

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF052319\
 Data File : VF062728.D
 Acq On : 23 May 2019 15:51
 Operator : FY/SY
 Sample : K2976-14
 Misc : 5.92g/5mL/MSVOA F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-SB-MW-HR(17-20)

Quant Time: May 24 02:15:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F051619S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 05:49:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	859241	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	1434062	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	1026269	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	499932	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	272058	44.81	ug/l	0.00
Spiked Amount			Recovery	=	89.62%	
35) Dibromofluoromethane	4.31	113	515768	47.00	ug/l	0.00
Spiked Amount			Recovery	=	94.00%	
50) Toluene-d8	7.71	98	1226332	46.81	ug/l	0.00
Spiked Amount			Recovery	=	93.62%	
62) 4-Bromofluorobenzene	11.50	95	445022	44.78	ug/l	0.00
Spiked Amount			Recovery	=	89.56%	

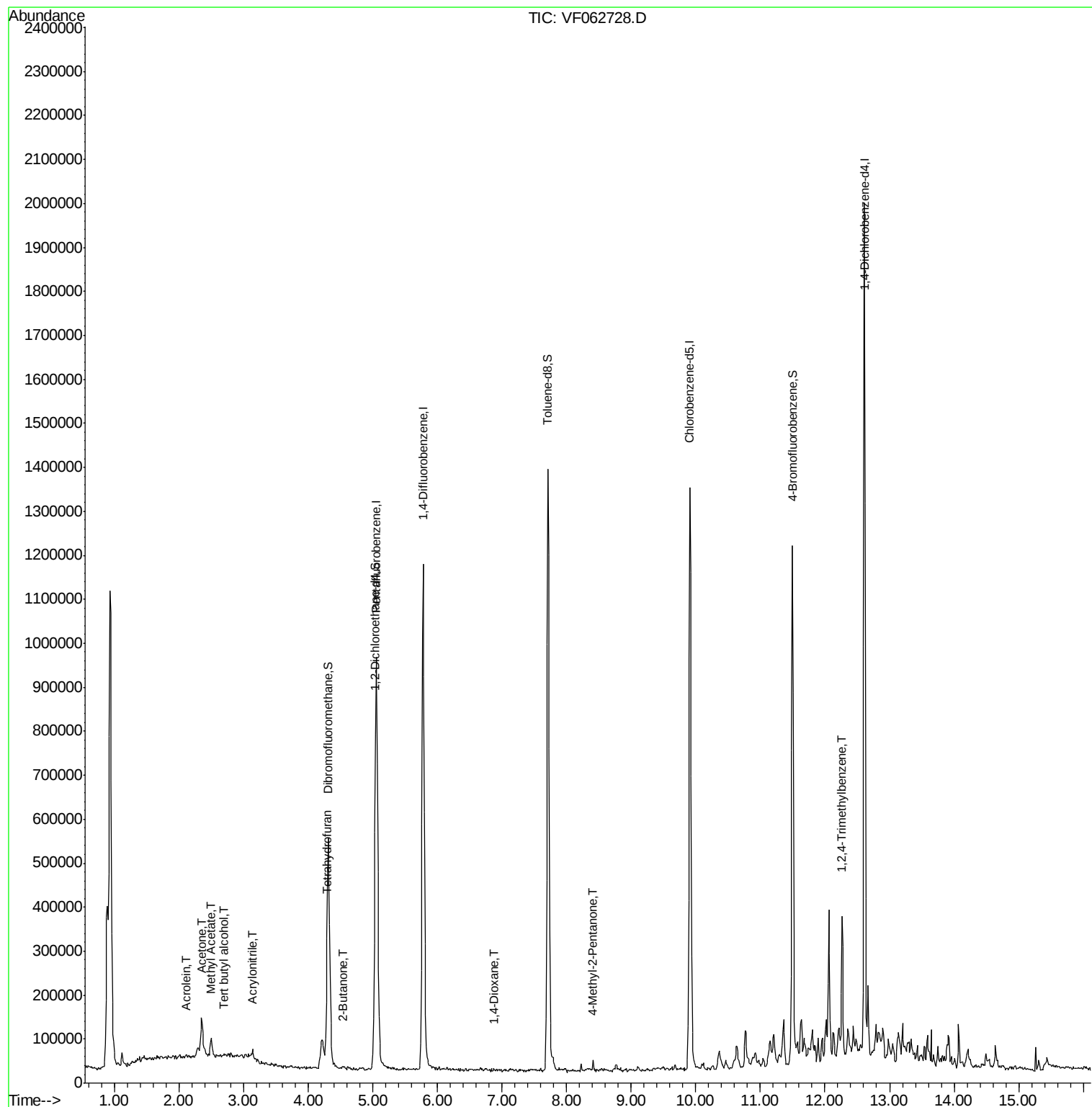
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.70	59	4948	12.343	ug/l #	32
13) Acrolein	2.11	56	980	2.342	ug/l	86
15) Acrylonitrile	3.13	53	1144	1.012	ug/l #	60
16) Acetone	2.35	43	148217	94.093	ug/l #	85
18) Methyl Acetate	2.49	43	25201	10.181	ug/l #	62
25) 2-Butanone	4.53	43	6501	1.932	ug/l	99
29) Tetrahydrofuran	4.28	42	19007	13.956	ug/l	97
49) 1,4-Dioxane	6.88	88	501	9.628	ug/l #	58
51) 4-Methyl-2-Pentanone	8.41	43	6257	1.178	ug/l #	62
59) 2-Hexanone	9.63	43	5550	Below Cal		90
74) N-amyl acetate	11.48	43	6387	Below Cal	#	46
84) 1,2,4-Trimethylbenzene	12.26	105	106252	3.821	ug/l	92

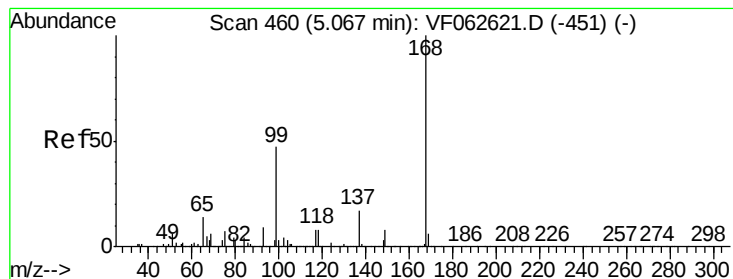
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 24 02:15:00 2019
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Quant Title : SW846 8260
QLast Update : Fri May 17 05:49:09 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 459

Delta R.T. -0.01 min

Lab File: VF062728.D

Acq: 23 May 2019 15:51

Instrument :

MSVOA_F

ClientSampleId :

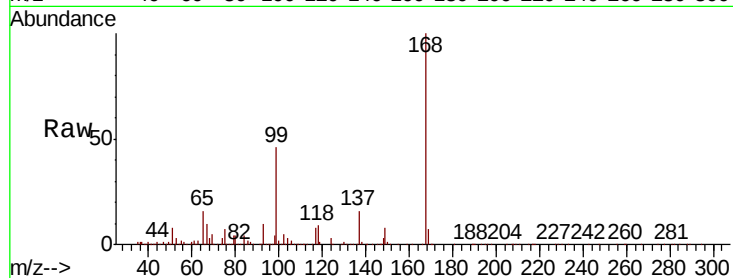
EP1-SB-MW-HR(17-20)

