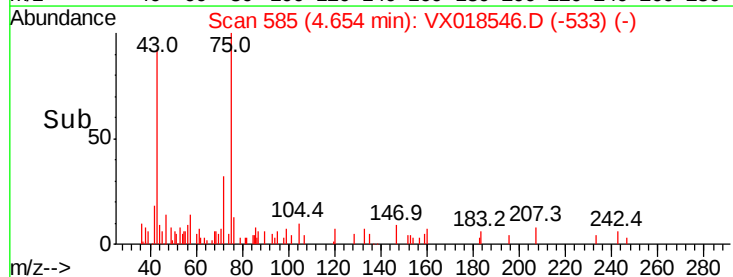
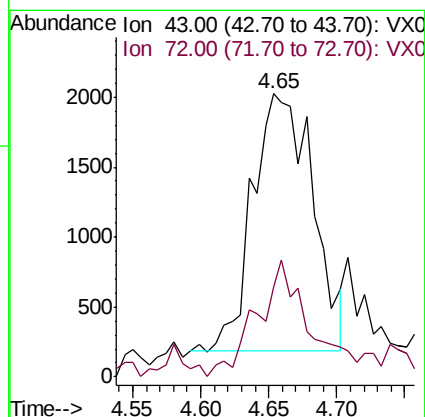
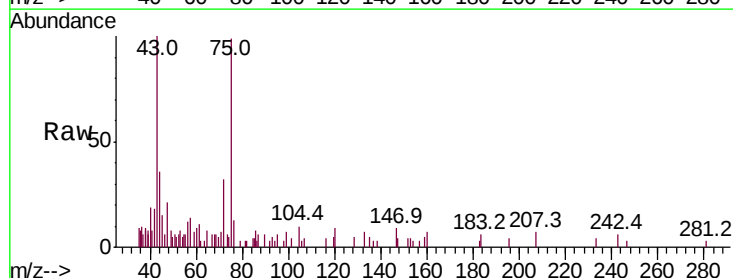
Instrument :
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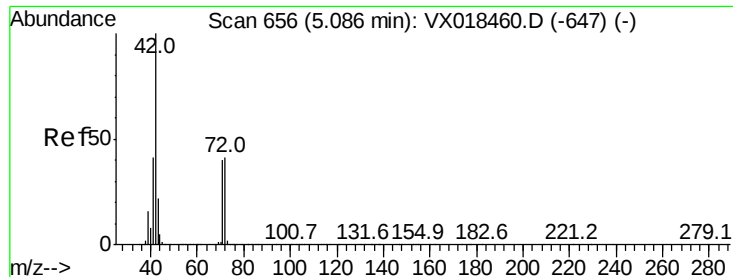
Tot Ion: 84 Resp: 5480
Ion Ratio Lower Upper
84 100
49 109.5 100.6 151.0
51 26.2 30.9 46.3#
86 43.6 53.5 80.3#



#25
2-Butanone
Concen: 1.406 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.02 min
Lab File: VX018546.D
Acq: 23 Sep 2020 19:53

Tgt Ion: 43 Resp: 5693
Ion Ratio Lower Upper
43 100
72 32.1 20.2 30.4#





#29

Tetrahydrofuran

Concen: 1.439 ug/l

RT: 5.12 min Scan# 661

Delta R.T. 0.03 min

Lab File: VX018546.D

Acq: 23 Sep 2020 19:53

Instrument :

MSVOA_X

ClientSampleId :

FB01-20200917

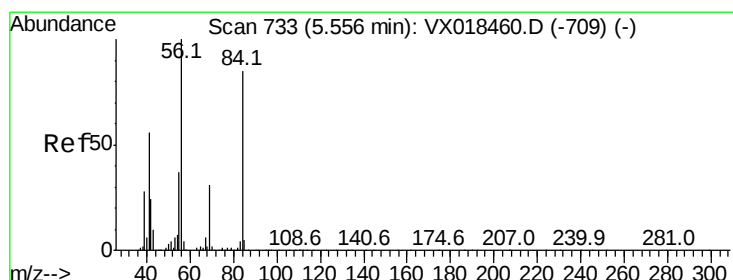
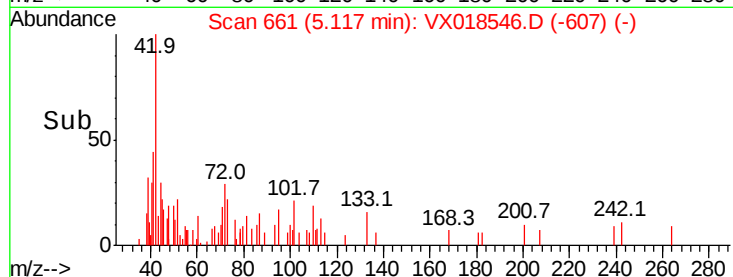
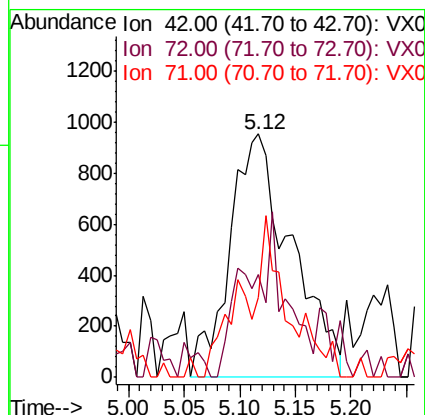
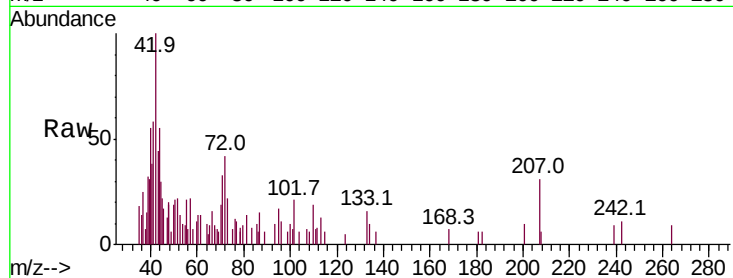
Tot Ion: 42 Resp: 3673

