

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF060619\
 Data File : VF062888.D
 Acq On : 6 Jun 2019 17:51
 Operator : FY/SY
 Sample : K3160-03
 Misc : 5.87g/5mL/MSVOA F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EO-02-060619-B

Quant Time: Jun 07 01:26:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F053019S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 31 04:18:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.08	168	794035	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.80	114	1355921	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	969950	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	362705	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.06	65	217994	39.70	ug/l	0.00
Spiked Amount			Recovery	=	79.40%	
35) Dibromofluoromethane	4.33	113	379956	37.08	ug/l	0.00
Spiked Amount			Recovery	=	74.16%	
50) Toluene-d8	7.73	98	772185	29.80	ug/l	0.00
Spiked Amount			Recovery	=	59.60%	
62) 4-Bromofluorobenzene	11.50	95	282883	30.35	ug/l	0.00
Spiked Amount			Recovery	=	60.70%	

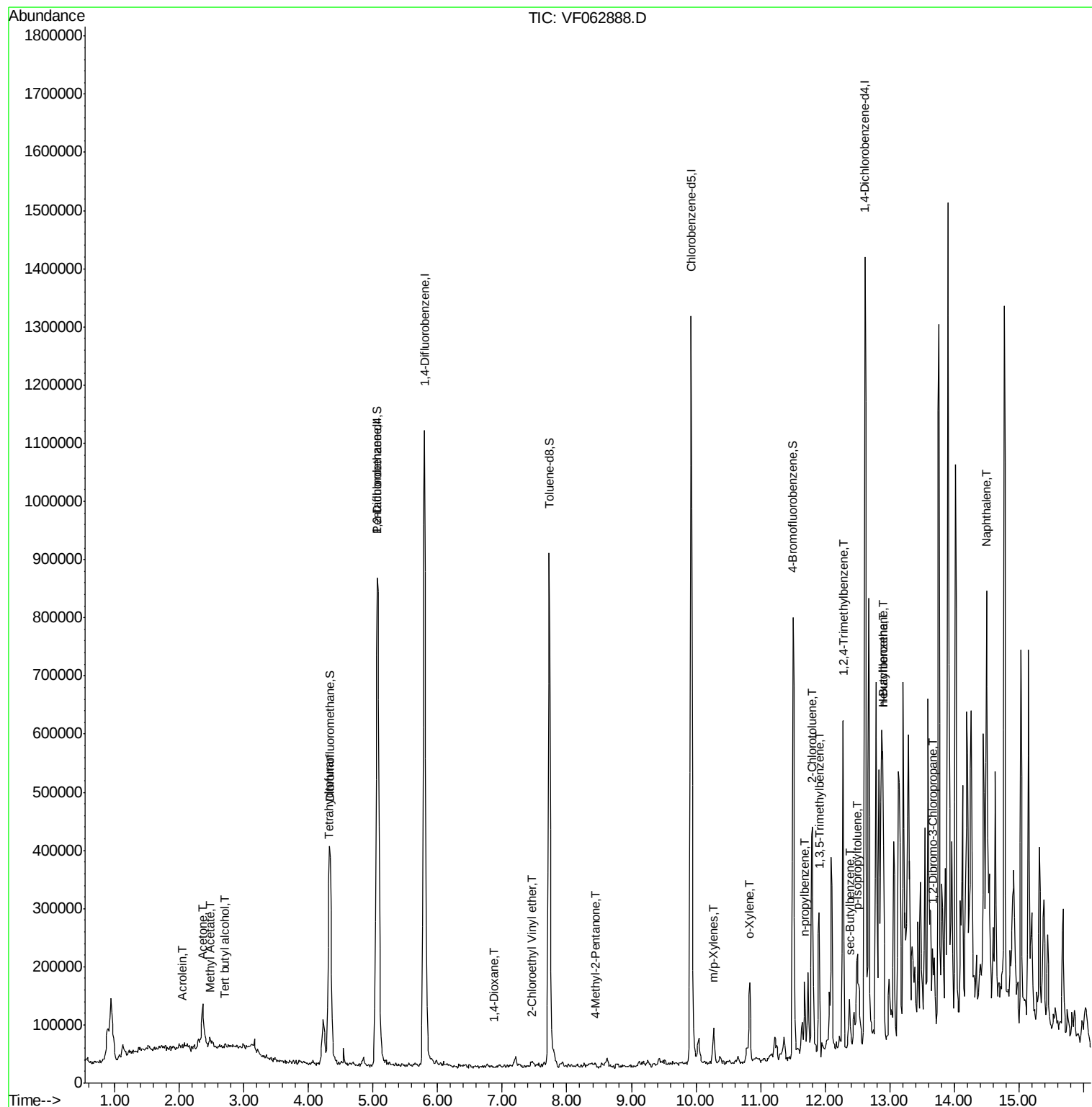
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.03	85	1431	Below Cal	#	39
11) Tert butyl alcohol	2.71	59	2467	7.417	ug/l #	1
13) Acrolein	2.04	56	1367	2.176	ug/l	97
16) Acetone	2.37	43	107712	85.709	ug/l	97
18) Methyl Acetate	2.47	43	22448	10.222	ug/l	99
20) Methylene Chloride	2.36	84	10704	Below Cal		94
29) Tetrahydrofuran	4.31	42	1757	1.570	ug/l #	51
49) 1,4-Dioxane	6.88	88	127	2.966	ug/l #	43
51) 4-Methyl-2-Pentanone	8.44	43	7180	1.595	ug/l #	57
58) 2-Chloroethyl Vinyl ether	7.46	63	3555	1.622	ug/l #	87
68) m/p-Xylenes	10.27	106	21680	1.763	ug/l #	63
69) o-Xylene	10.83	106	39703	3.188	ug/l	76
78) n-propylbenzene	11.68	91	84823	2.776	ug/l	92
79) 2-Chlorotoluene	11.79	91	35803	2.048	ug/l #	39
80) 1,3,5-Trimethylbenzene	11.91	105	125577	6.067	ug/l	88
84) 1,2,4-Trimethylbenzene	12.28	105	277882	14.161	ug/l	91
85) sec-Butylbenzene	12.38	105	54739	2.026	ug/l	99
86) p-Isopropyltoluene	12.50	119	95719	4.256	ug/l	94
89) n-Butylbenzene	12.90	91	132686	5.864	ug/l	81
90) Hexachloroethane	12.89	117	18181	3.314	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	13.66	75	1247	2.118	ug/l #	1
95) Naphthalene	14.50	128	233335	21.044	ug/l #	94

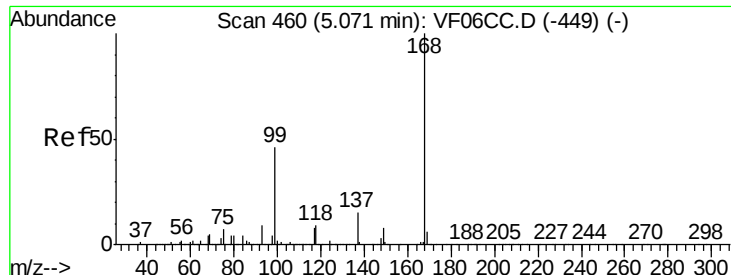
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF060619\
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Quant Time: Jun 07 01:26:23 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F053019S.M
Quant Title : SW846 8260
QLast Update : Fri May 31 04:18:30 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. 0.00 min

Lab File: VF062888.D

Acq: 6 Jun 2019 17:51

Instrument :

MSVOA_F

ClientSampleId :

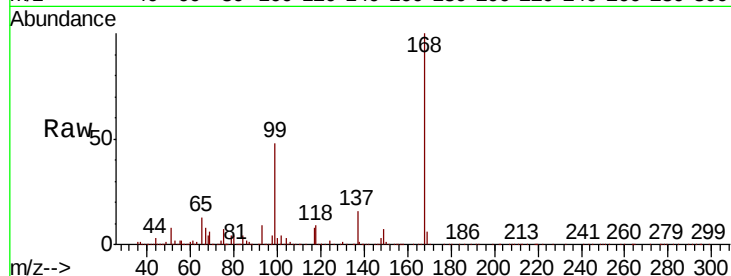
EO-02-060619-B

Tot Ion:168 Resp: 794035

Ion Ratio Lower Upper

168 100

99 47.7 39.1 58.7



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.08

300000

250000

200000

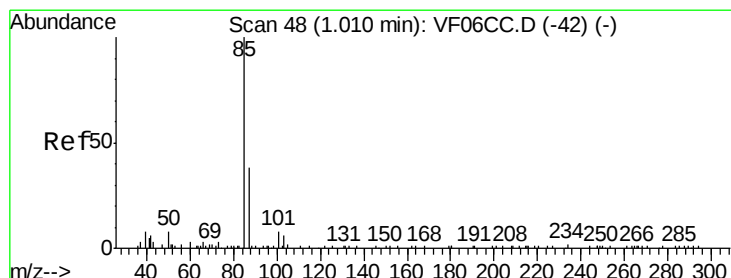
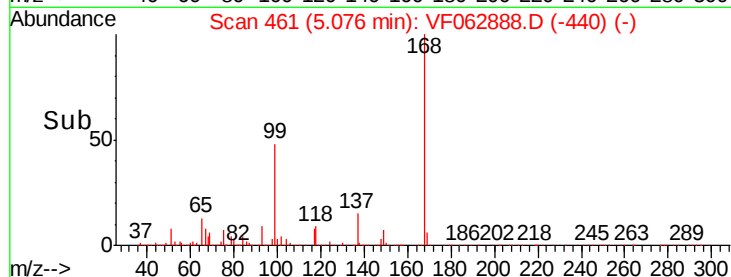
150000

100000

50000

0

Time--> 4.90 5.00 5.10 5.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.03 min Scan# 51

