

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX090920\
 Data File : VX018327.D
 Acq On : 09 Sep 2020 17:23
 Operator : JC/SP
 Sample : L3902-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FT-PZ460I-20200901

Quant Time: Sep 10 07:06:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	442093	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	677322	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	647269	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	307467	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	309398	50.41	ug/l	0.00
Spiked Amount			Recovery	=	100.82%	
35) Dibromofluoromethane	5.47	113	242914	52.66	ug/l	0.00
Spiked Amount			Recovery	=	105.32%	
50) Toluene-d8	8.70	98	845889	49.23	ug/l	0.00
Spiked Amount			Recovery	=	98.46%	
62) 4-Bromofluorobenzene	11.12	95	307683	45.52	ug/l	0.00
Spiked Amount			Recovery	=	91.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	4353	0.771	ug/l	94
6) Chloroethane	1.69	64	728	0.240	ug/l #	41
9) 1,1,2-Trichlorotrifluoroet	2.36	101	1394	0.335	ug/l #	32
10) Methyl Iodide	2.50	142	246	5.336	ug/l #	51
11) Tert butyl alcohol	3.03	59	267	0.224	ug/l #	74
12) 1,1-Dichloroethene	2.36	96	391994	90.732	ug/l	99
13) Acrolein	2.29	56	594	1.200	ug/l	93
16) Acetone	2.42	43	1771	0.741	ug/l	89
20) Methylene Chloride	2.84	84	1173	Below Cal	#	66
24) 1,1-Dichloroethane	3.67	63	305769	35.062	ug/l	98
27) cis-1,2-Dichloroethene	4.57	96	54056	9.802	ug/l	87
36) 1,1-Dichloropropene	5.63	75	33503	5.363	ug/l #	53
38) Carbon Tetrachloride	5.63	117	45671	6.487	ug/l #	17
42) 1,2-Dichloroethane	6.17	62	5306	0.754	ug/l	89
44) Trichloroethene	7.19	130	431330	83.158	ug/l	100
49) 1,4-Dioxane	7.73	88	1639	15.509	ug/l #	69
55) 1,1,2-Trichloroethane	9.18	97	1095	0.221	ug/l #	39
60) Dibromochloromethane	9.32	129	27305	4.689	ug/l #	11
64) Tetrachloroethene	9.32	164	27216	5.722	ug/l	92
76) 1,2,3-Trichloropropane	11.12	75	162357	23.737	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	162357	64.111	ug/l #	13
88) 1,4-Dichlorobenzene	12.08	146	2620	0.266	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.63	180	2215	0.359	ug/l	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018327.D

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ClientSampleId :

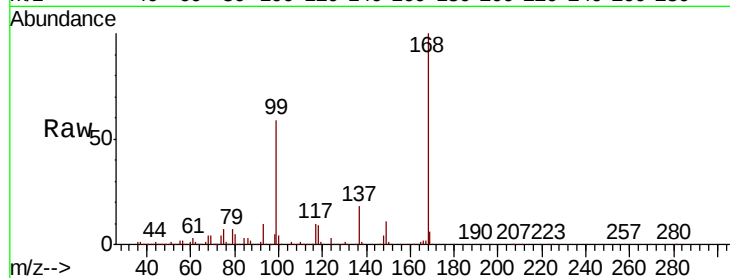
FT-PZ460I-20200901

Tot Ion:168 Resp: 442093

Ion Ratio Lower Upper

168 100

99 59.4 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

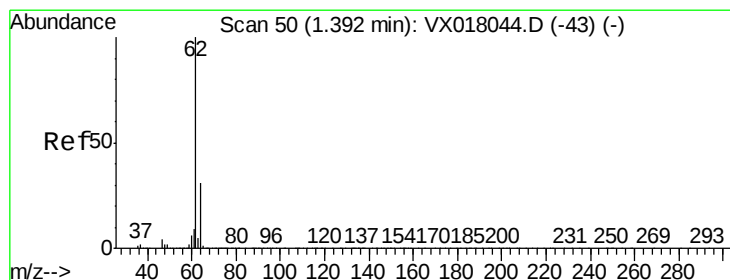
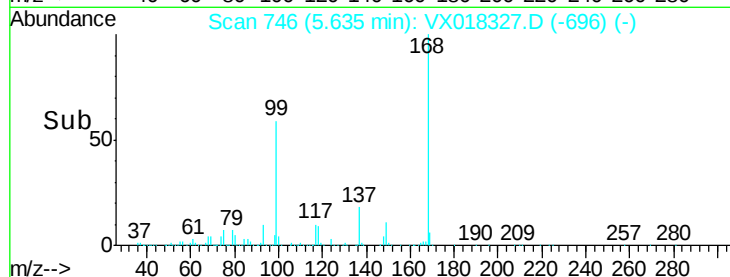
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 0.771 ug/l

RT: 1.40 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX018327.D

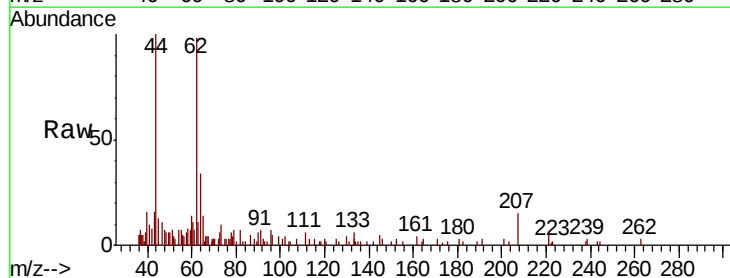
Acq: 09 Sep 2020 17:23

Tgt Ion: 62 Resp: 4353

Ion Ratio Lower Upper

62 100

64 34.8 25.1 37.7



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

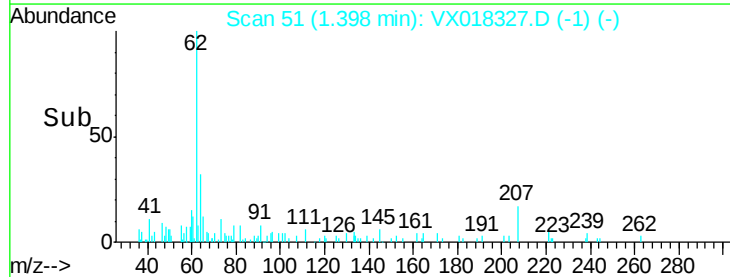
3000

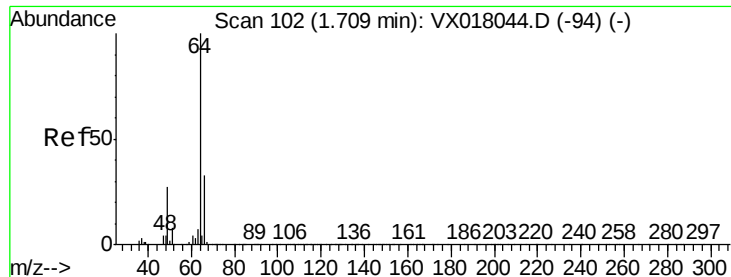
2000

1000

0

Time-->





#6

Chloroethane

Concen: 0.240 ug/l

RT: 1.69 min Scan# 99

Delta R.T. -0.02 min

Lab File: VX018327.D

Acq: 09 Sep 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

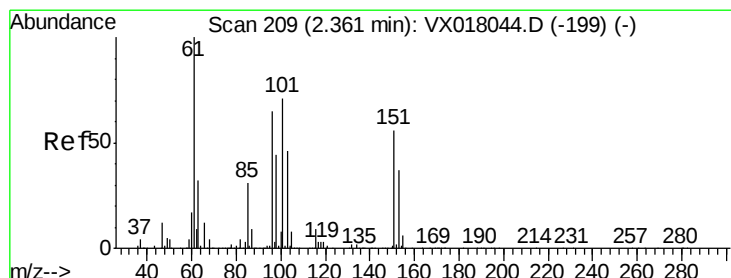
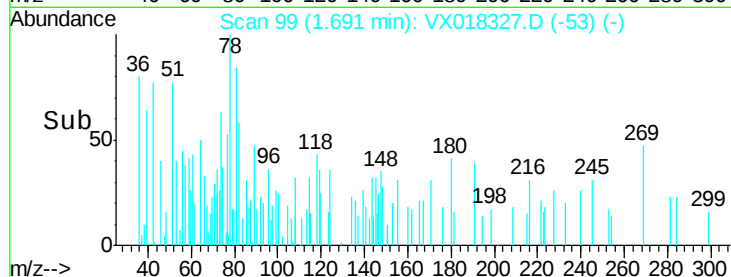
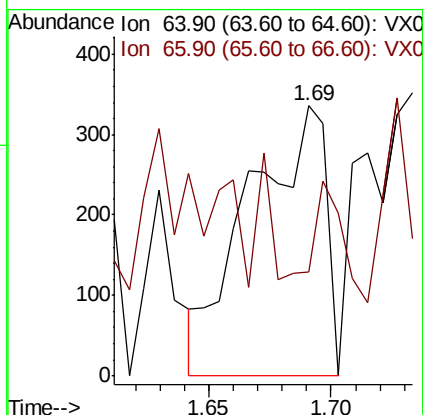
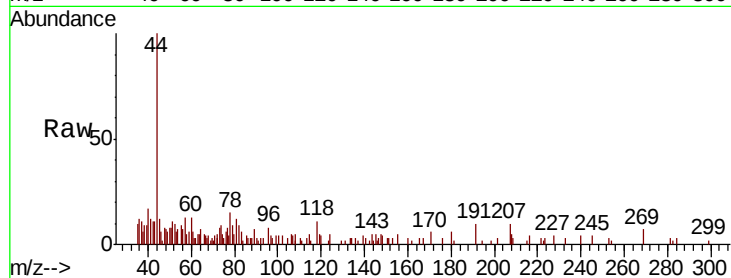
FT-PZ460I-20200901

