

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF060619\
 Data File : VF062887.D
 Acq On : 6 Jun 2019 17:23
 Operator : FY/SY
 Sample : K3160-01
 Misc : 6.35u/5mL/MSVOA F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

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

Quant Time: Jun 07 01:26:15 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	733452	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.80	114	1284043	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	929496	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	309797	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.05	65	202796	39.98	ug/l	0.00
Spiked Amount 50.000			Recovery	=	79.96%	
35) Dibromofluoromethane	4.33	113	342799	35.33	ug/l	0.00
Spiked Amount 50.000			Recovery	=	70.66%	
50) Toluene-d8	7.73	98	714539	29.12	ug/l	0.00
Spiked Amount 50.000			Recovery	=	58.24%	
62) 4-Bromofluorobenzene	11.50	95	244287	27.68	ug/l	0.00
Spiked Amount 50.000			Recovery	=	55.36%	

Target Compounds

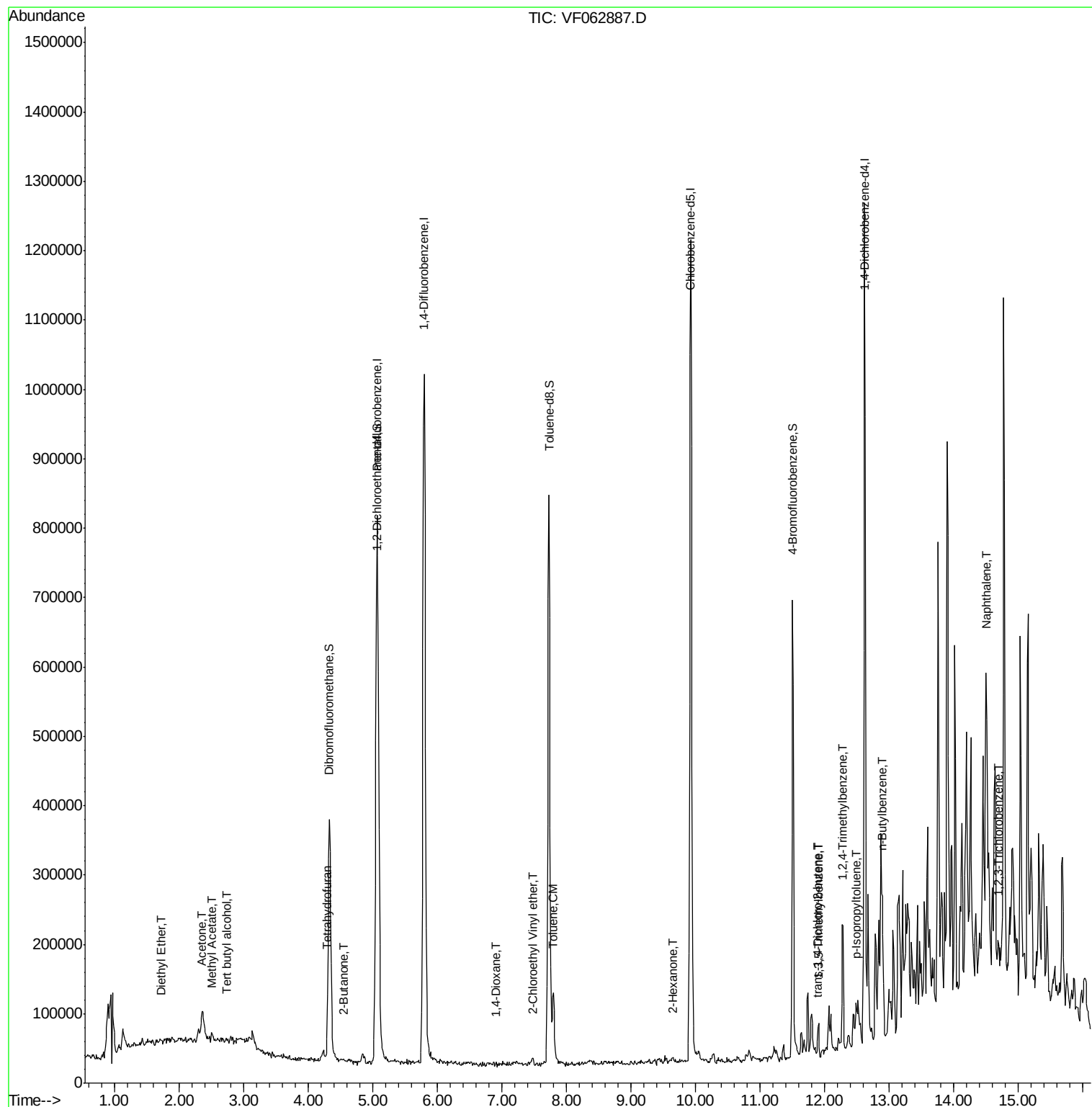
					Qvalue
2) Dichlorodifluoromethane	0.89	85	519	Below Cal	71
8) Diethyl Ether	1.73	74	2179	1.037 ug/l #	42
11) Tert butyl alcohol	2.72	59	2448	7.967 ug/l #	1
13) Acrolein	1.96	56	590	Below Cal	86
16) Acetone	2.37	43	37793	32.557 ug/l	92
18) Methyl Acetate	2.49	43	5395	2.660 ug/l #	76
25) 2-Butanone	4.56	43	8336	3.084 ug/l	93
29) Tetrahydrofuran	4.29	42	1961	1.897 ug/l #	67
49) 1,4-Dioxane	6.91	88	881	21.727 ug/l #	34
52) Toluene	7.80	92	53892	2.908 ug/l	82
58) 2-Chloroethyl Vinyl ether	7.47	63	2902	1.398 ug/l	93
59) 2-Hexanone	9.65	43	8094	2.665 ug/l	81
80) 1,3,5-Trimethylbenzene	11.90	105	22065	1.248 ug/l	83
81) trans-1,4-Dichloro-2-buten	11.88	75	1451	1.120 ug/l	92
84) 1,2,4-Trimethylbenzene	12.28	105	73945	4.412 ug/l	97
86) p-Isopropyltoluene	12.50	119	28816	1.500 ug/l	84
89) n-Butylbenzene	12.90	91	44739	2.315 ug/l	78
95) Naphthalene	14.50	128	129877	13.714 ug/l #	90
96) 1,2,3-Trichlorobenzene	14.68	180	5847	1.108 ug/l #	1

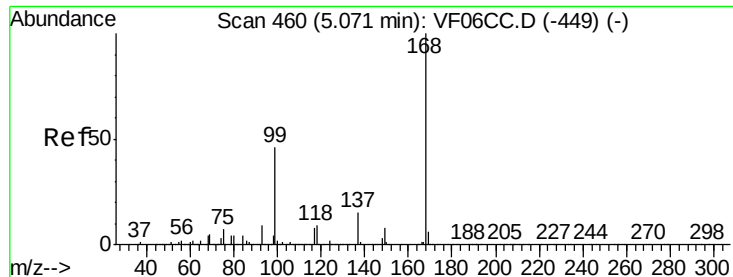
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. 0.00 min

Lab File: VF062887.D

Acq: 6 Jun 2019 17:23

Instrument :

MSVOA_F

ClientSampleId :

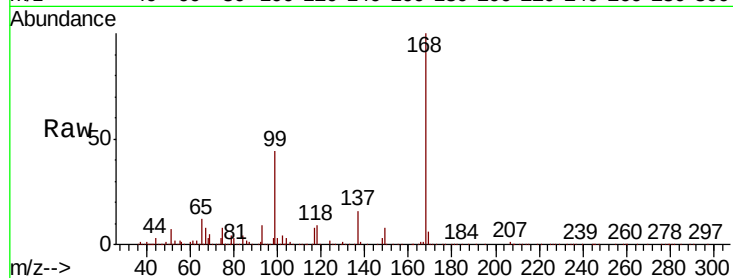
EO-02-060619-A

Tot Ion:168 Resp: 733452

Ion Ratio Lower Upper

168 100

99 44.4 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

250000

200000

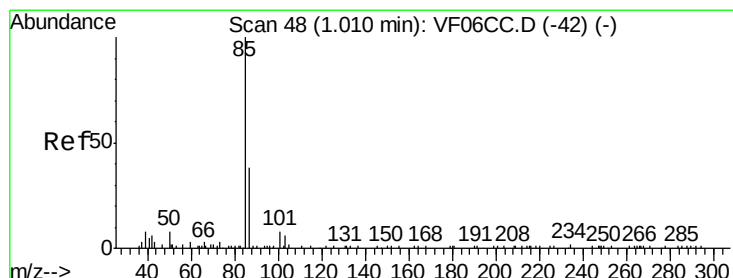
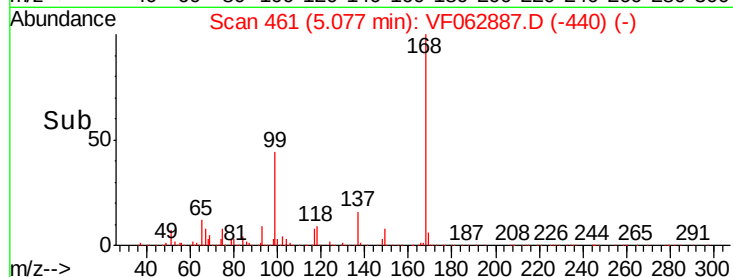
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.89 min Scan# 36