Delta R.T. 0.02 min

Lab File: VF062888.D

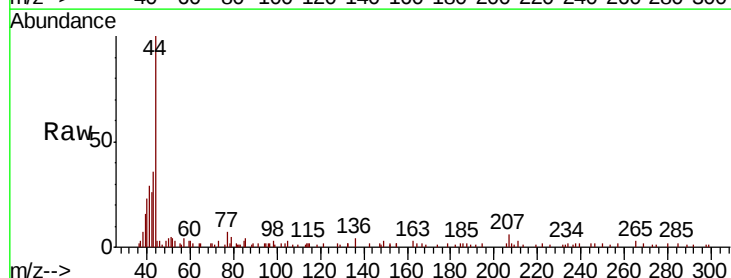
Acq: 6 Jun 2019 17:51

Tgt Ion: 85 Resp: 1431

Ion Ratio Lower Upper

85 100

87 0.0 17.6 52.9#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.03

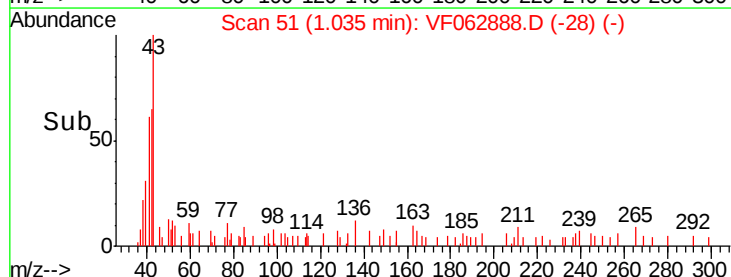
600

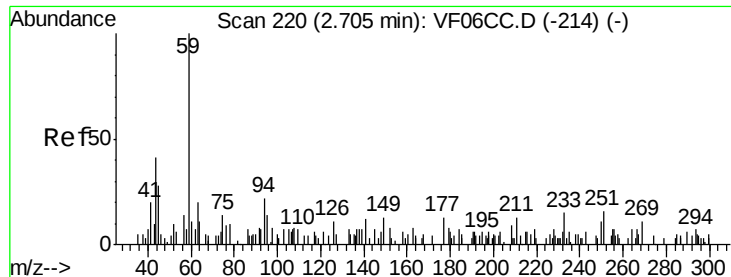
400

200

0

Time--> 0.95 1.00 1.05 1.10

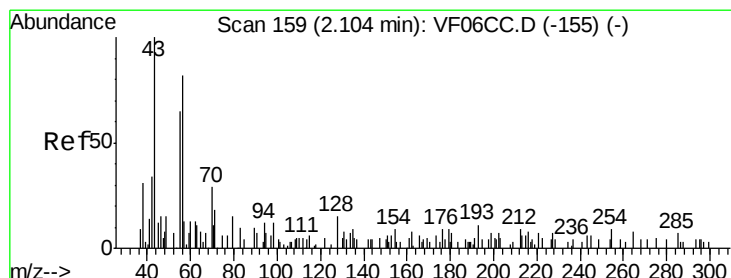
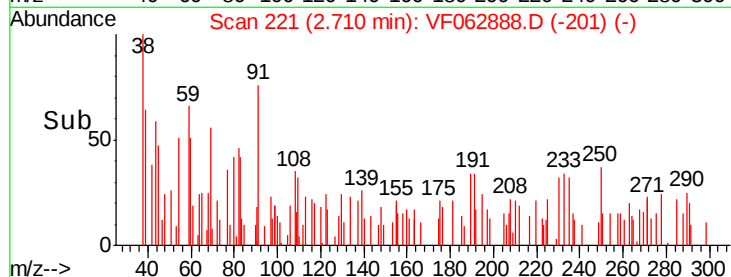
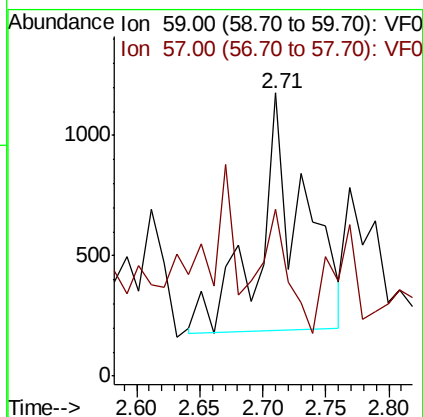
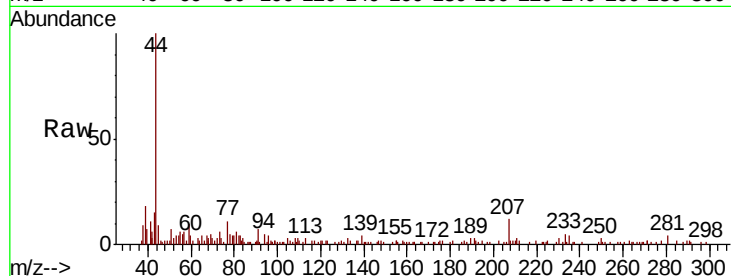




#11
Tert butvl alcohol
Concen: 7.417 ug/l
RT: 2.71 min Scan# 221
Delta R.T. -0.01 min
Lab File: VF062888.D
Acq: 6 Jun 2019 17:51

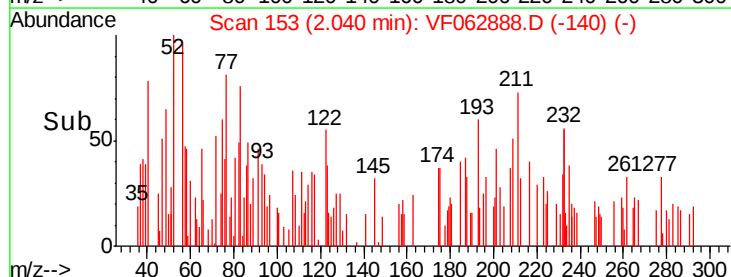
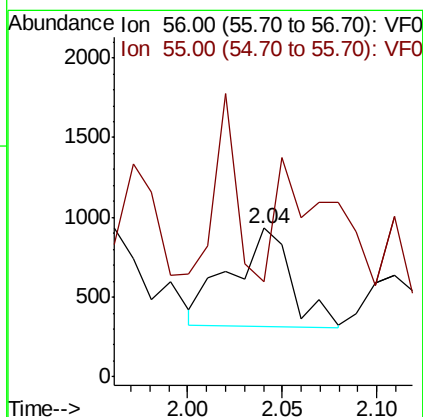
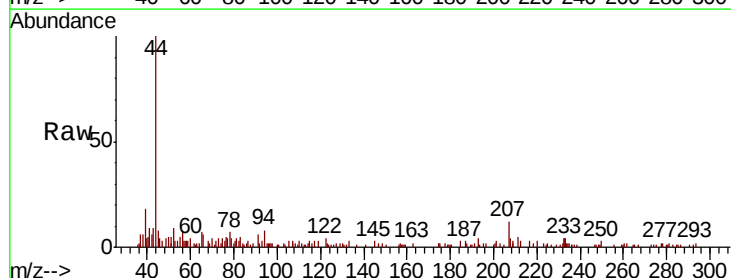
Instrument :
MSVOA_F
ClientSampleId :
EO-02-060619-B

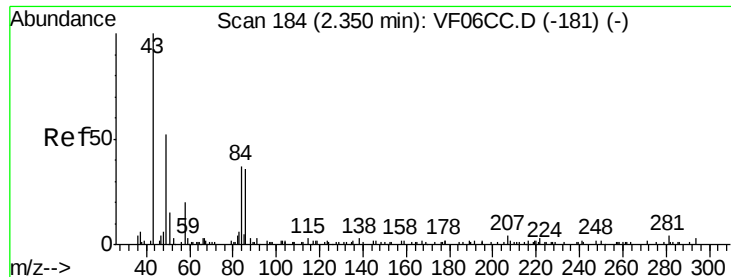
Tot Ion: 59 Resp: 2467
Ion Ratio Lower Upper
59 100
57 59.0 9.2 13.8#



#13
Acrolein
Concen: 2.176 ug/l
RT: 2.04 min Scan# 153
Delta R.T. -0.07 min
Lab File: VF062888.D
Acq: 6 Jun 2019 17:51

Tgt Ion: 56 Resp: 1367
Ion Ratio Lower Upper
56 100
55 64.1 52.9 79.3

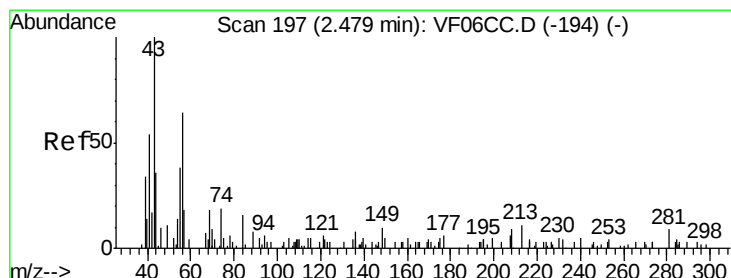
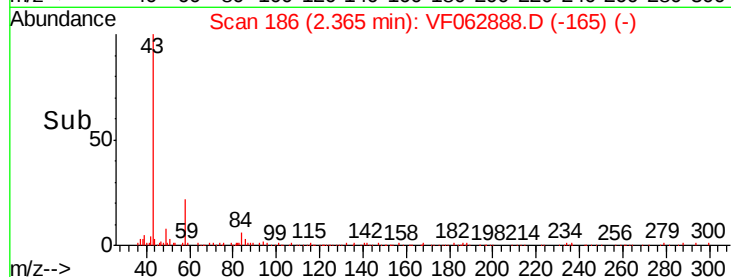
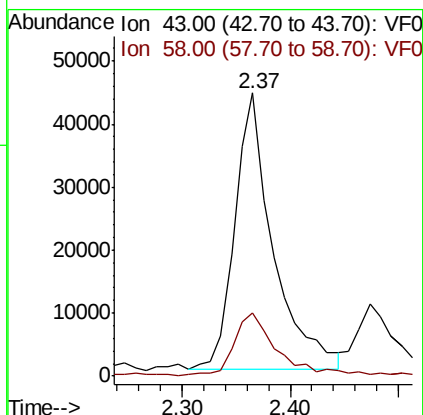
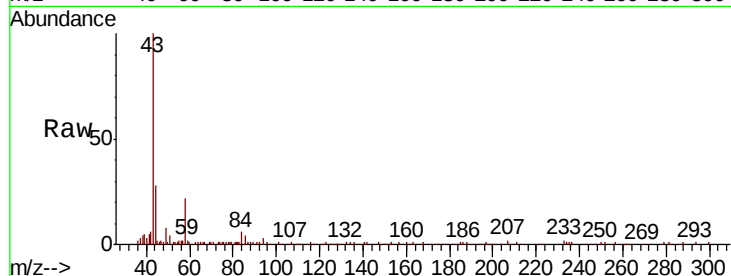




#16
Acetone
Concen: 85.709 ug/l
RT: 2.37 min Scan# 186
Delta R.T. 0.00 min
Lab File: VF062888.D
Acq: 6 Jun 2019 17:51

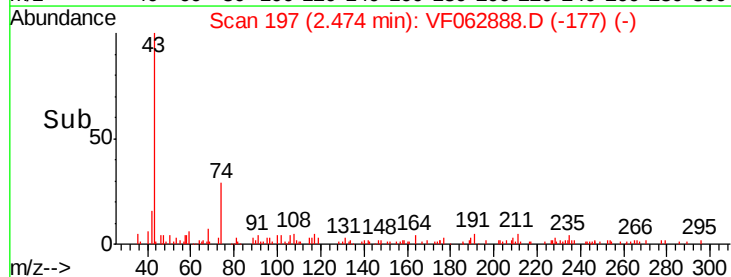
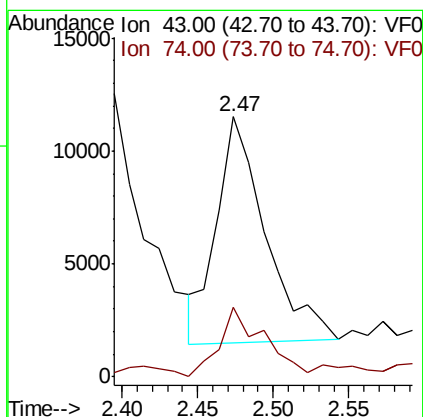
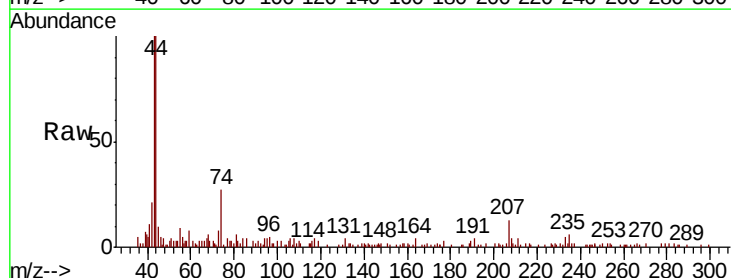
Instrument :
MSVOA_F
ClientSampleId :
EO-02-060619-B

