

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF051319\
 Data File : VF062542.D
 Acq On : 13 May 2019 15:27
 Operator : FY/SY
 Sample : K2786-13RE
 Misc : 5.00g/5mL/MSVOA_F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 BP-VPB202-GW-258-260RE

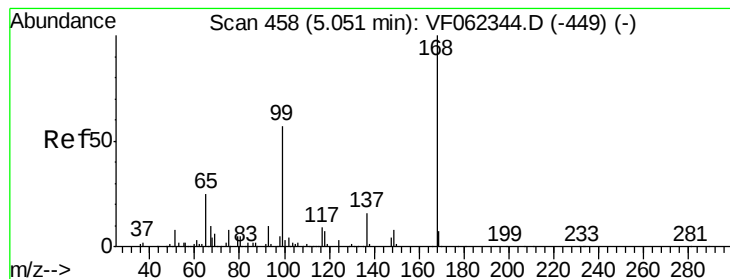
Quant Time: May 13 15:54:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F050619S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 04:34:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.08	168	301267	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.80	114	402027	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.93	117	323989	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	176056	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	89548	31.45	ug/l	0.04
Spiked Amount 50.000			Recovery =	62.90%		
35) Dibromofluoromethane	4.33	113	118255	36.92	ug/l	0.03
Spiked Amount 50.000			Recovery =	73.84%		
50) Toluene-d8	7.73	98	249882	32.23	ug/l	0.03
Spiked Amount 50.000			Recovery =	64.46%		
62) 4-Bromofluorobenzene	11.51	95	105502	30.16	ug/l	0.02
Spiked Amount 50.000			Recovery =	60.32%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.42	94	935	Below Cal	#	54
11) Tert butyl alcohol	2.70	59	453	2.815	ug/l #	1
13) Acrolein	2.15	56	1132	Below Cal	#	13
15) Acrylonitrile	3.15	53	694	2.277	ug/l #	63
16) Acetone	2.36	43	4609	8.002	ug/l #	92
18) Methyl Acetate	2.51	43	822	Below Cal	#	57
20) Methylene Chloride	2.35	84	2831	1.359	ug/l #	54
25) 2-Butanone	4.56	43	2801	3.871	ug/l #	60
29) Tetrahydrofuran	4.29	42	692	2.081	ug/l #	44
37) Ethyl Acetate	4.34	43	386	Below Cal	#	73
38) Carbon Tetrachloride	4.22	117	124	Below Cal	#	66
39) Methylcyclohexane	5.79	83	5955	1.719	ug/l #	32
48) Methyl methacrylate	6.90	41	1267	1.141	ug/l #	82
49) 1,4-Dioxane	6.92	88	77	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.44	43	3328	2.796	ug/l #	60
56) Ethyl methacrylate	8.79	69	1805	1.148	ug/l #	38
59) 2-Hexanone	9.65	43	2077	2.523	ug/l #	59
64) Tetrachloroethene	8.33	164	9001	3.422	ug/l	90

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 461

Delta R.T. 0.03 min

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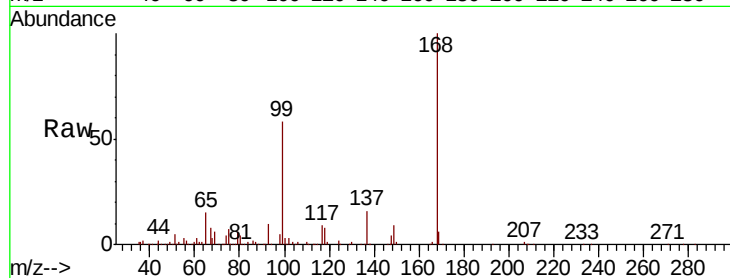
BP-VPB202-GW-258-260RE

Tgt Ion:168 Resp: 301267

Ion Ratio Lower Upper

168 100

99 57.8 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.08

100000

80000

60000

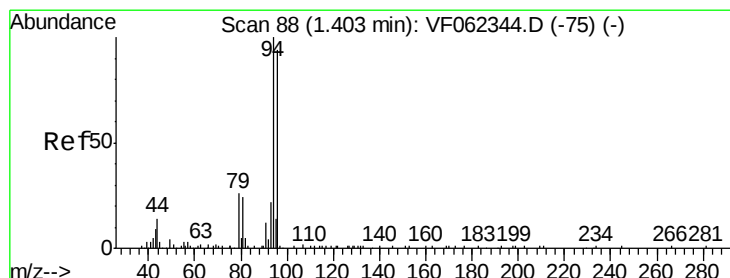
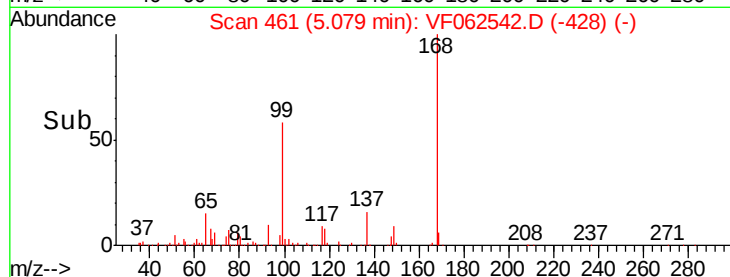
40000