Delta R.T. -0.12 min

Lab File: VF062887.D

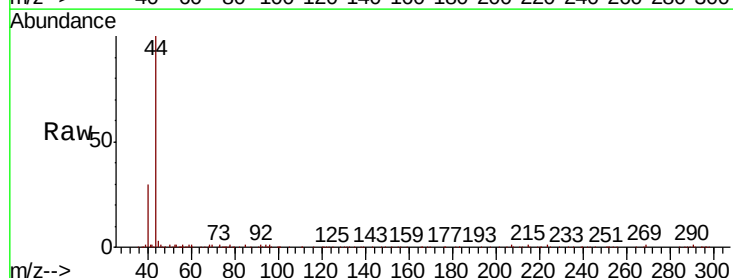
Acq: 6 Jun 2019 17:23

Tgt Ion: 85 Resp: 519

Ion Ratio Lower Upper

85 100

87 51.9 17.6 52.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.89

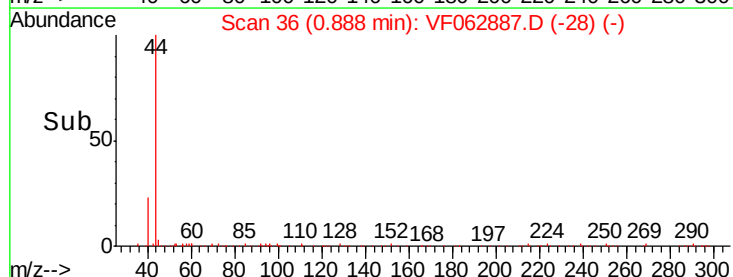
300

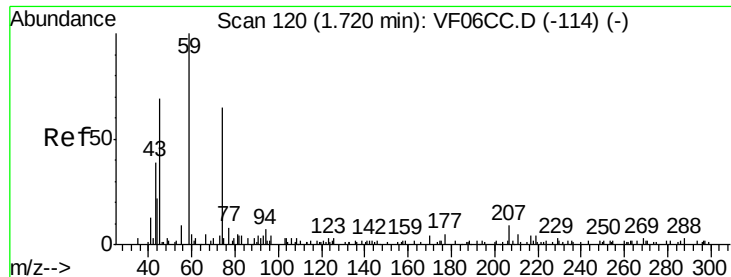
200

100

0

Time-->





#8

Diethyl Ether

Concen: 1.037 ug/l

RT: 1.73 min Scan# 121

Delta R.T. 0.00 min

Lab File: VF062887.D

Acq: 6 Jun 2019 17:23

Instrument :

MSVOA_F

ClientSampleId :

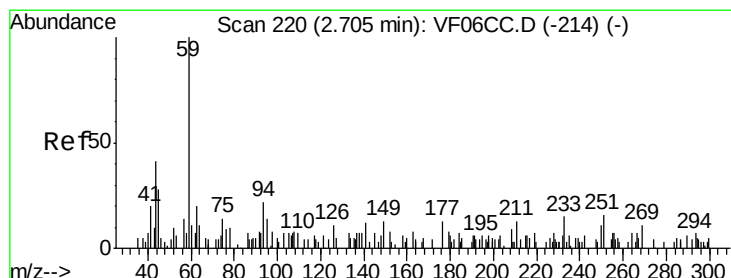
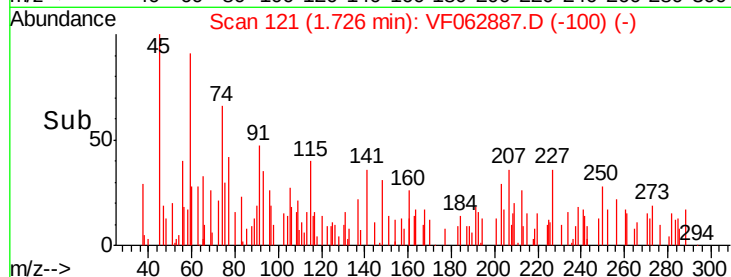
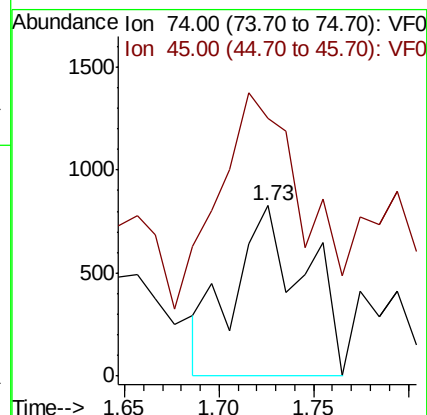
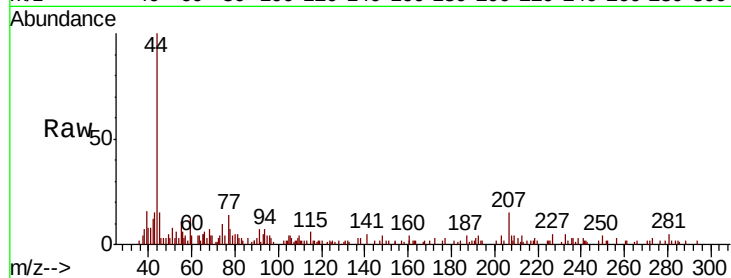
EO-02-060619-A

Tot Ion: 74 Resp: 2179

Ion Ratio Lower Upper

74 100

45 151.6 47.5 142.5#



#11

Tert butyl alcohol

Concen: 7.967 ug/l

RT: 2.72 min Scan# 222

Delta R.T. 0.00 min

Lab File: VF062887.D

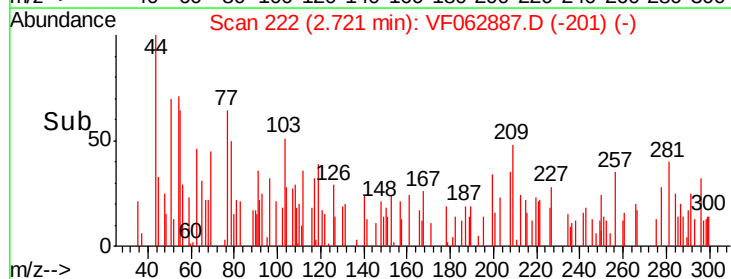
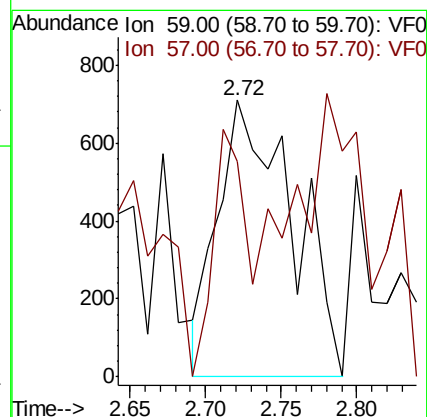
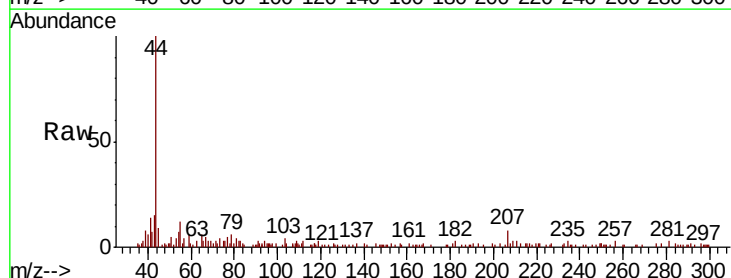
Acq: 6 Jun 2019 17:23

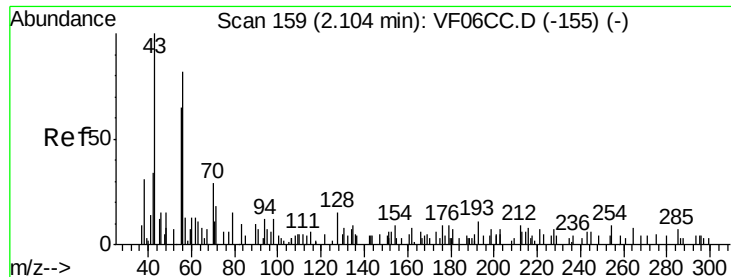
Tgt Ion: 59 Resp: 2448

Ion Ratio Lower Upper

59 100

57 77.7 9.2 13.8#

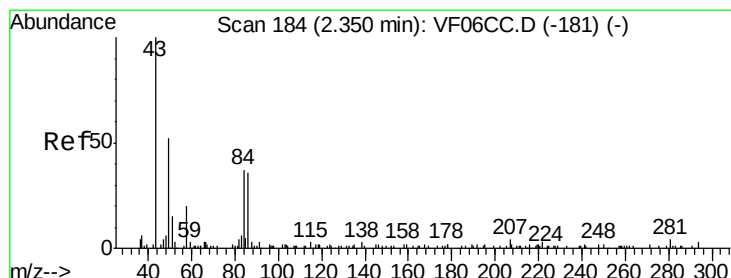
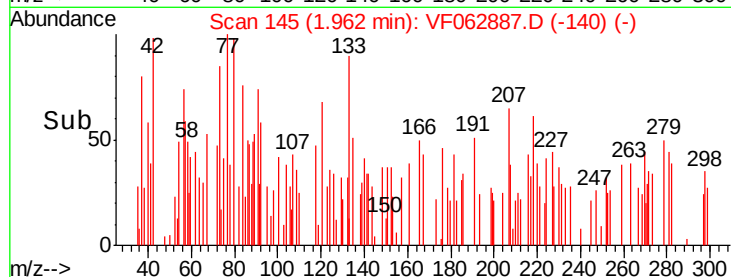
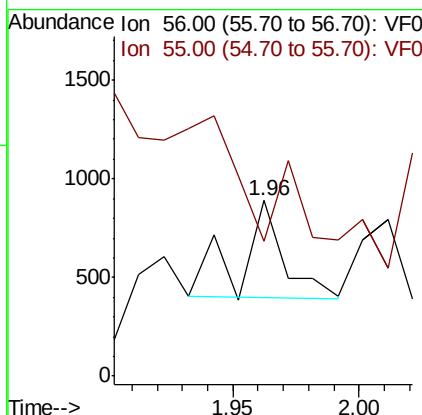
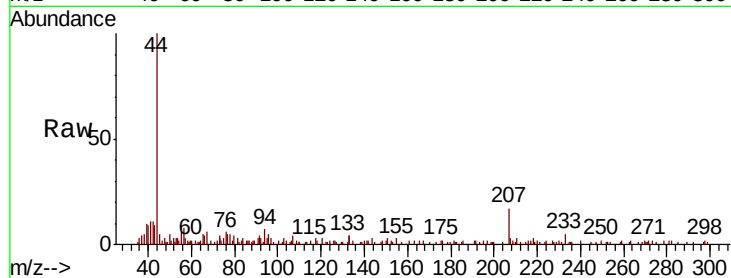




#13
Acrolein
Concen: Below Cal
RT: 1.96 min Scan# 145
Delta R.T. -0.15 min
Lab File: VF062887.D
Acq: 6 Jun 2019 17:23