Ion Ratio Lower Upper

42 100

72 0.0 34.3 51.5#

71 30.7 32.1 48.1#



#31

Cyclohexane

Concen: 1.158 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.08 min

Lab File: VX018546.D

Acq: 23 Sep 2020 19:53

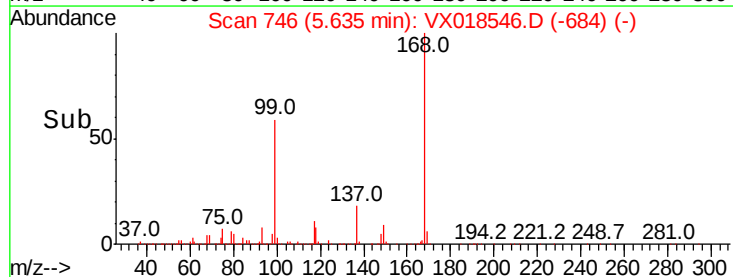
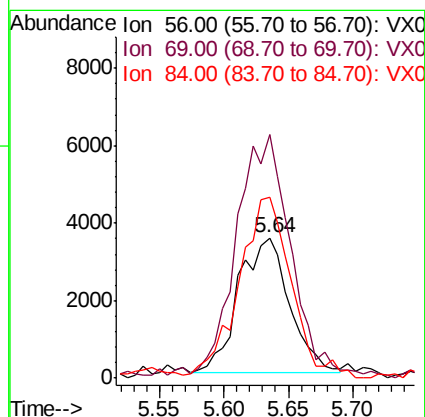
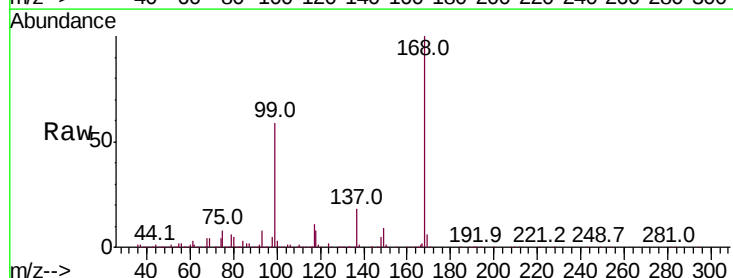
Tgt Ion: 56 Resp: 9531

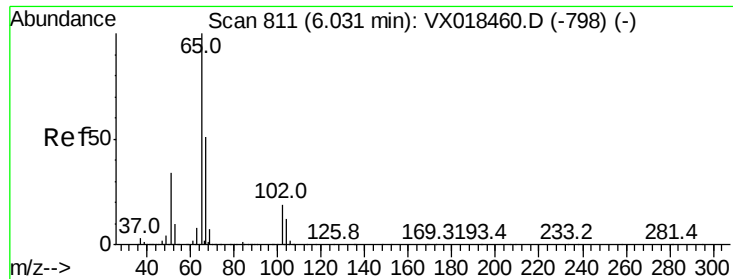
Ion Ratio Lower Upper

56 100

69 178.4 24.8 37.2#

84 131.3 67.6 101.4#





#33

1,2-Dichloroethane-d4

Concen: 47.898 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX018546.D

Acq: 23 Sep 2020 19:53

Instrument :

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ClientSampleId :

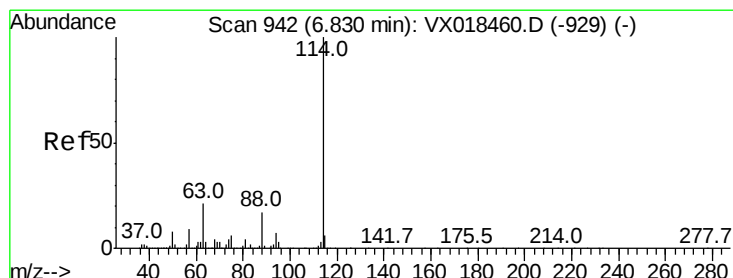
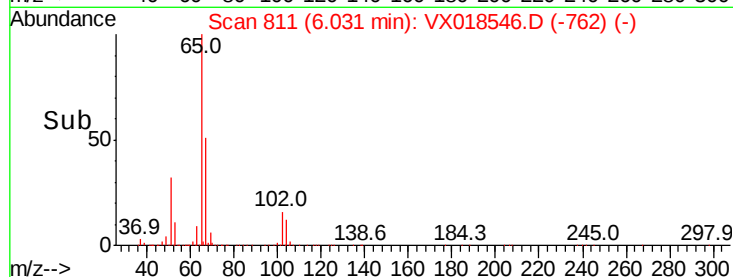
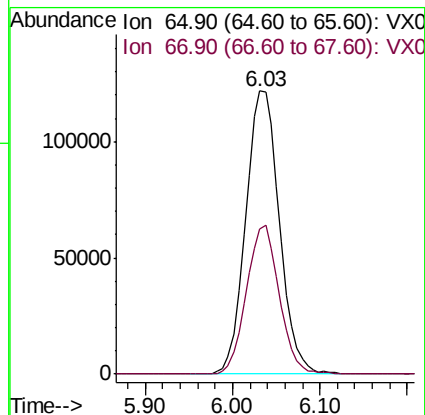
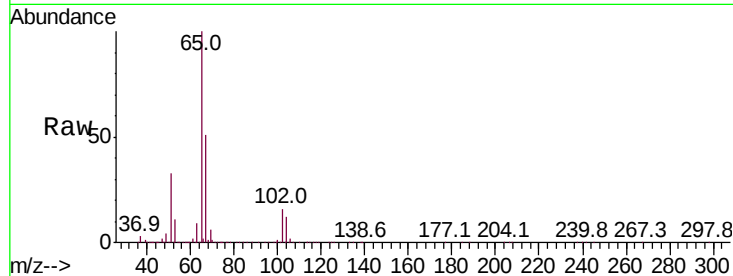
FB01-20200917