Tot Ion:168 Resp: 859241

Ion Ratio Lower Upper

168 100

99 45.8 37.8 56.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.06

300000

250000

200000

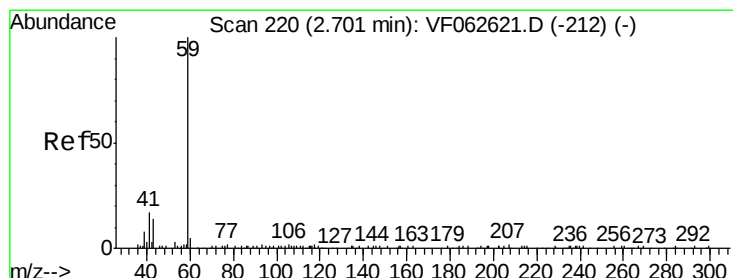
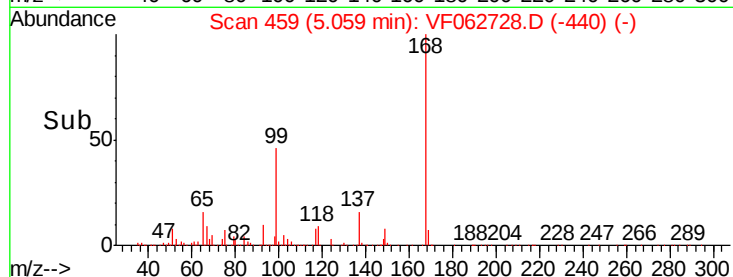
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 12.343 ug/l

RT: 2.70 min Scan# 220

Delta R.T. 0.00 min

Lab File: VF062728.D

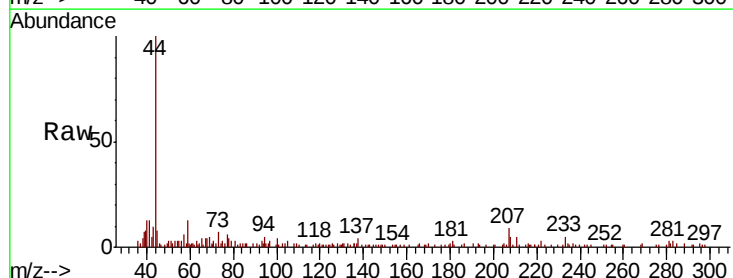
Acq: 23 May 2019 15:51

Tgt Ion: 59 Resp: 4948

Ion Ratio Lower Upper

59 100

57 37.8 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.70

2000

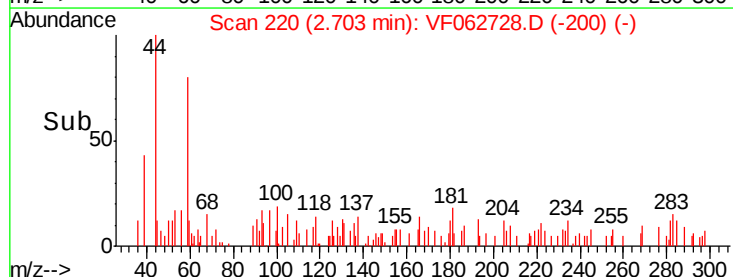
1500

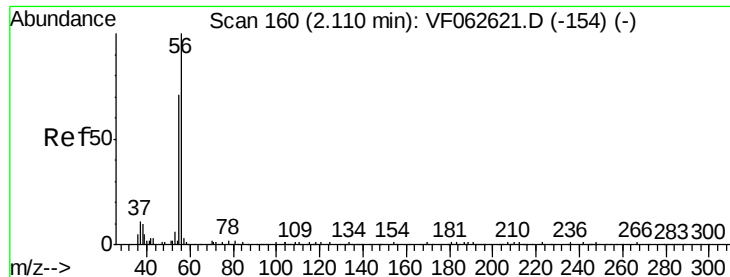
1000

500

0

Time-->





#13

Acrolein

Concen: 2.342 ug/l

RT: 2.11 min Scan# 160

Delta R.T. 0.00 min

Lab File: VF062728.D

Acq: 23 May 2019 15:51

Instrument :

MSVOA_F

ClientSampleId :

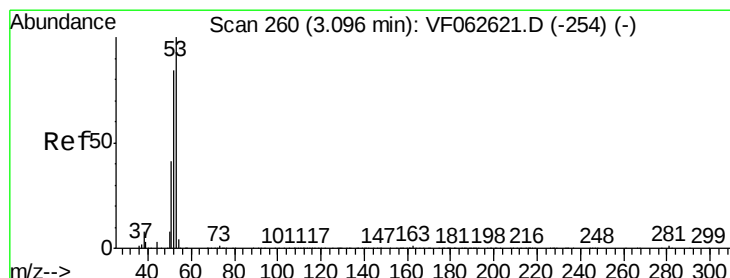
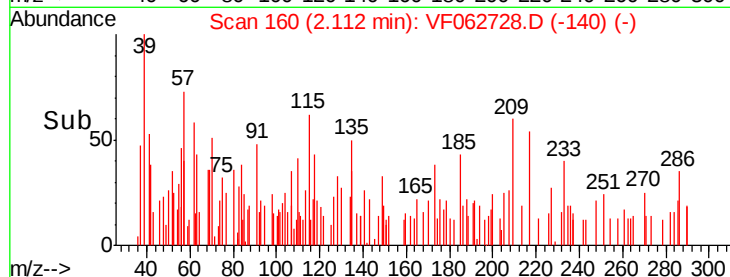
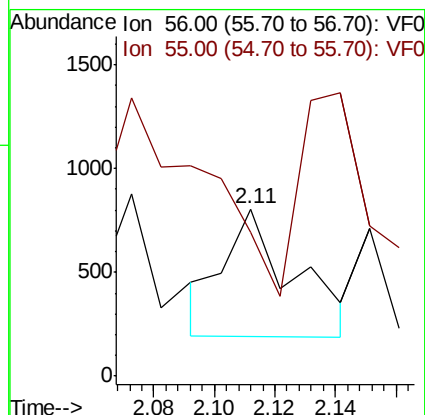
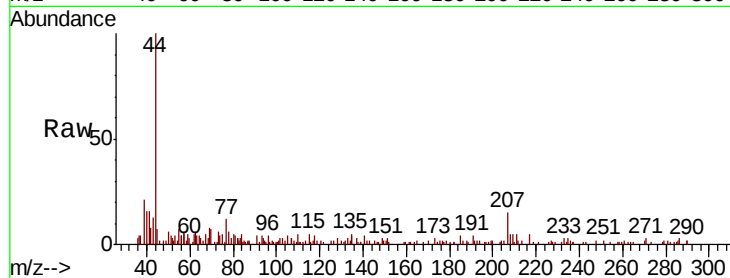
EP1-SB-MW-HR(17-20)

Tot Ion: 56 Resp: 980

Ion Ratio Lower Upper

56 100

55 86.5 59.4 89.0



#15

Acrylonitrile

Concen: 1.012 ug/l

RT: 3.13 min Scan# 263

Delta R.T. 0.03 min

Lab File: VF062728.D

Acq: 23 May 2019 15:51

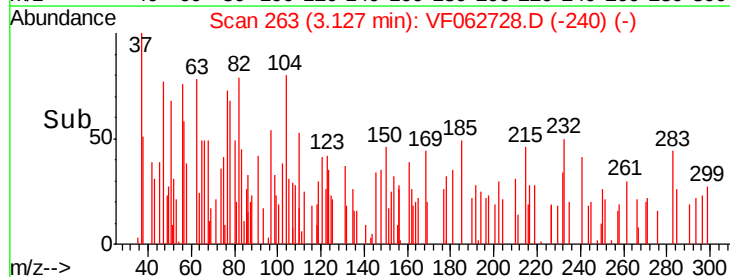
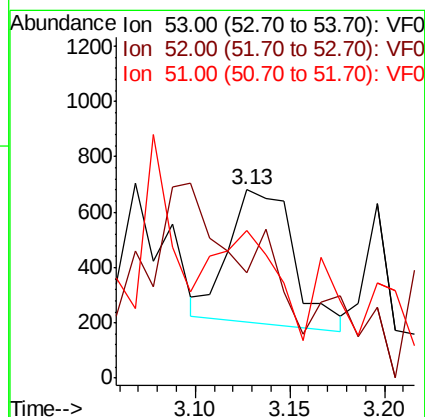
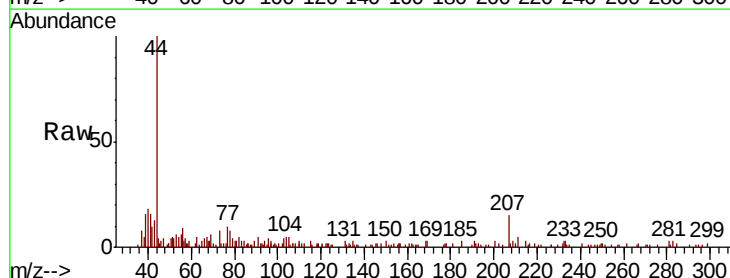
Tgt Ion: 53 Resp: 1144