20000

0

Time-->

5.00 5.20 5.40



#5

Bromomethane

Concen: Below Cal

RT: 1.42 min Scan# 90

Delta R.T. 0.02 min

Lab File: VF062542.D

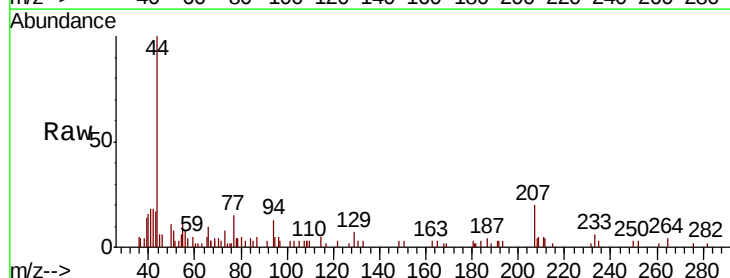
Acq: 13 May 2019 15:27

Tgt Ion: 94 Resp: 935

Ion Ratio Lower Upper

94 100

96 49.5 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.42

600

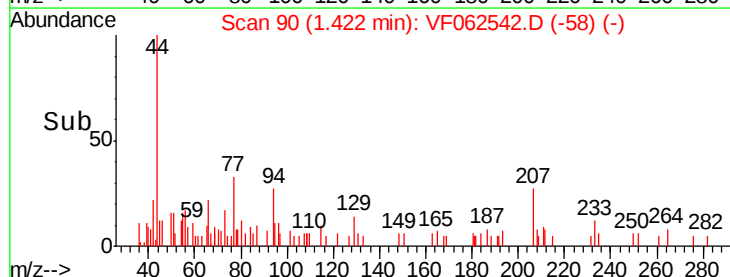
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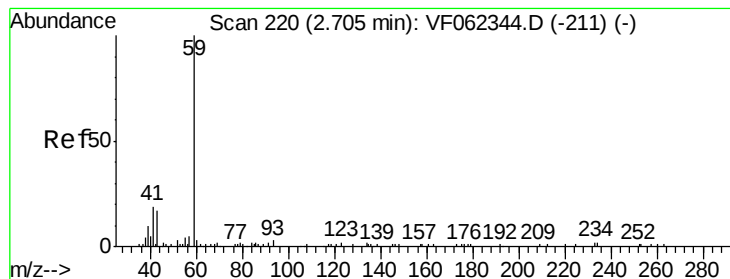
200

0

Time-->

1.40 1.45





#11

Tert butyl alcohol

Concen: 2.815 ug/l

RT: 2.70 min Scan# 220

Delta R.T. -0.00 min

Lab File: VF062542.D

Acq: 13 May 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

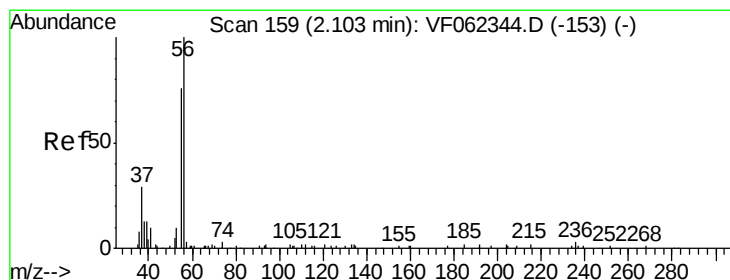
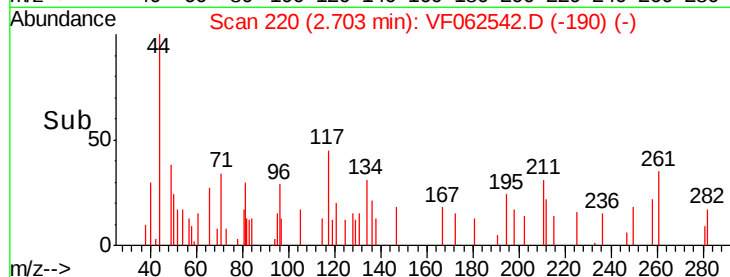
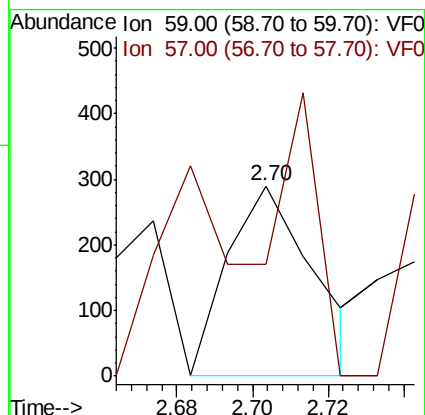
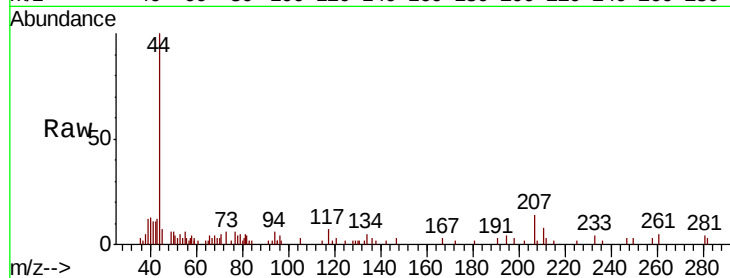
BP-VPB202-GW-258-260RE