Tot Ion: 64 Resp: 728

Ion Ratio Lower Upper

64 100

66 0.0 26.6 39.8#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.335 ug/l

RT: 2.36 min Scan# 209

Delta R.T. -0.00 min

Lab File: VX018327.D

Acq: 09 Sep 2020 17:23

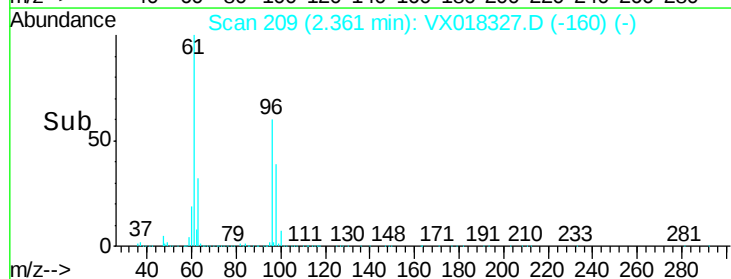
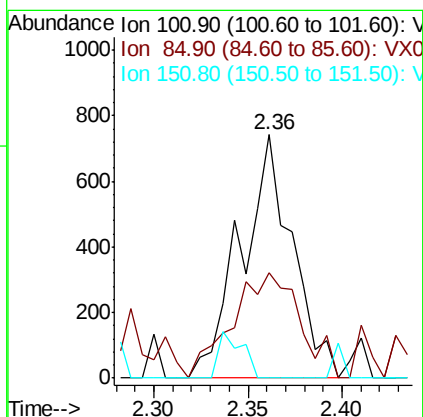
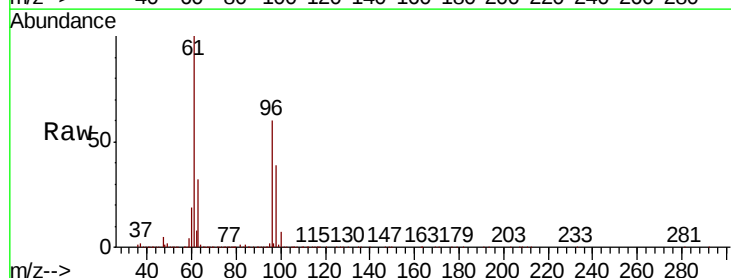
Tgt Ion: 101 Resp: 1394

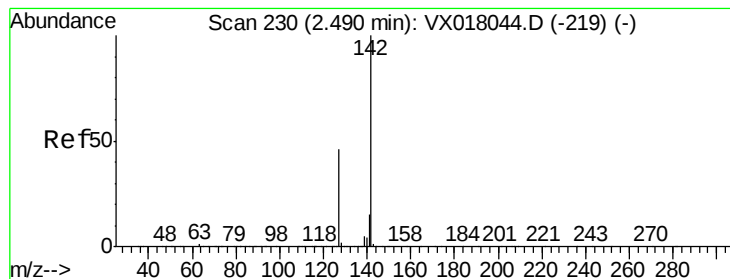
Ion Ratio Lower Upper

101 100

85 58.0 34.0 51.0#

151 0.0 65.2 97.8#





#10

Methyl Iodide

Concen: 5.336 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX018327.D

Acq: 09 Sep 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ460I-20200901

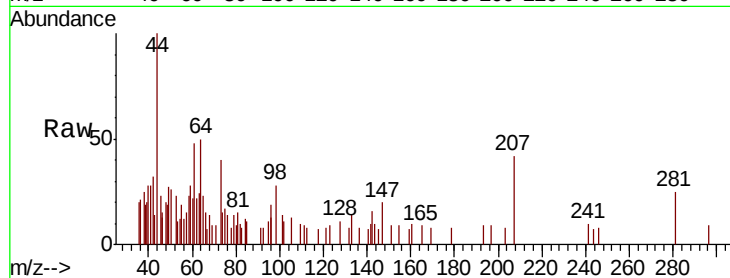
Tot Ion:142 Resp: 246

Ion Ratio Lower Upper

142 100

127 10.6 37.0 55.6#

141 0.0 11.5 17.3#



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

250

200

150

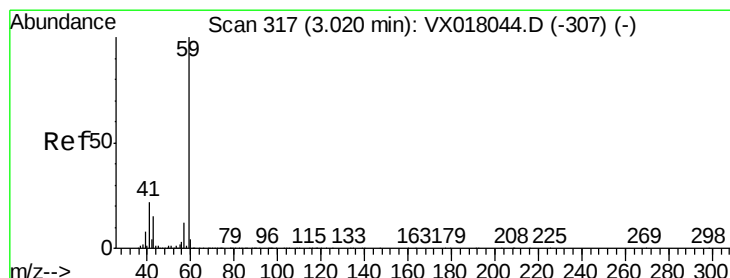
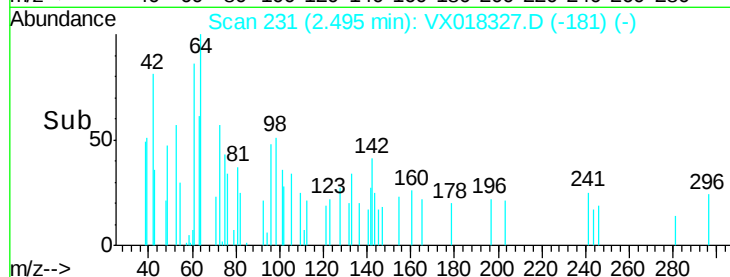
100

50

0

2.46 2.48 2.50 2.52

Time-->



#11

Tert butyl alcohol

Concen: 0.224 ug/l

RT: 3.03 min Scan# 319

Delta R.T. 0.01 min

Lab File: VX018327.D

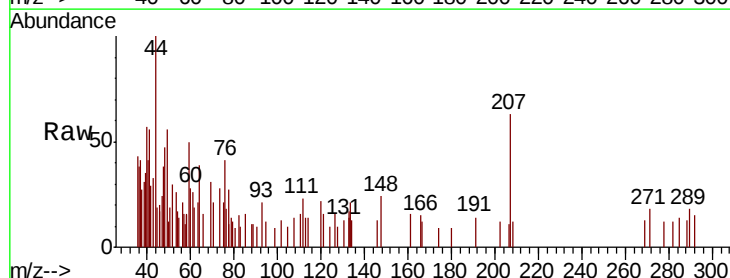
Acq: 09 Sep 2020 17:23

Tgt Ion: 59 Resp: 267

Ion Ratio Lower Upper

59 100

57 21.0 8.9 13.3#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

400

300

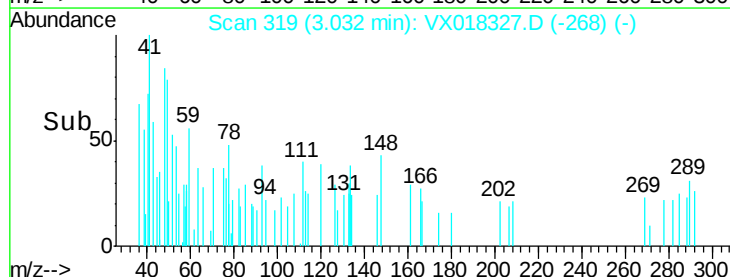
200

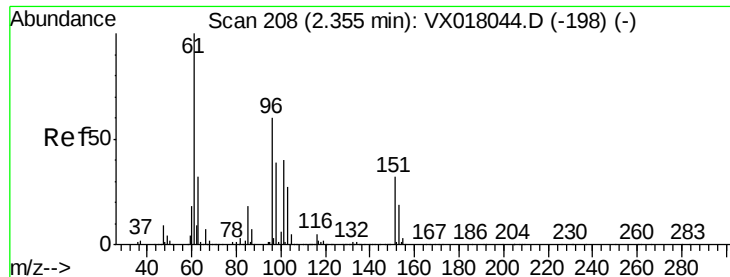
100

0

3.02 3.03 3.04 3.05

Time-->





#12

1,1-Dichloroethene

Concen: 90.732 ug/l

RT: 2.36 min Scan# 209

Delta R.T. 0.01 min

Lab File: VX018327.D

Acq: 09 Sep 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ460I-20200901

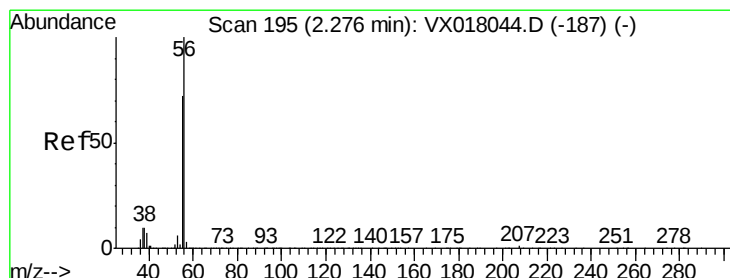
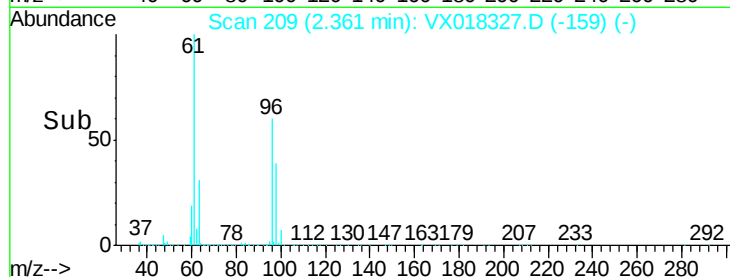
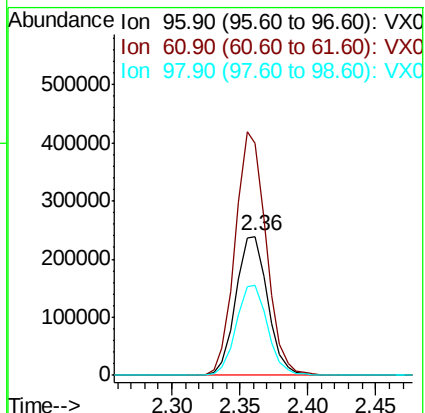
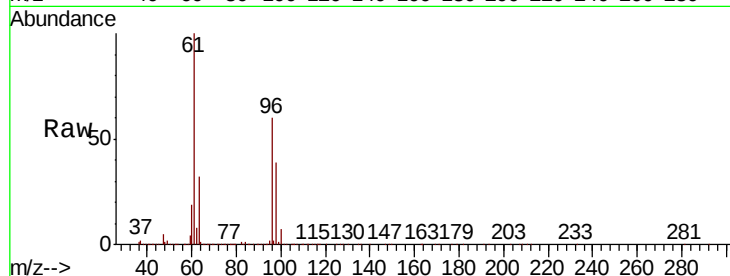
Tot Ion: 96 Resp: 391994