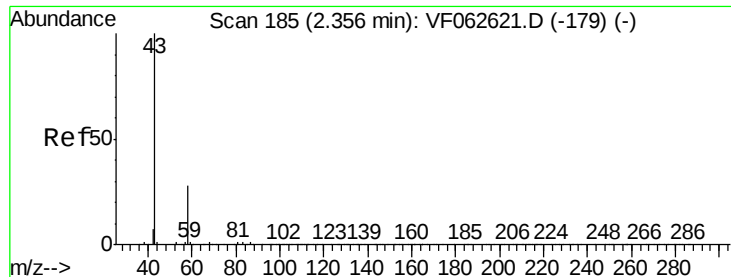
Ion Ratio Lower Upper

53 100

52 55.9 67.3 100.9#

51 78.2 33.0 49.6#

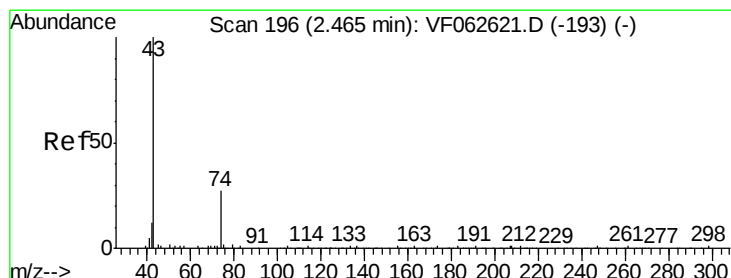
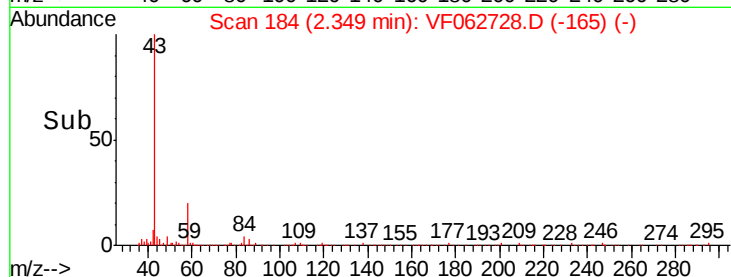
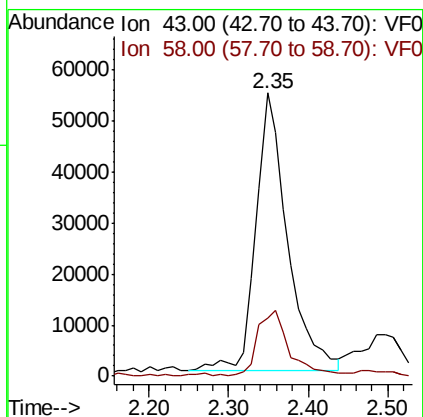
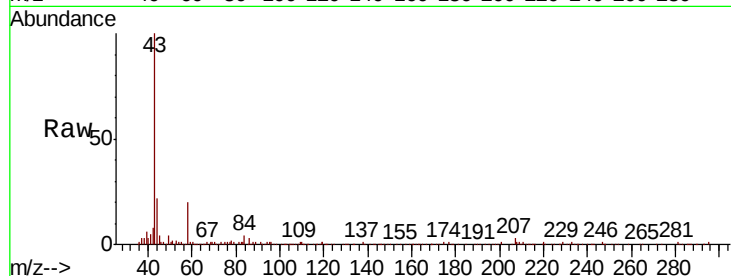




#16
Acetone
Concen: 94.093 ug/l
RT: 2.35 min Scan# 184
Delta R.T. -0.01 min
Lab File: VF062728.D
Acq: 23 May 2019 15:51

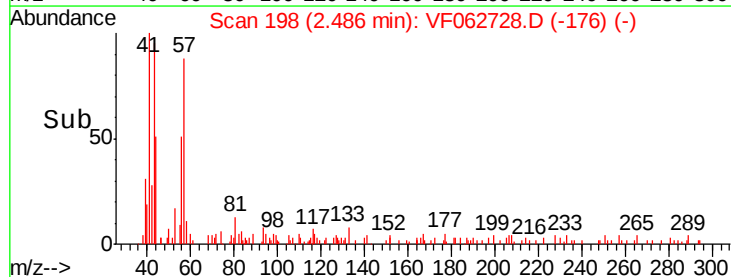
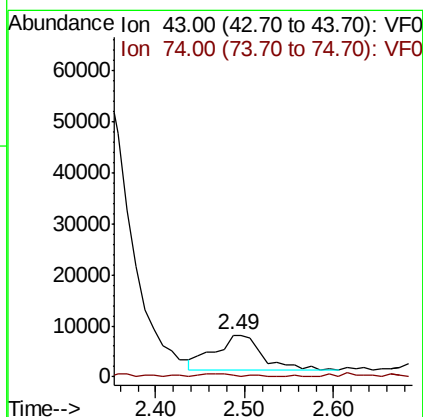
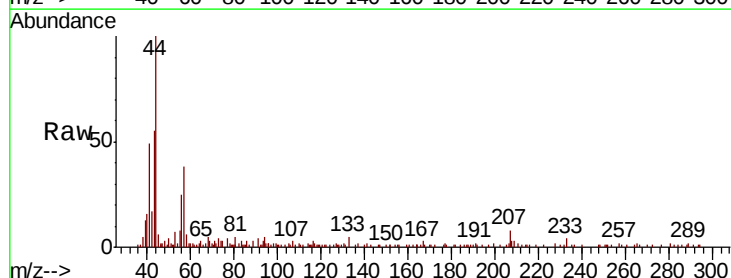
Instrument :
MSVOA_F
ClientSampleId :
EP1-SB-MW-HR(17-20)

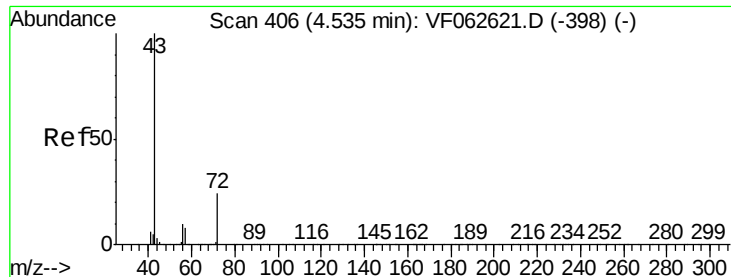
Tot Ion: 43 Resp: 148217
Ion Ratio Lower Upper
43 100
58 20.4 22.6 33.8#



#18
Methyl Acetate
Concen: 10.181 ug/l
RT: 2.49 min Scan# 198
Delta R.T. 0.02 min
Lab File: VF062728.D
Acq: 23 May 2019 15:51