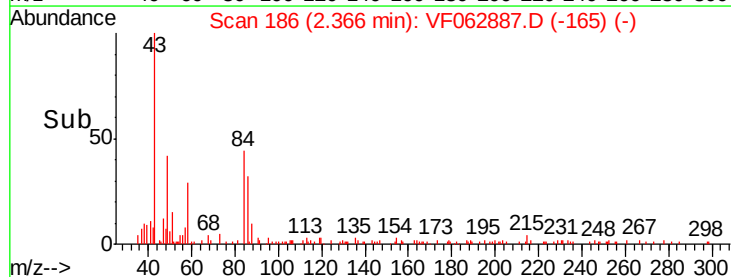
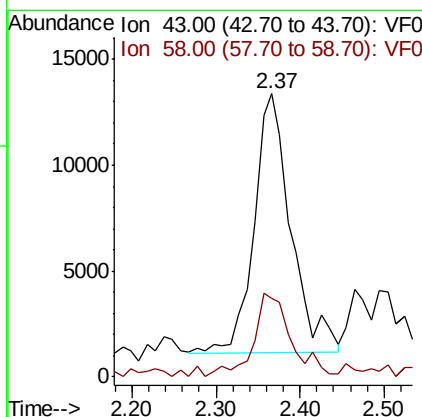
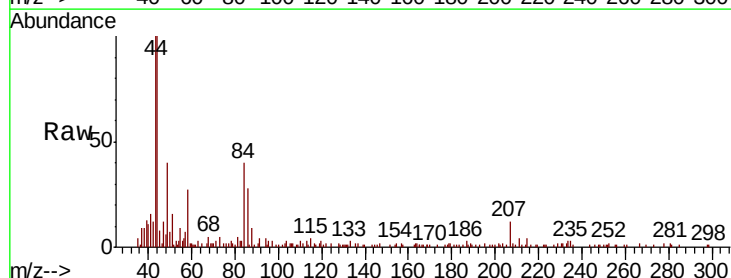
Instrument :
MSVOA_F
ClientSampleId :
EO-02-060619-A

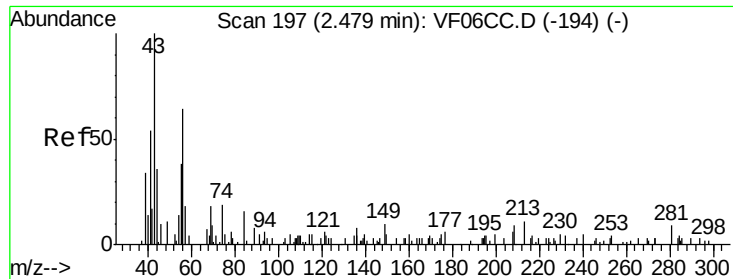
Tot Ion: 56 Resp: 590
Ion Ratio Lower Upper
56 100
55 76.9 52.9 79.3



#16
Acetone
Concen: 32.557 ug/l
RT: 2.37 min Scan# 186
Delta R.T. 0.00 min
Lab File: VF062887.D
Acq: 6 Jun 2019 17:23

Tgt Ion: 43 Resp: 37793
Ion Ratio Lower Upper
43 100
58 27.6 19.0 28.4

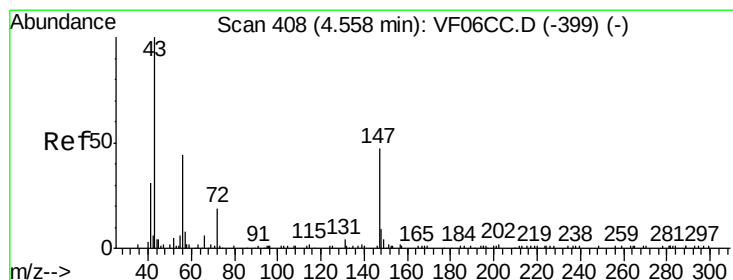
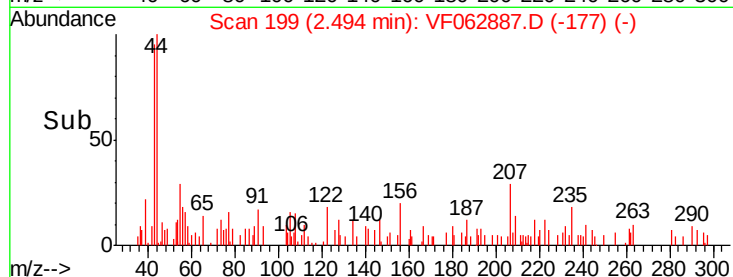
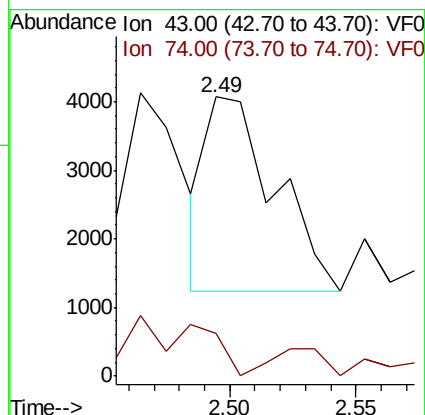
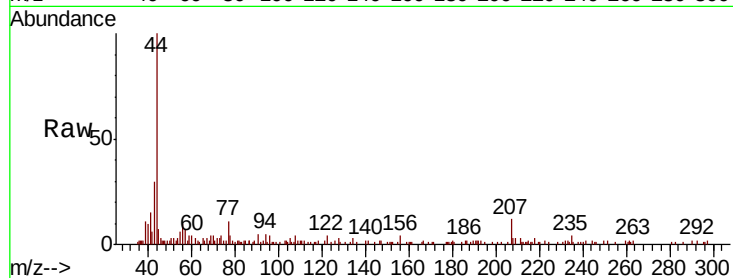




#18
Methyl Acetate
Concen: 2.660 ug/l
RT: 2.49 min Scan# 199
Delta R.T. 0.01 min
Lab File: VF062887.D
Acq: 6 Jun 2019 17:23

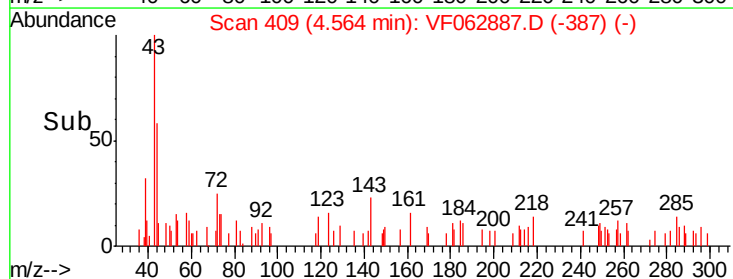
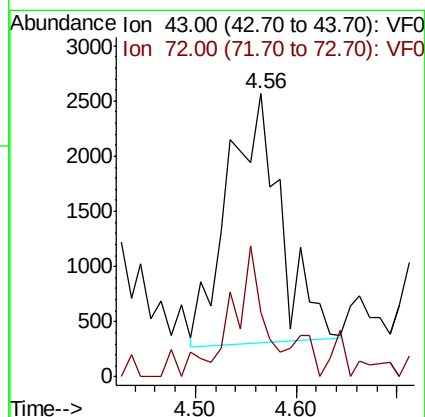
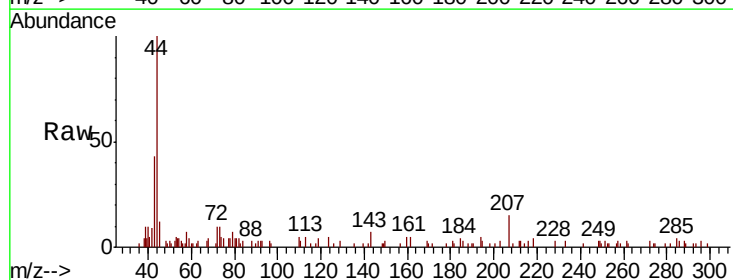
Instrument :
MSVOA_F
ClientSampleId :
EO-02-060619-A

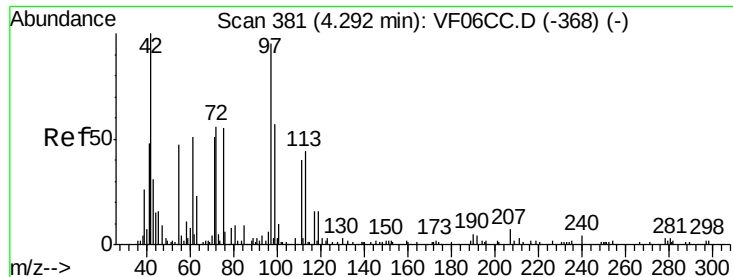
Tot Ion: 43 Resp: 5395
Ion Ratio Lower Upper
43 100
74 15.1 22.1 33.1#



#25
2-Butanone
Concen: 3.084 ug/l
RT: 4.56 min Scan# 409
Delta R.T. 0.01 min
Lab File: VF062887.D
Acq: 6 Jun 2019 17:23

Tgt Ion: 43 Resp: 8336
Ion Ratio Lower Upper
43 100
72 23.0 21.4 32.0





#29

Tetrahydrofuran

Concen: 1.897 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF062887.D

Acq: 6 Jun 2019 17:23

Instrument :

MSVOA_F

ClientSampleId :