Tot Ion: 65 Resp: 325673

Ion Ratio Lower Upper

65 100

67 51.6 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX018546.D

Acq: 23 Sep 2020 19:53

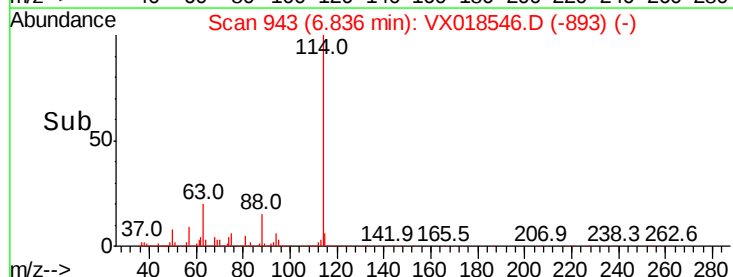
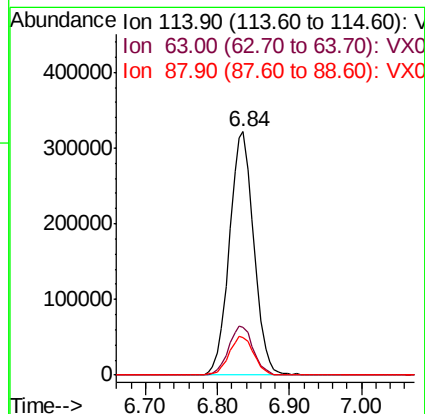
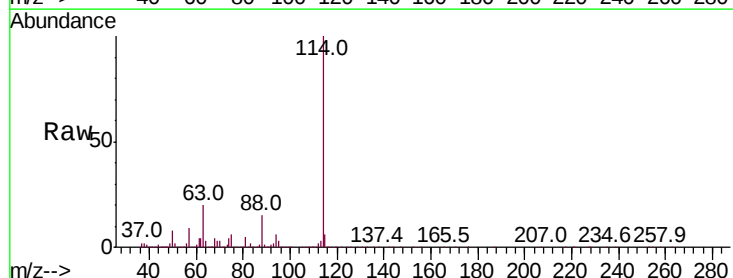
Tgt Ion: 114 Resp: 757607

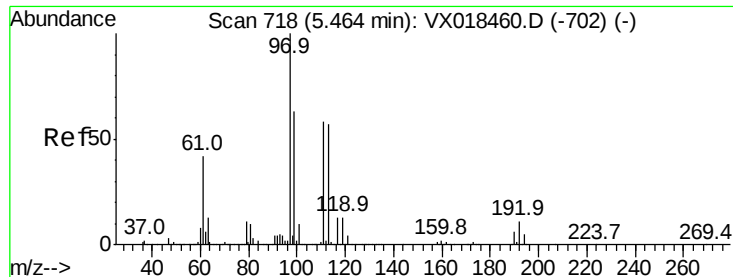
Ion Ratio Lower Upper

114 100

63 19.7 0.0 42.8

88 15.4 0.0 33.6

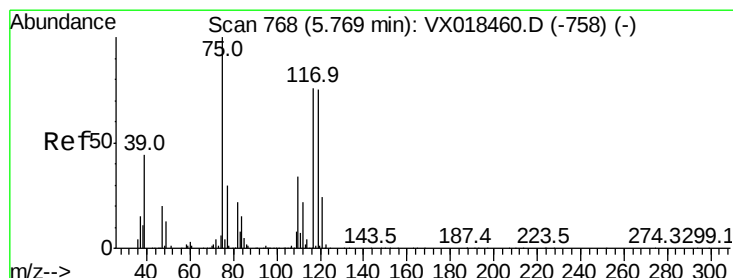
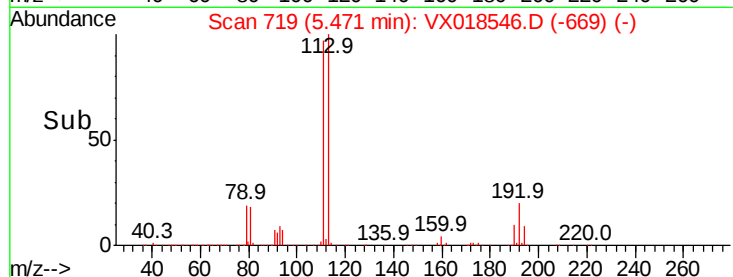
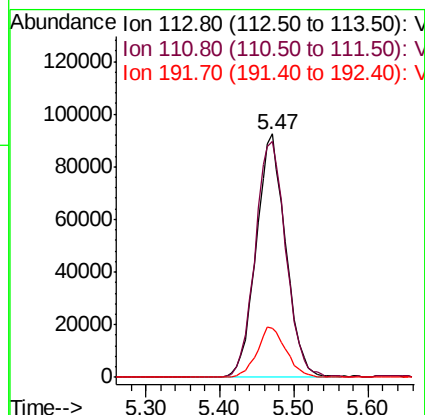
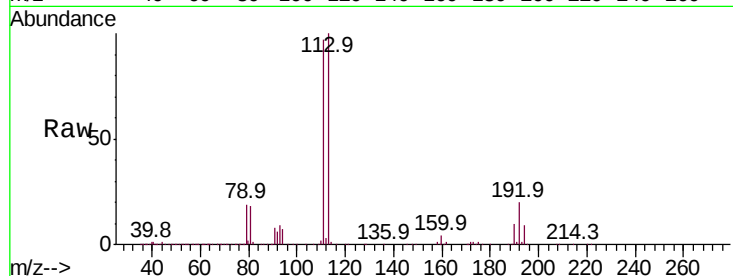




#35
 Dibromofluoromethane
 Concen: 48.903 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. 0.01 min
 Lab File: VX018546.D
 Acq: 23 Sep 2020 19:53

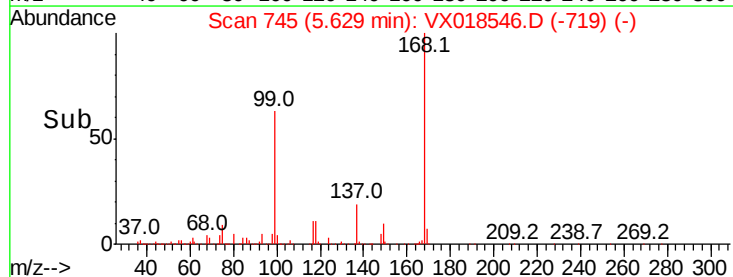
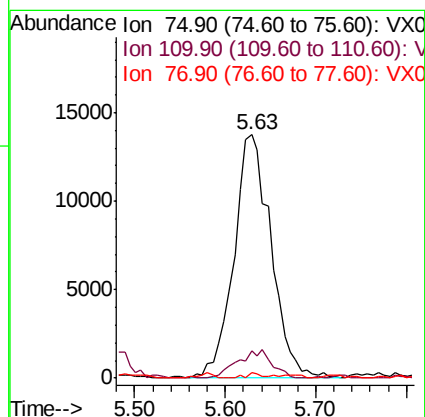
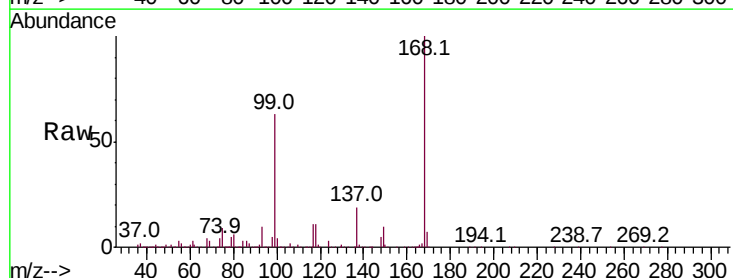
Instrument :
 MSVOA_X
 ClientSampleId :
 FB01-20200917