Tgt Ion: 43 Resp: 25201
Ion Ratio Lower Upper
43 100
74 4.8 18.9 28.3#





#25

2-Butanone

Concen: 1.932 ug/l

RT: 4.53 min Scan# 405

Delta R.T. -0.01 min

Lab File: VF062728.D

Acq: 23 May 2019 15:51

Instrument :

MSVOA_F

ClientSampleId :

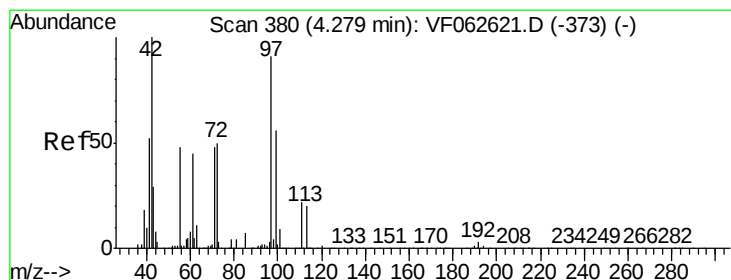
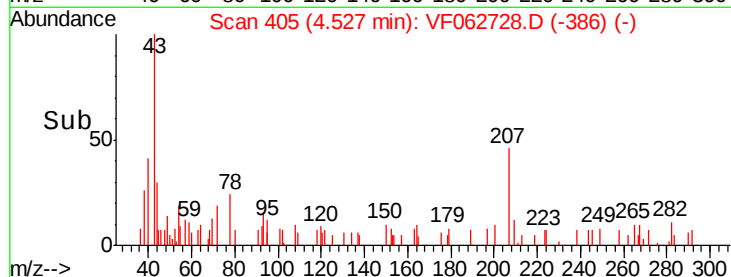
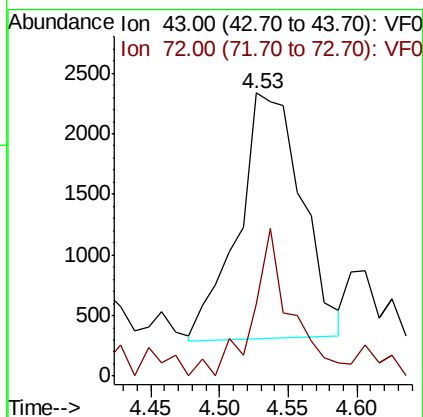
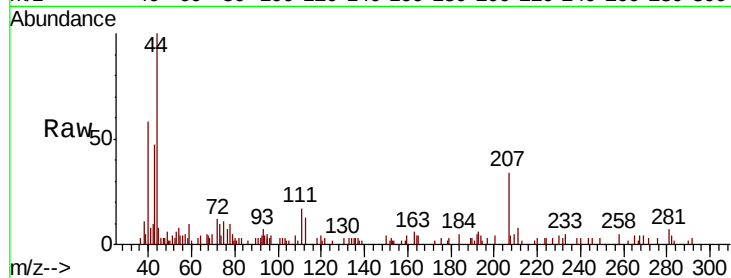
EP1-SB-MW-HR(17-20)

Tot Ion: 43 Resp: 6501

Ion Ratio Lower Upper

43 100

72 25.5 20.1 30.1



#29

Tetrahydrofuran

Concen: 13.956 ug/l

RT: 4.28 min Scan# 380

Delta R.T. 0.00 min

Lab File: VF062728.D

Acq: 23 May 2019 15:51

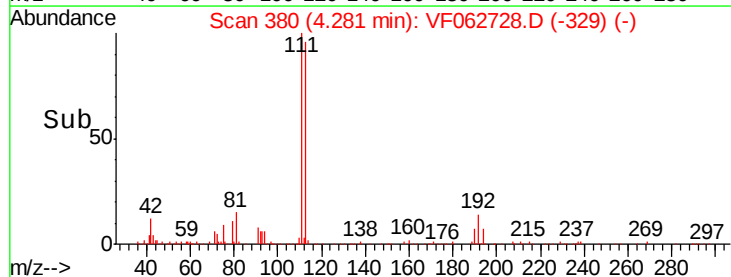
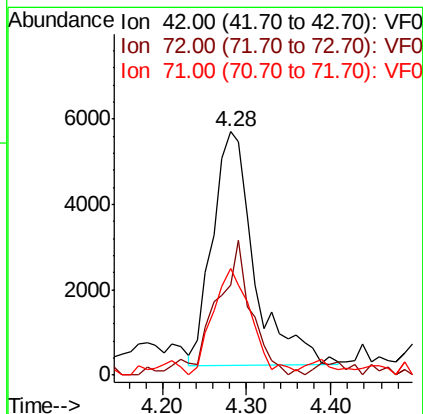
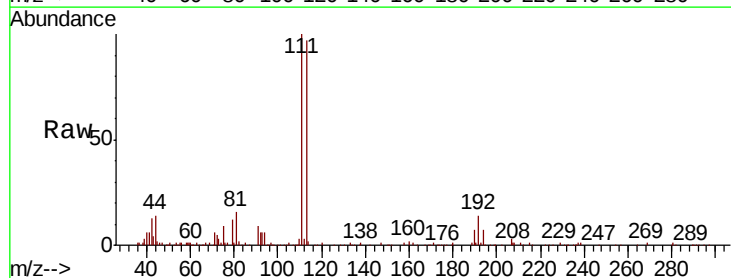
Tgt Ion: 42 Resp: 19007

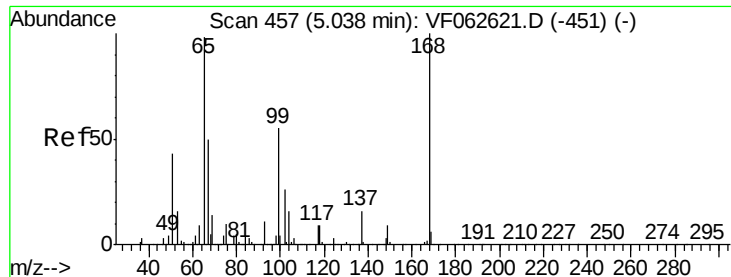
Ion Ratio Lower Upper

42 100

72 49.4 38.2 57.2

71 41.8 35.8 53.6

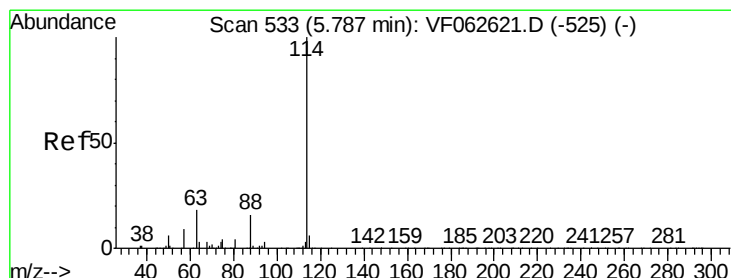
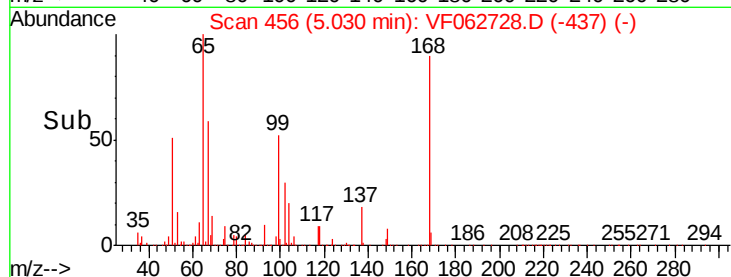
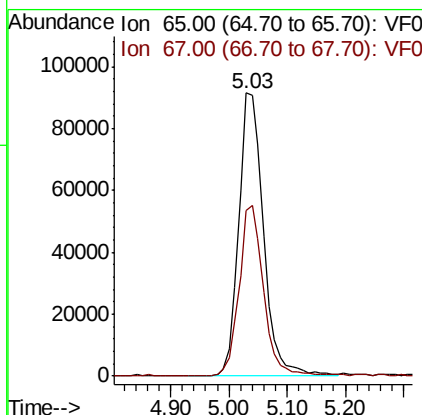
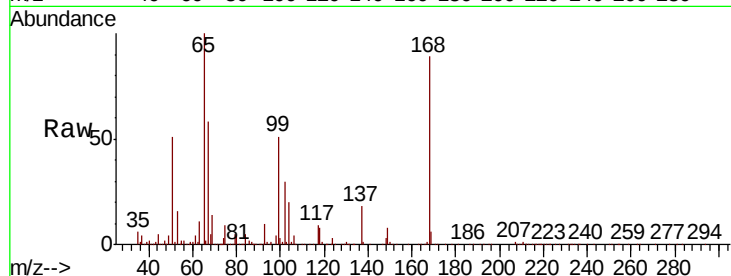