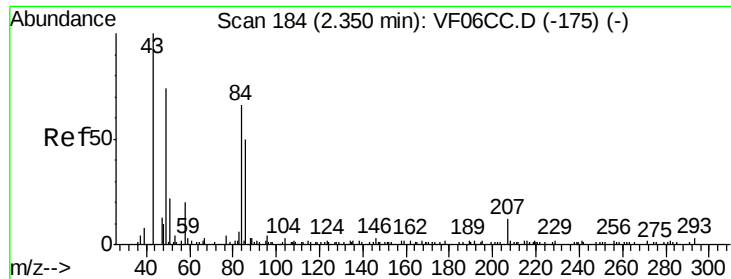
Tot Ion: 43 Resp: 107712
Ion Ratio Lower Upper
43 100
58 22.3 19.0 28.4



#18
Methyl Acetate
Concen: 10.222 ug/l
RT: 2.47 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF062888.D
Acq: 6 Jun 2019 17:51

Tgt Ion: 43 Resp: 22448
Ion Ratio Lower Upper
43 100
74 26.8 22.1 33.1

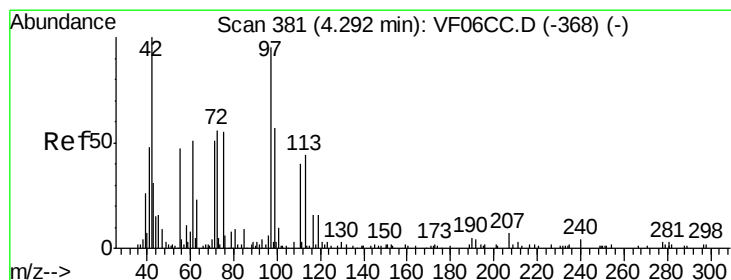
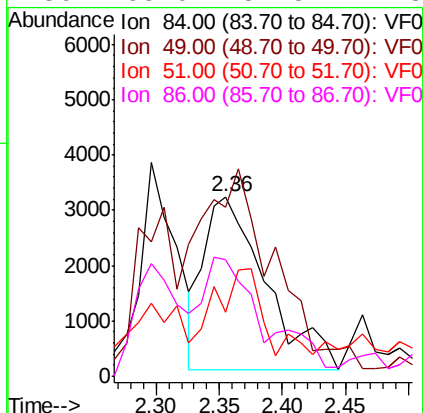
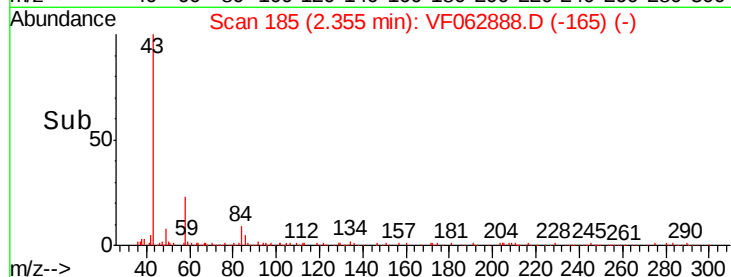
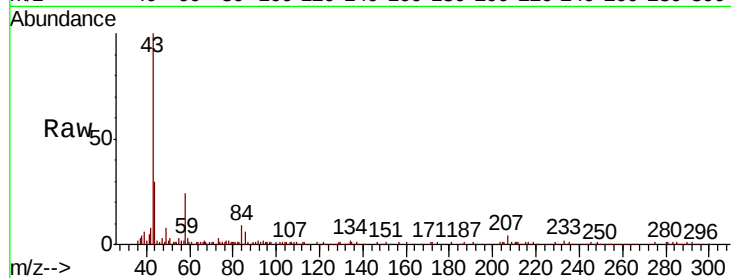




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.36 min Scan# 185
Delta R.T. -0.01 min
Lab File: VF062888.D
Acq: 6 Jun 2019 17:51

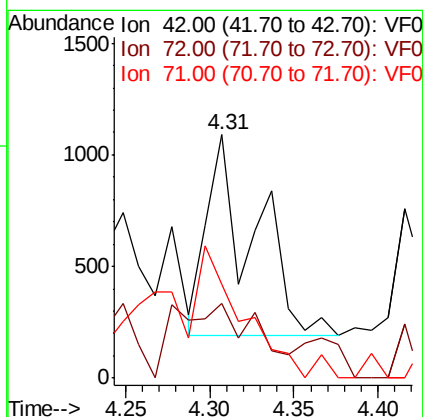
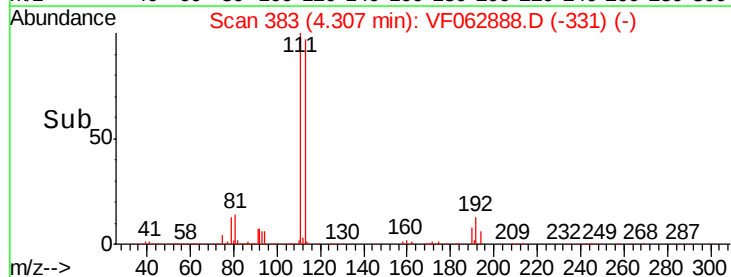
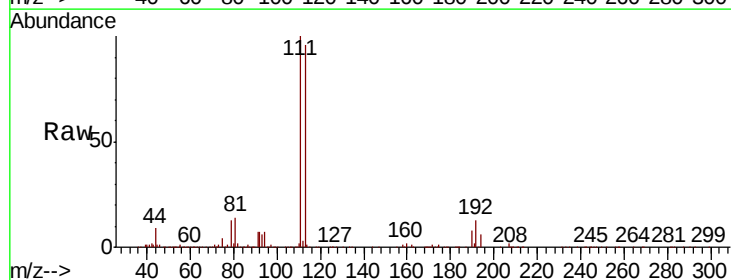
Instrument :
MSVOA_F
ClientSampleId :
EO-02-060619-B

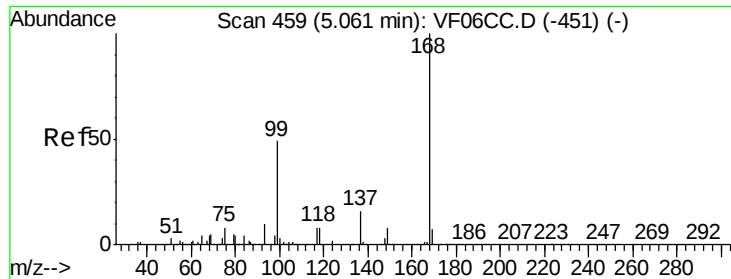
Tot Ion:	84	Resp:	10704
Ion	Ratio	Lower	Upper
84	100		
49	93.9	82.6	123.8
51	35.8	25.0	37.4
86	65.0	51.5	77.3



#29
Tetrahydrofuran
Concen: 1.570 ug/l
RT: 4.31 min Scan# 383
Delta R.T. 0.01 min
Lab File: VF062888.D
Acq: 6 Jun 2019 17:51

Tgt Ion:	42	Resp:	1757
Ion	Ratio	Lower	Upper
42	100		
72	0.0	39.0	58.6#
71	63.3	36.9	55.3#





#33

1,2-Dichloroethane-d4

Concen: 39.702 ug/l

RT: 5.06 min Scan# 459

Delta R.T. 0.00 min

Lab File: VF062888.D

Acq: 6 Jun 2019 17:51

Instrument :

MSVOA_F

ClientSampleId :

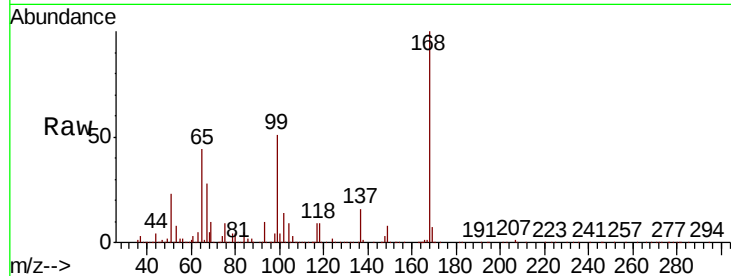
EO-02-060619-B

Tot Ion: 65 Resp: 217994

Ion Ratio Lower Upper

65 100

67 63.9 0.0 121.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

80000

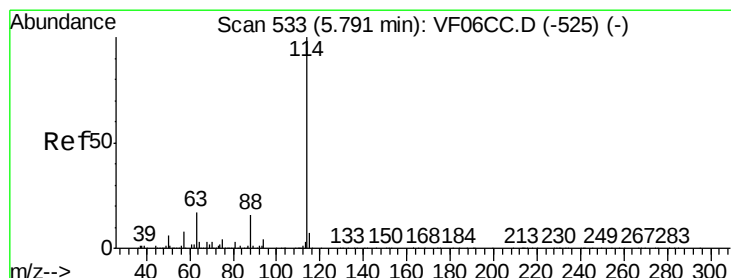
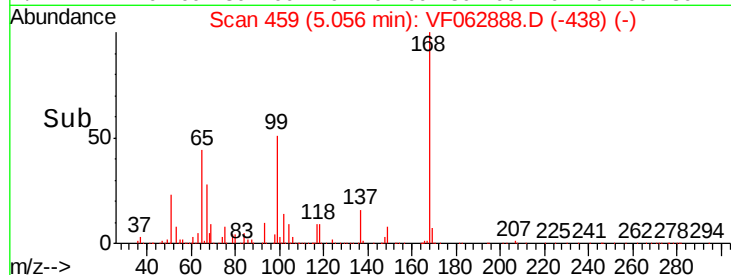
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.80 min Scan# 534

Delta R.T. -0.01 min

Lab File: VF062888.D

Acq: 6 Jun 2019 17:51

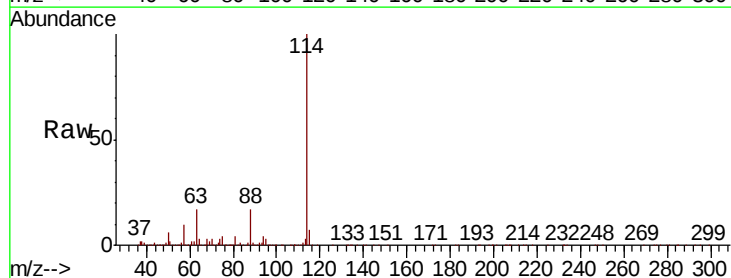
Tgt Ion: 114 Resp: 1355921

Ion Ratio Lower Upper

114 100

63 16.8 0.0 34.2

88 17.1 0.0 31.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

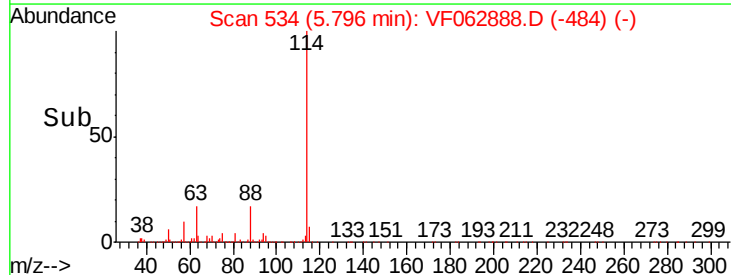
600000

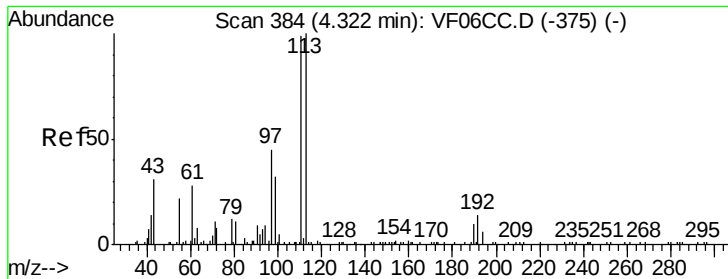
400000

200000

0

Time-->





#35

Dibromofluoromethane

Concen: 37.083 ug/l

RT: 4.33 min Scan# 385

Delta R.T. -0.01 min

Lab File: VF062888.D

Acq: 6 Jun 2019 17:51

Instrument :