Tgt Ion: 59 Resp: 453

Ion Ratio Lower Upper

59 100

57 166.9 9.3 13.9#



#13

Acrolein

Concen: Below Cal

RT: 2.15 min Scan# 164

Delta R.T. 0.05 min

Lab File: VF062542.D

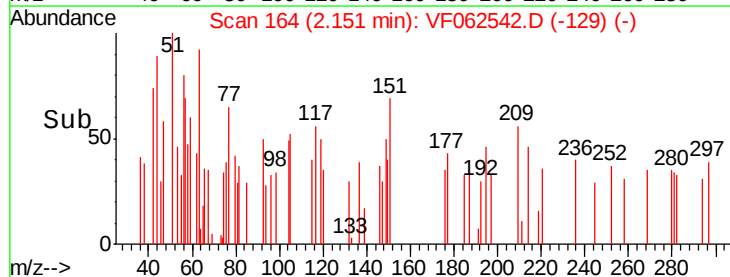
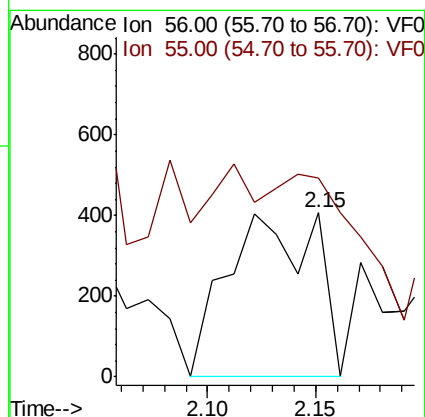
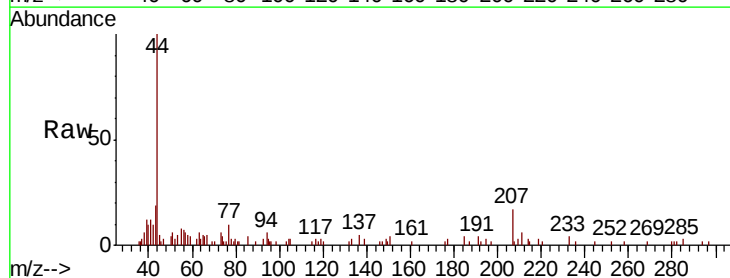
Acq: 13 May 2019 15:27

Tgt Ion: 56 Resp: 1132

Ion Ratio Lower Upper

56 100

55 0.0 58.4 87.6#





#15

Acrylonitrile

Concen: 2.277 ug/l

RT: 3.15 min Scan# 265

Delta R.T. 0.06 min

Lab File: VF062542.D

Acq: 13 May 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

BP-VPB202-GW-258-260RE

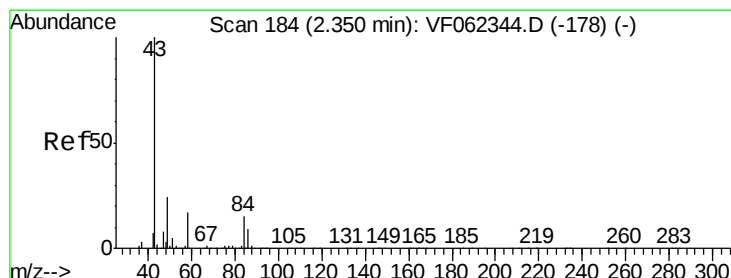
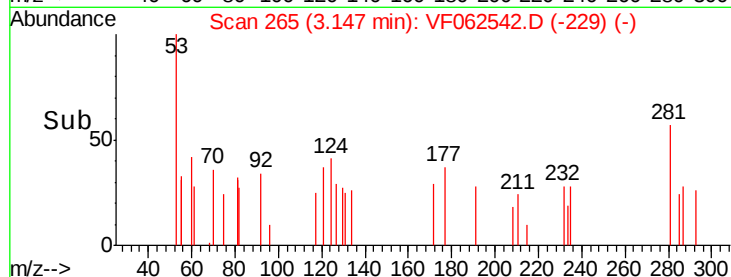
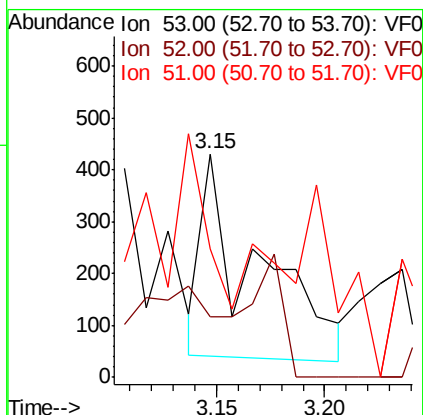
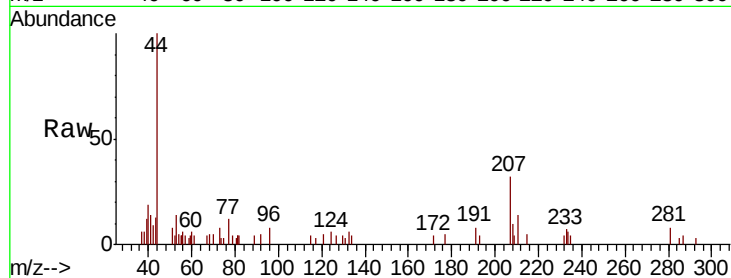
Tgt Ion: 53 Resp: 694