#33
 1,2-Dichloroethane-d4
 Concen: 44.807 ug/l
 RT: 5.03 min Scan# 456
 Delta R.T. -0.01 min
 Lab File: VF062728.D
 Acq: 23 May 2019 15:51

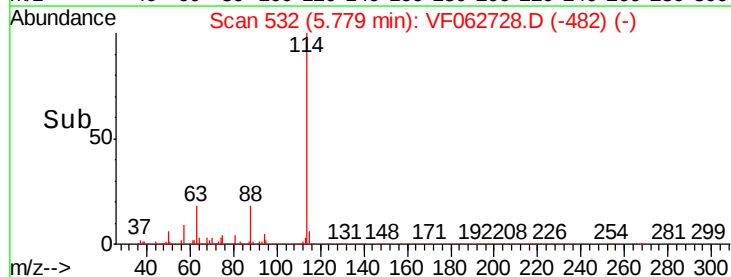
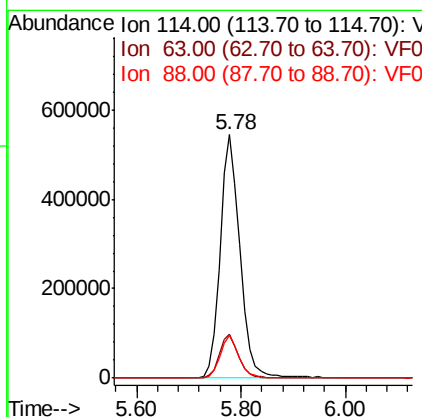
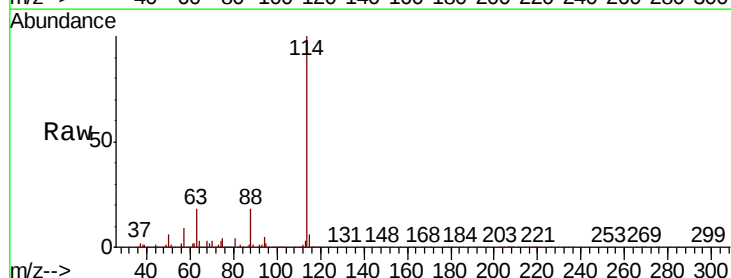
Instrument :
 MSVOA_F
 ClientSampleId :
 EP1-SB-MW-HR(17-20)

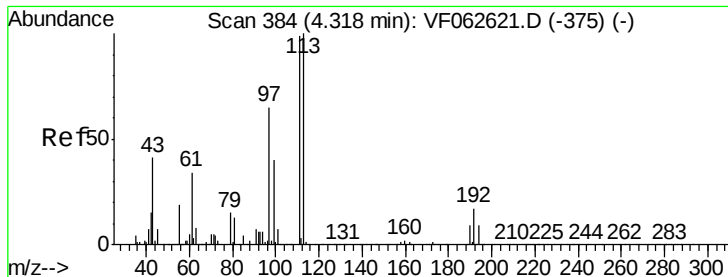
Tot Ion: 65 Resp: 272058
 Ion Ratio Lower Upper
 65 100
 67 58.4 0.0 117.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.78 min Scan# 532
 Delta R.T. -0.01 min
 Lab File: VF062728.D
 Acq: 23 May 2019 15:51

Tgt Ion: 114 Resp: 1434062
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 35.4
 88 17.6 0.0 32.4

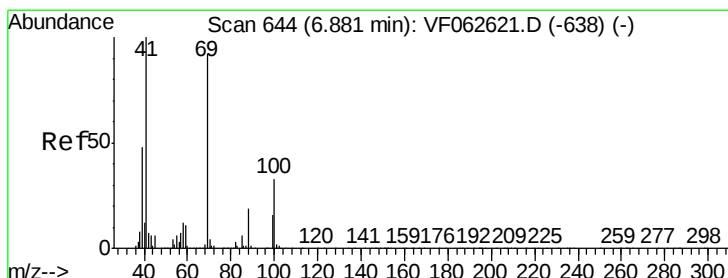
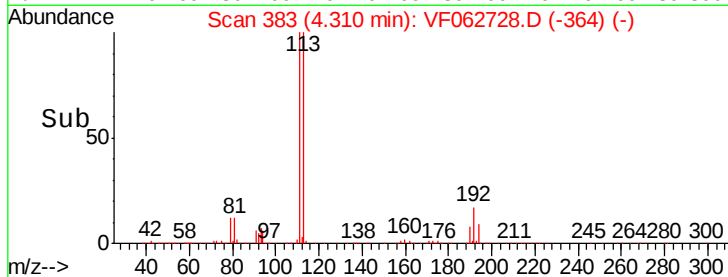
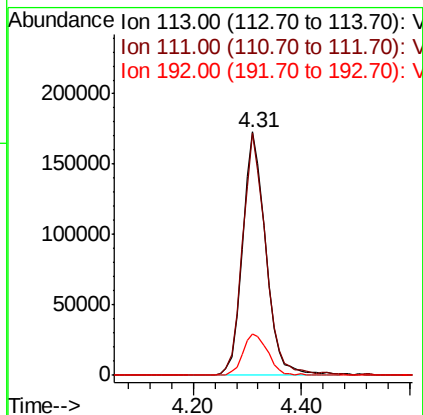
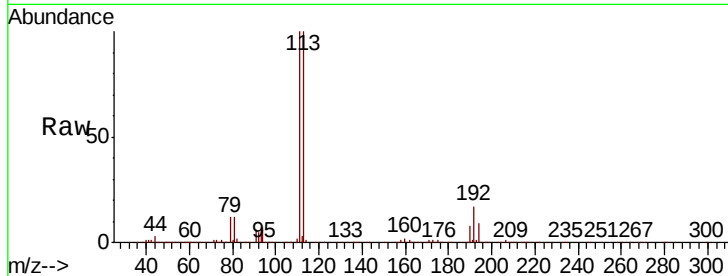




#35
 Dibromofluoromethane
 Concen: 47.001 ug/l
 RT: 4.31 min Scan# 383
 Delta R.T. -0.01 min
 Lab File: VF062728.D
 Acq: 23 May 2019 15:51