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ClientSampleId :

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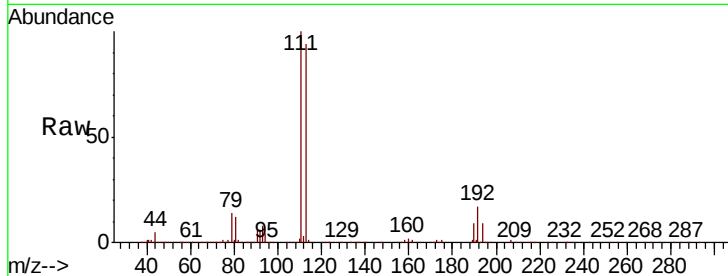
Tot Ion:113 Resp: 379956

Ion Ratio Lower Upper

113 100

111 106.1 81.9 122.9

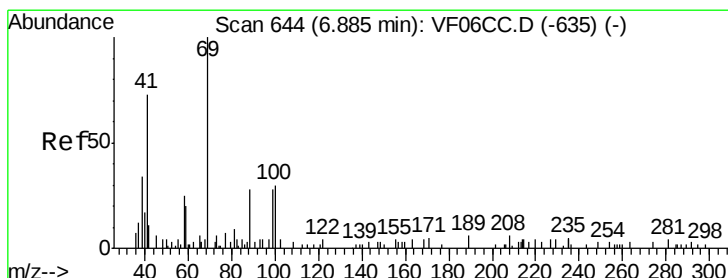
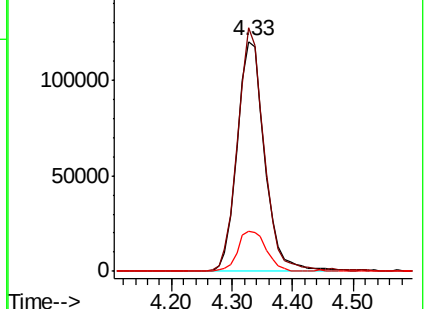
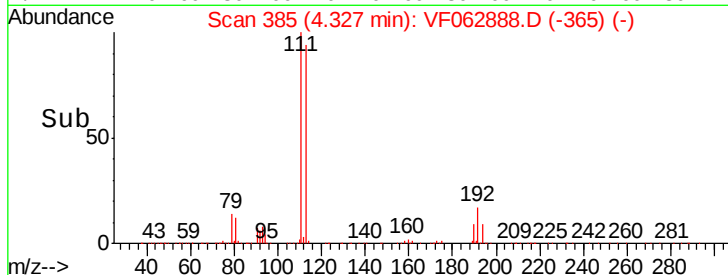
192 17.5 15.1 22.7



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#49

1,4-Dioxane

Concen: 2.966 ug/l

RT: 6.88 min Scan# 644

Delta R.T. -0.01 min

Lab File: VF062888.D

Acq: 6 Jun 2019 17:51

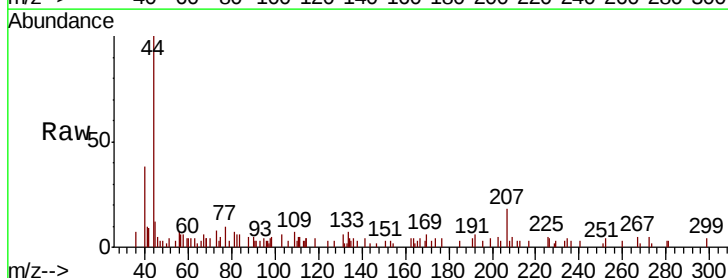
Tgt Ion: 88 Resp: 127

Ion Ratio Lower Upper

88 100

43 0.0 34.8 52.2#

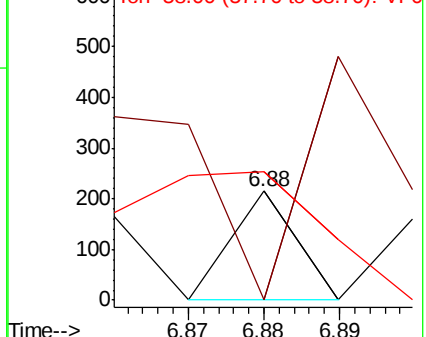
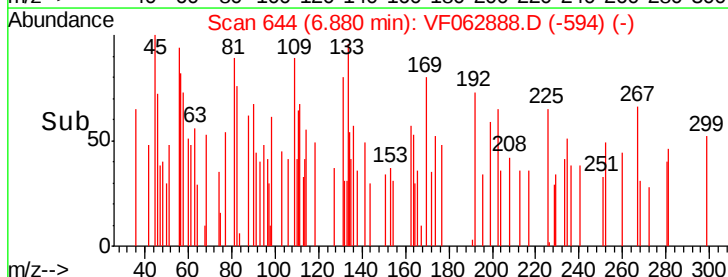
58 117.7 59.9 89.9#

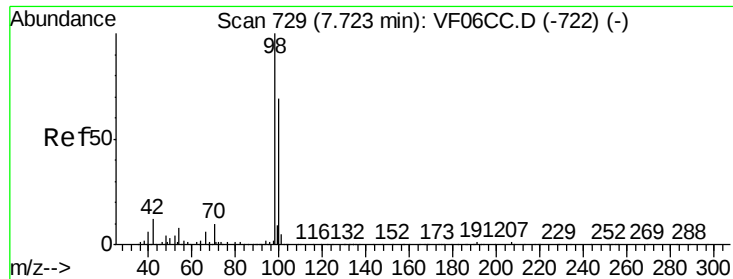


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

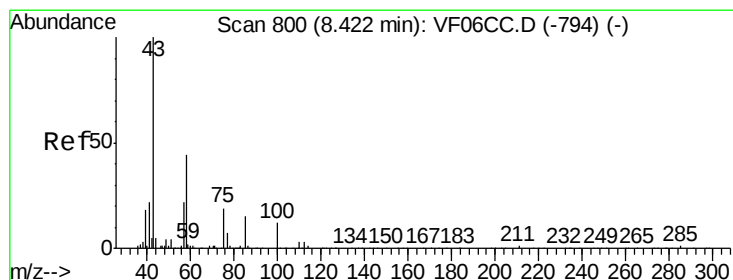
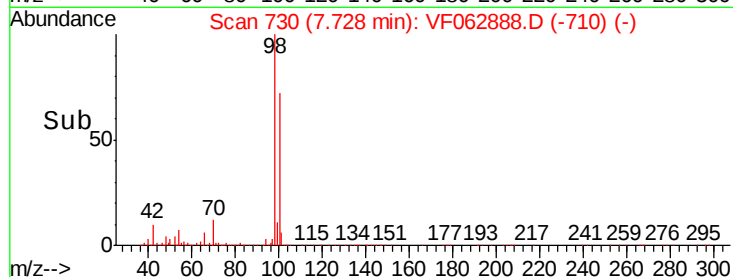
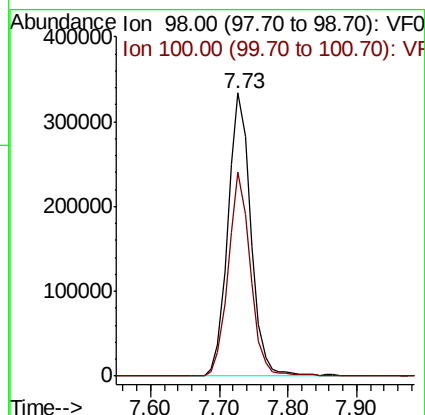
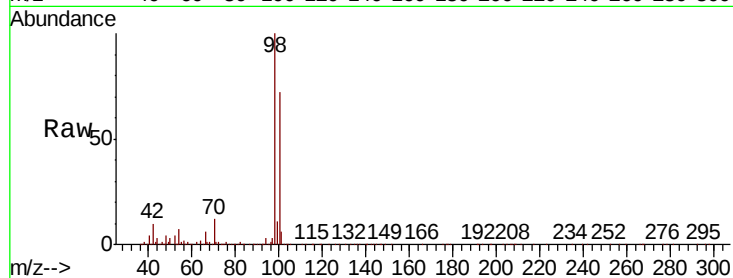




#50
Toluene-d8
Concen: 29.803 ug/l
RT: 7.73 min Scan# 730
Delta R.T. -0.01 min
Lab File: VF062888.D
Acq: 6 Jun 2019 17:51

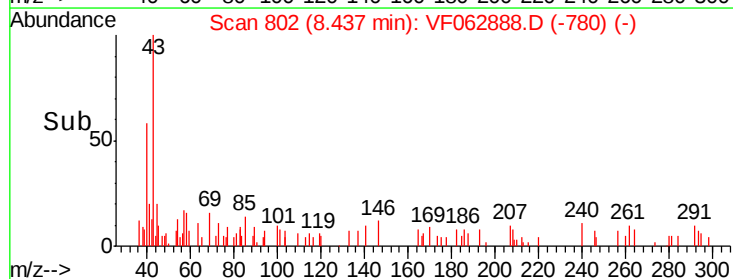
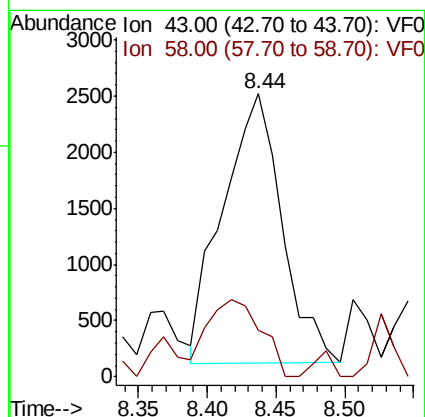
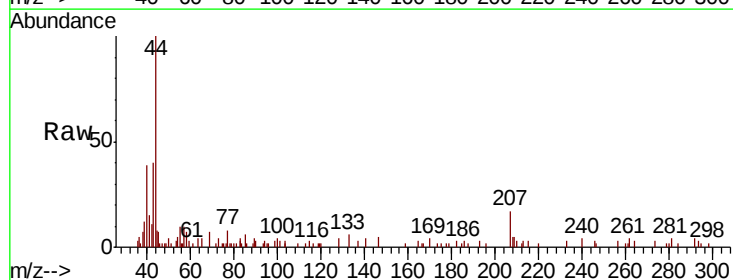
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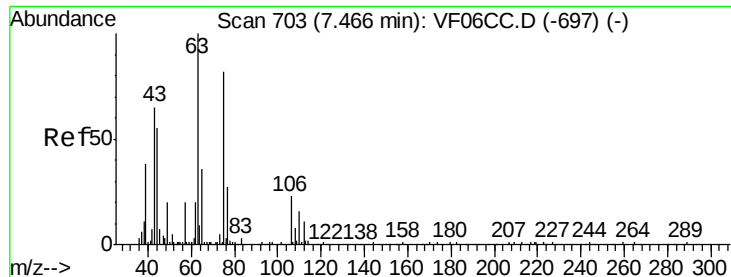
Tot Ion: 98 Resp: 772185
Ion Ratio Lower Upper
98 100
100 72.0 59.8 89.8