Ion Ratio Lower Upper

96 100

61 167.1 133.0 199.4

98 64.4 51.6 77.4



#13

Acrolein

Concen: 1.200 ug/l

RT: 2.29 min Scan# 198

Delta R.T. 0.02 min

Lab File: VX018327.D

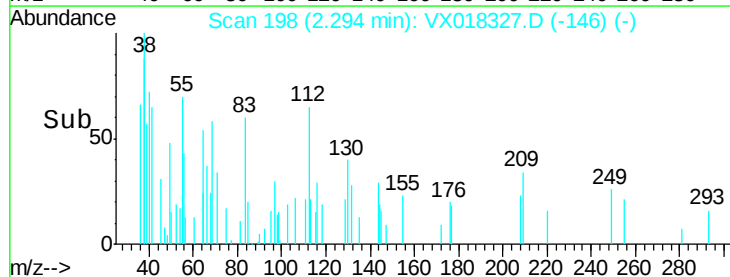
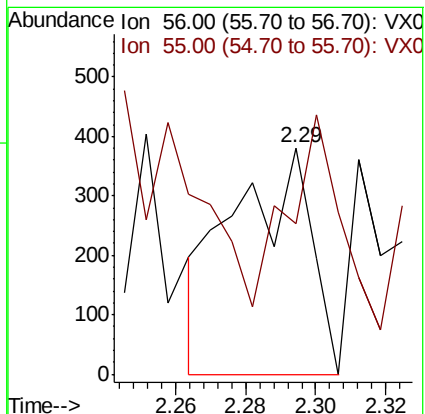
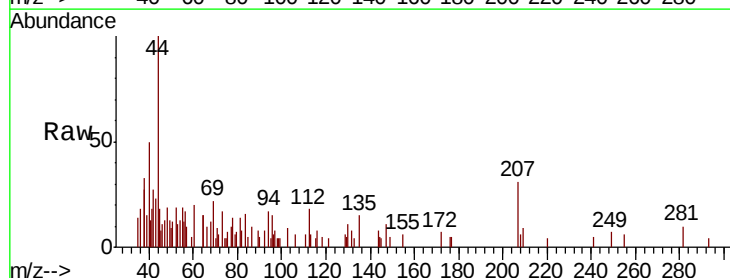
Acq: 09 Sep 2020 17:23

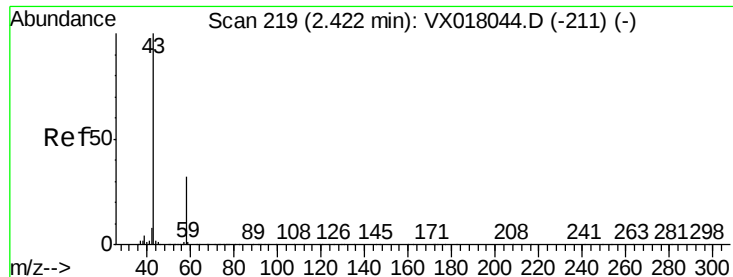
Tgt Ion: 56 Resp: 594

Ion Ratio Lower Upper

56 100

55 65.5 57.0 85.6

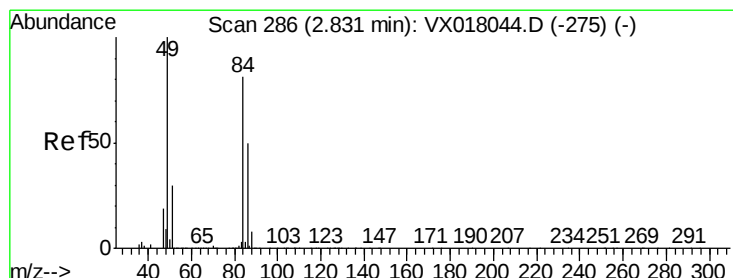
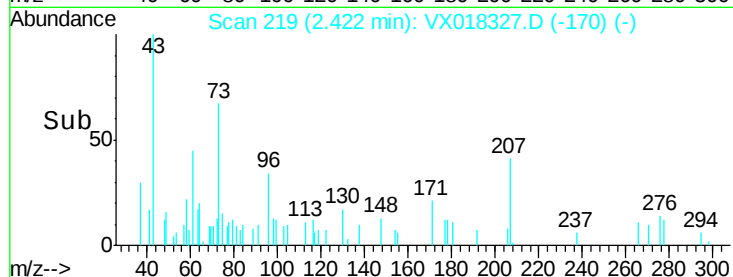
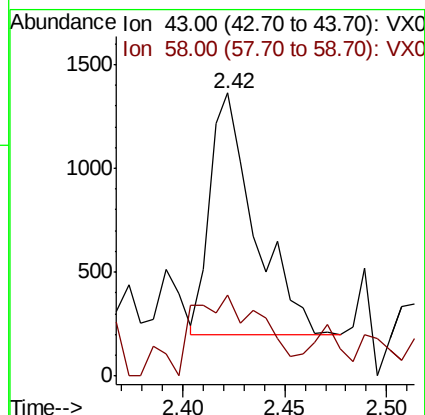
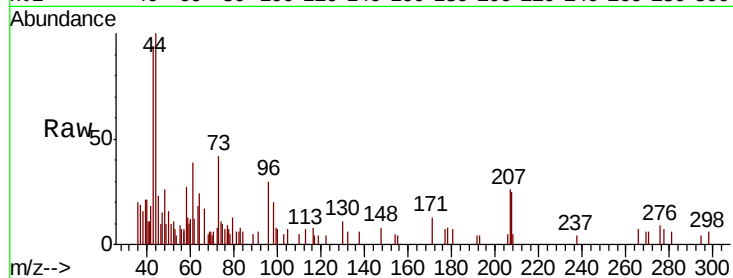




#16
Acetone
Concen: 0.741 ug/l
RT: 2.42 min Scan# 219
Delta R.T. -0.00 min
Lab File: VX018327.D
Acq: 09 Sep 2020 17:23

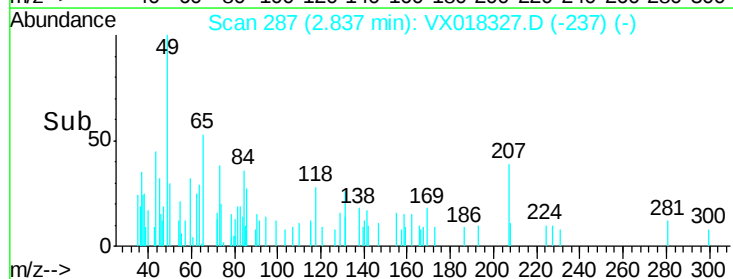
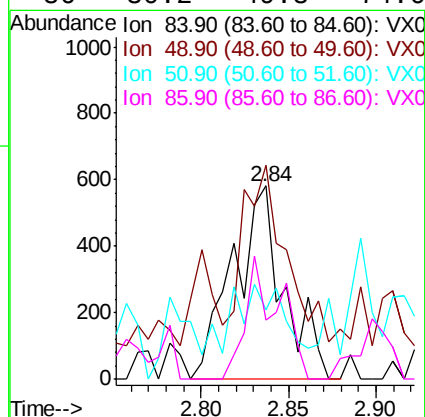
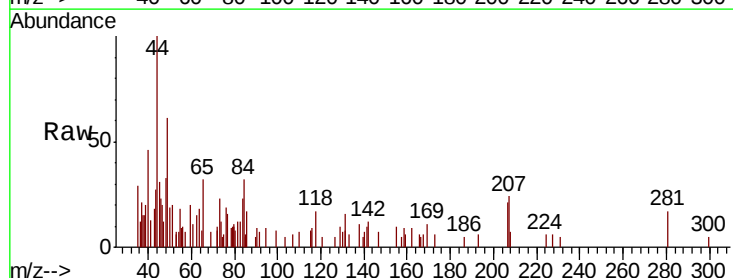
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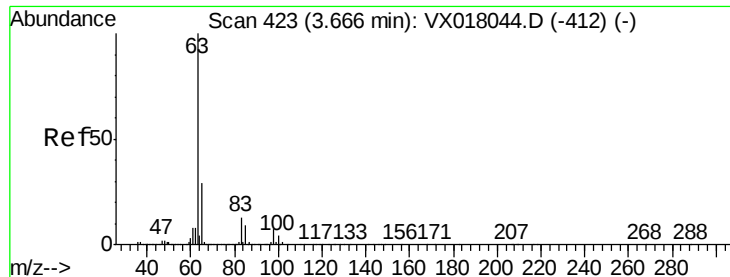
Tot Ion: 43 Resp: 1771
Ion Ratio Lower Upper
43 100
58 38.1 25.5 38.3



#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018327.D
Acq: 09 Sep 2020 17:23

Tgt Ion: 84 Resp: 1173
Ion Ratio Lower Upper
84 100
49 84.7 98.6 148.0#
51 23.2 29.6 44.4#
86 30.2 49.8 74.6#





#24

1,1-Dichloroethane

Concen: 35.062 ug/l

RT: 3.67 min Scan# 424

Delta R.T. 0.01 min

Lab File: VX018327.D

Acq: 09 Sep 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ460I-20200901

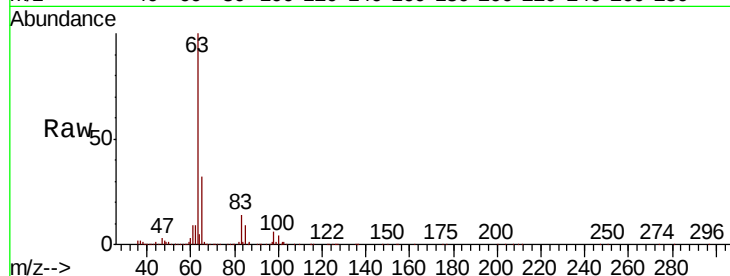
Tot Ion: 63 Resp: 305769

Ion Ratio Lower Upper

63 100

98 6.3 3.6 10.8

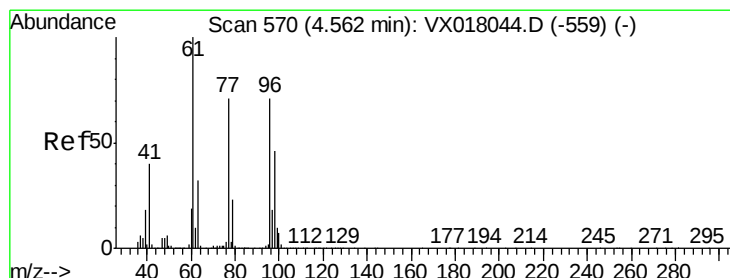
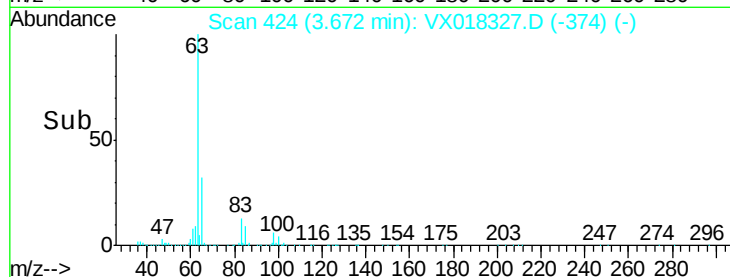
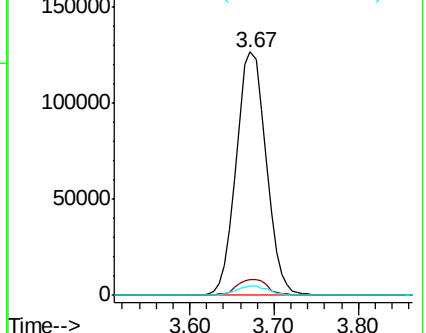
100 4.1 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 9.802 ug/l