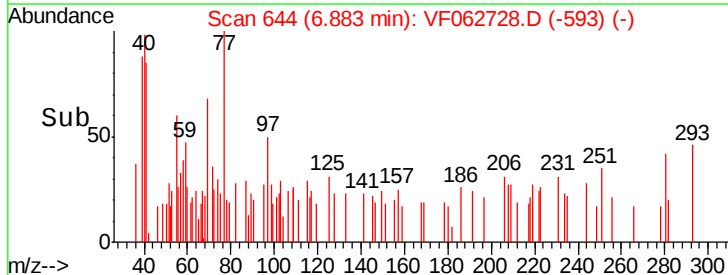
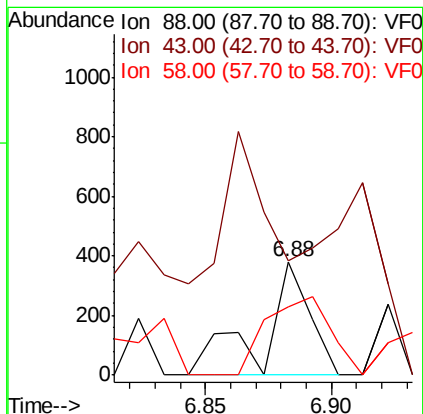
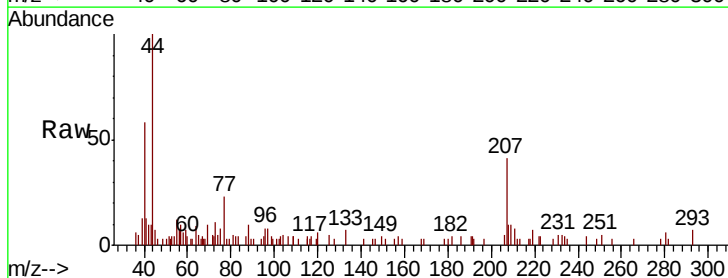
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 EP1-SB-MW-HR(17-20)

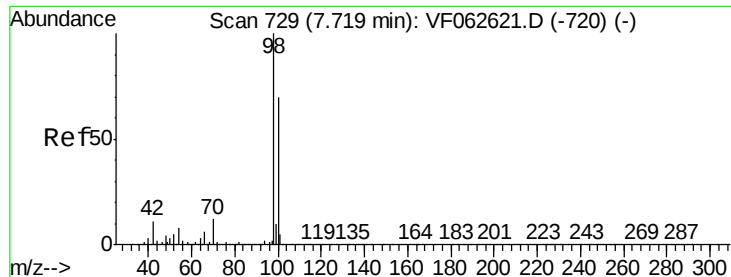
Tot Ion	Ratio	Lower	Upper
113	100		
111	99.6	79.4	119.2
192	16.9	13.4	20.2



#49
 1,4-Dioxane
 Concen: 9.628 ug/l
 RT: 6.88 min Scan# 644
 Delta R.T. 0.00 min
 Lab File: VF062728.D
 Acq: 23 May 2019 15:51

Tgt Ion	Ratio	Lower	Upper
88	100		
43	101.1	30.0	45.0#
58	60.3	51.1	76.7





#50

Toluene-d8

Concen: 46.806 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.01 min

Lab File: VF062728.D

Acq: 23 May 2019 15:51

Instrument :

MSVOA_F

ClientSampleId :

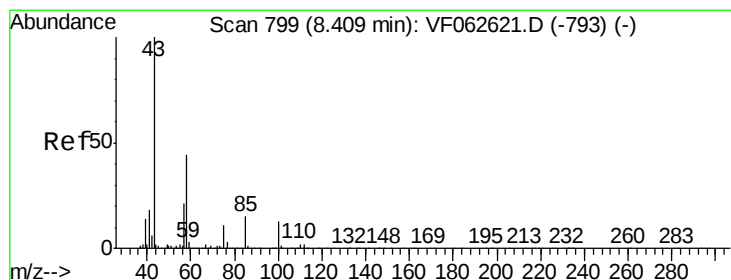
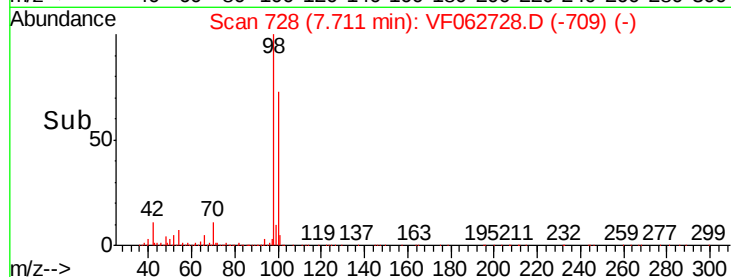
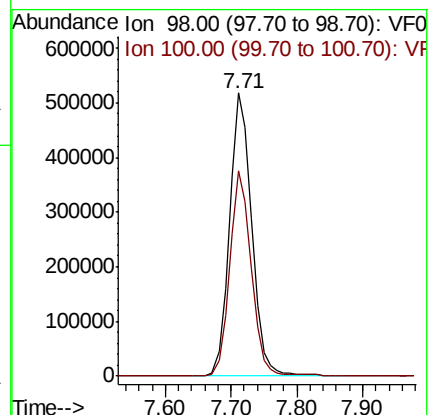
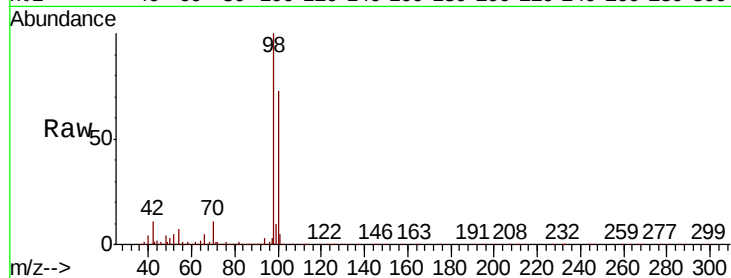
EP1-SB-MW-HR(17-20)

Tot Ion: 98 Resp: 1226332

Ion Ratio Lower Upper

98 100

100 72.7 56.2 84.2



#51

4-Methyl-2-Pentanone

Concen: 1.178 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.00 min

Lab File: VF062728.D

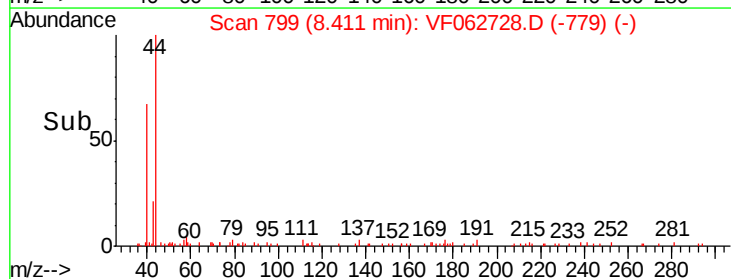
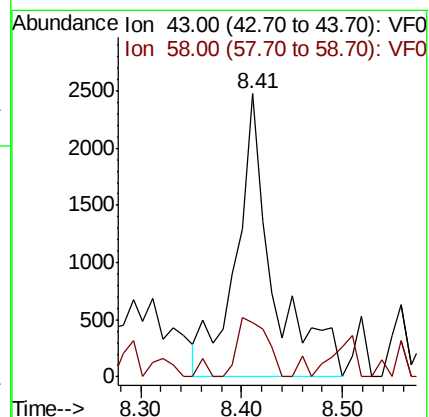
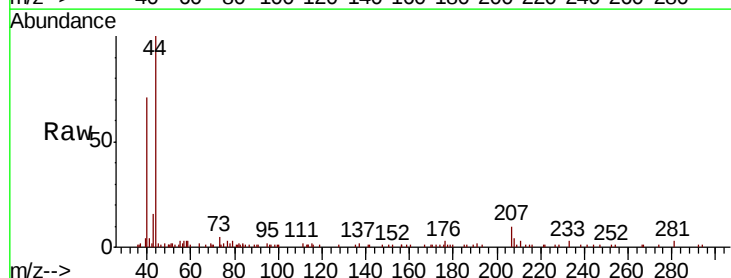
Acq: 23 May 2019 15:51