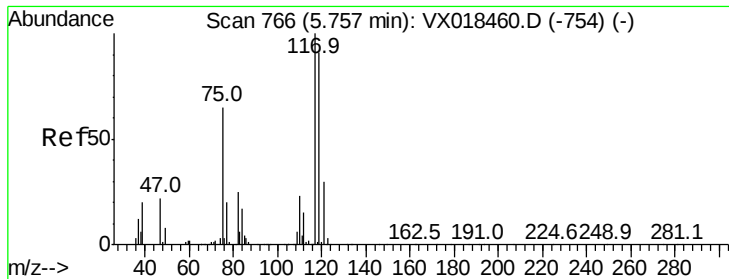
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	81.4	122.2
192	20.3	16.6	24.8



#36
 1,1-Dichloropropene
 Concen: 5.308 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX018546.D
 Acq: 23 Sep 2020 19:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.8	17.6	52.8#
77	0.8	25.0	37.6#





#38

Carbon Tetrachloride

Concen: 6.232 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX018546.D

Acq: 23 Sep 2020 19:53

Instrument :

MSVOA_X

ClientSampleId :

FB01-20200917

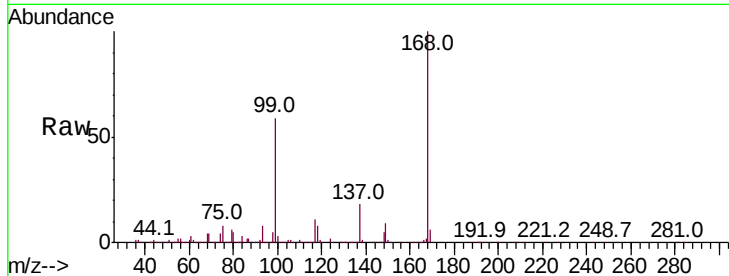
Tot Ion:117 Resp: 50756

Ion Ratio Lower Upper

117 100

119 6.7 72.3 108.5#

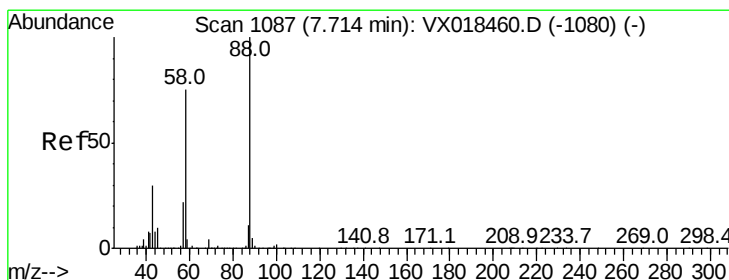
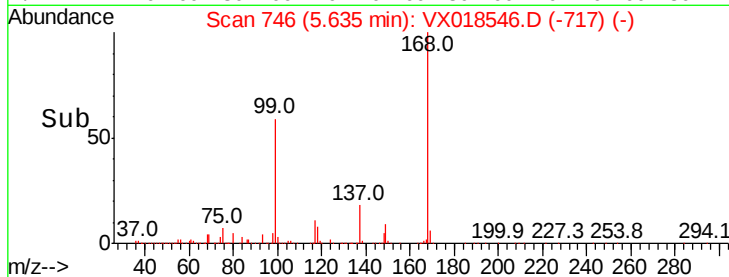
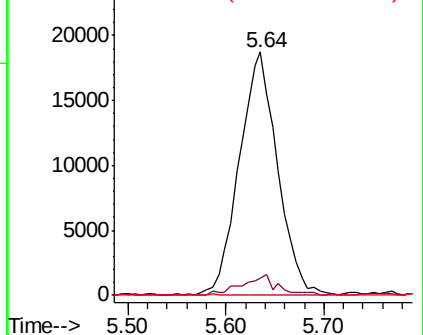
121 0.0 23.8 35.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.353 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX018546.D

Acq: 23 Sep 2020 19:53

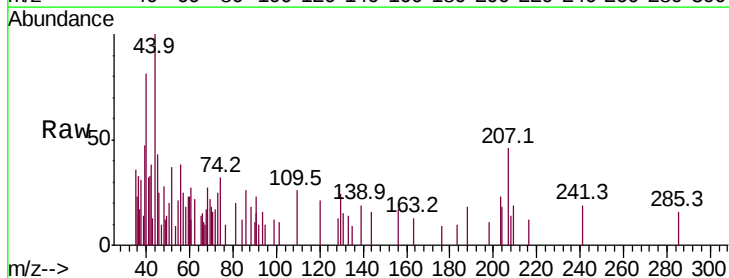
Tgt Ion: 88 Resp: 37

Ion Ratio Lower Upper

88 100

43 848.6 29.9 44.9#

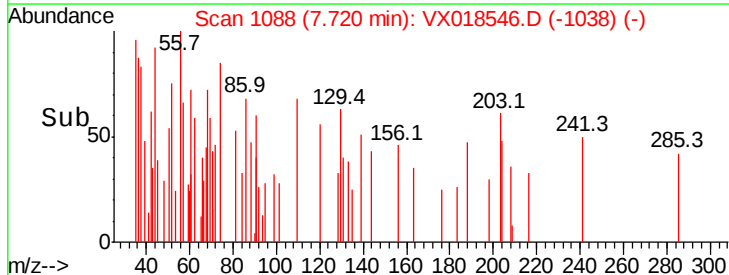
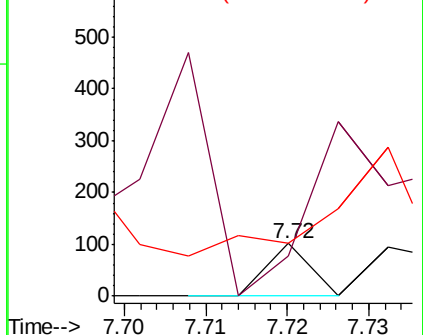
58 0.0 59.0 88.6#

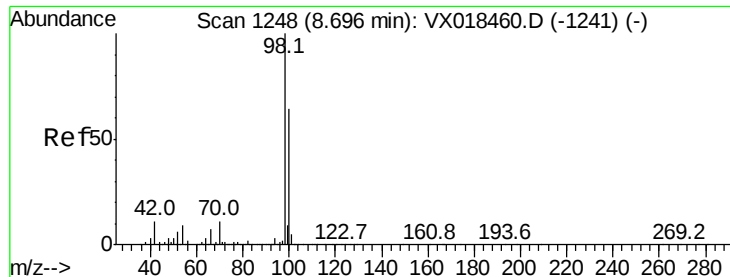


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.563 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX018546.D