EO-02-060619-A

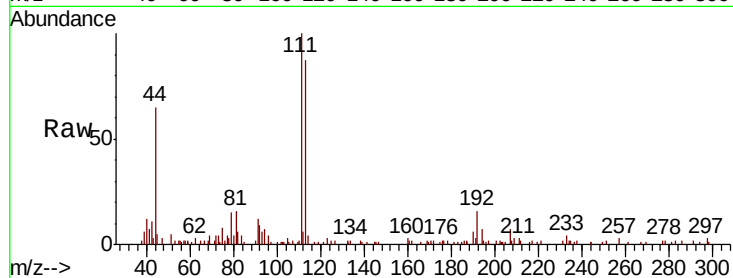
Tot Ion: 42 Resp: 1961

Ion Ratio Lower Upper

42 100

72 83.9 39.0 58.6#

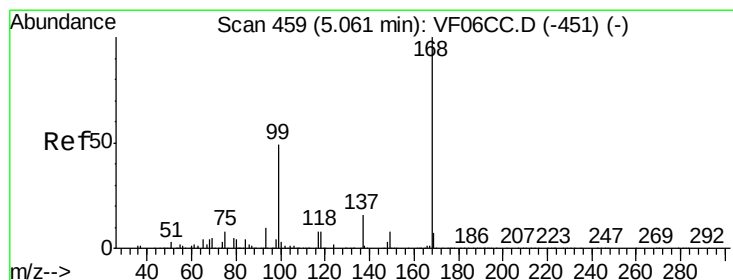
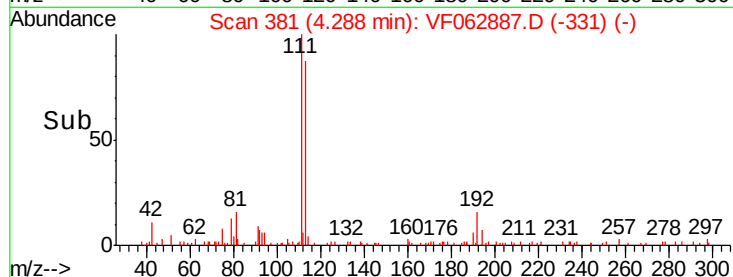
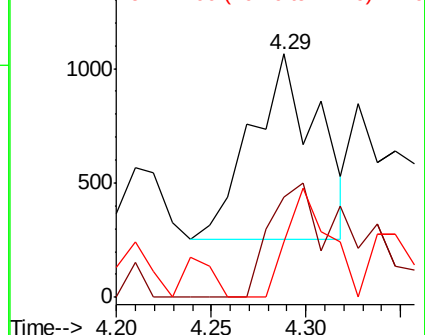
71 37.7 36.9 55.3



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 39.984 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.01 min

Lab File: VF062887.D

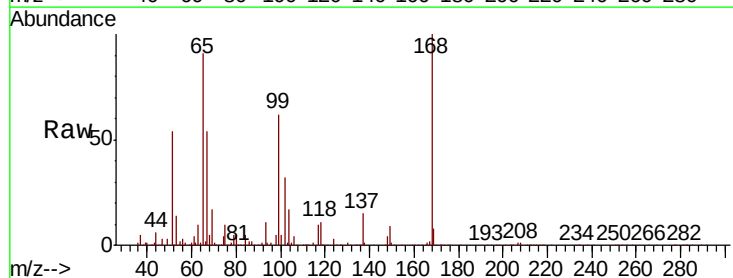
Acq: 6 Jun 2019 17:23

Tgt Ion: 65 Resp: 202796

Ion Ratio Lower Upper

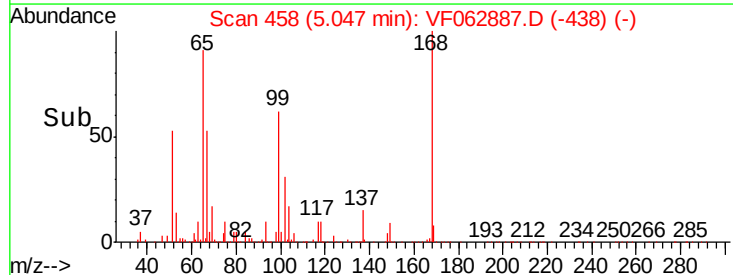
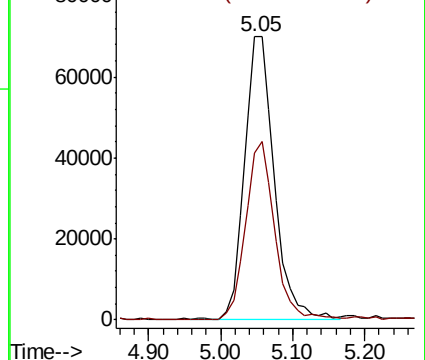
65 100

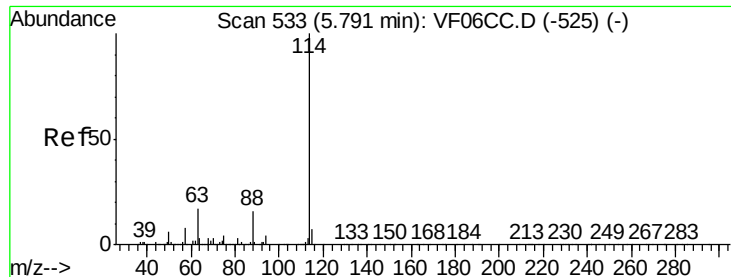
67 58.8 0.0 121.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

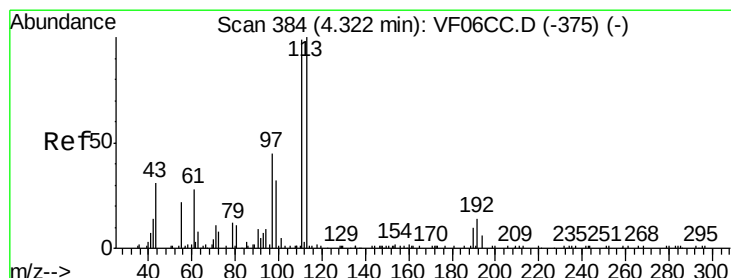
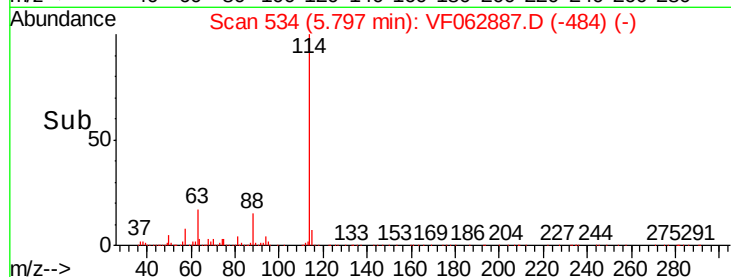
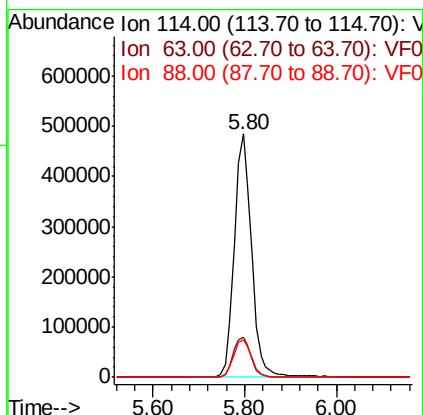
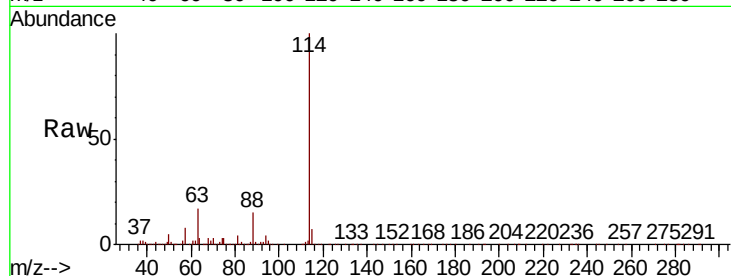




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.80 min Scan# 534
Delta R.T. -0.01 min
Lab File: VF062887.D
Acq: 6 Jun 2019 17:23

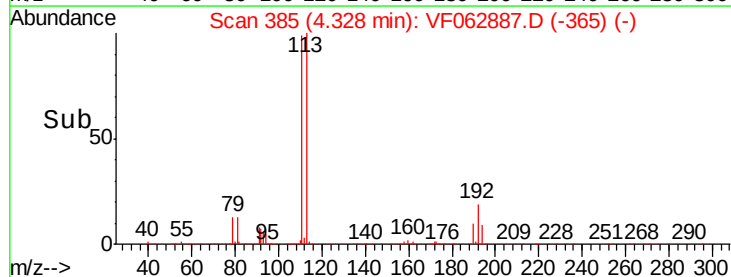
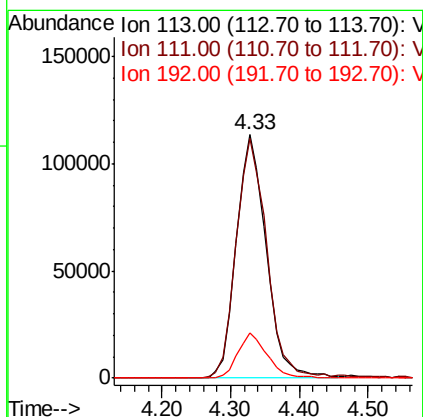
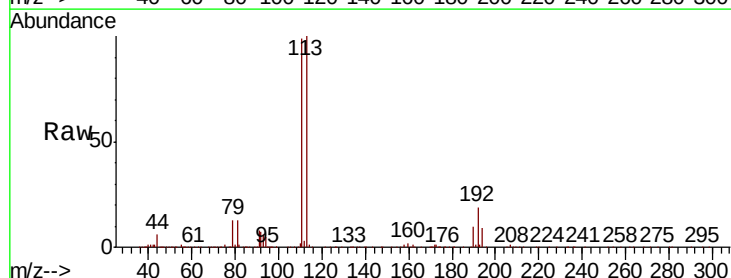
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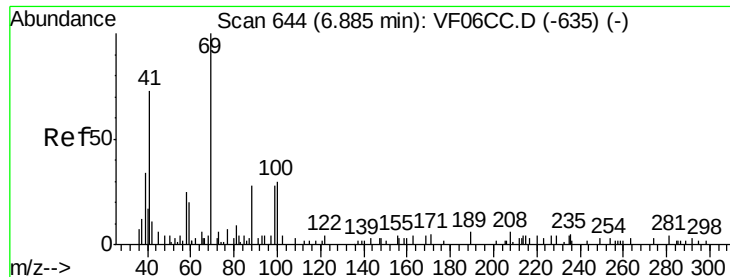
Tot Ion:114 Resp: 1284043
Ion Ratio Lower Upper
114 100
63 16.6 0.0 34.2
88 15.4 0.0 31.2



#35
Dibromofluoromethane
Concen: 35.330 ug/l
RT: 4.33 min Scan# 385
Delta R.T. -0.01 min
Lab File: VF062887.D
Acq: 6 Jun 2019 17:23

Tgt Ion:113 Resp: 342799
Ion Ratio Lower Upper
113 100
111 98.7 81.9 122.9
192 18.6 15.1 22.7





#49

1,4-Dioxane

Concen: 21.727 ug/l

RT: 6.91 min Scan# 647

Delta R.T. 0.02 min

Lab File: VF062887.D

Acq: 6 Jun 2019 17:23

Instrument :

MSVOA_F

ClientSampleId :