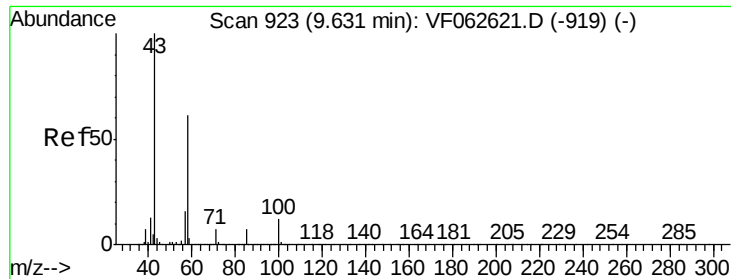
Tgt Ion: 43 Resp: 6257

Ion Ratio Lower Upper

43 100

58 19.0 34.9 52.3#

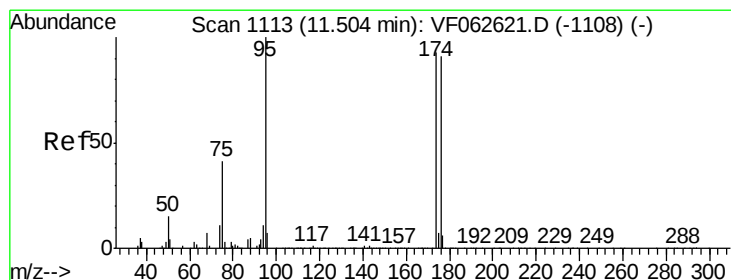
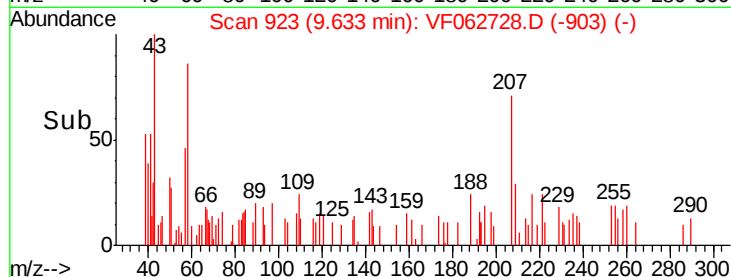
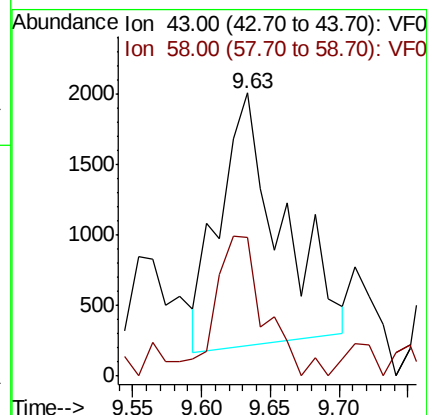
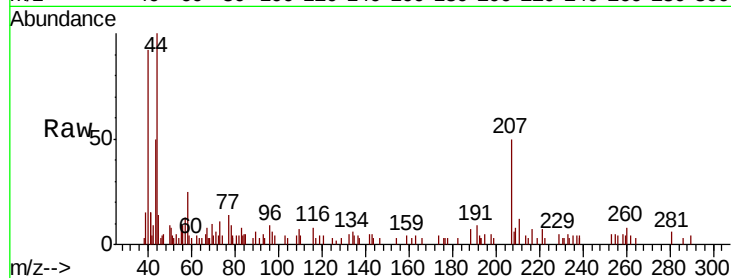




#59
2-Hexanone
Concen: Below Cal
RT: 9.63 min Scan# 923
Delta R.T. 0.00 min
Lab File: VF062728.D
Acq: 23 May 2019 15:51

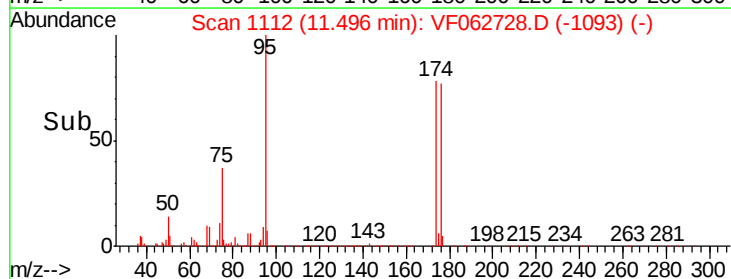
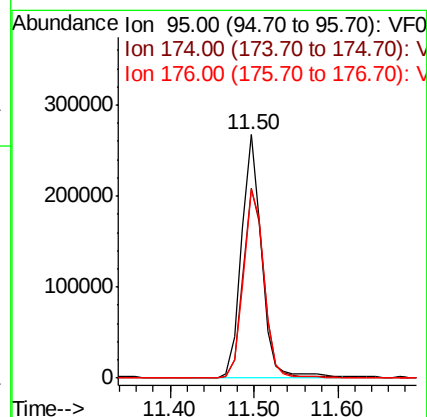
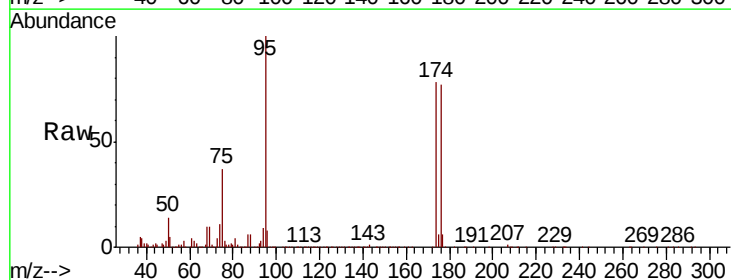
Instrument :
MSVOA_F
ClientSampleId :
EP1-SB-MW-HR(17-20)

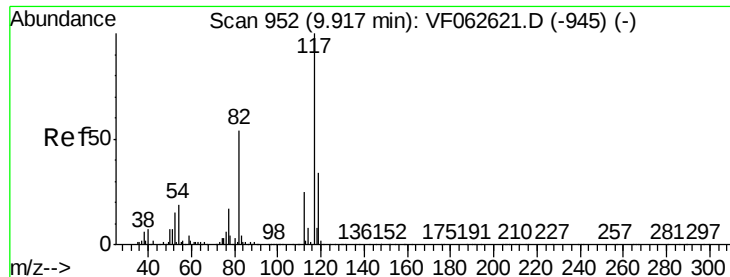
Tot Ion: 43 Resp: 5550
Ion Ratio Lower Upper
43 100
58 49.3 28.1 84.4



#62
4-Bromofluorobenzene
Concen: 44.784 ug/l
RT: 11.50 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VF062728.D
Acq: 23 May 2019 15:51

Tgt Ion: 95 Resp: 445022
Ion Ratio Lower Upper
95 100
174 77.9 0.0 185.6
176 77.2 0.0 182.4