Acq: 23 Sep 2020 19:53

Instrument :

MSVOA_X

ClientSampleId :

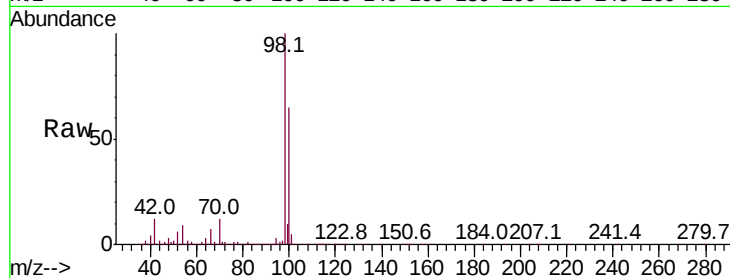
FB01-20200917

Tot Ion: 98 Resp: 924121

Ion Ratio Lower Upper

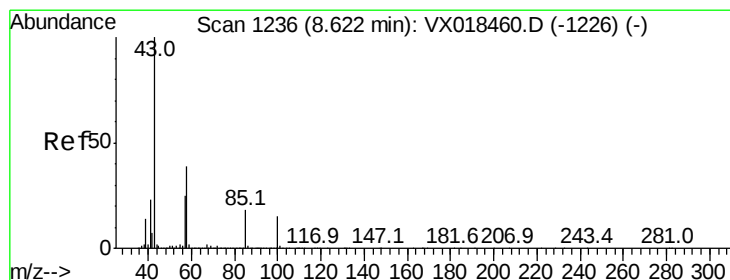
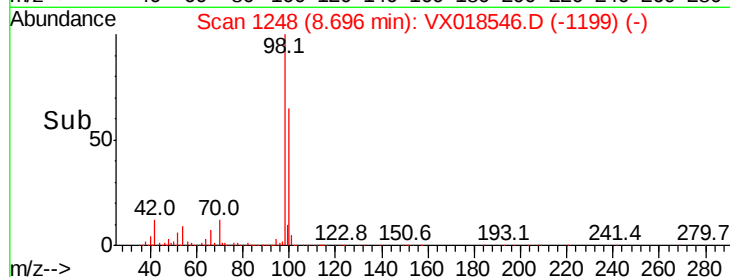
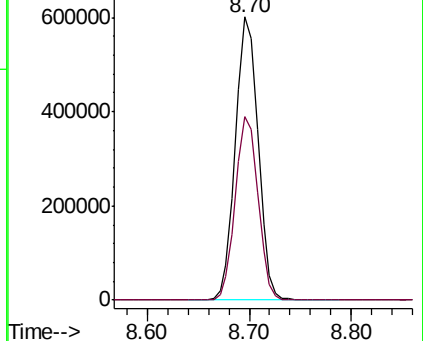
98 100

100 64.8 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 0.756 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. 0.00 min

Lab File: VX018546.D

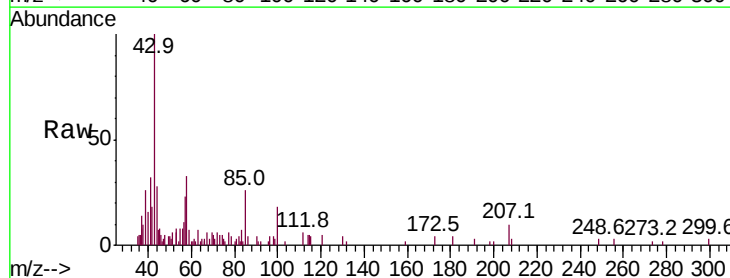
Acq: 23 Sep 2020 19:53

Tgt Ion: 43 Resp: 5864

Ion Ratio Lower Upper

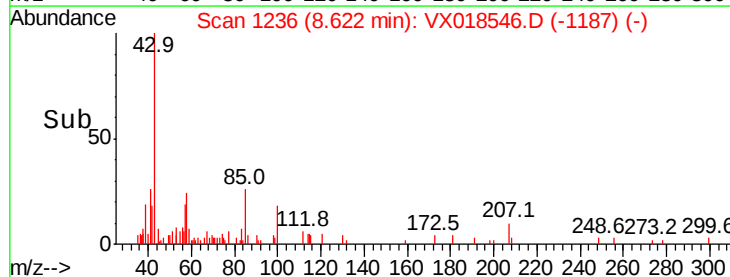
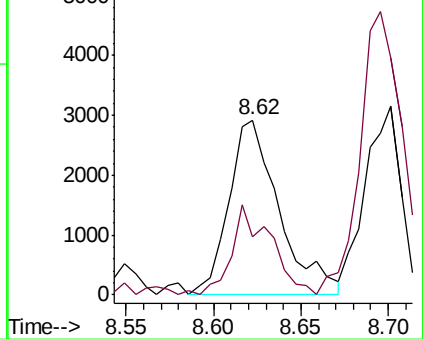
43 100

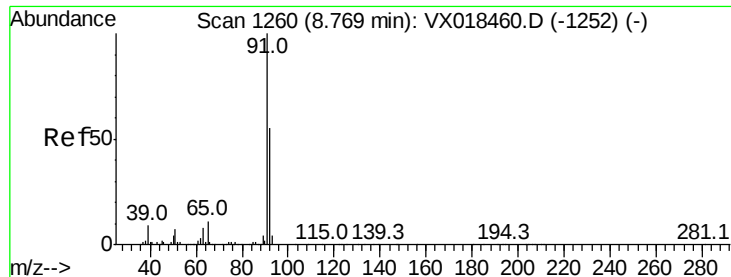
58 40.0 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#52

Toluene

Concen: 7.286 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.01 min

Lab File: VX018546.D

Acq: 23 Sep 2020 19:53

Instrument :

MSVOA_X

ClientSampleId :