#51
4-Methyl-2-Pentanone
Concen: 1.595 ug/l
RT: 8.44 min Scan# 802
Delta R.T. 0.01 min
Lab File: VF062888.D
Acq: 6 Jun 2019 17:51

Tgt Ion: 43 Resp: 7180
Ion Ratio Lower Upper
43 100
58 16.3 35.5 53.3#

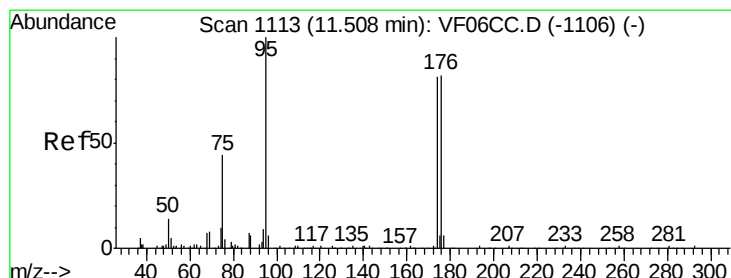
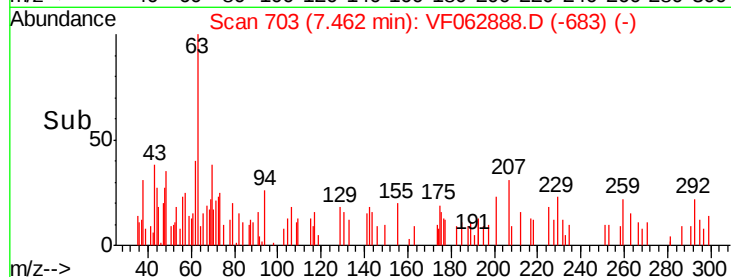
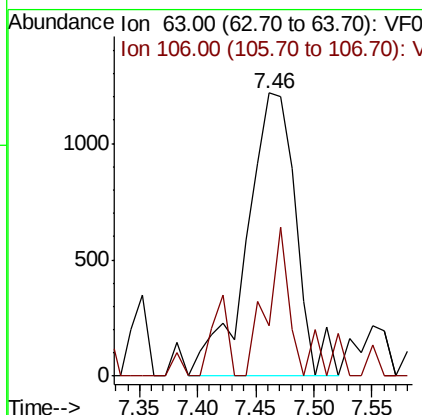
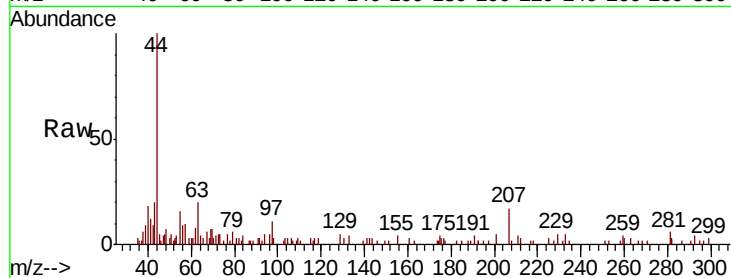




#58
 2-Chloroethyl Vinyl ether
 Concen: 1.622 ug/l
 RT: 7.46 min Scan# 703
 Delta R.T. -0.01 min
 Lab File: VF062888.D
 Acq: 6 Jun 2019 17:51

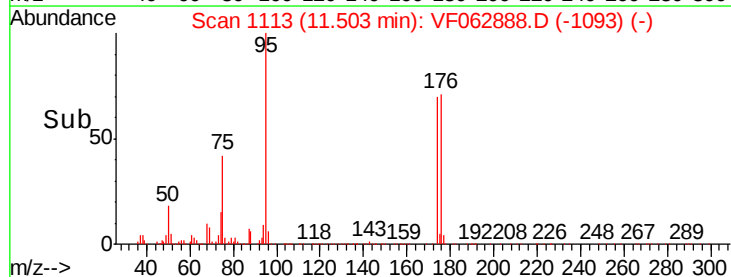
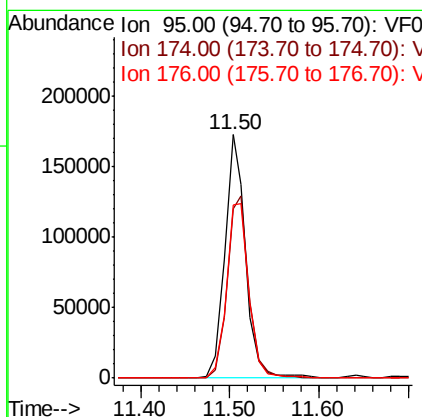
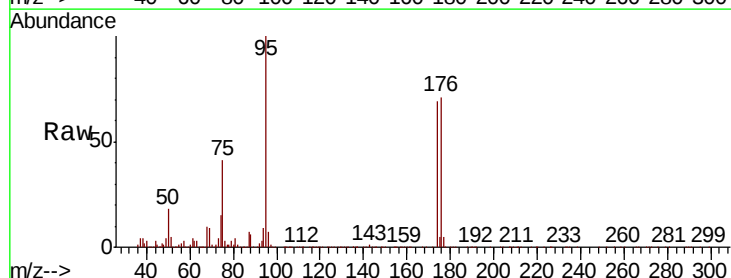
Instrument :
 MSVOA_F
 ClientSampleId :
 EO-02-060619-B

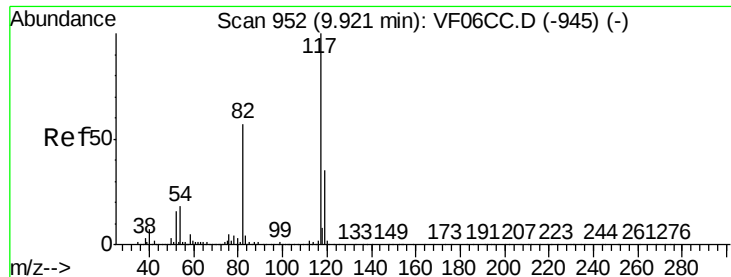
Tot Ion: 63 Resp: 3555
 Ion Ratio Lower Upper
 63 100
 106 17.8 19.5 29.3#



#62
 4-Bromofluorobenzene
 Concen: 30.352 ug/l
 RT: 11.50 min Scan# 1113
 Delta R.T. -0.01 min
 Lab File: VF062888.D
 Acq: 6 Jun 2019 17:51

Tgt Ion: 95 Resp: 282883
 Ion Ratio Lower Upper
 95 100
 174 69.5 0.0 170.6
 176 71.3 0.0 170.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.93 min Scan# 953

Delta R.T. -0.01 min

Lab File: VF062888.D

Acq: 6 Jun 2019 17:51

Instrument :

MSVOA_F

ClientSampleId :

EO-02-060619-B

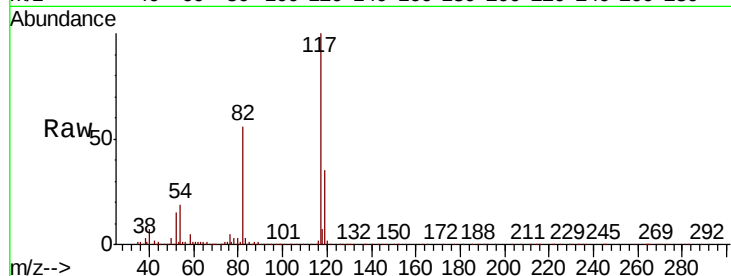
Tot Ion:117 Resp: 969950

Ion Ratio Lower Upper

117 100

82 55.6 42.4 63.6

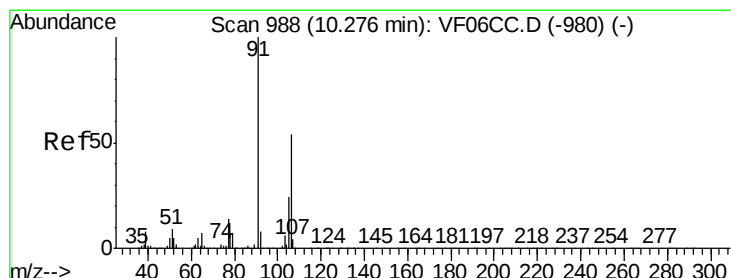
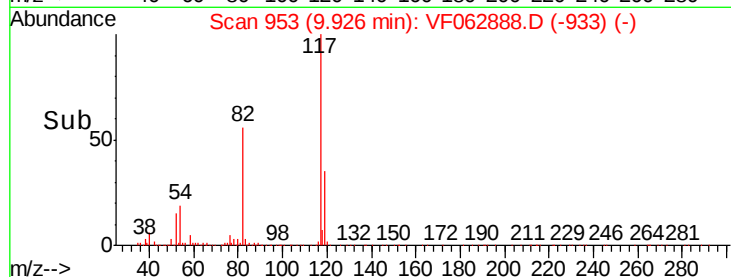
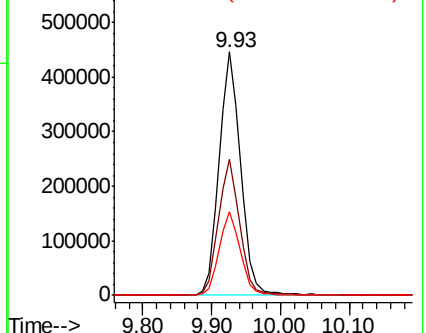
119 34.6 27.1 40.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#68

m/p-Xylenes

Concen: 1.763 ug/l

RT: 10.27 min Scan# 988

Delta R.T. -0.01 min

Lab File: VF062888.D

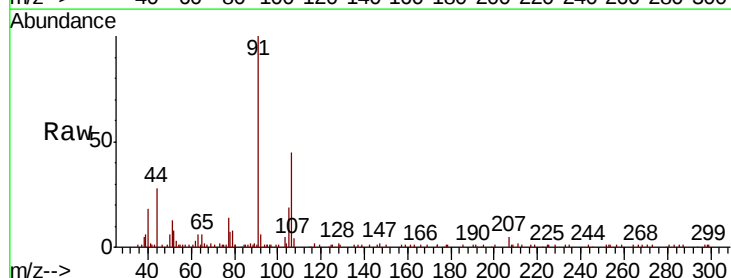
Acq: 6 Jun 2019 17:51

Tgt Ion:106 Resp: 21680

Ion Ratio Lower Upper

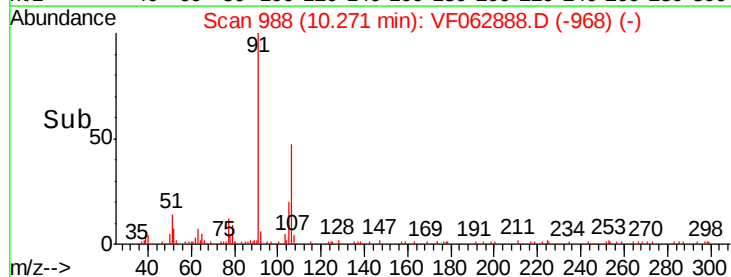
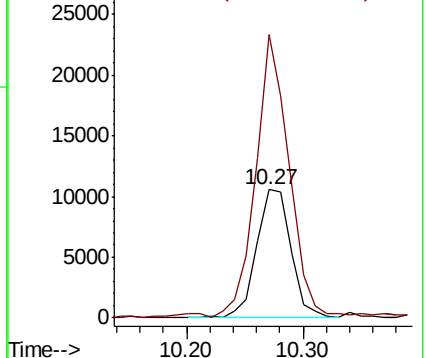
106 100