RT: 4.57 min Scan# 572

Delta R.T. 0.01 min

Lab File: VX018327.D

Acq: 09 Sep 2020 17:23

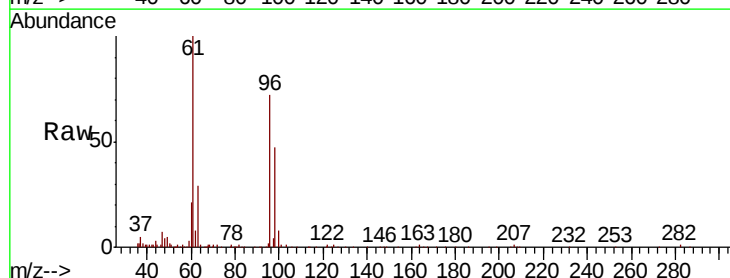
Tgt Ion: 96 Resp: 54056

Ion Ratio Lower Upper

96 100

61 127.4 0.0 296.6

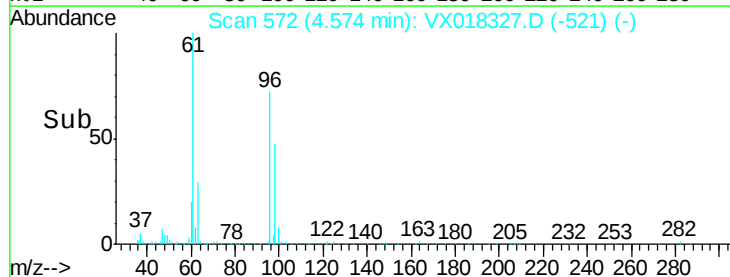
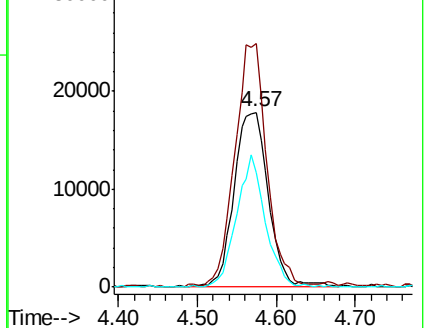
98 61.8 0.0 130.2

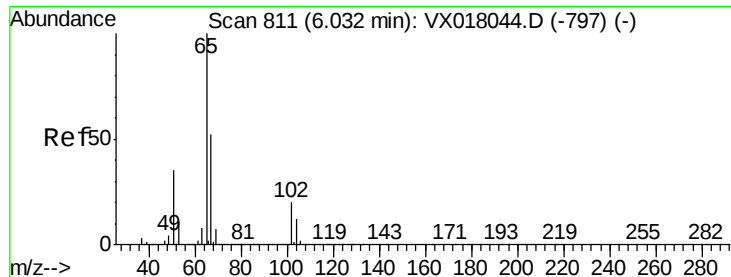


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

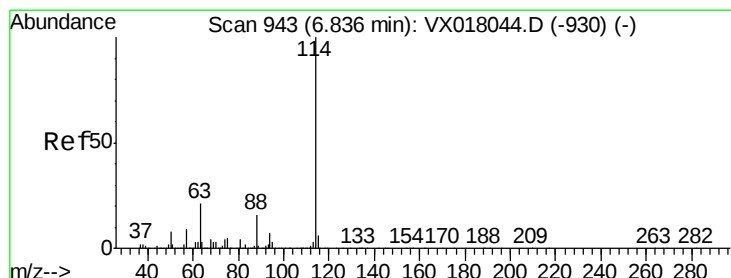
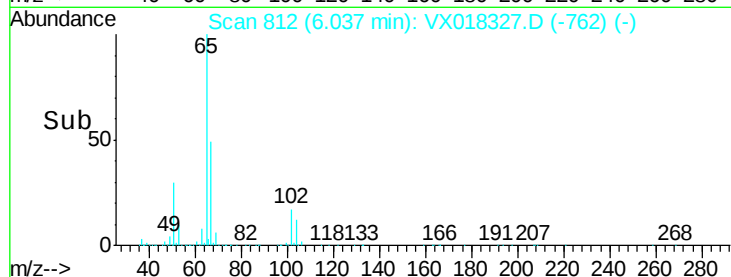
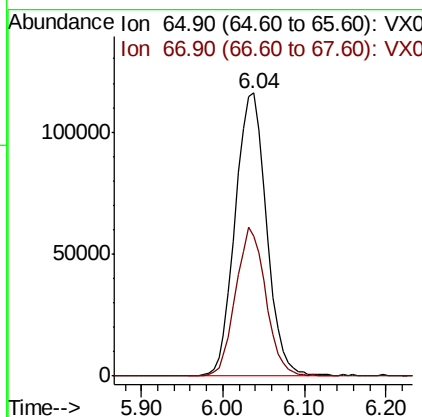
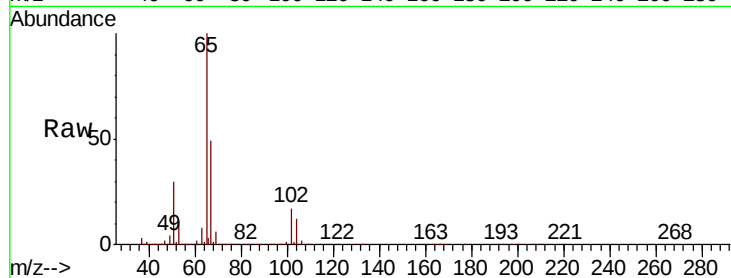




#33
 1,2-Dichloroethane-d4
 Concen: 50.412 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VX018327.D
 Acq: 09 Sep 2020 17:23

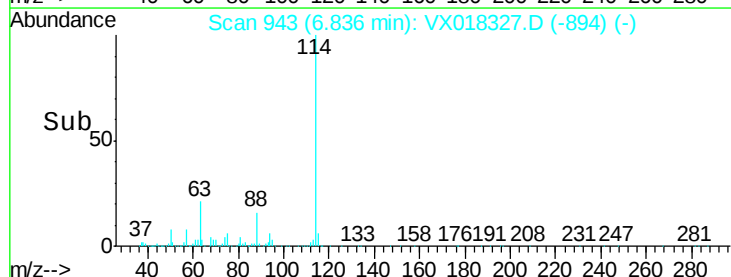
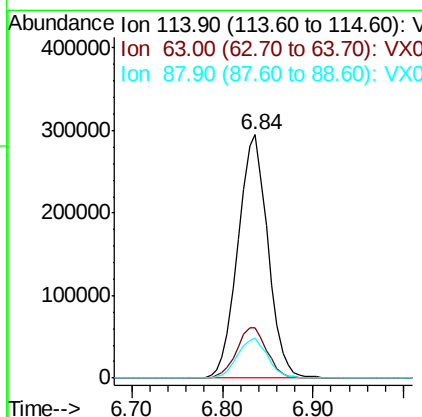
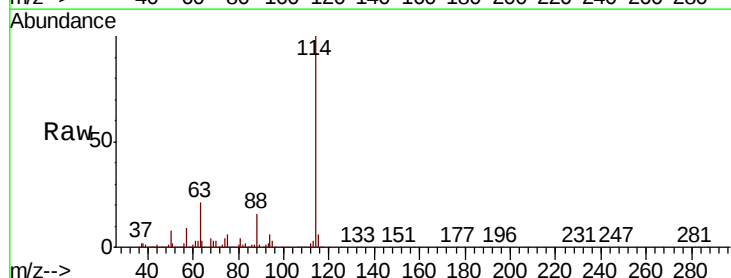
Instrument :
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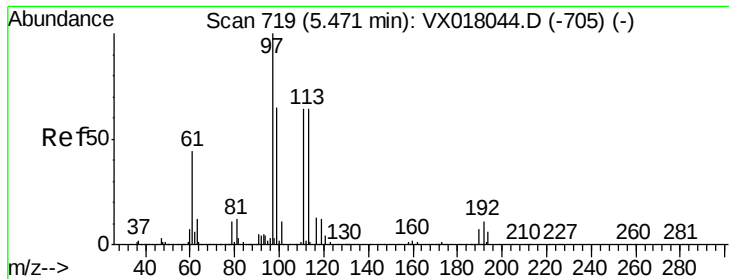
Tot Ion: 65 Resp: 309398
 Ion Ratio Lower Upper
 65 100
 67 50.5 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. -0.00 min
 Lab File: VX018327.D
 Acq: 09 Sep 2020 17:23

Tgt Ion: 114 Resp: 677322
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 42.6
 88 16.2 0.0 31.8





#35

Dibromofluoromethane

Concen: 52.660 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX018327.D

Acq: 09 Sep 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ460I-20200901

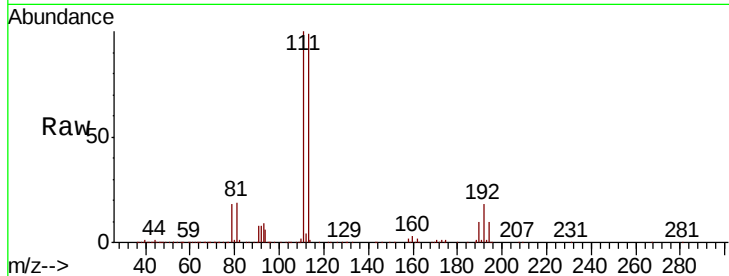
Tot Ion:113 Resp: 242914

Ion Ratio Lower Upper

113 100

111 102.9 81.6 122.4

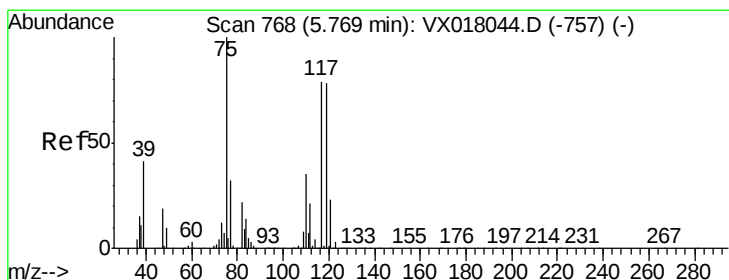
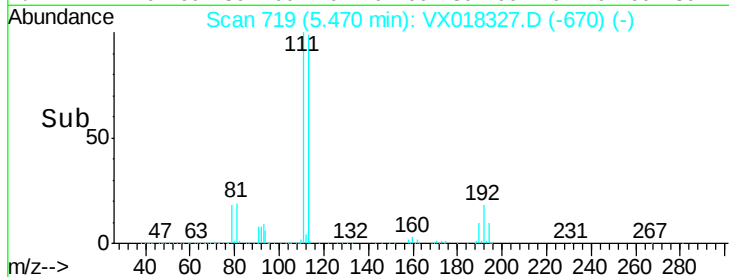
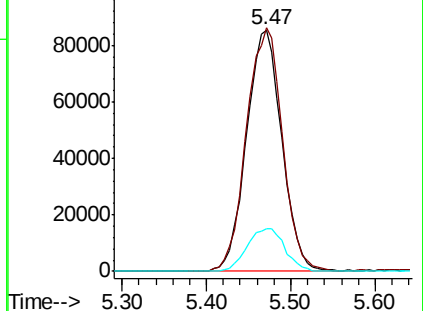
192 19.0 15.8 23.8