EO-02-060619-A

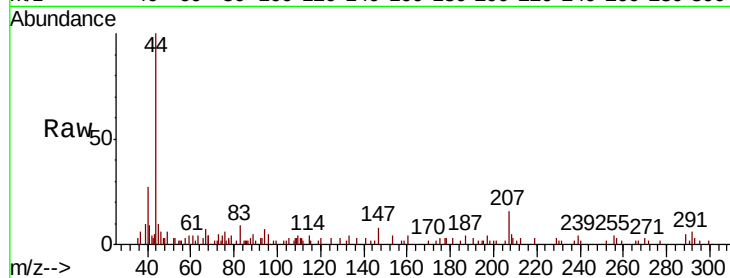
Tot Ion: 88 Resp: 881

Ion Ratio Lower Upper

88 100

43 62.2 34.8 52.2#

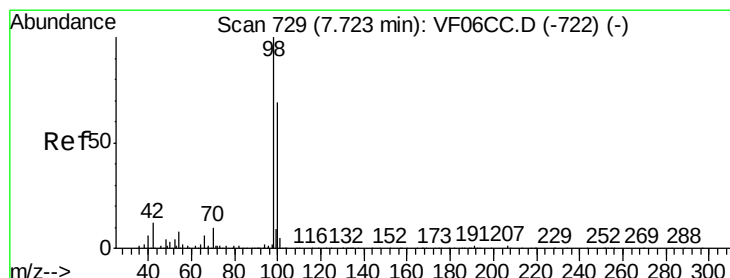
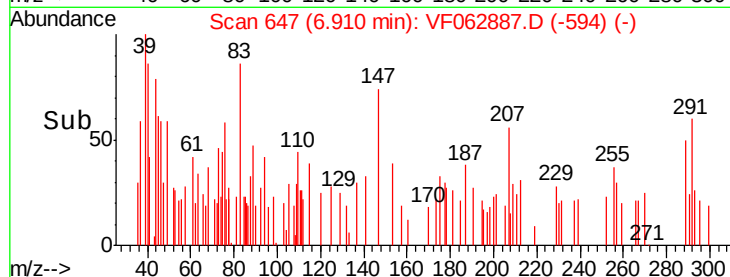
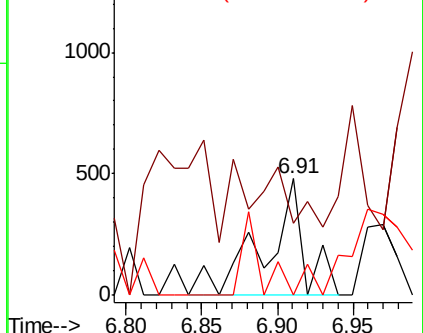
58 0.0 59.9 89.9#



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: 29.122 ug/l

RT: 7.73 min Scan# 730

Delta R.T. -0.01 min

Lab File: VF062887.D

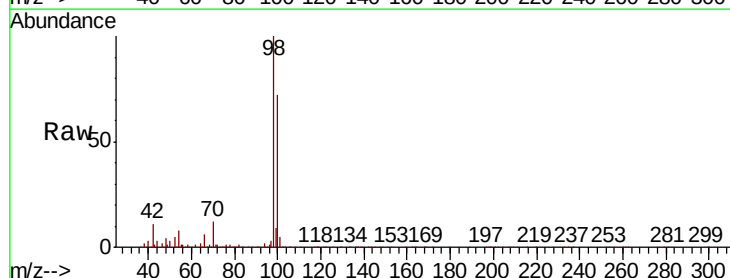
Acq: 6 Jun 2019 17:23

Tgt Ion: 98 Resp: 714539

Ion Ratio Lower Upper

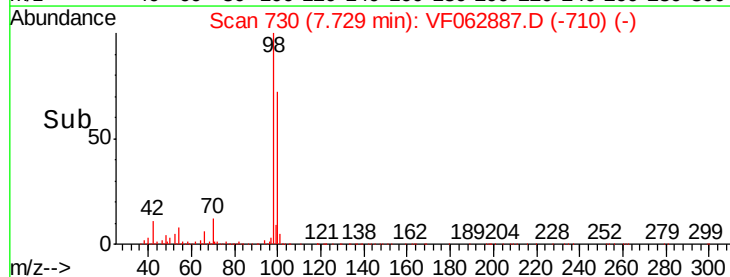
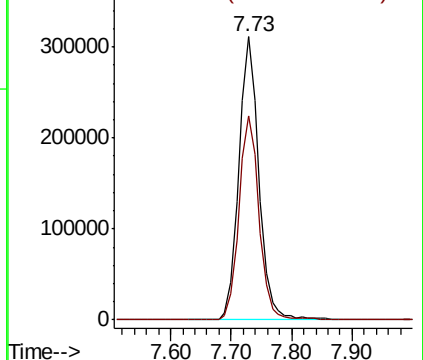
98 100

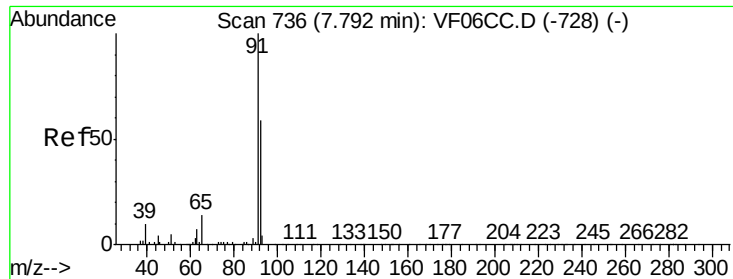
100 72.2 59.8 89.8



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#52

Toluene

Concen: 2.908 ug/l

RT: 7.80 min Scan# 737

Delta R.T. -0.01 min

Lab File: VF062887.D

Acq: 6 Jun 2019 17:23

Instrument :

MSVOA_F

ClientSampleId :

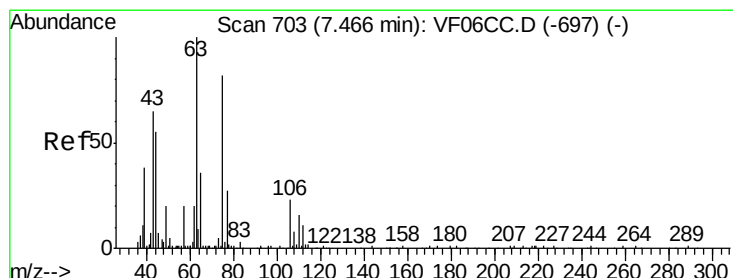
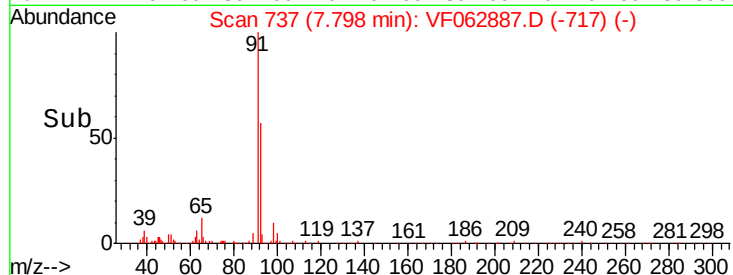
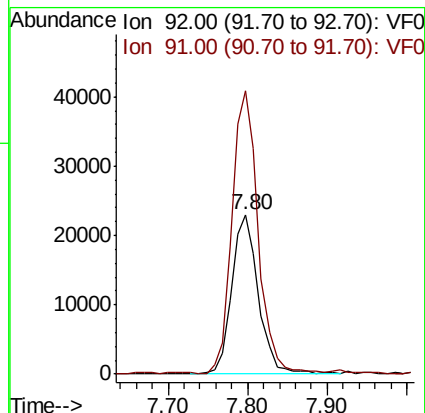
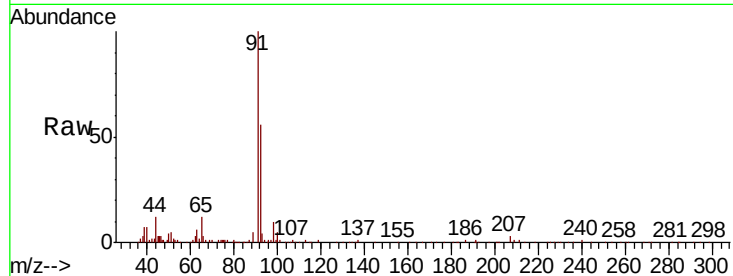
EO-02-060619-A

Tot Ion: 92 Resp: 53892

Ion Ratio Lower Upper

92 100

91 177.1 123.2 184.8



#58

2-Chloroethyl Vinyl ether

Concen: 1.398 ug/l

RT: 7.47 min Scan# 704

Delta R.T. 0.00 min

Lab File: VF062887.D

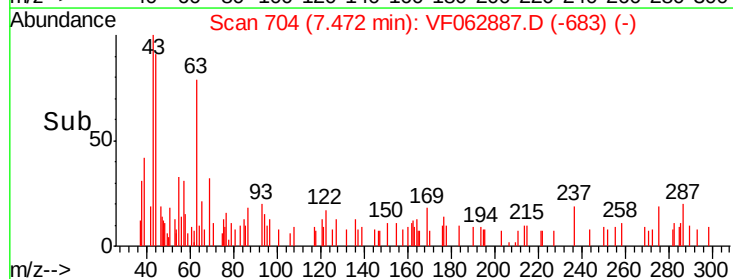
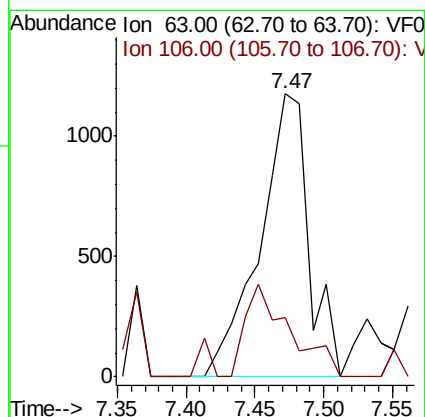
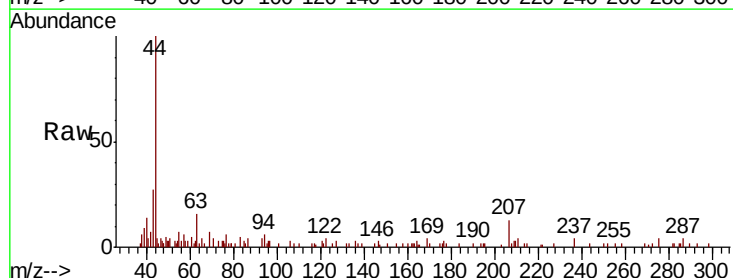
Acq: 6 Jun 2019 17:23