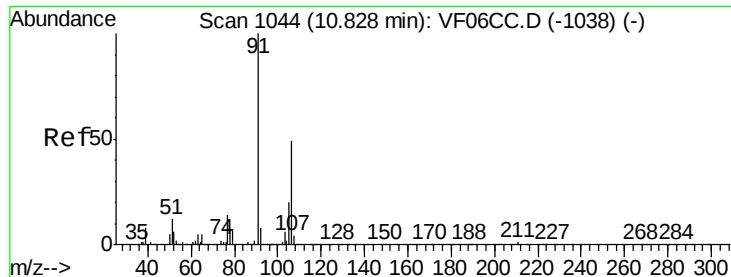
91 221.0 136.2 204.4#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

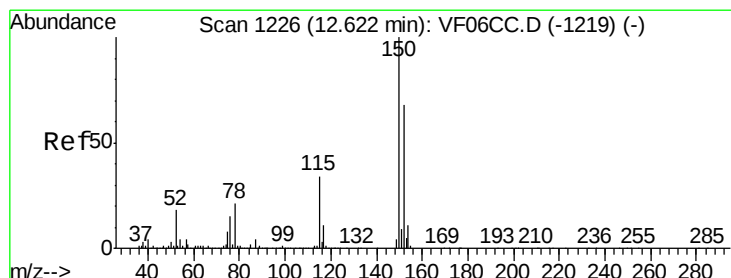
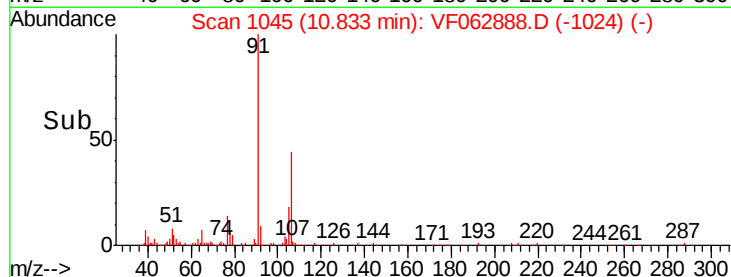
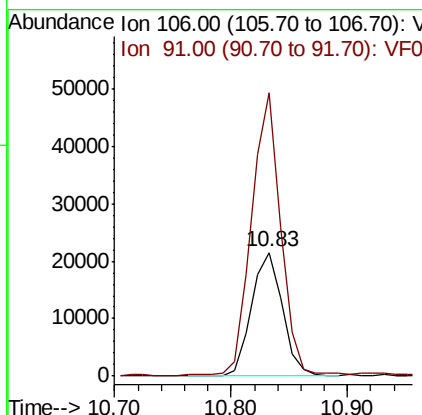
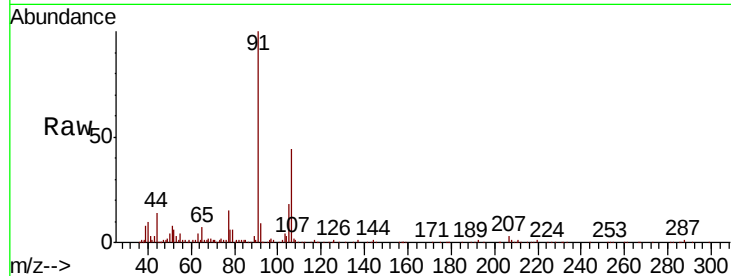




#69
o-Xylene
Concen: 3.188 ug/l
RT: 10.83 min Scan# 1045
Delta R.T. 0.00 min
Lab File: VF062888.D
Acq: 6 Jun 2019 17:51

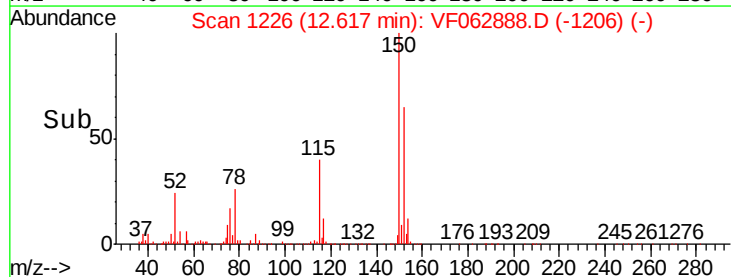
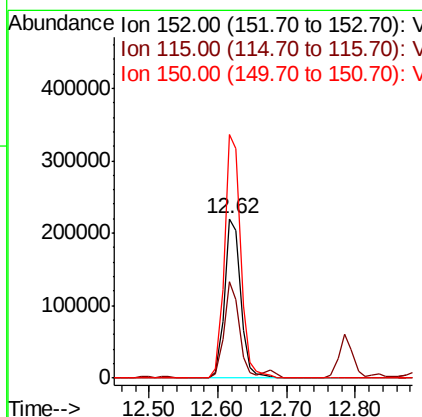
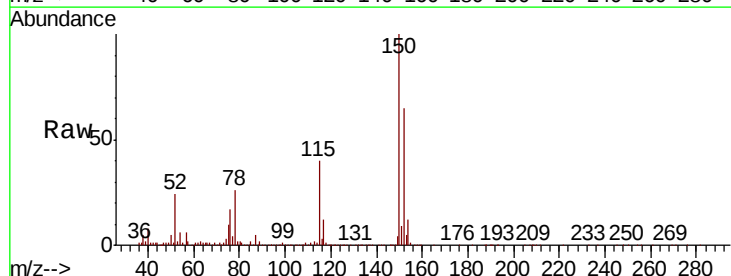
Instrument :
MSVOA_F
ClientSampleId :
EO-02-060619-B

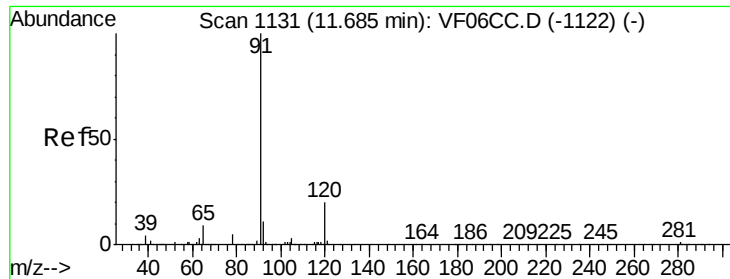
Tot Ion:106 Resp: 39703
Ion Ratio Lower Upper
106 100
91 228.9 96.6 289.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF062888.D
Acq: 6 Jun 2019 17:51

Tgt Ion:152 Resp: 362705
Ion Ratio Lower Upper
152 100
115 60.8 24.6 74.0
150 152.7 0.0 290.6





#78

n-propylbenzene

Concen: 2.776 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. -0.01 min

Lab File: VF062888.D

Acq: 6 Jun 2019 17:51

Instrument :

MSVOA_F

ClientSampleId :

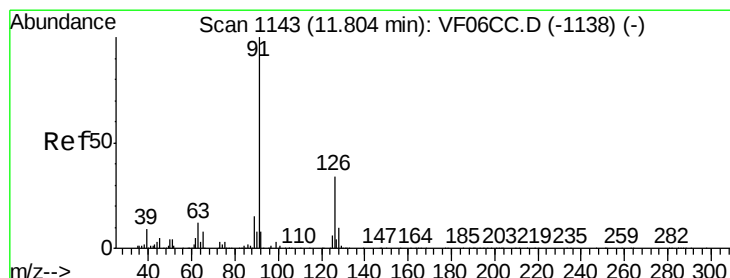
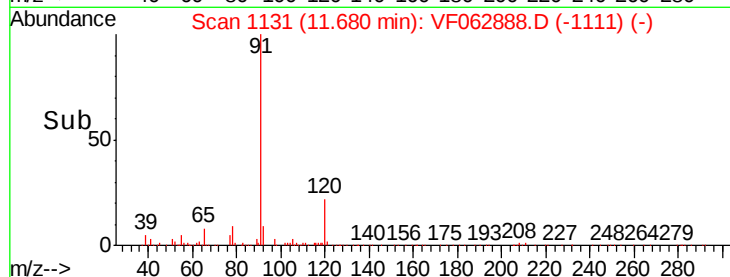
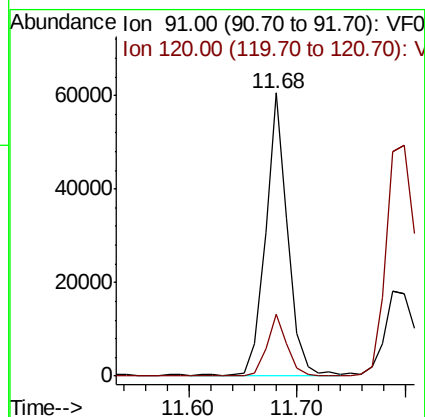
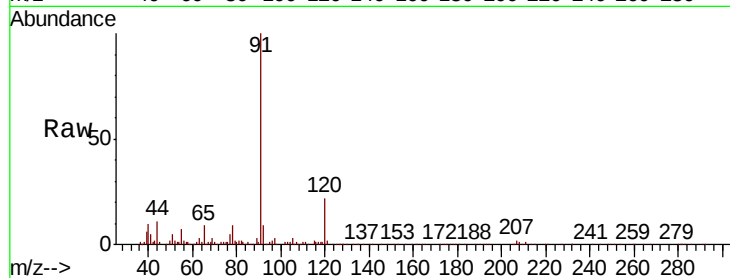
EO-02-060619-B

Tot Ion: 91 Resp: 84823

Ion Ratio Lower Upper

91 100

120 21.8 12.8 38.4



#79

2-Chlorotoluene

Concen: 2.048 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.02 min

Lab File: VF062888.D

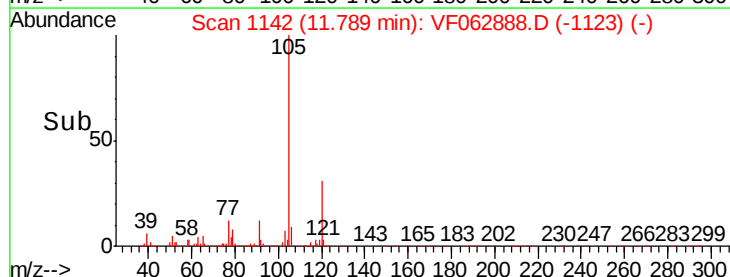
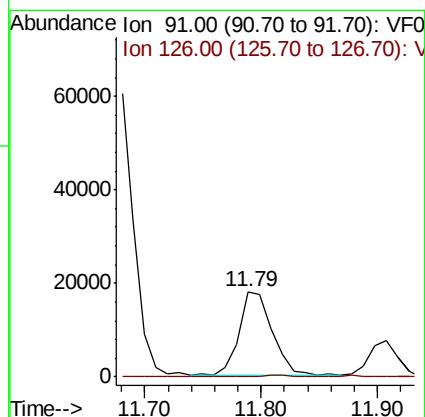
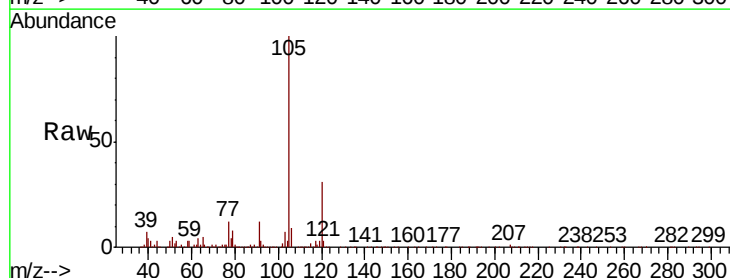
Acq: 6 Jun 2019 17:51