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: 5.363 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018327.D

Acq: 09 Sep 2020 17:23

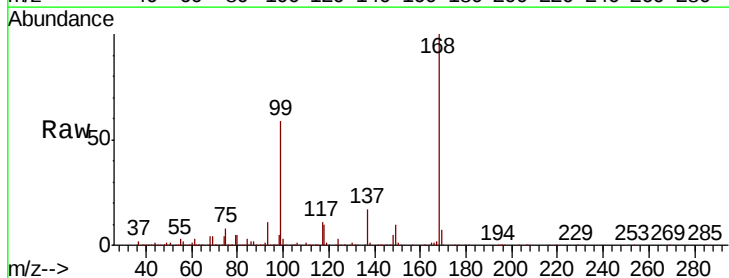
Tgt Ion: 75 Resp: 33503

Ion Ratio Lower Upper

75 100

110 11.8 18.0 54.0#

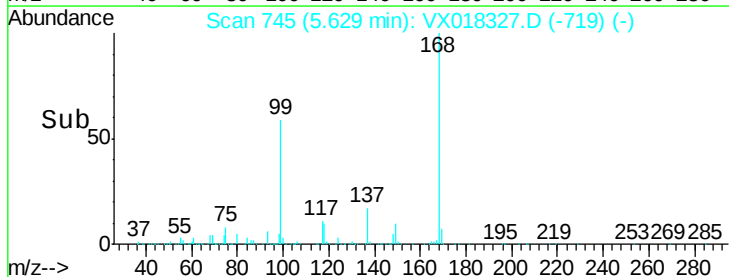
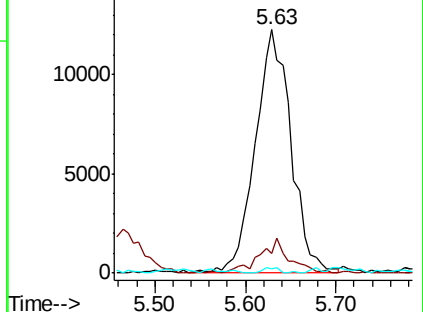
77 1.0 24.4 36.6#

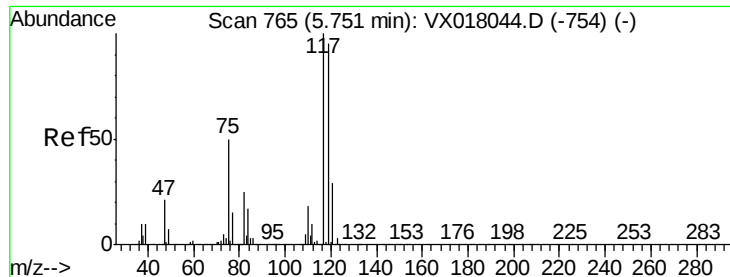


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.487 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018327.D

Acq: 09 Sep 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ460I-20200901

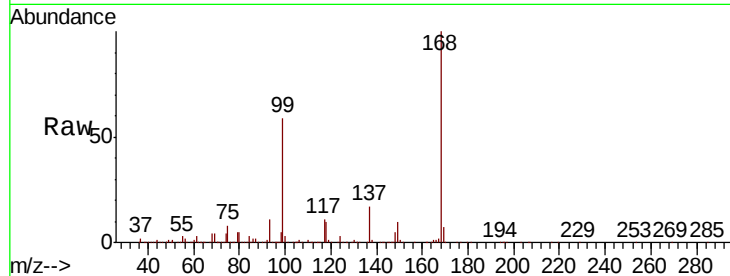
Tot Ion:117 Resp: 45671

Ion Ratio Lower Upper

117 100

119 5.9 75.8 113.6#

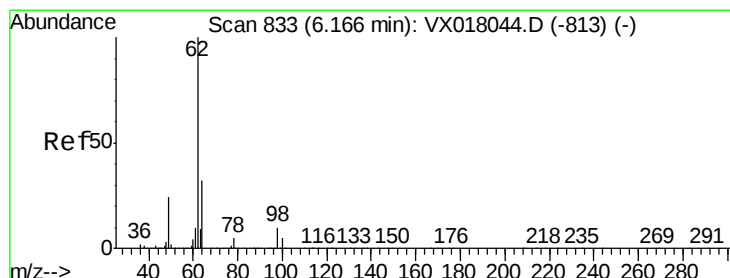
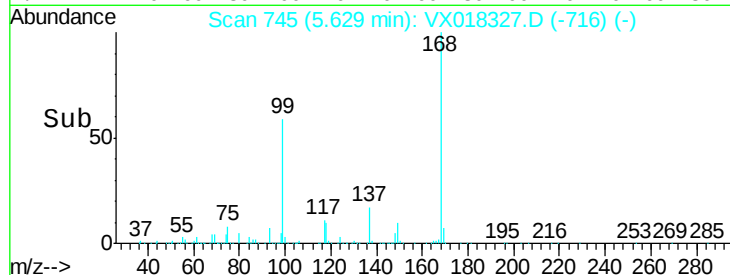
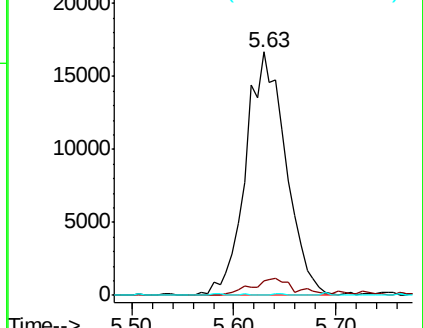
121 0.0 23.4 35.0#



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



#42

1,2-Dichloroethane

Concen: 0.754 ug/l

RT: 6.17 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX018327.D

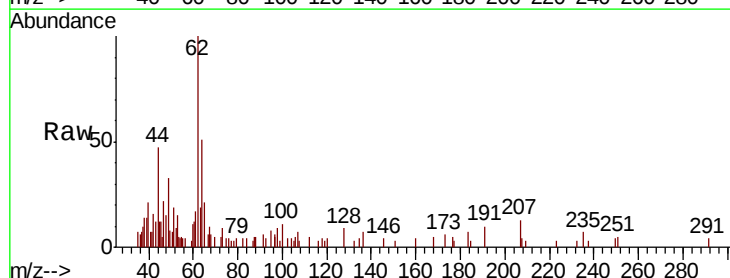
Acq: 09 Sep 2020 17:23

Tgt Ion: 62 Resp: 5306

Ion Ratio Lower Upper

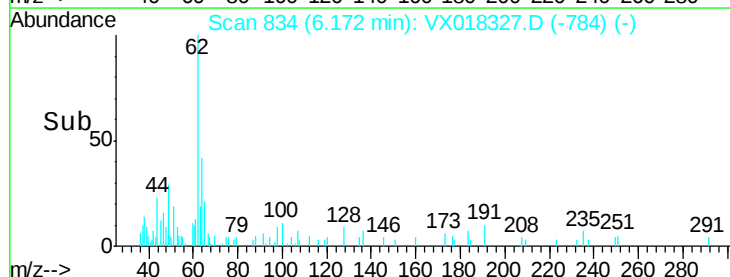
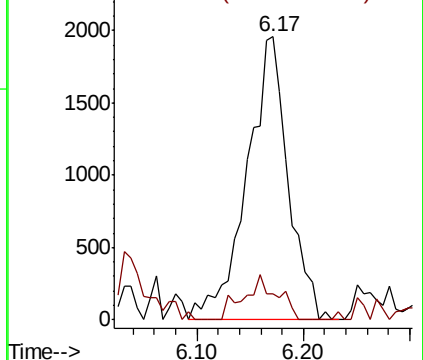
62 100

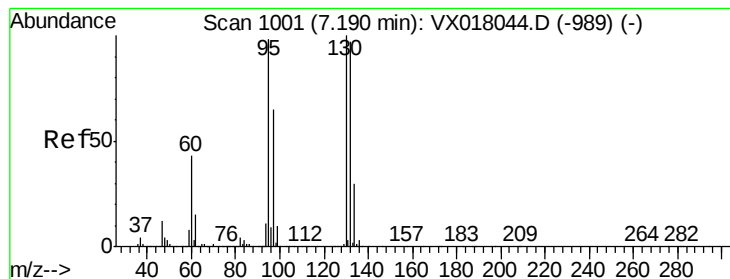
98 12.9 0.0 18.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 83.158 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX018327.D

Acq: 09 Sep 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

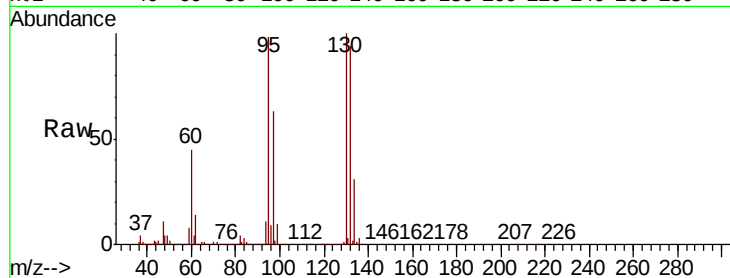
FT-PZ460I-20200901

Tot Ion:130 Resp: 431330

Ion Ratio Lower Upper

130 100

95 97.9 0.0 196.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

250000

200000

150000

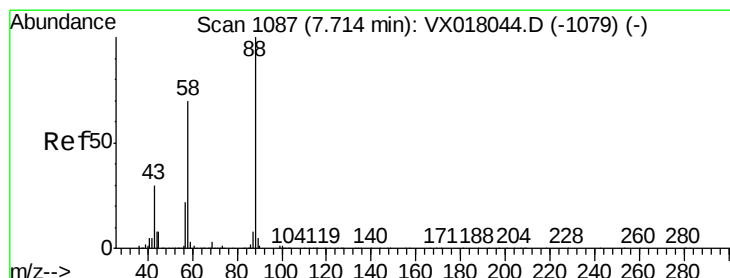
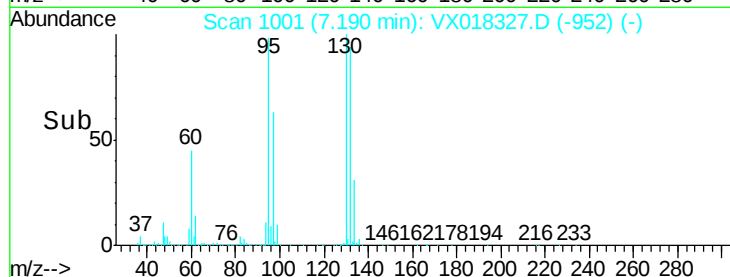
100000