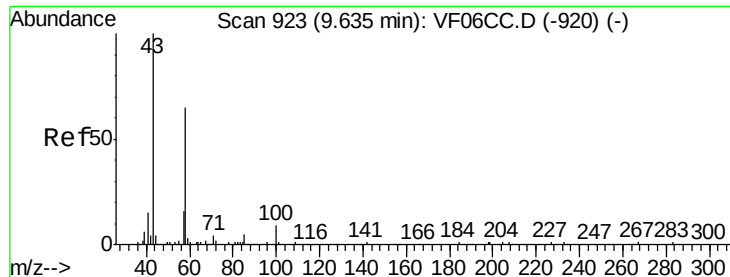
Tgt Ion: 63 Resp: 2902

Ion Ratio Lower Upper

63 100

106 21.1 19.5 29.3

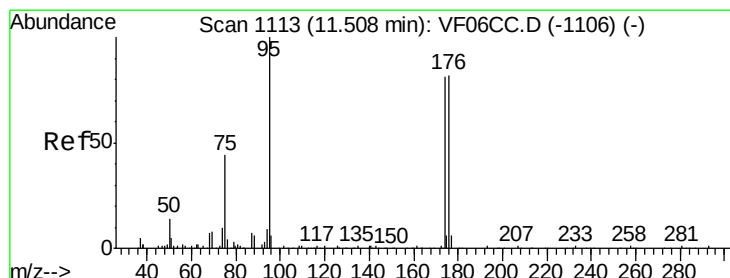
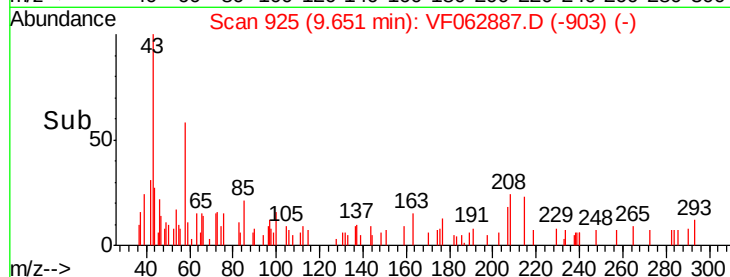
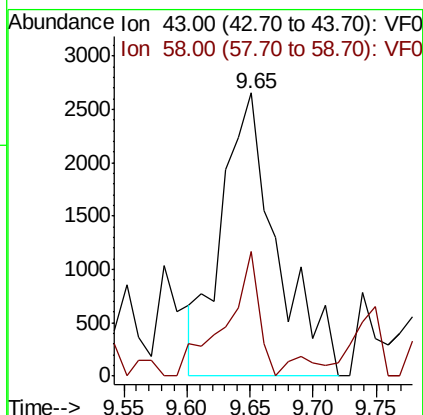
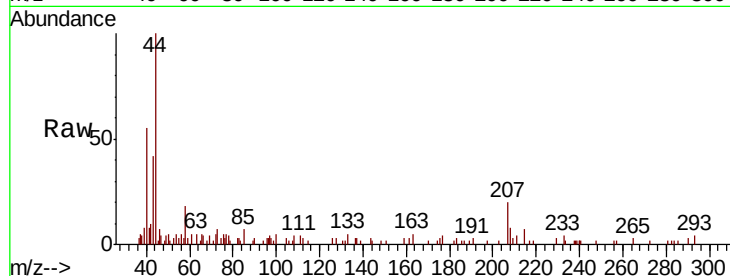




#59
2-Hexanone
Concen: 2.665 ug/l
RT: 9.65 min Scan# 925
Delta R.T. 0.01 min
Lab File: VF062887.D
Acq: 6 Jun 2019 17:23

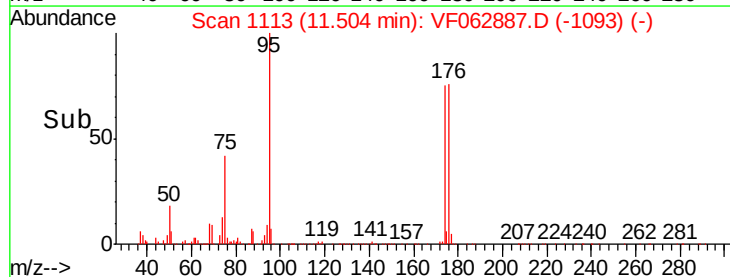
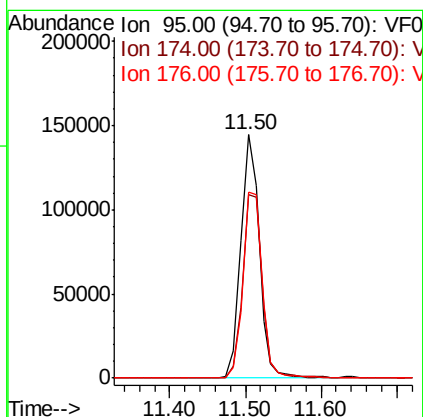
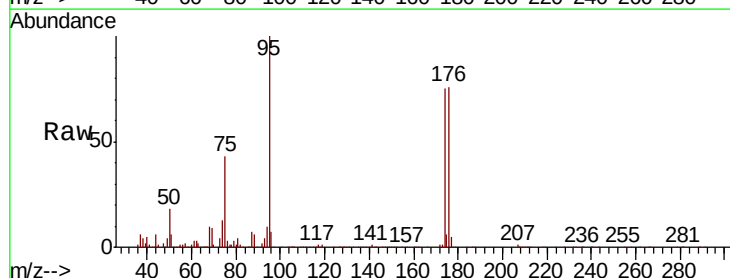
Instrument :
MSVOA_F
ClientSampleId :
EO-02-060619-A

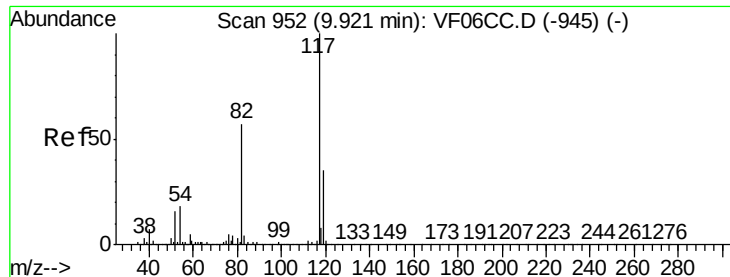
Tot Ion: 43 Resp: 8094
Ion Ratio Lower Upper
43 100
58 44.0 29.3 87.9



#62
4-Bromofluorobenzene
Concen: 27.678 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. -0.01 min
Lab File: VF062887.D
Acq: 6 Jun 2019 17:23

Tgt Ion: 95 Resp: 244287
Ion Ratio Lower Upper
95 100
174 75.1 0.0 170.6
176 76.5 0.0 170.6

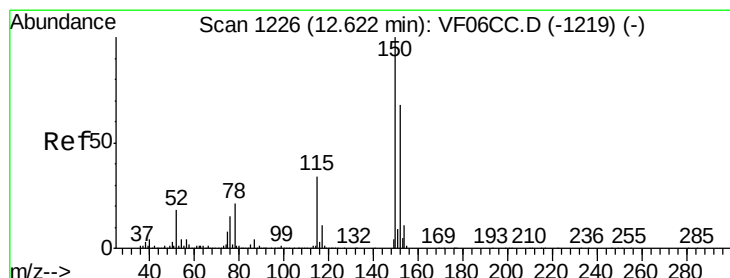
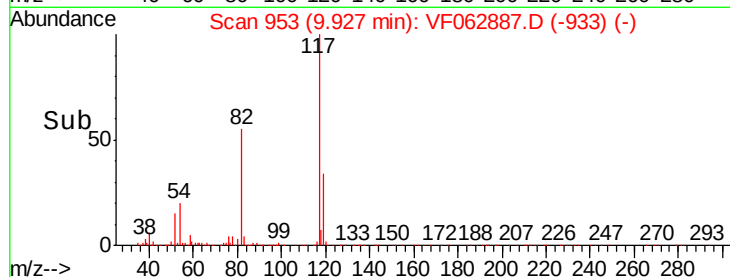
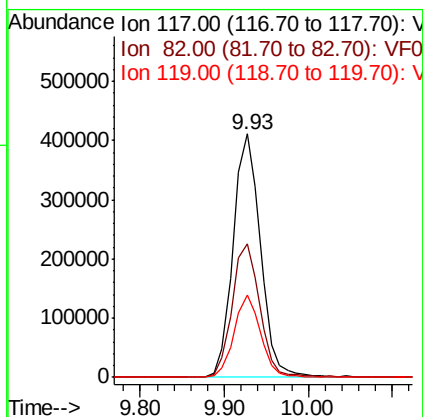
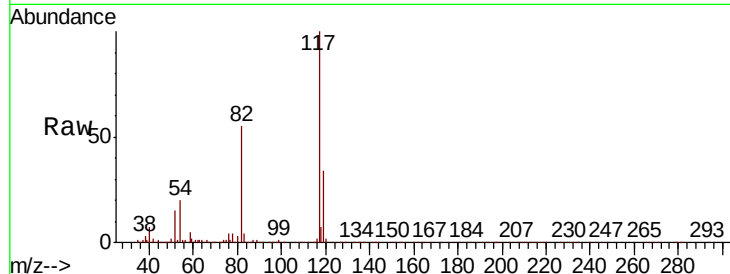




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 953
Delta R.T. -0.01 min
Lab File: VF062887.D
Acq: 6 Jun 2019 17:23