Ion Ratio Lower Upper

53 100

52 60.8 77.2 115.8#

51 77.8 40.6 61.0#



#16

Acetone

Concen: 8.002 ug/l

RT: 2.36 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF062542.D

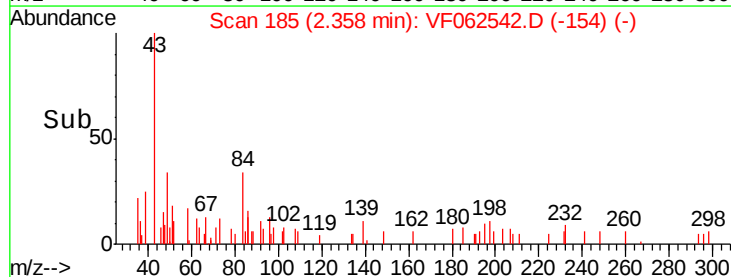
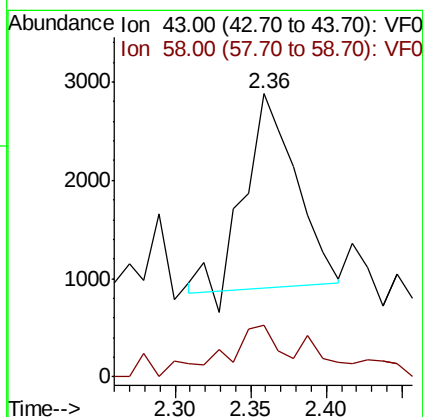
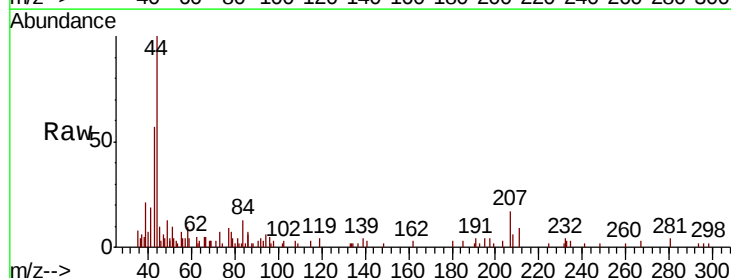
Acq: 13 May 2019 15:27

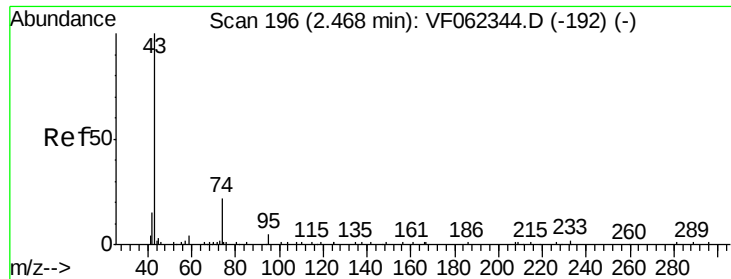
Tgt Ion: 43 Resp: 4609

Ion Ratio Lower Upper

43 100

58 20.0 13.1 19.7#

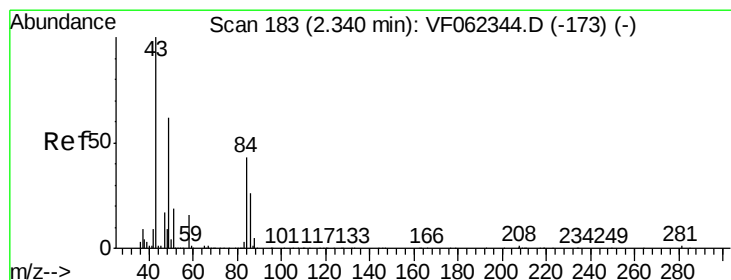
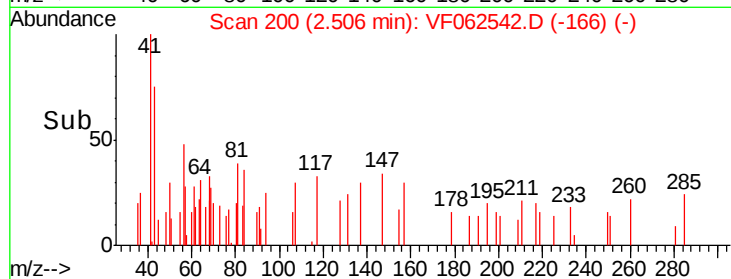
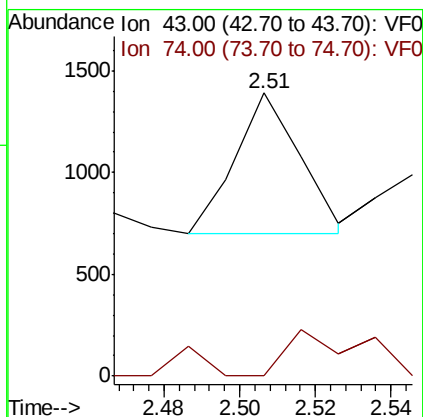
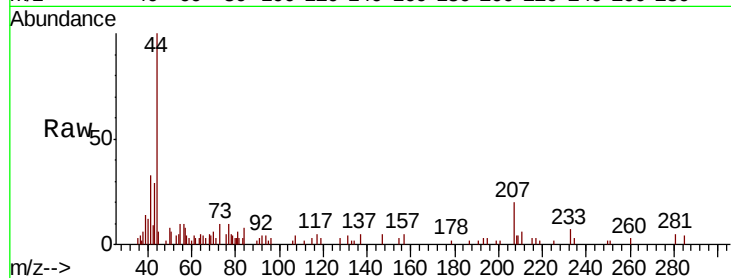




#18
Methyl Acetate
Concen: Below Cal
RT: 2.51 min Scan# 200
Delta R.T. 0.04 min
Lab File: VF062542.D
Acq: 13 May 2019 15:27