50000

0

7.10 7.15 7.20 7.25

Time-->



#49

1,4-Dioxane

Concen: 15.509 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VX018327.D

Acq: 09 Sep 2020 17:23

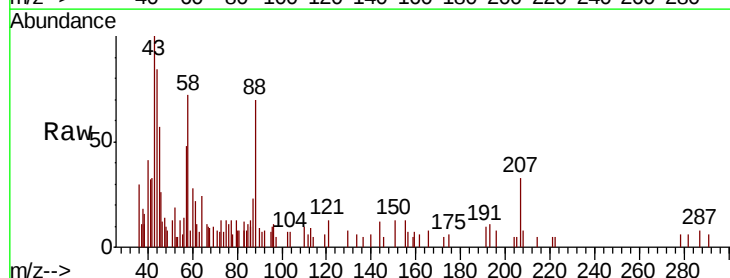
Tgt Ion: 88 Resp: 1639

Ion Ratio Lower Upper

88 100

43 15.7 27.4 41.0#

58 95.2 56.4 84.6#



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

1500

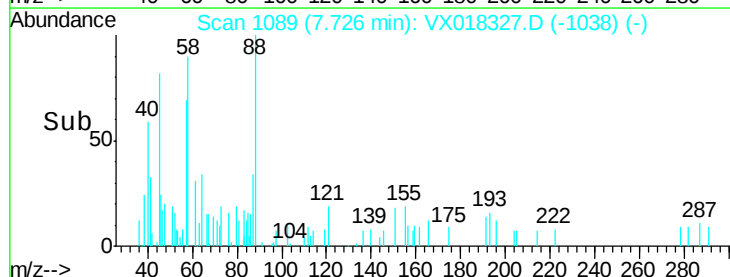
1000

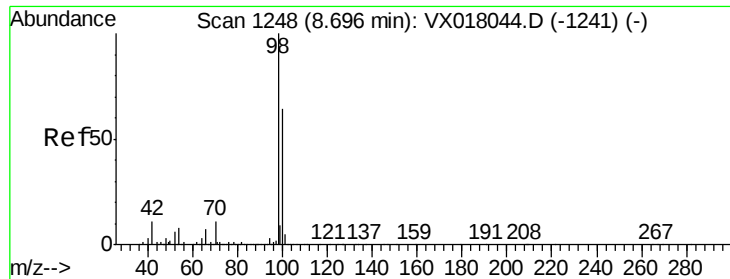
500

0

7.65 7.70 7.75 7.80

Time-->





#50

Toluene-d8

Concen: 49.234 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018327.D

Acq: 09 Sep 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

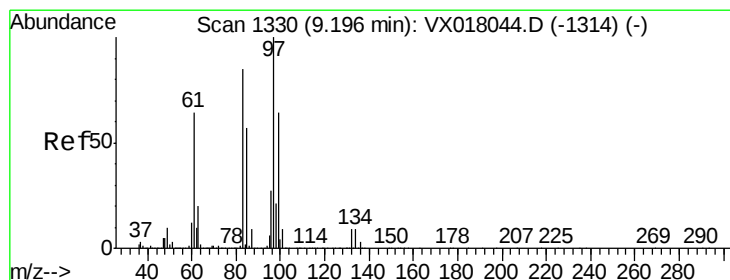
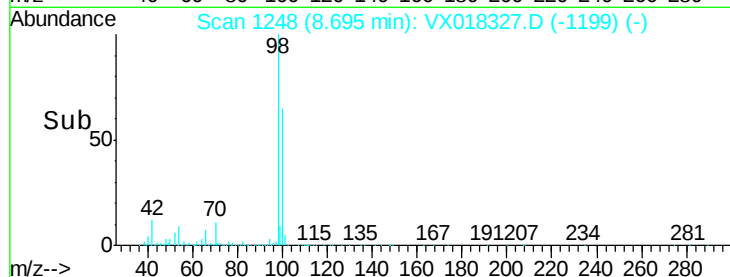
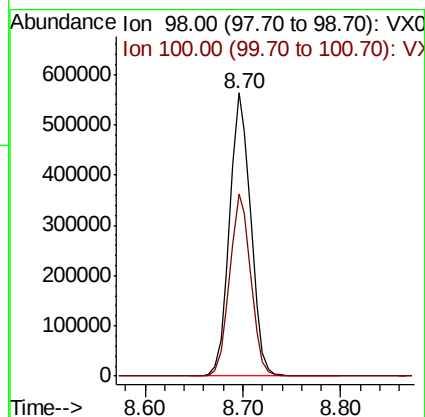
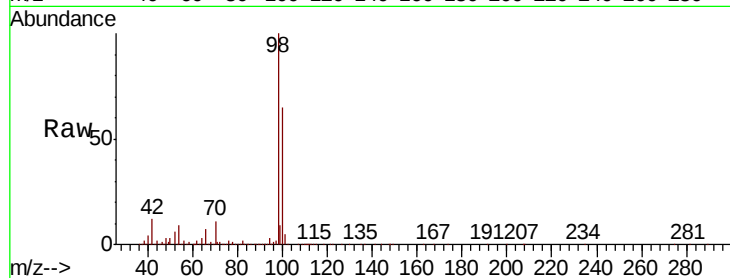
FT-PZ460I-20200901

Tot Ion: 98 Resp: 845889

Ion Ratio Lower Upper

98 100

100 64.1 52.2 78.4



#55

1,1,2-Trichloroethane

Concen: 0.221 ug/l

RT: 9.18 min Scan# 1328

Delta R.T. -0.01 min

Lab File: VX018327.D

Acq: 09 Sep 2020 17:23

Tgt Ion: 97 Resp: 1095

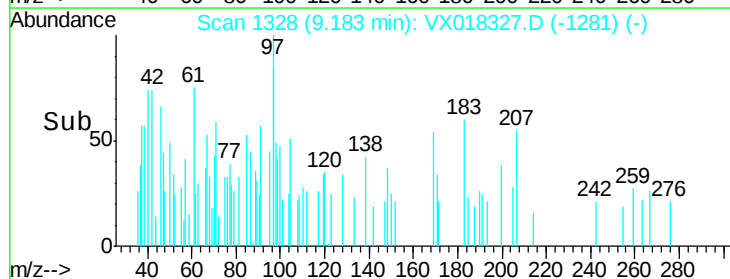
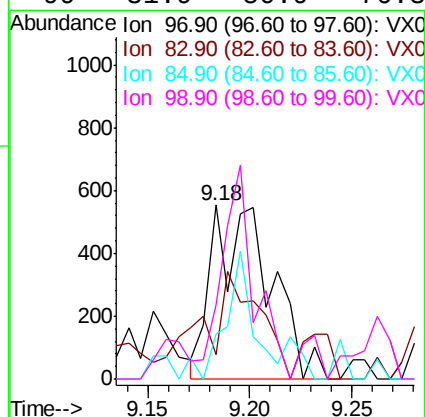
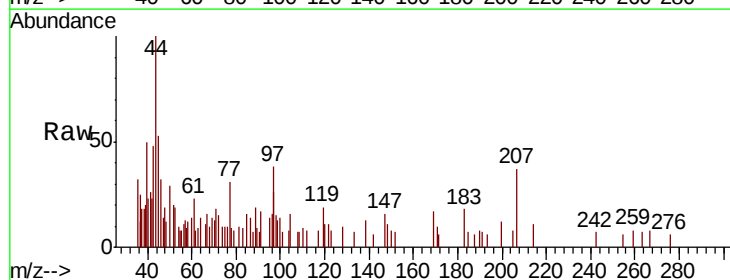
Ion Ratio Lower Upper

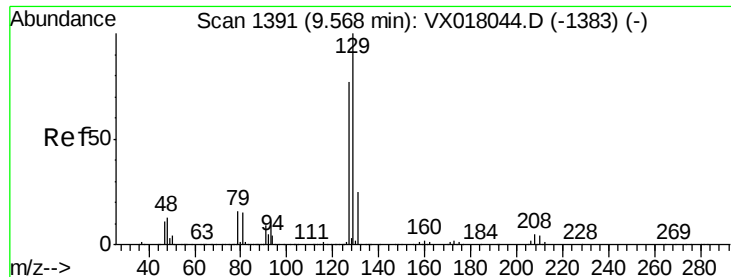
97 100

83 13.9 67.8 101.6#

85 13.4 45.3 67.9#

99 31.9 50.9 76.3#





#60

Dibromochloromethane

Concen: 4.689 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX018327.D

Acq: 09 Sep 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

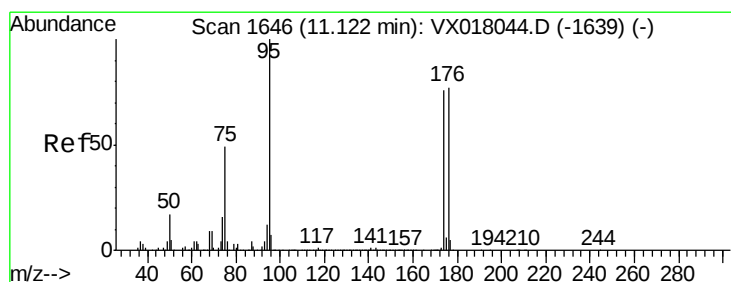
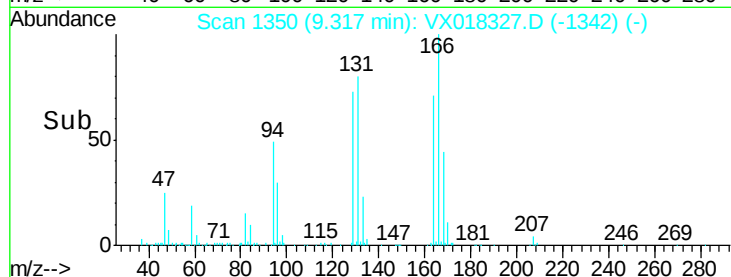
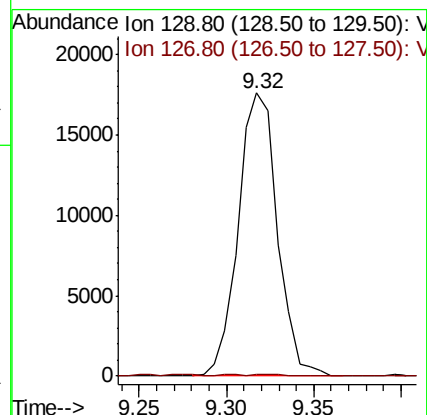
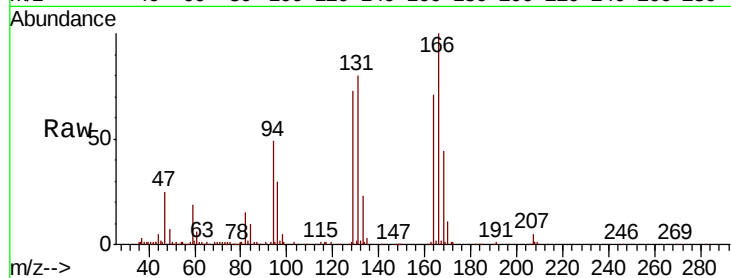
FT-PZ460I-20200901