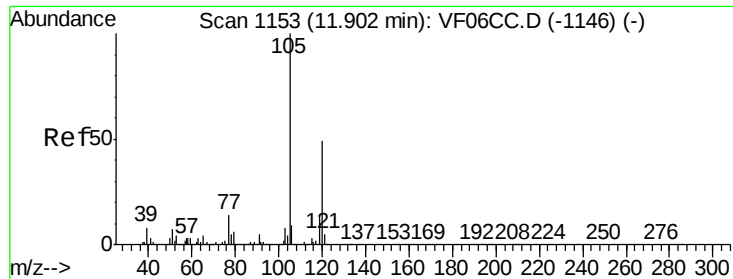
Tgt Ion: 91 Resp: 35803

Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.3#





#80

1,3,5-Trimethylbenzene

Concen: 6.067 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. 0.00 min

Lab File: VF062888.D

Acq: 6 Jun 2019 17:51

Instrument :

MSVOA_F

ClientSampleId :

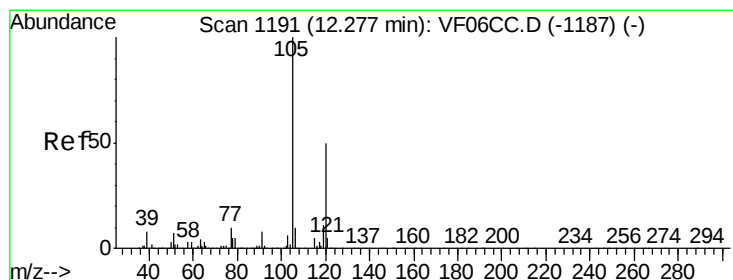
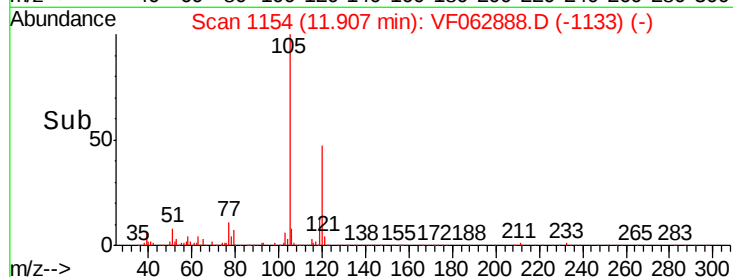
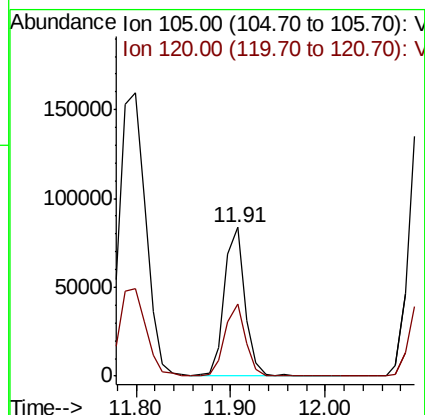
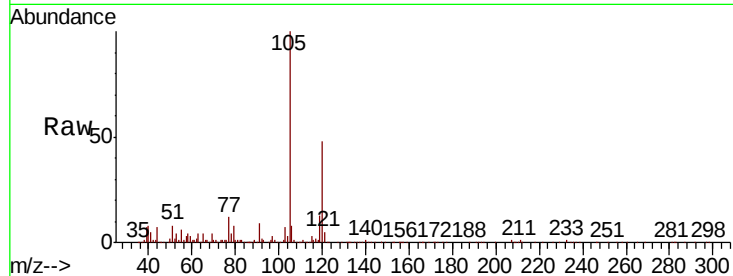
EO-02-060619-B

Tot Ion:105 Resp: 125577

Ion Ratio Lower Upper

105 100

120 48.4 28.7 86.1



#84

1,2,4-Trimethylbenzene

Concen: 14.161 ug/l

RT: 12.28 min Scan# 1192

Delta R.T. 0.00 min

Lab File: VF062888.D

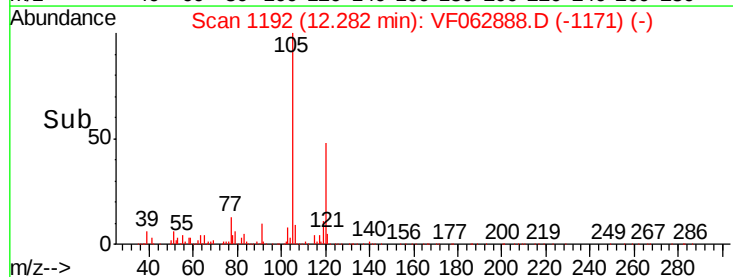
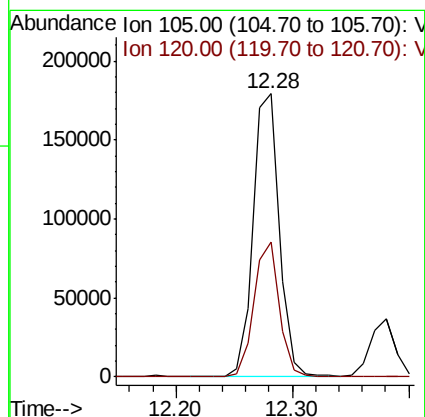
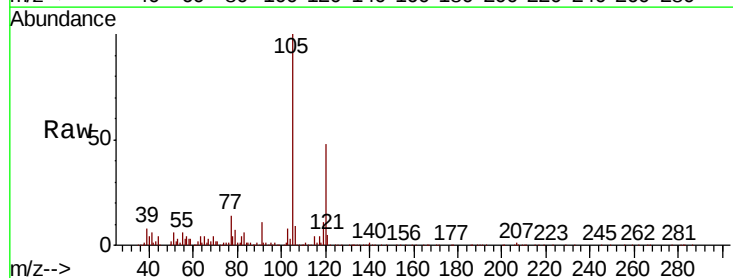
Acq: 6 Jun 2019 17:51

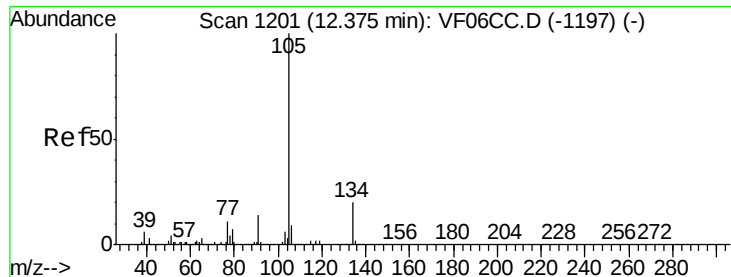
Tgt Ion:105 Resp: 277882

Ion Ratio Lower Upper

105 100

120 47.5 27.1 81.3





#85

sec-Butylbenzene

Concen: 2.026 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. 0.00 min

Lab File: VF062888.D

Acq: 6 Jun 2019 17:51

Instrument :

MSVOA_F

ClientSampleId :

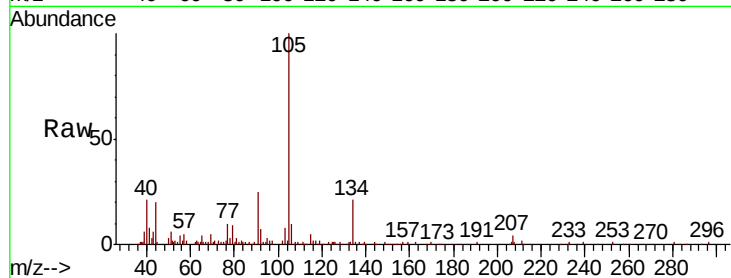
EO-02-060619-B

Tot Ion:105 Resp: 54739

Ion Ratio Lower Upper

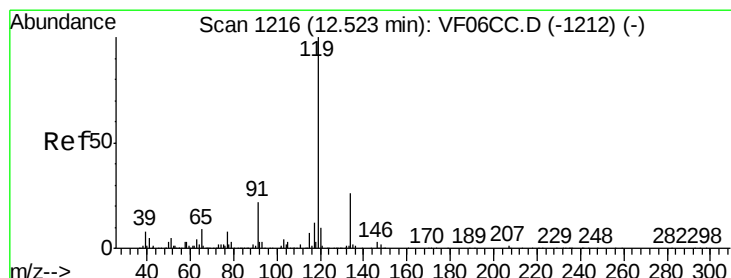
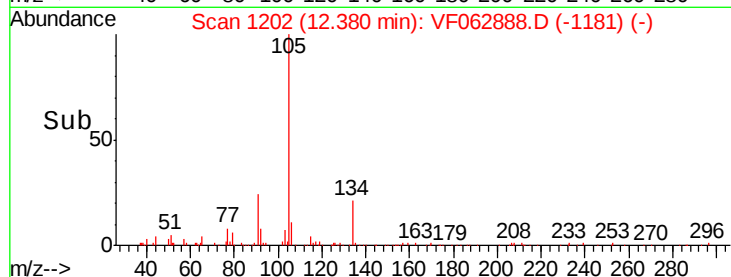
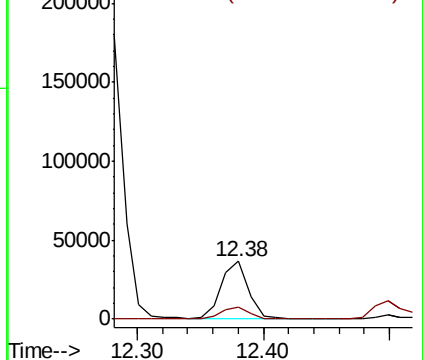
105 100

134 20.5 10.5 31.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 4.256 ug/l