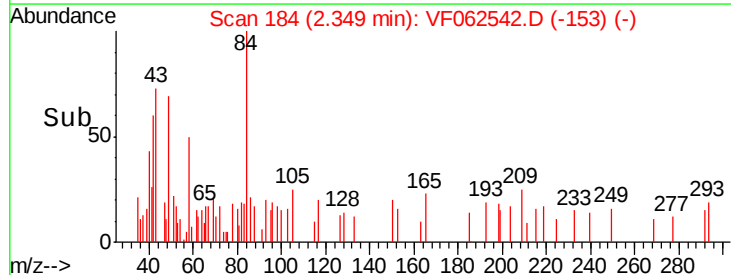
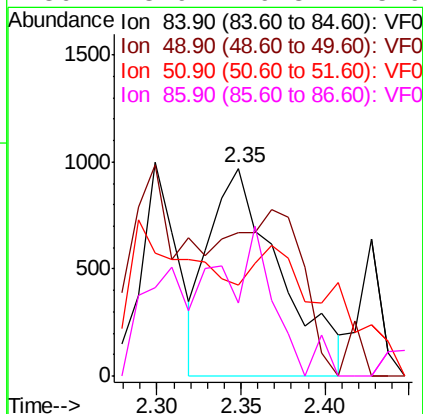
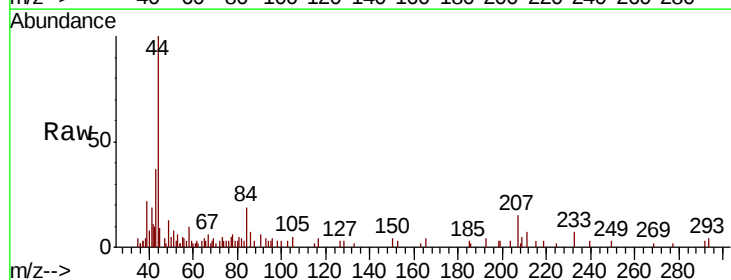
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ClientSampleId :
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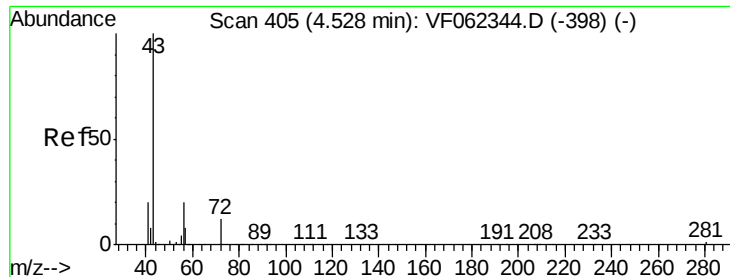
Tgt Ion: 43 Resp: 822
Ion Ratio Lower Upper
43 100
74 38.1 15.0 22.4#



#20
Methylene Chloride
Concen: 1.359 ug/l
RT: 2.35 min Scan# 184
Delta R.T. 0.01 min
Lab File: VF062542.D
Acq: 13 May 2019 15:27

Tgt Ion: 84 Resp: 2831
Ion Ratio Lower Upper
84 100
49 86.3 117.5 176.3#
51 0.0 37.0 55.4#
86 43.9 49.3 73.9#

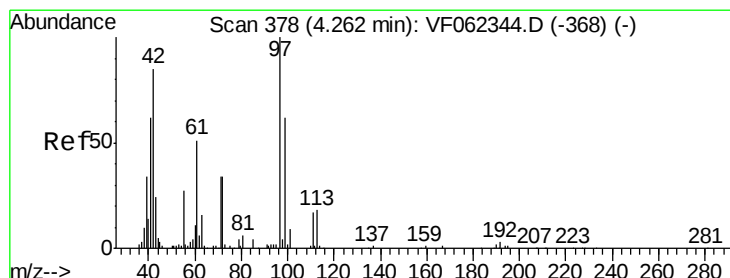
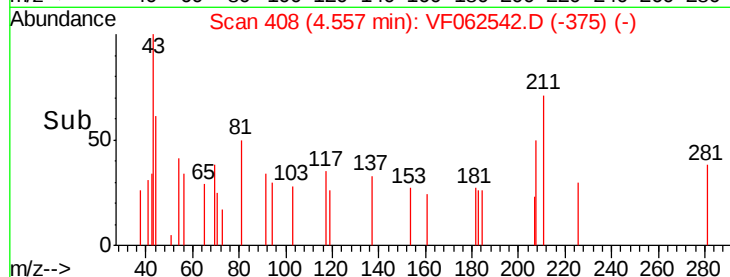
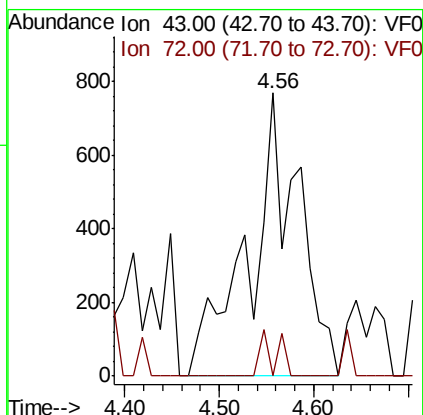
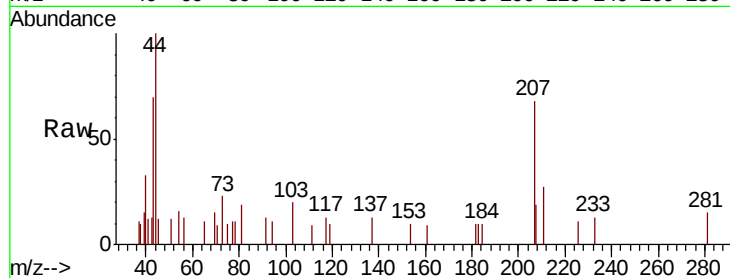