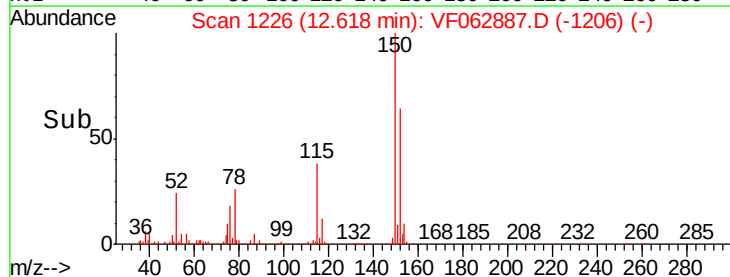
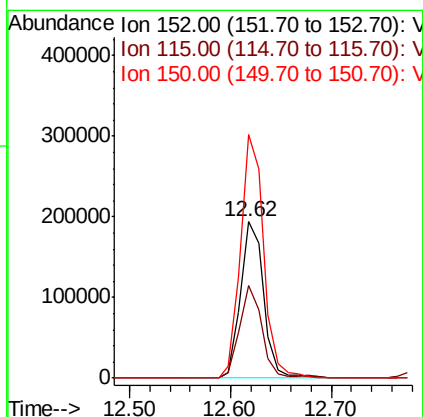
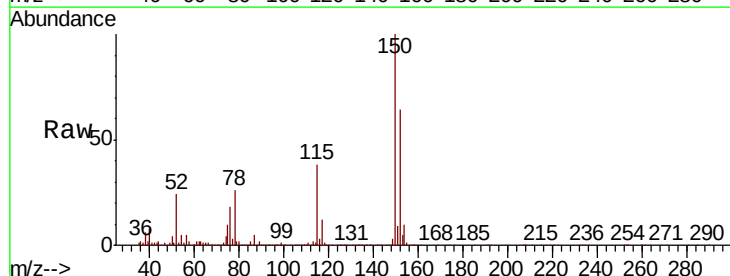
Instrument :
MSVOA_F
ClientSampleId :
EO-02-060619-A

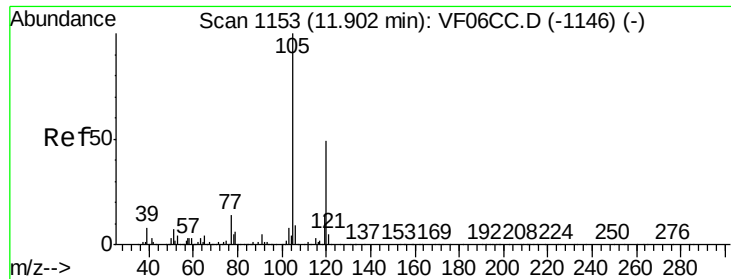
Tot Ion:117 Resp: 929496
Ion Ratio Lower Upper
117 100
82 54.9 42.4 63.6
119 33.6 27.1 40.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. -0.01 min
Lab File: VF062887.D
Acq: 6 Jun 2019 17:23

Tgt Ion:152 Resp: 309797
Ion Ratio Lower Upper
152 100
115 59.5 24.6 74.0
150 156.0 0.0 290.6





#80

1,3,5-Trimethylbenzene

Concen: 1.248 ug/l

RT: 11.90 min Scan# 1153

Delta R.T. -0.01 min

Lab File: VF062887.D

Acq: 6 Jun 2019 17:23

Instrument :

MSVOA_F

ClientSampleId :

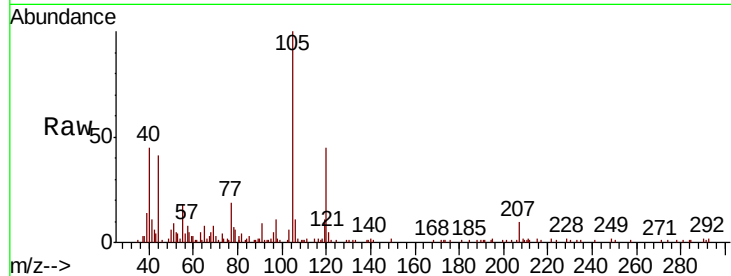
EO-02-060619-A

Tot Ion:105 Resp: 22065

Ion Ratio Lower Upper

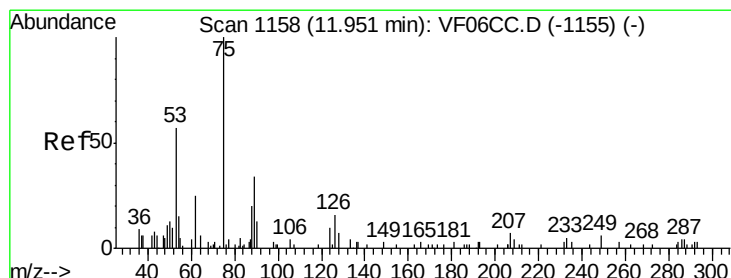
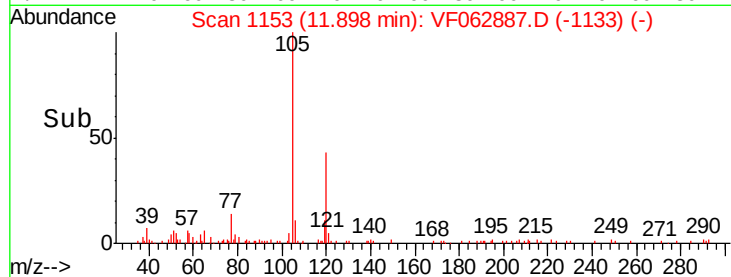
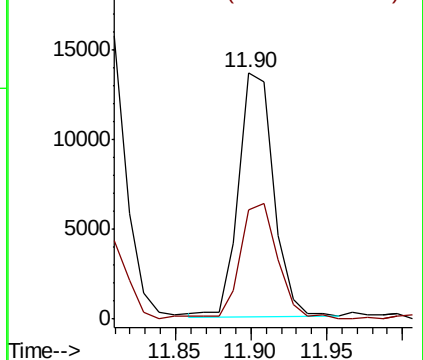
105 100

120 44.6 28.7 86.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 1.120 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. -0.07 min

Lab File: VF062887.D

Acq: 6 Jun 2019 17:23

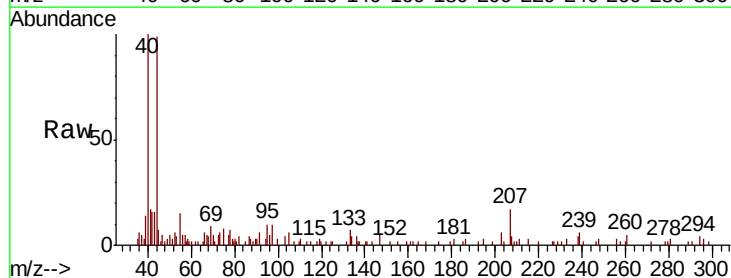
Tgt Ion: 75 Resp: 1451

Ion Ratio Lower Upper

75 100

53 49.6 43.5 65.3

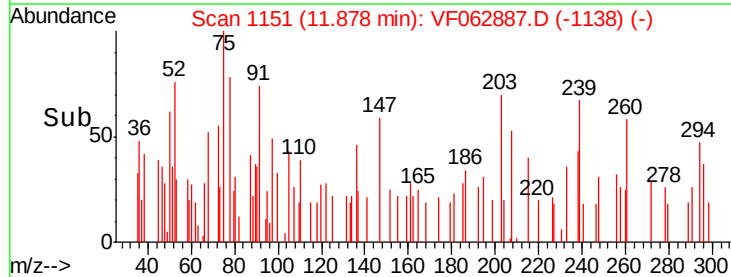
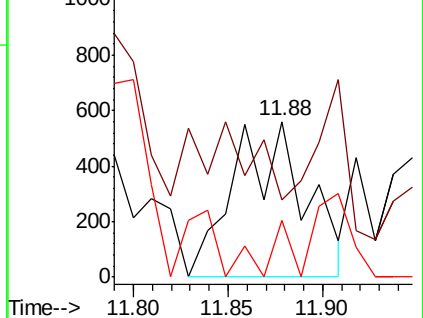
89 36.6 34.3 51.5

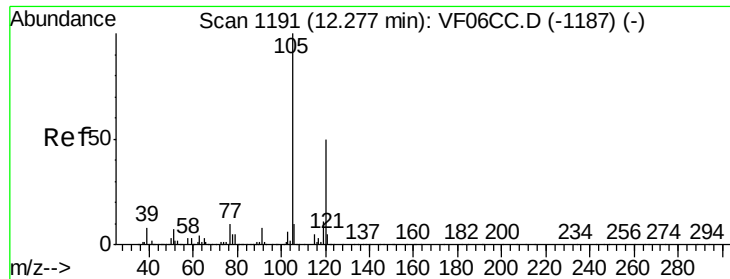


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0





#84

1,2,4-Trimethylbenzene

Concen: 4.412 ug/l

RT: 12.28 min Scan# 1192

Delta R.T. 0.00 min

Lab File: VF062887.D

Acq: 6 Jun 2019 17:23

Instrument :

MSVOA_F

ClientSampleId :

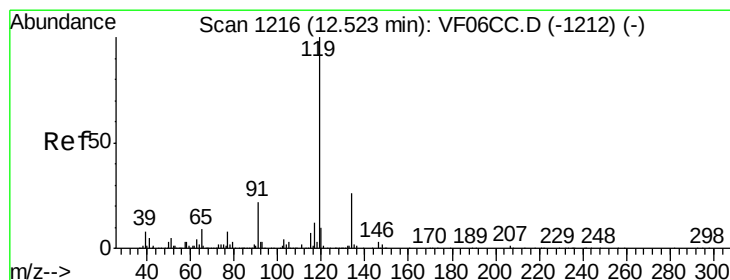
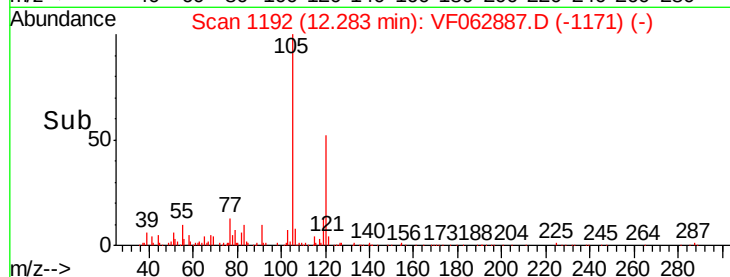
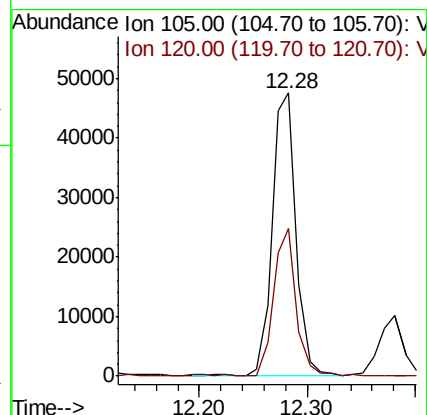
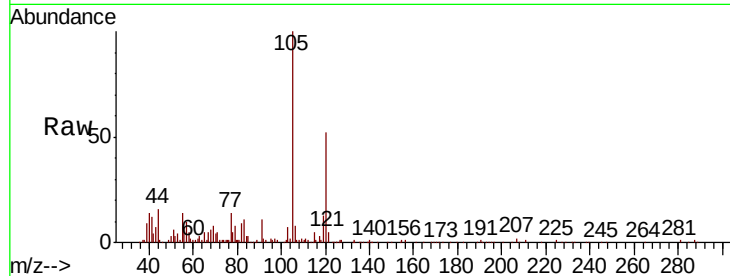
EO-02-060619-A