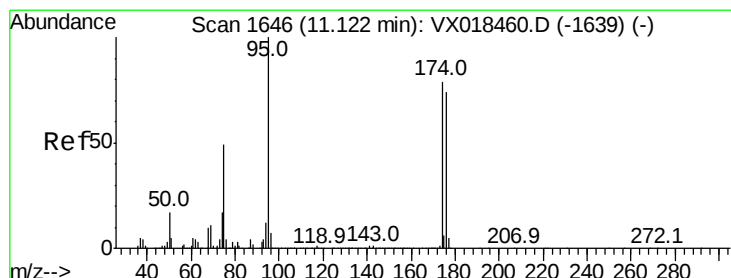
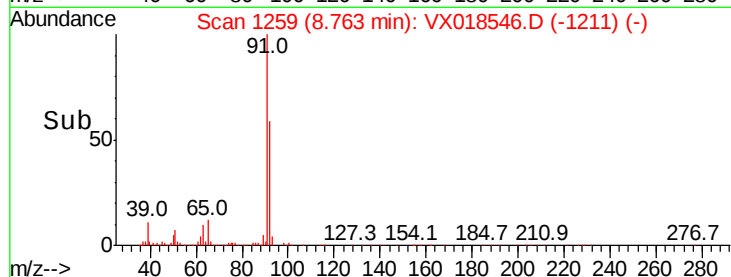
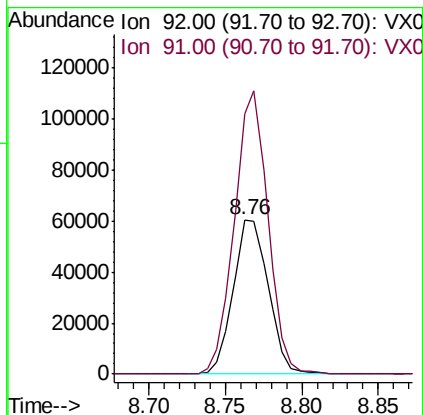
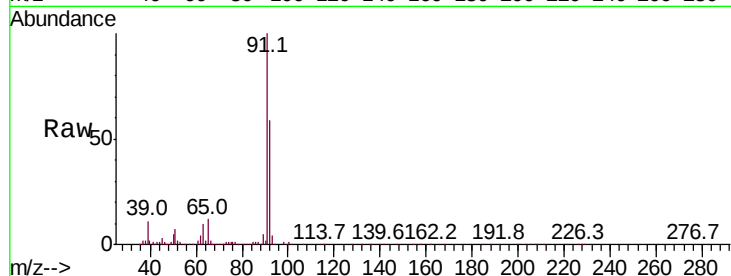
FB01-20200917

Tot Ion: 92 Resp: 96622

Ion Ratio Lower Upper

92 100

91 176.3 140.6 210.8



#62

4-Bromofluorobenzene

Concen: 45.077 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX018546.D

Acq: 23 Sep 2020 19:53

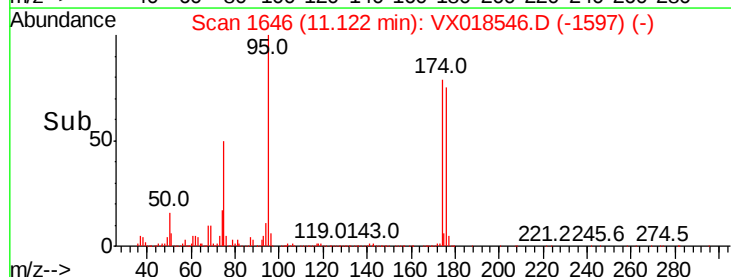
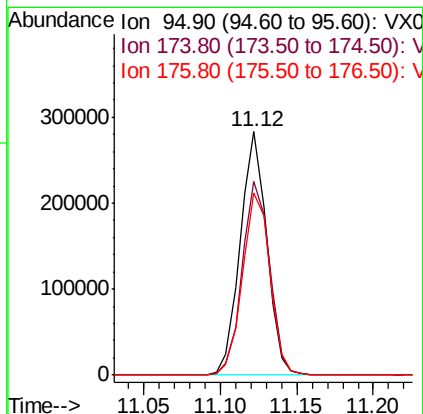
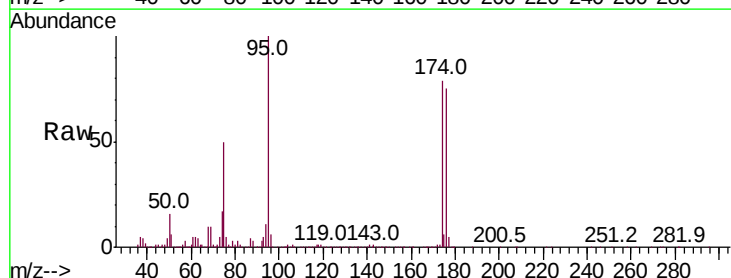
Tgt Ion: 95 Resp: 341208