#25
2-Butanone
Concen: 3.871 ug/l
RT: 4.56 min Scan# 408
Delta R.T. 0.03 min
Lab File: VF062542.D
Acq: 13 May 2019 15:27

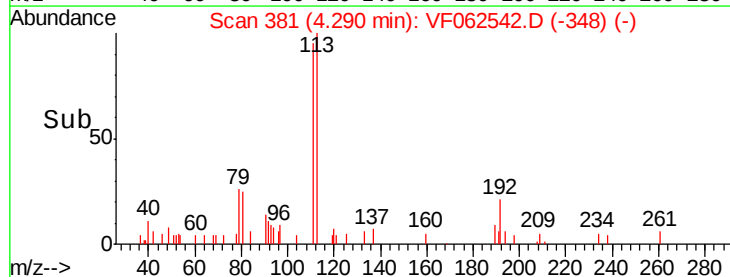
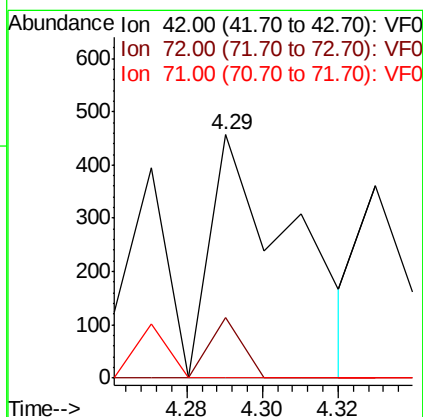
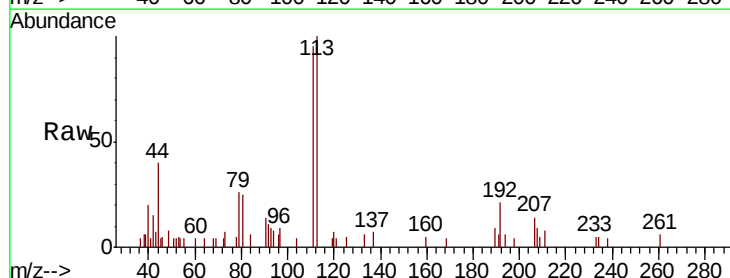
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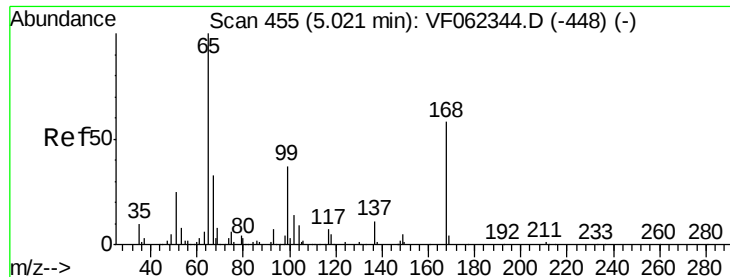
Tgt Ion: 43 Resp: 2801
Ion Ratio Lower Upper
43 100
72 0.0 14.2 21.4#



#29
Tetrahydrofuran
Concen: 2.081 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.03 min
Lab File: VF062542.D
Acq: 13 May 2019 15:27

Tgt Ion: 42 Resp: 692
Ion Ratio Lower Upper
42 100
72 9.7 31.4 47.0#
71 0.0 31.7 47.5#

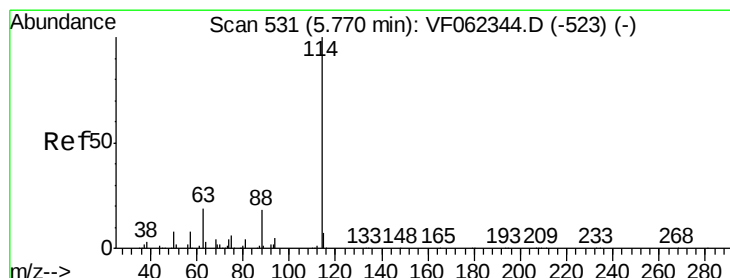
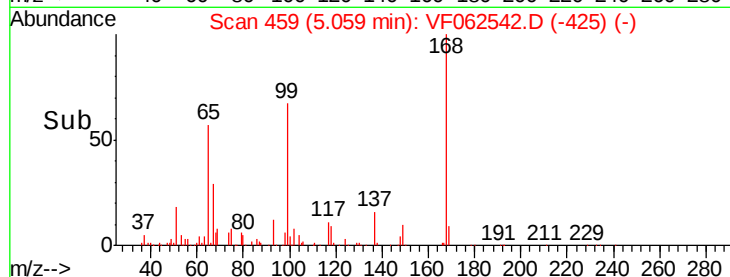
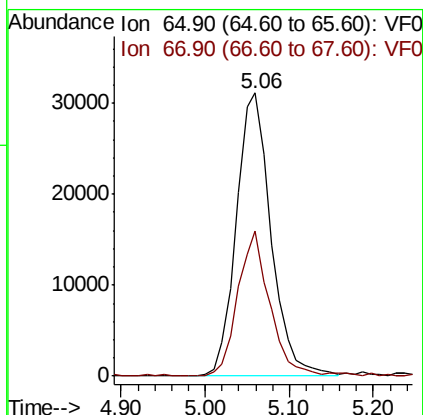
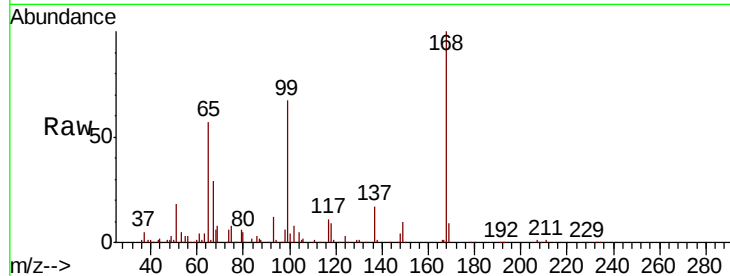