Tot Ion:105 Resp: 73945

Ion Ratio Lower Upper

105 100

120 52.1 27.1 81.3



#86

p-Isopropyltoluene

Concen: 1.500 ug/l

RT: 12.50 min Scan# 1214

Delta R.T. -0.04 min

Lab File: VF062887.D

Acq: 6 Jun 2019 17:23

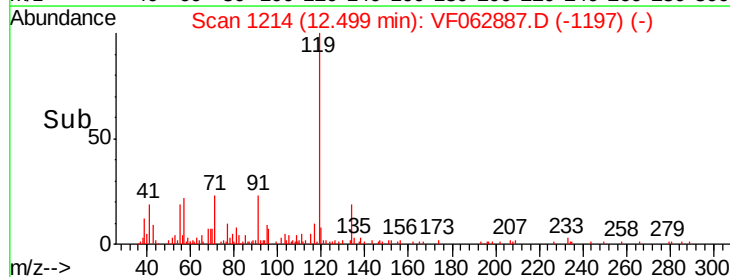
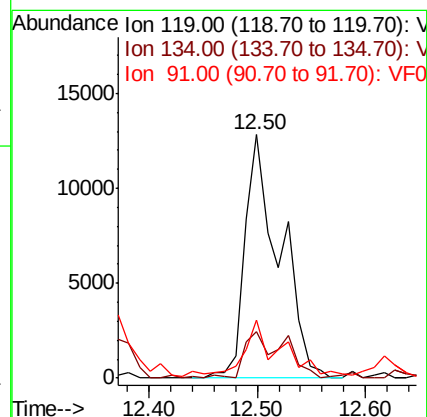
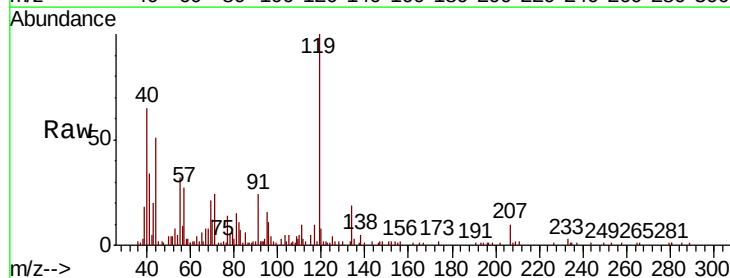
Tgt Ion:119 Resp: 28816

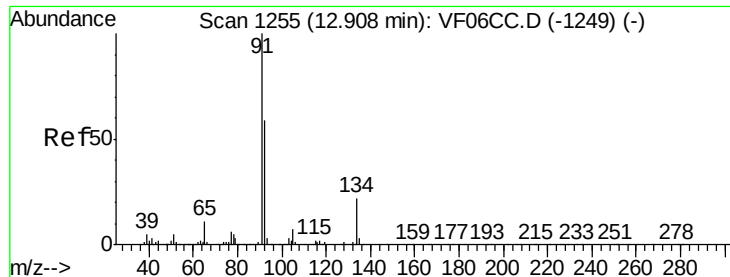
Ion Ratio Lower Upper

119 100

134 19.1 15.5 46.5

91 23.9 10.3 30.9





#89

n-Butylbenzene

Concen: 2.315 ug/l

RT: 12.90 min Scan# 1255

Delta R.T. -0.01 min

Lab File: VF062887.D

Acq: 6 Jun 2019 17:23

Instrument :

MSVOA_F

ClientSampleId :

EO-02-060619-A

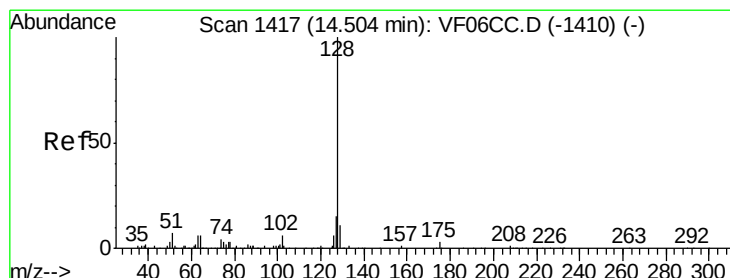
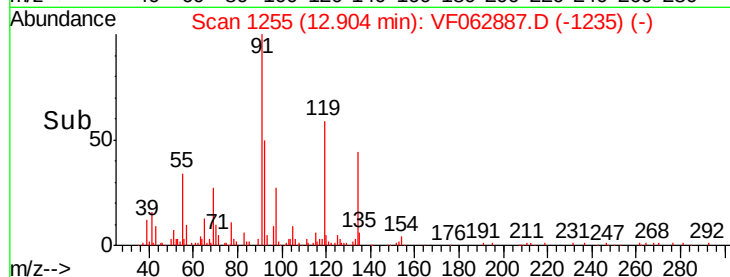
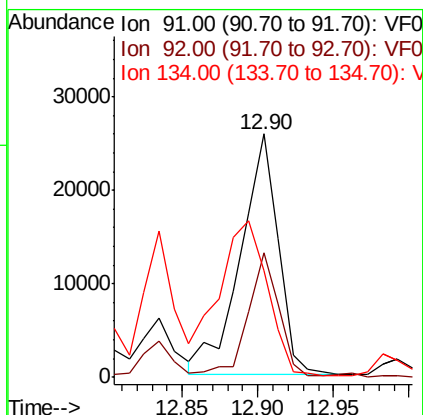
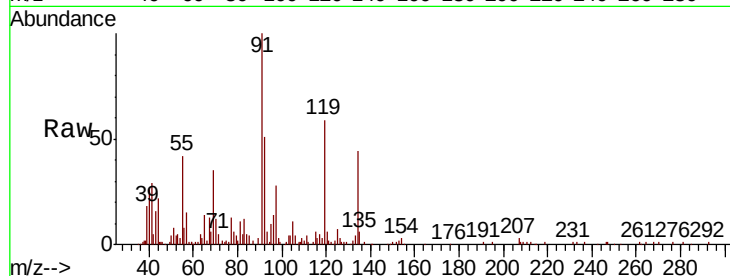
Tot Ion: 91 Resp: 44739

Ion Ratio Lower Upper

91 100

92 51.2 34.2 102.6

134 43.8 15.8 47.3



#95

Naphthalene

Concen: 13.714 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. -0.01 min

Lab File: VF062887.D

Acq: 6 Jun 2019 17:23

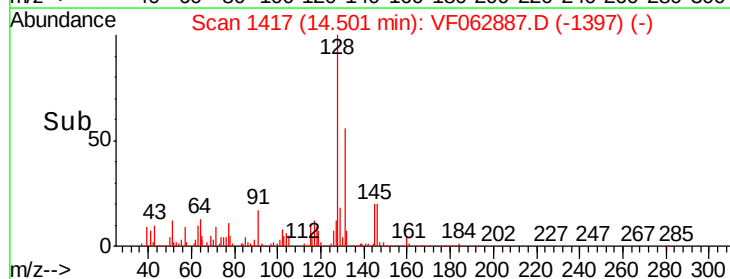
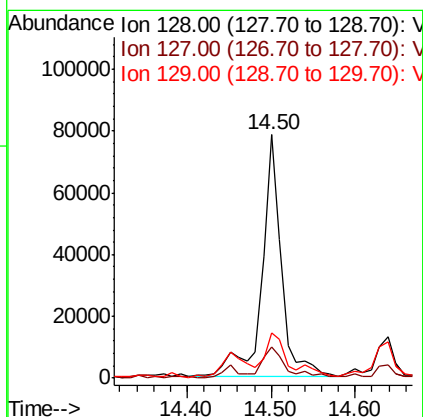
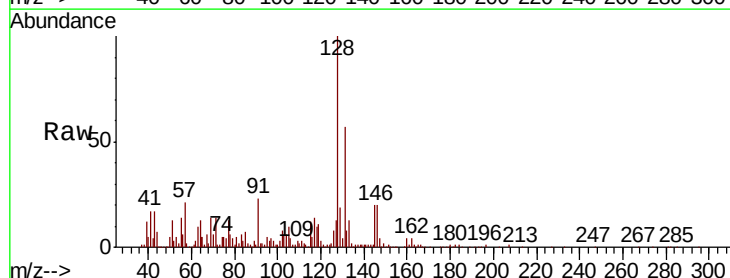
Tgt Ion: 128 Resp: 129877

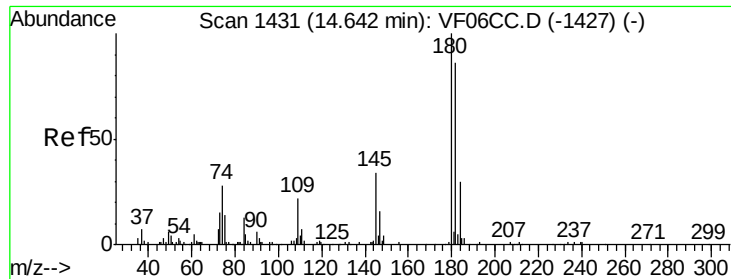
Ion Ratio Lower Upper

128 100

127 12.8 9.7 14.5

129 18.6 9.4 14.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.108 ug/l
 RT: 14.68 min Scan# 1435
 Delta R.T. 0.03 min
 Lab File: VF062887.D
 Acq: 6 Jun 2019 17:23

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

Tot Ion:180 Resp: 5847
 Ion Ratio Lower Upper
 180 100
 182 10.7 48.6 145.9#
 145 246.2 15.7 47.0#