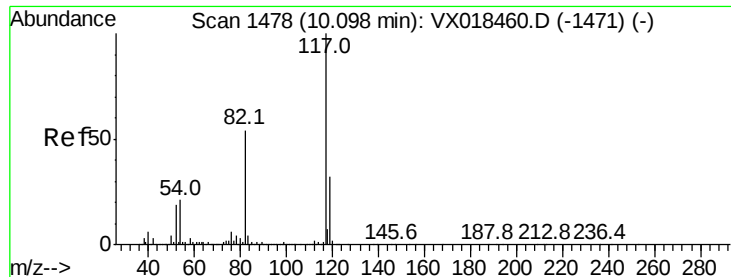
Ion Ratio Lower Upper

95 100

174 82.3 0.0 161.4

176 77.8 0.0 151.4

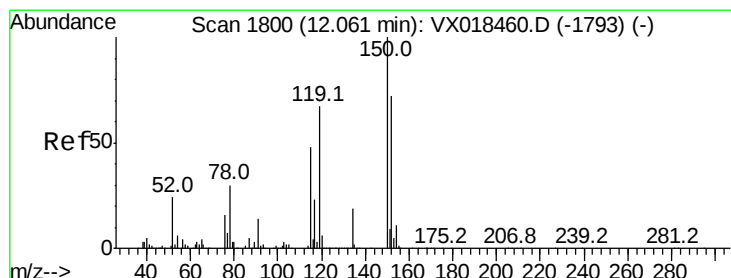
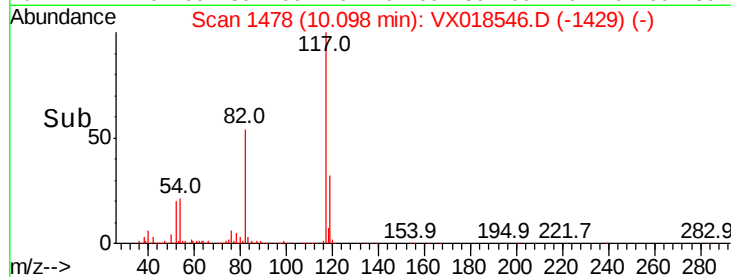
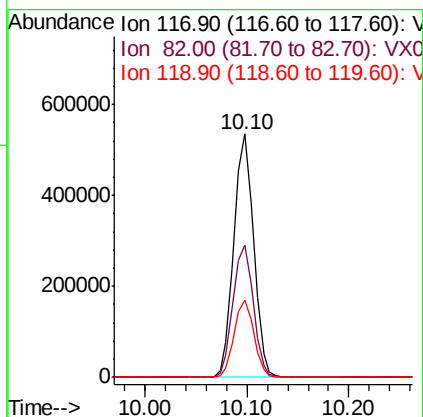
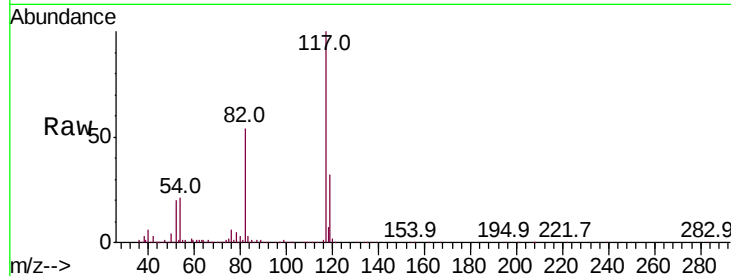




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX018546.D
Acq: 23 Sep 2020 19:53

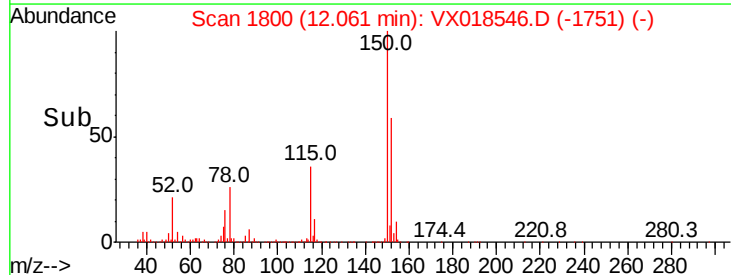
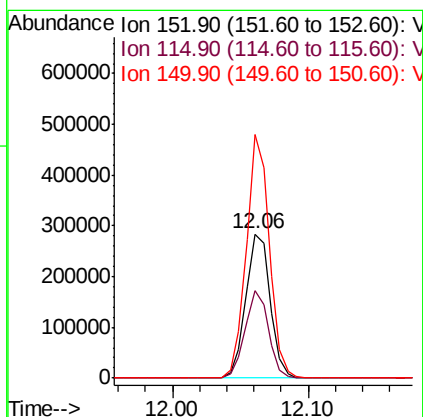
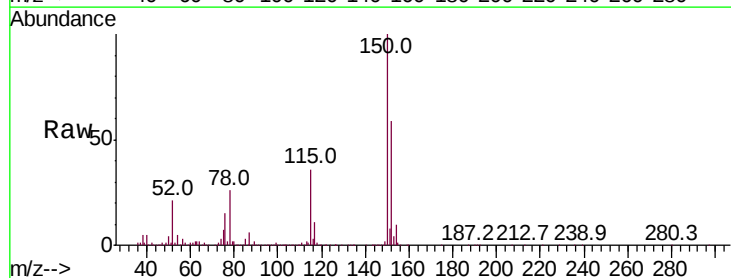
Instrument :
MSVOA_X
ClientSampleId :
FB01-20200917

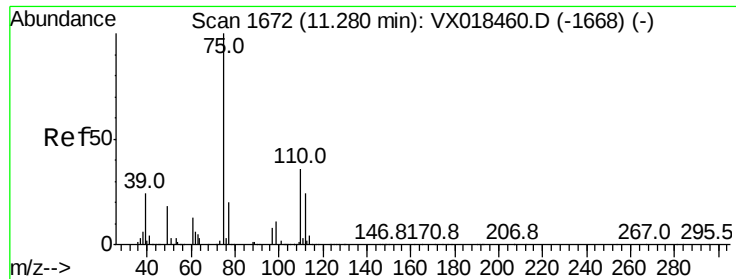
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.3	43.3	64.9
119	31.6	25.9	38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX018546.D
Acq: 23 Sep 2020 19:53

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.4	41.8	125.4
150	159.2	0.0	342.4





#76

1,2,3-Trichloropropane

Concen: 23.495 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018546.D

Acq: 23 Sep 2020 19:53

Instrument :

MSVOA_X

ClientSampleId :

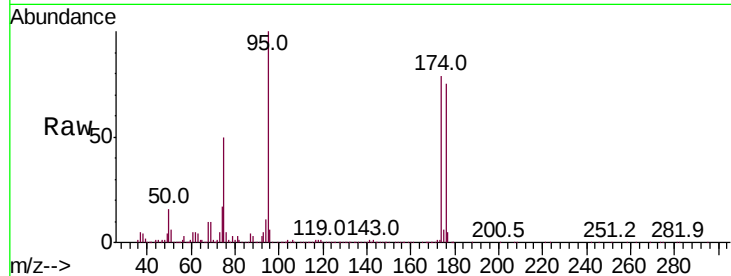
FB01-20200917

Tot Ion: 75 Resp: 176061

Ion Ratio Lower Upper

75 100

77 1.5 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

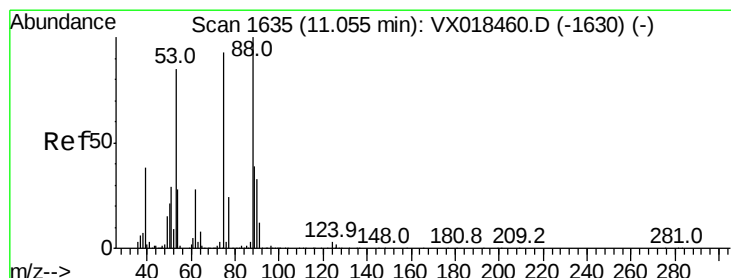
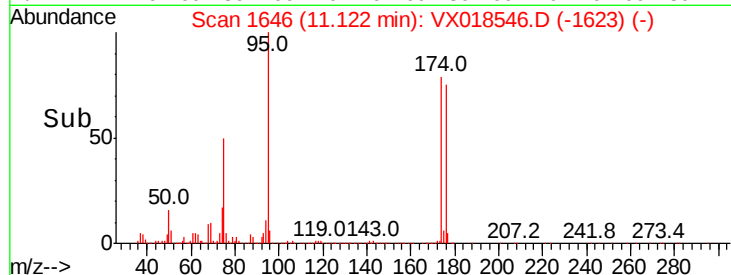
150000