#33
 1,2-Dichloroethane-d4
 Concen: 31.452 ug/l
 RT: 5.06 min Scan# 459
 Delta R.T. 0.04 min
 Lab File: VF062542.D
 Acq: 13 May 2019 15:27

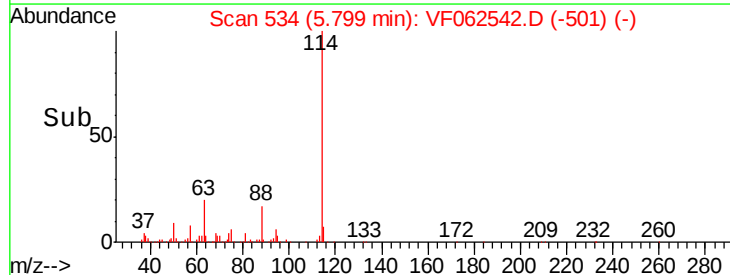
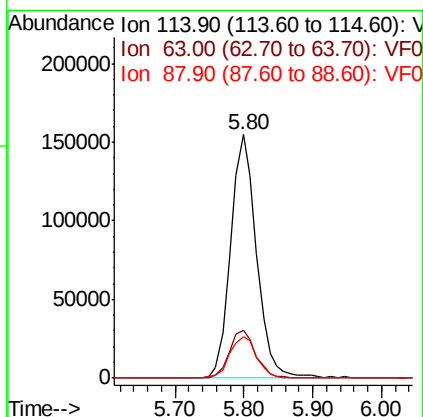
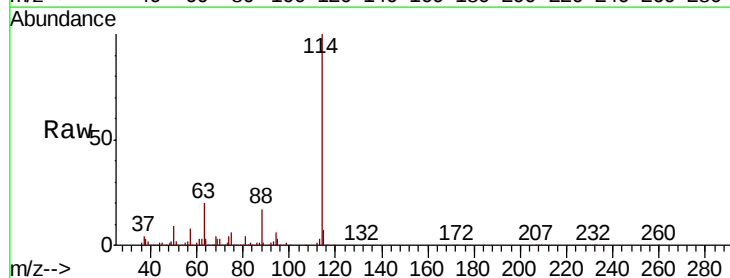
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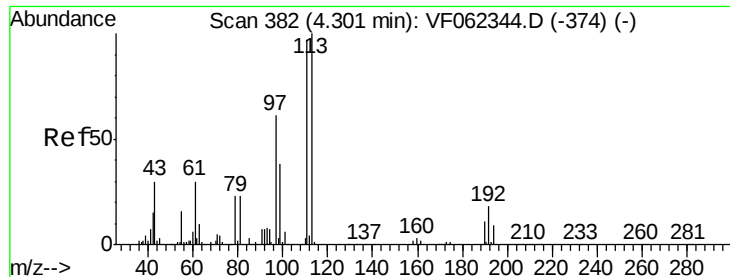
Tgt Ion: 65 Resp: 89548
 Ion Ratio Lower Upper
 65 100
 67 46.9 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.80 min Scan# 534
 Delta R.T. 0.03 min
 Lab File: VF062542.D
 Acq: 13 May 2019 15:27

Tgt Ion: 114 Resp: 402027
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 37.4
 88 17.0 0.0 36.4

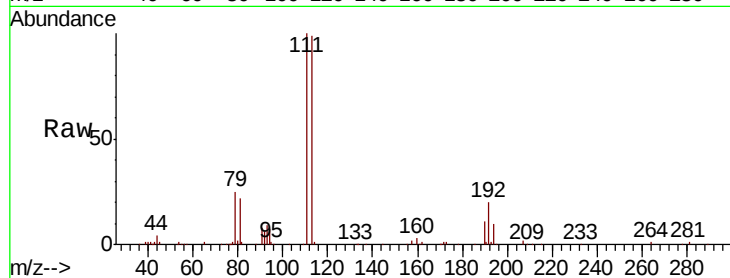




#35
Dibromofluoromethane
Concen: 36.921 ug/l
RT: 4.33 min Scan# 385
Delta R.T. 0.03 min
Lab File: VF062542.D
Acq: 13 May 2019 15:27

Instrument :
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ClientSampleId :
BP-VPB202-GW-258-260RE

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.7	79.4	119.0
192	21.2	16.0	24.0

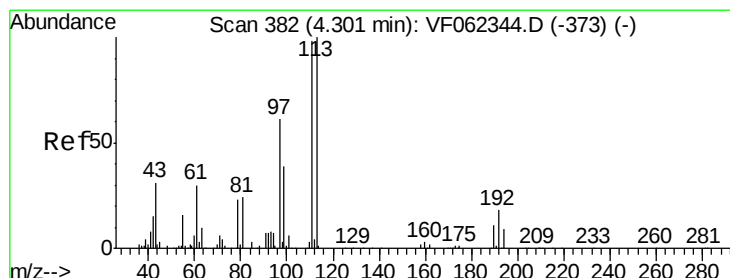
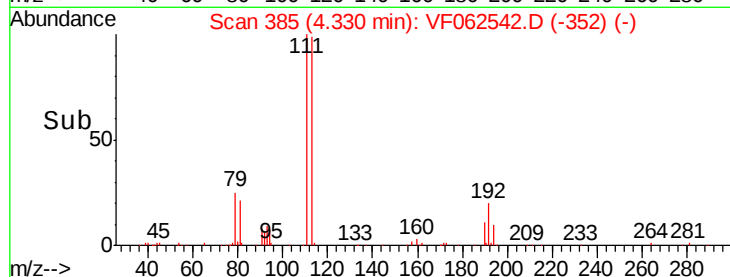
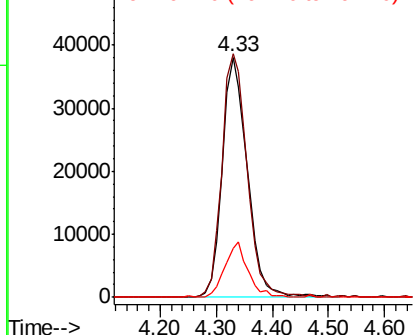