Tot Ion:129 Resp: 27305

Ion Ratio Lower Upper

129 100

127 0.7 38.9 116.6#



#62

4-Bromofluorobenzene

Concen: 45.517 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018327.D

Acq: 09 Sep 2020 17:23

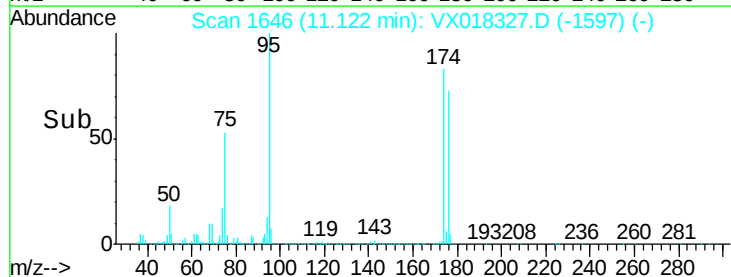
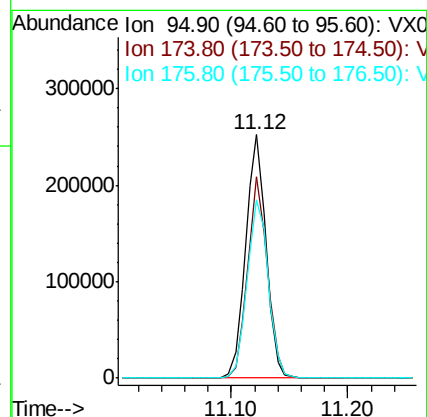
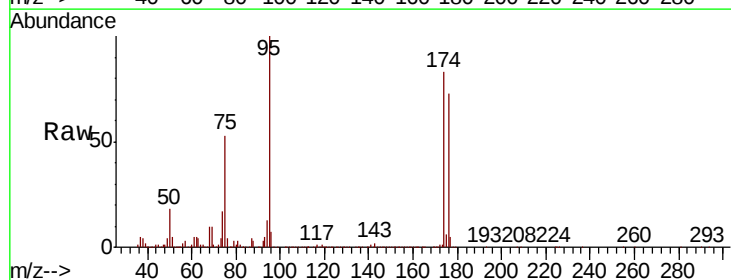
Tgt Ion: 95 Resp: 307683

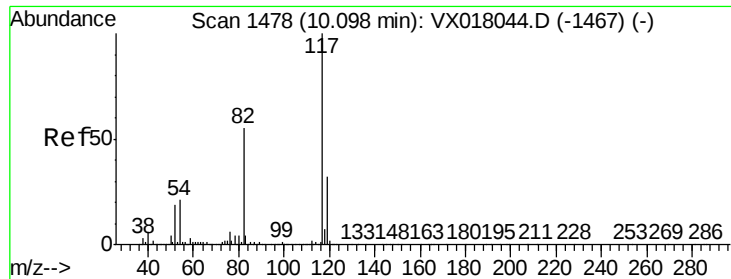
Ion Ratio Lower Upper

95 100

174 81.6 0.0 160.2

176 76.4 0.0 155.8

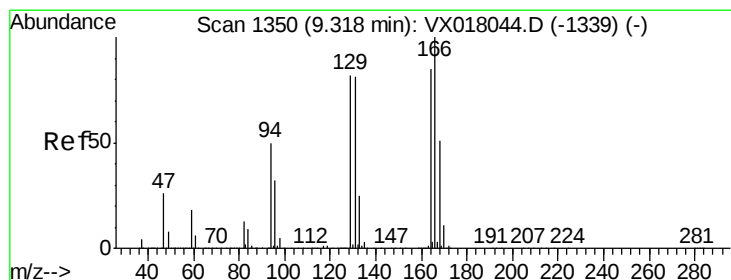
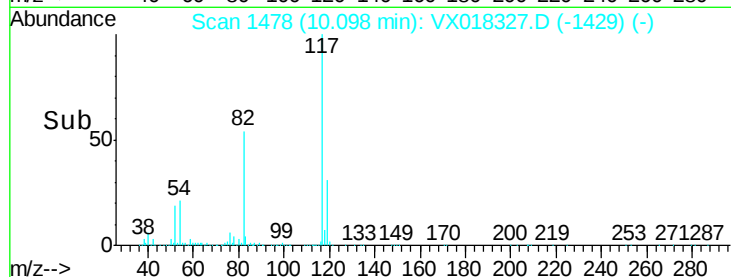
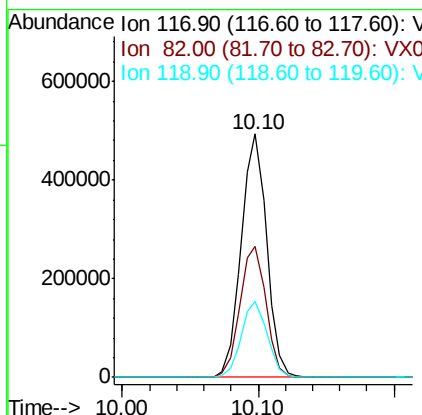
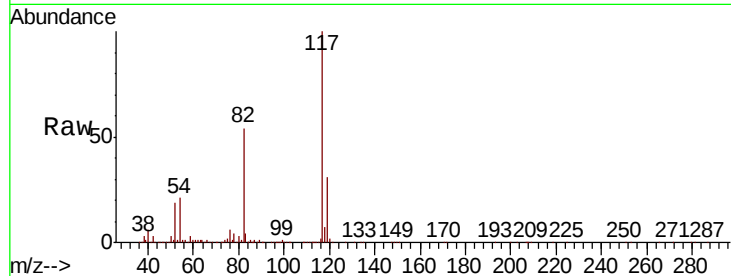




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX018327.D
Acq: 09 Sep 2020 17:23

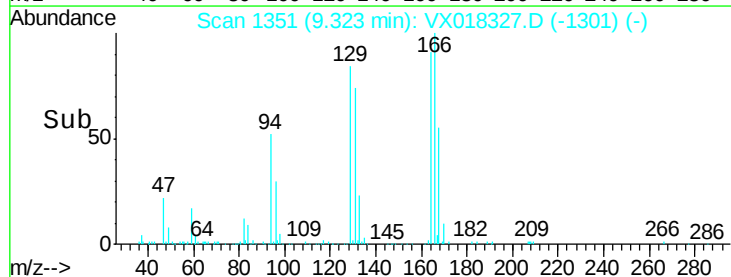
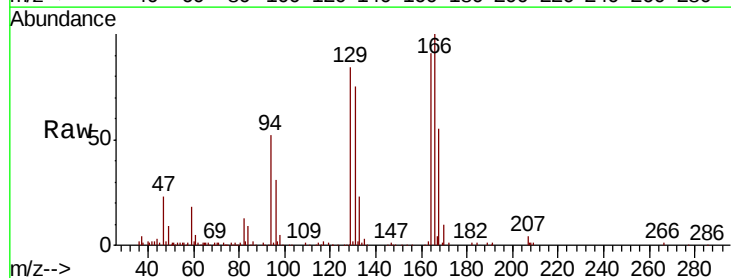
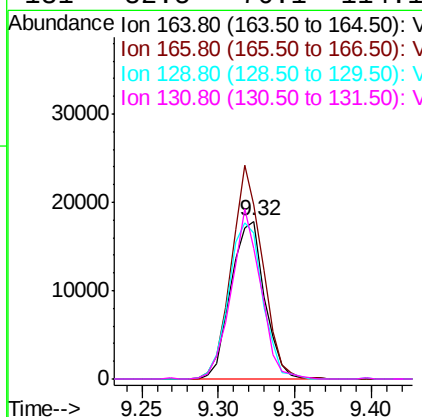
Instrument :
MSVOA_X
ClientSampleId :
FT-PZ460I-20200901

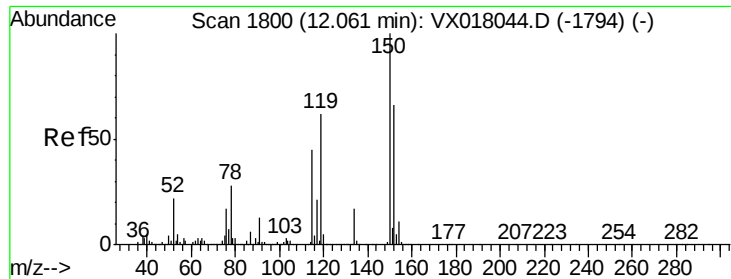
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.0	44.2	66.2
119	31.4	25.7	38.5



#64
Tetrachloroethene
Concen: 5.722 ug/l
RT: 9.32 min Scan# 1351
Delta R.T. 0.01 min
Lab File: VX018327.D
Acq: 09 Sep 2020 17:23

Tgt Ion	Ratio	Lower	Upper
164	100		
166	110.0	94.2	141.2
129	92.3	76.9	115.3
131	82.5	76.1	114.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018327.D

Acq: 09 Sep 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ460I-20200901

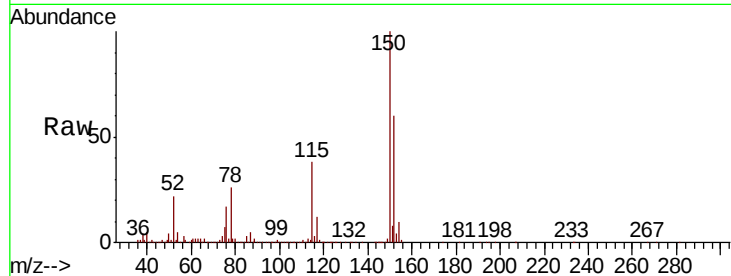
Tot Ion:152 Resp: 307467

Ion Ratio Lower Upper

152 100

115 61.4 41.5 124.5

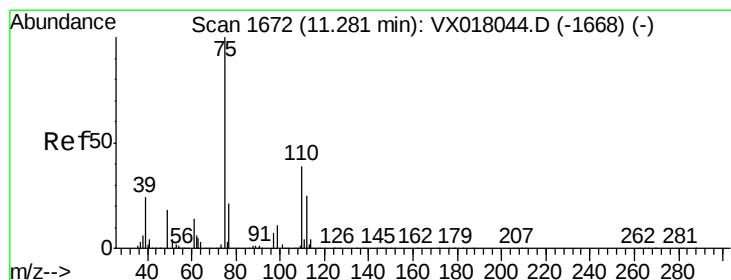
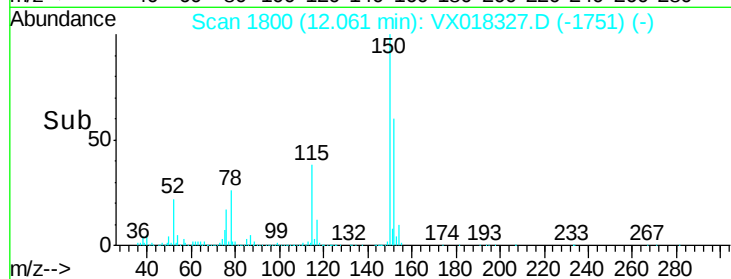
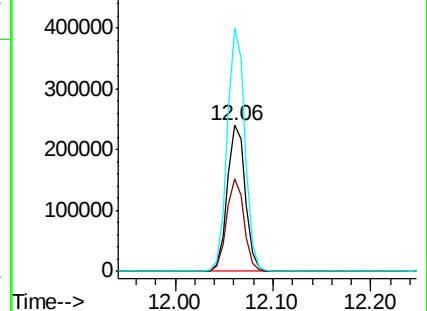
150 162.0 0.0 343.8