100000

50000

0

Time--> 11.05 11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 60.205 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX018546.D

Acq: 23 Sep 2020 19:53

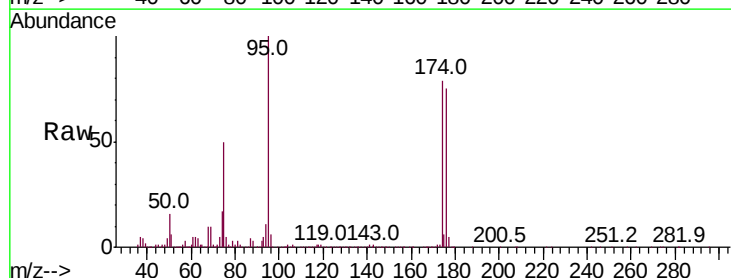
Tgt Ion: 75 Resp: 176061

Ion Ratio Lower Upper

75 100

53 0.2 74.6 111.8#

89 0.0 36.2 54.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

11.12

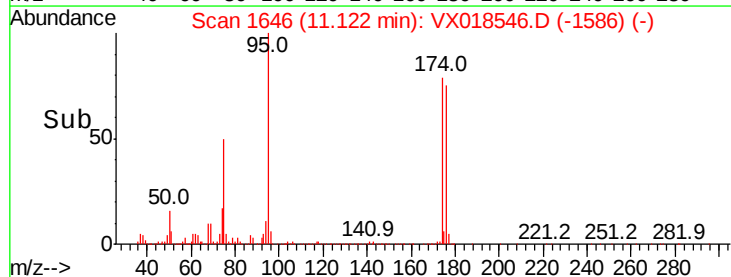
150000

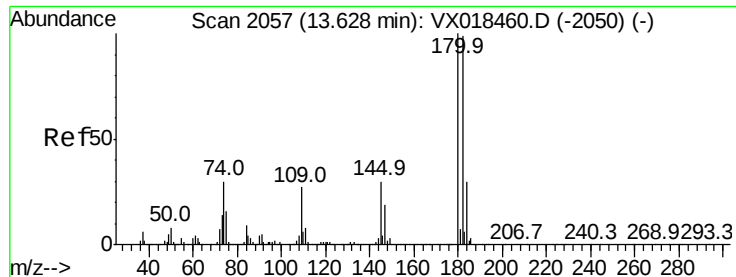
100000

50000

0

Time--> 11.05 11.10 11.15 11.20





#93

1,2,4-Trichlorobenzene

Concen: 0.212 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. 0.00 min

Lab File: VX018546.D

Acq: 23 Sep 2020 19:53

Instrument :

MSVOA_X

ClientSampleId :

FB01-20200917

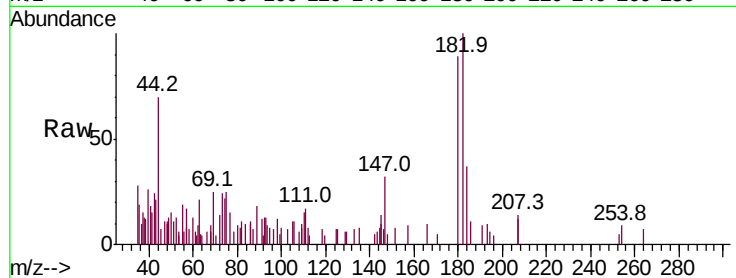
Tot Ion:180 Resp: 1629

Ion Ratio Lower Upper

180 100

182 84.9 50.2 150.6

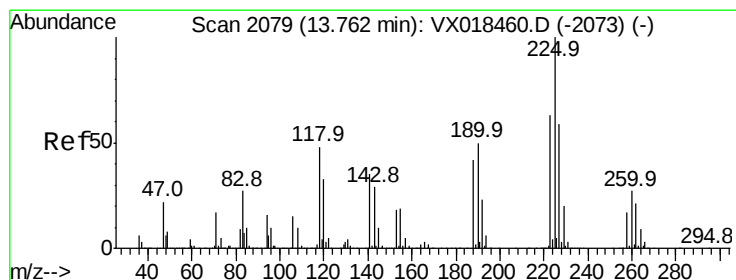
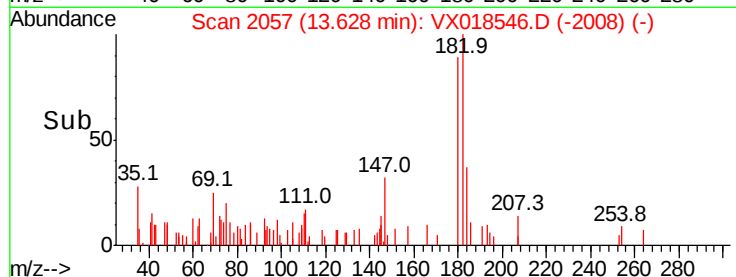
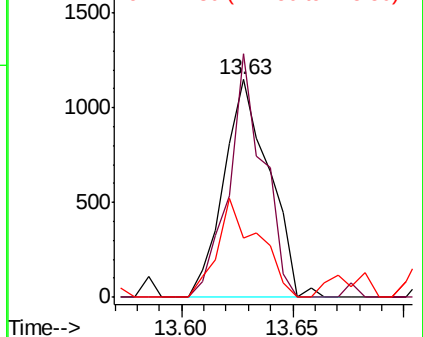
145 41.1 15.7 47.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 0.230 ug/l

RT: 13.76 min Scan# 2078

Delta R.T. -0.01 min

Lab File: VX018546.D

Acq: 23 Sep 2020 19:53

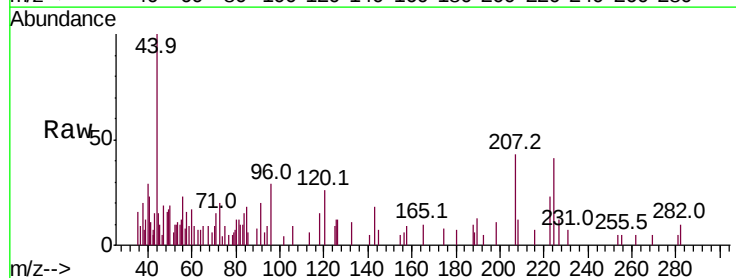
Tgt Ion:225 Resp: 744

Ion Ratio Lower Upper

225 100

223 75.0 32.0 96.2

227 50.8 31.7 95.1



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