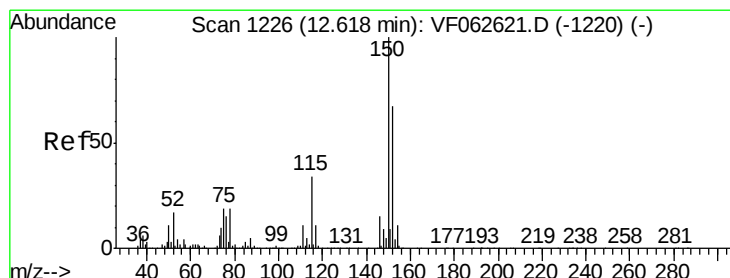
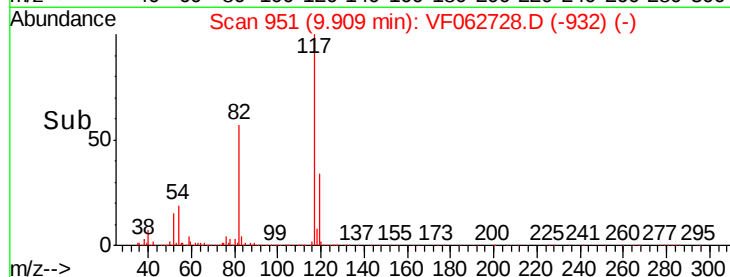
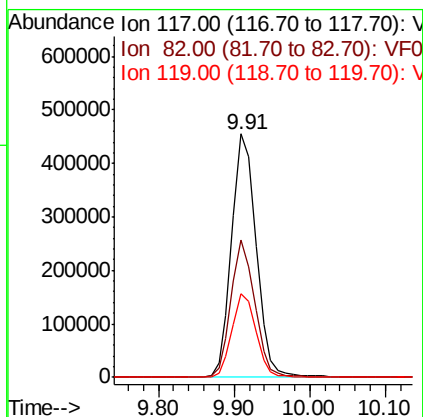
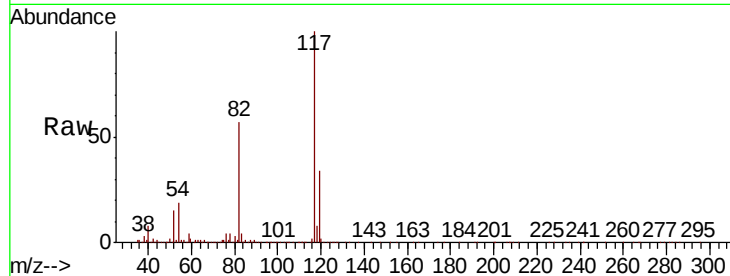




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.01 min
Lab File: VF062728.D
Acq: 23 May 2019 15:51

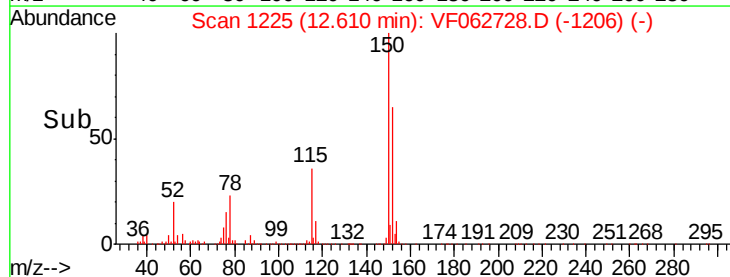
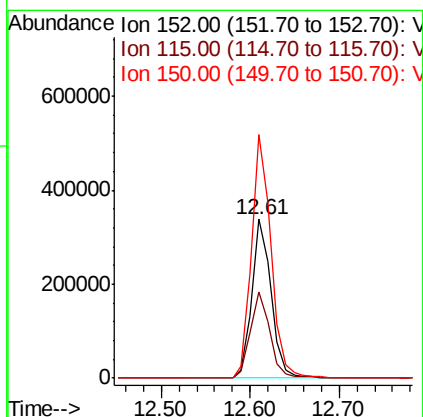
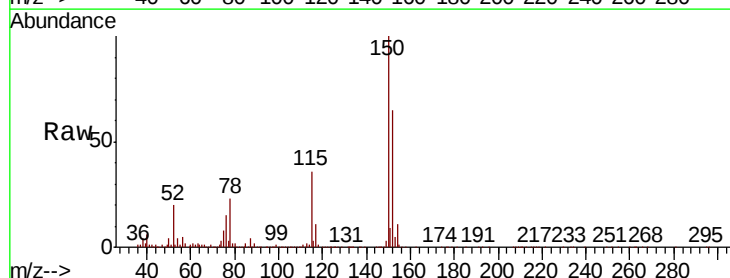
Instrument :
MSVOA_F
ClientSampleId :
EP1-SB-MW-HR(17-20)

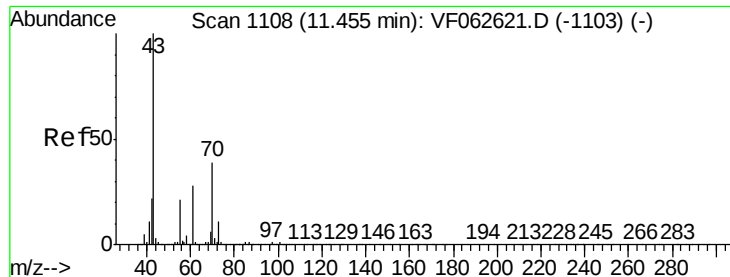
Tot Ion:117 Resp: 1026269
Ion Ratio Lower Upper
117 100
82 56.6 43.3 64.9
119 34.2 27.4 41.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1225
Delta R.T. -0.01 min
Lab File: VF062728.D
Acq: 23 May 2019 15:51

Tgt Ion:152 Resp: 499932
Ion Ratio Lower Upper
152 100
115 54.4 25.2 75.6
150 153.1 0.0 306.2





#74

N-amvl acetate

Concen: Below Cal

RT: 11.48 min Scan# 1110

Delta R.T. 0.02 min

Lab File: VF062728.D

Acq: 23 May 2019 15:51

Instrument :

MSVOA_F

ClientSampleId :

EP1-SB-MW-HR(17-20)

Tot Ion: 43 Resp: 6387

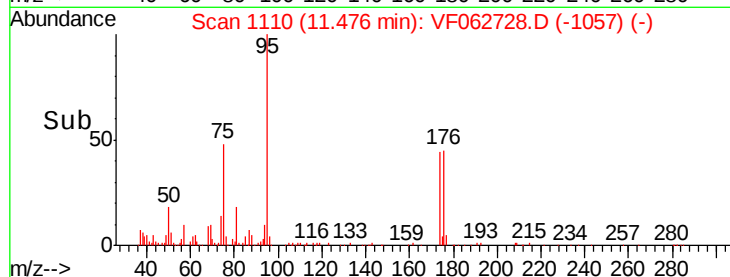
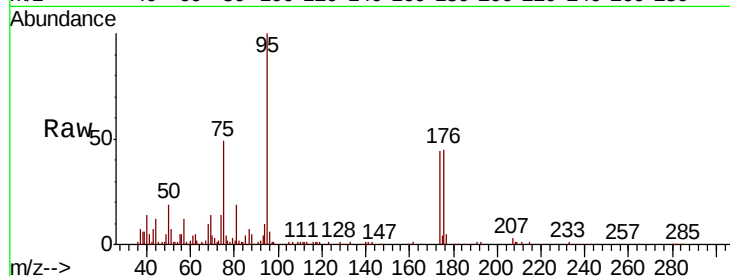
Ion Ratio Lower Upper

43 100

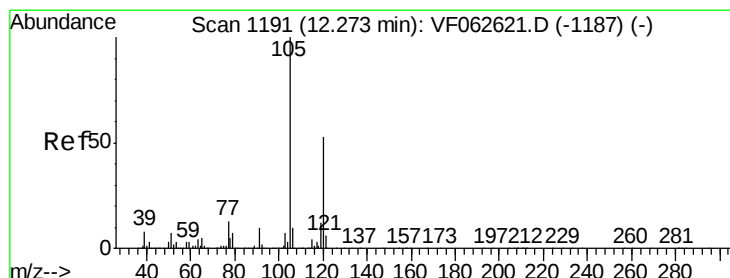
70 56.7 30.9 46.3#

55 72.2 17.0 25.4#

61 52.1 22.6 34.0#



Time--> 11.35 11.40 11.45 11.50



#84

1,2,4-Trimethylbenzene

Concen: 3.821 ug/l

RT: 12.26 min Scan# 1190

Delta R.T. -0.01 min

Lab File: VF062728.D

Acq: 23 May 2019 15:51

Tgt Ion:105 Resp: 106252

Ion Ratio Lower Upper

105 100

120 47.7 26.7 80.1