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: 23.737 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018327.D

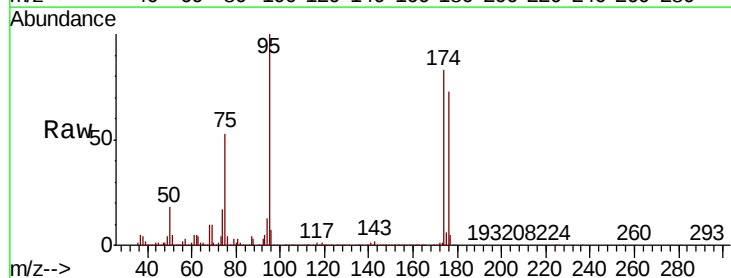
Acq: 09 Sep 2020 17:23

Tgt Ion: 75 Resp: 162357

Ion Ratio Lower Upper

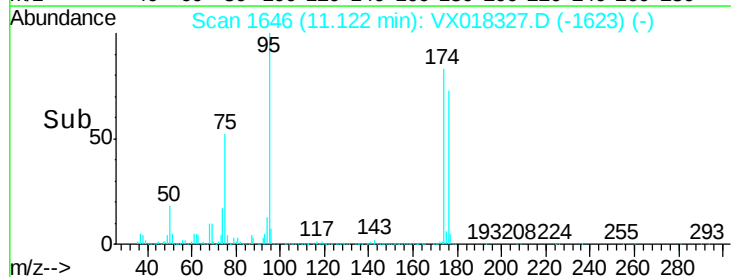
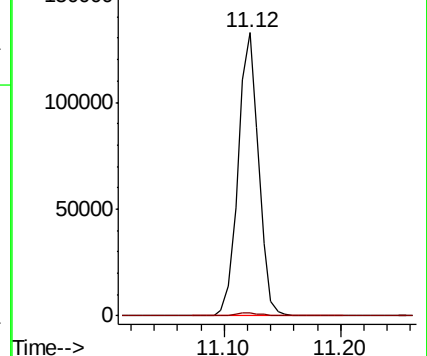
75 100

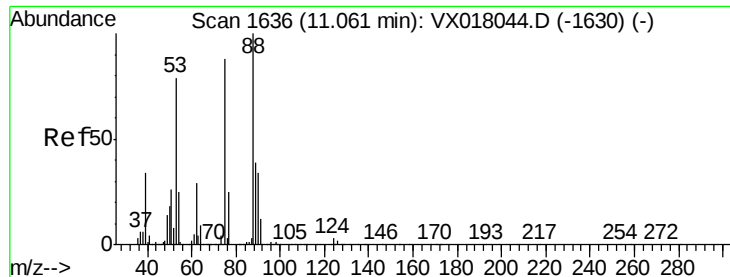
77 1.4 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 64.111 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018327.D

Acq: 09 Sep 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ460I-20200901

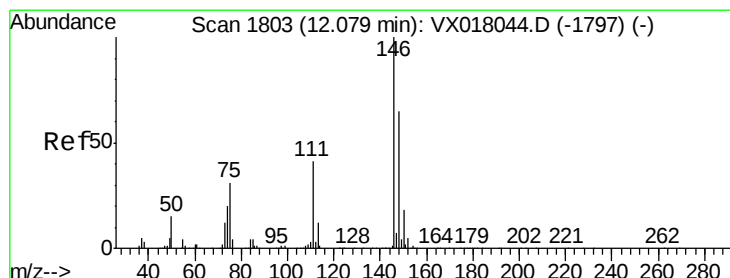
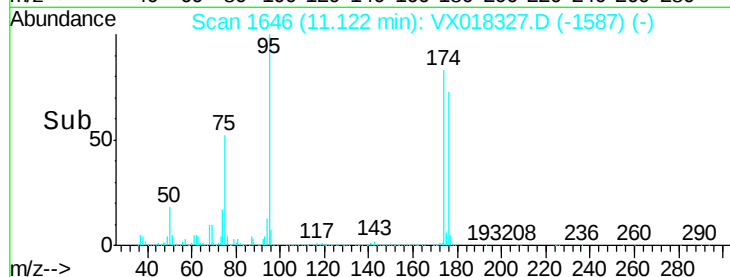
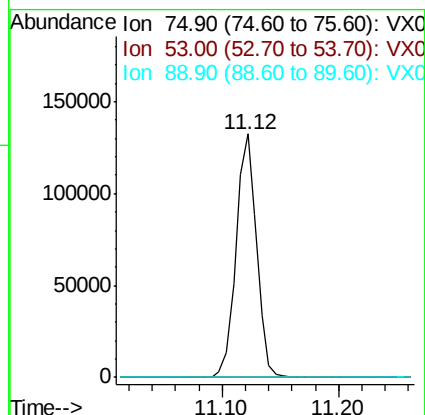
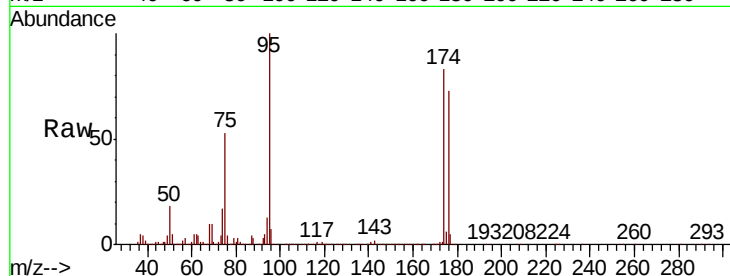
Tot Ion: 75 Resp: 162357

Ion Ratio Lower Upper

75 100

53 0.8 74.7 112.1#

89 0.1 36.6 54.8#



#88

1,4-Dichlorobenzene

Concen: 0.266 ug/l

RT: 12.08 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VX018327.D

Acq: 09 Sep 2020 17:23

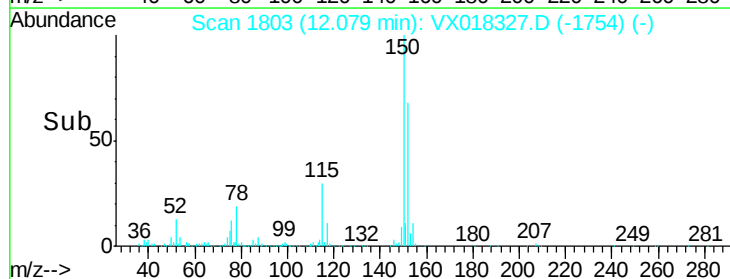
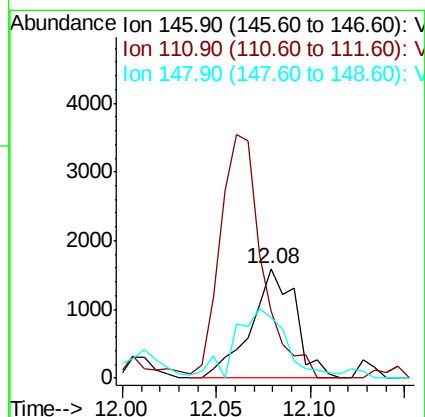
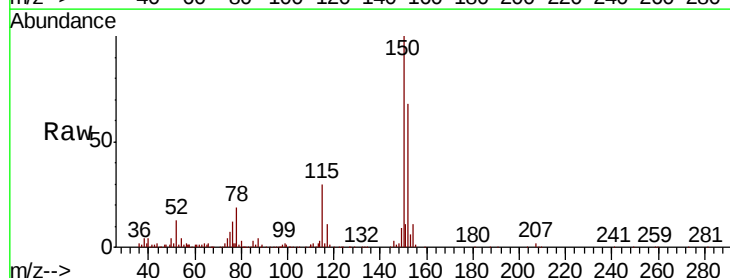
Tgt Ion: 146 Resp: 2620

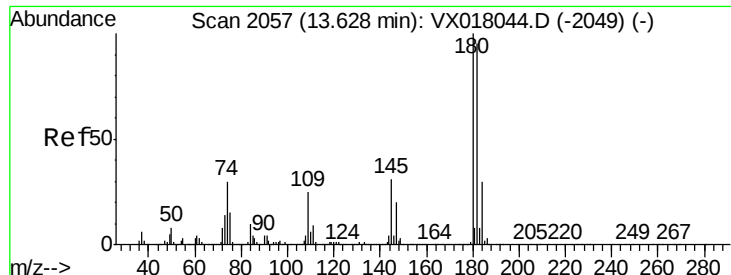
Ion Ratio Lower Upper

146 100

111 209.9 20.3 60.8#

148 72.6 33.1 99.2





#93

1,2,4-Trichlorobenzene

Concen: 0.359 ug/l

RT: 13.63 min Scan# 2057

Delta R.T. -0.00 min

Lab File: VX018327.D

Acq: 09 Sep 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

FT-PZ460I-20200901

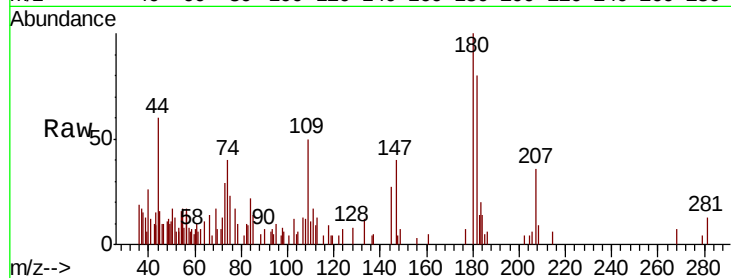
Tot Ion:180 Resp: 2215

Ion Ratio Lower Upper

180 100

182 87.0 47.5 142.6

145 30.5 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