RT: 12.50 min Scan# 1214

Delta R.T. -0.04 min

Lab File: VF062888.D

Acq: 6 Jun 2019 17:51

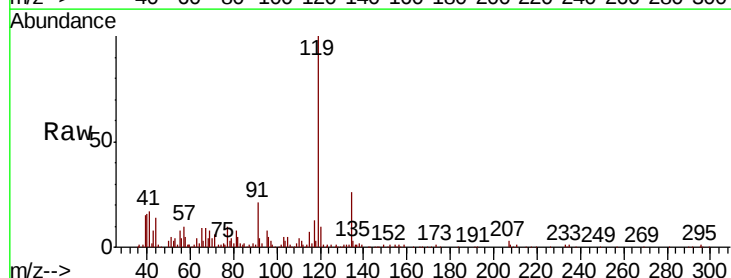
Tgt Ion:119 Resp: 95719

Ion Ratio Lower Upper

119 100

134 26.2 15.5 46.5

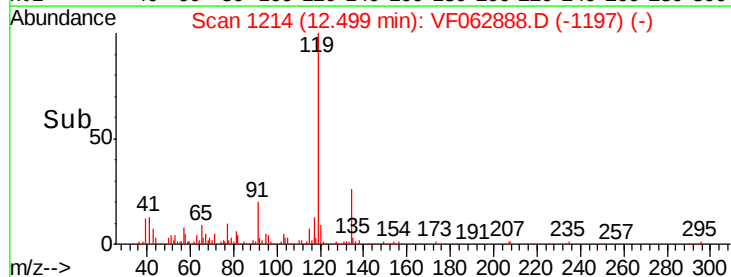
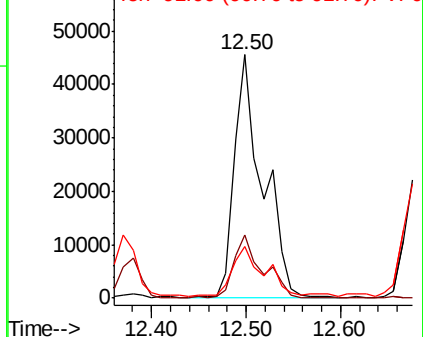
91 21.2 10.3 30.9

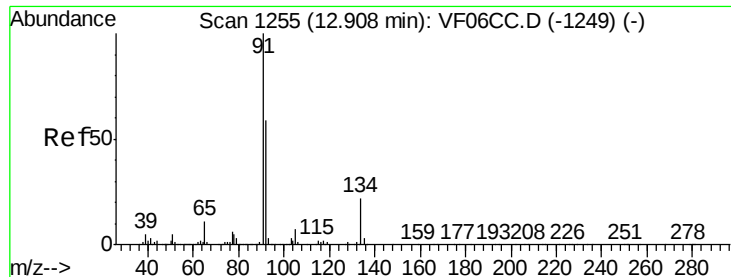


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

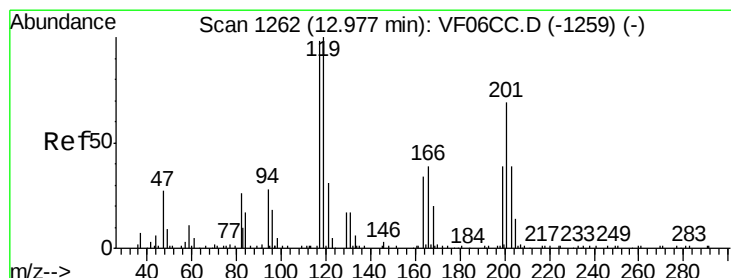
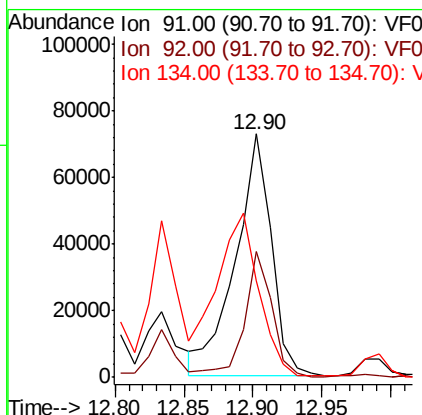
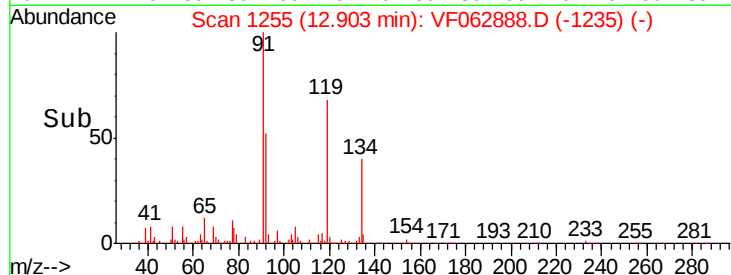
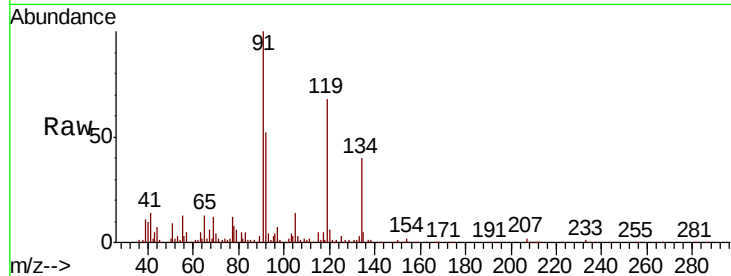




#89
n-Butylbenzene
Concen: 5.864 ug/l
RT: 12.90 min Scan# 1255
Delta R.T. -0.01 min
Lab File: VF062888.D
Acq: 6 Jun 2019 17:51

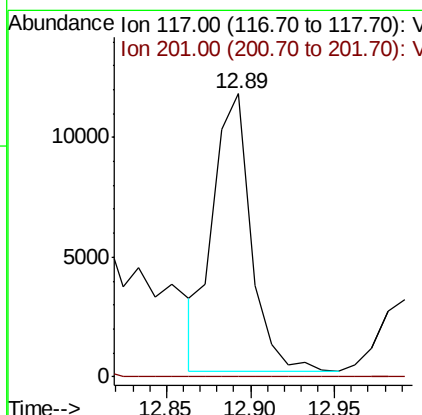
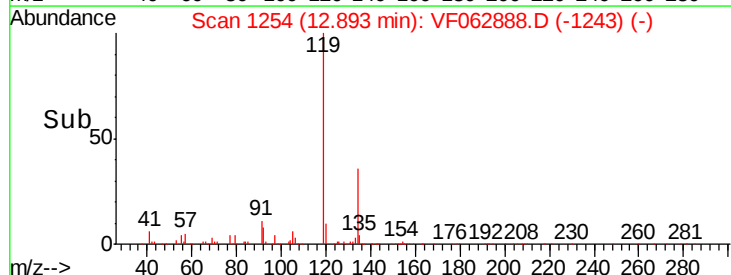
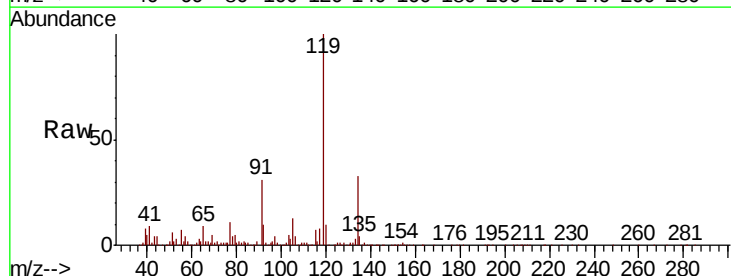
Instrument :
MSVOA_F
ClientSampleId :
EO-02-060619-B

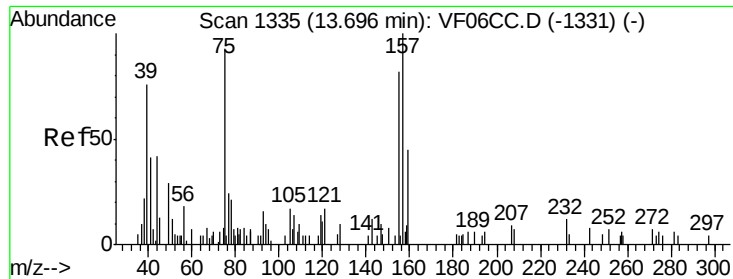
Tot Ion: 91 Resp: 132686
Ion Ratio Lower Upper
91 100
92 51.8 34.2 102.6
134 39.8 15.8 47.3



#90
Hexachloroethane
Concen: 3.314 ug/l
RT: 12.89 min Scan# 1254
Delta R.T. -0.10 min
Lab File: VF062888.D
Acq: 6 Jun 2019 17:51

Tgt Ion: 117 Resp: 18181
Ion Ratio Lower Upper
117 100
201 0.0 38.9 116.7#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.118 ug/l

RT: 13.66 min Scan# 1332

Delta R.T. -0.04 min

Lab File: VF062888.D

Acq: 6 Jun 2019 17:51

Instrument :

MSVOA_F

ClientSampleId :

EO-02-060619-B

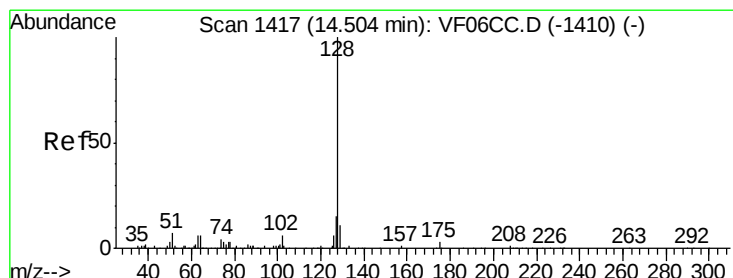
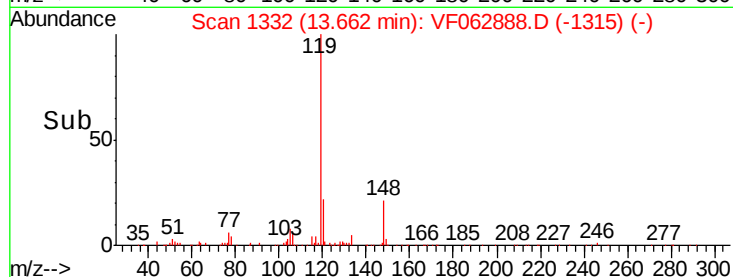
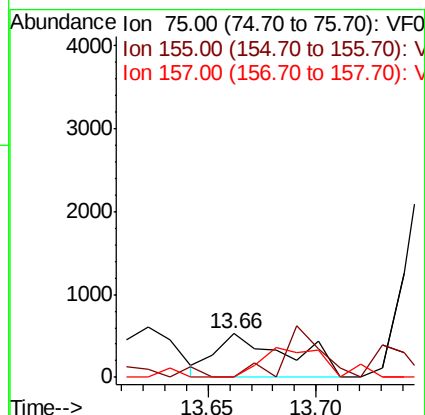
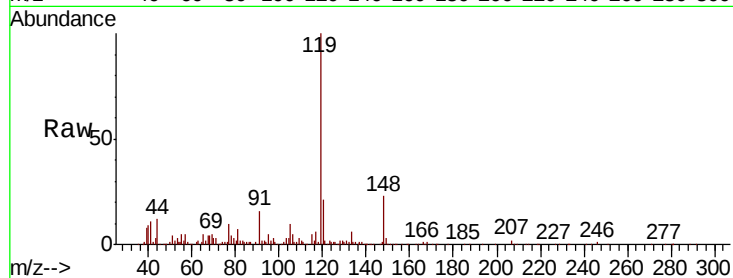
Tot Ion: 75 Resp: 1247

Ion Ratio Lower Upper

75 100

155 0.0 51.7 155.1#

157 0.0 66.8 200.6#



#95

Naphthalene

Concen: 21.044 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VF062888.D

Acq: 6 Jun 2019 17:51

Tgt Ion: 128 Resp: 233335

Ion Ratio Lower Upper

128 100

127 12.7 9.7 14.5

129 15.8 9.4 14.2#