Abundance

Ion 112.80 (112.50 to 113.50): V

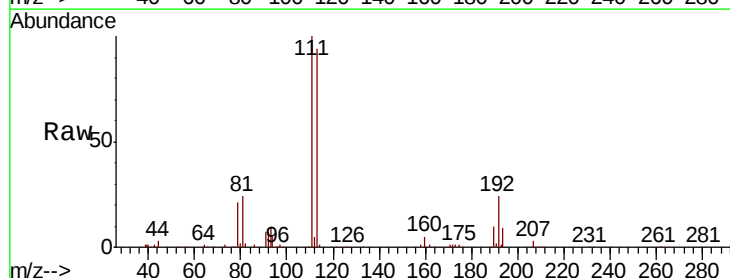
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#37
Ethyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 386
Delta R.T. 0.04 min
Lab File: VF062542.D
Acq: 13 May 2019 15:27

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	0.0	0.0
70	0.0	8.2	12.2#

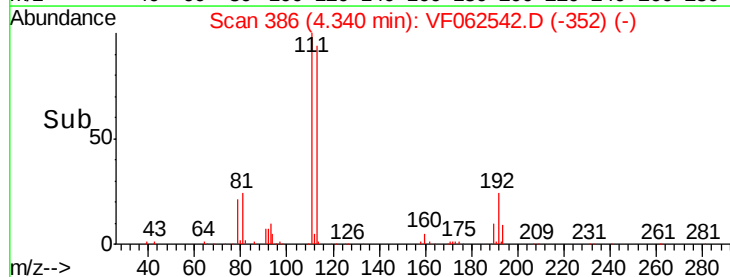
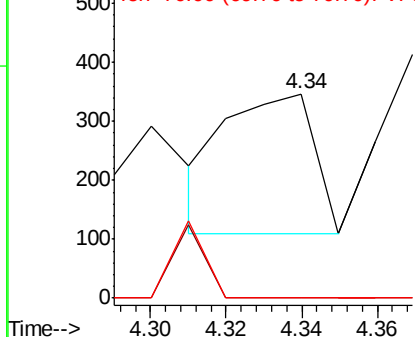


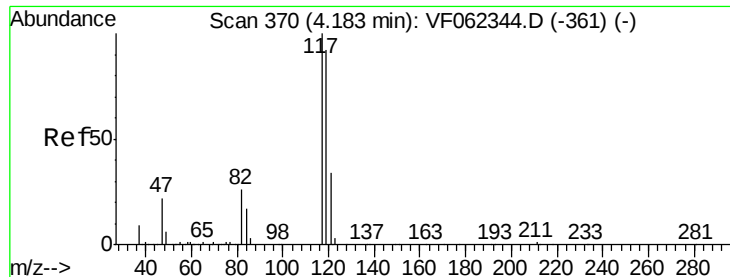
Abundance

Ion 43.00 (42.70 to 43.70): VF0

Ion 60.90 (60.60 to 61.60): VF0

Ion 70.00 (69.70 to 70.70): VF0





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.22 min Scan# 374

Delta R.T. 0.04 min

Lab File: VF062542.D

Acq: 13 May 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

BP-VPB202-GW-258-260RE

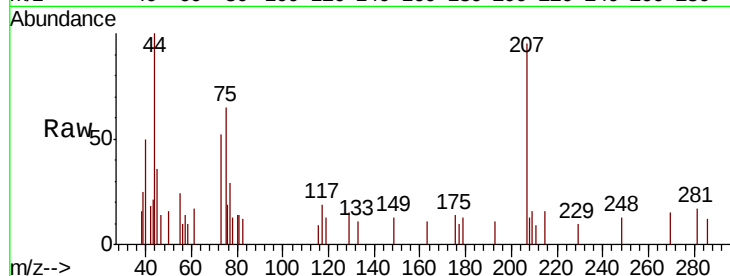
Tgt Ion: 117 Resp: 124

Ion Ratio Lower Upper

117 100

119 69.0 73.4 110.2#

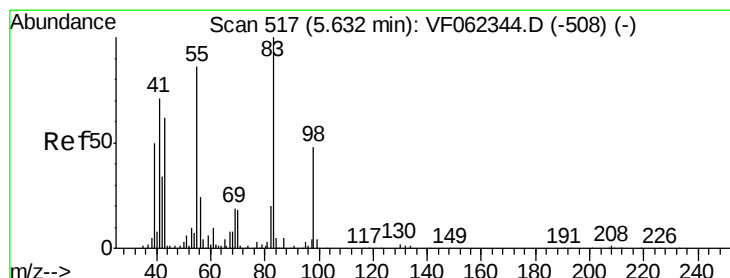
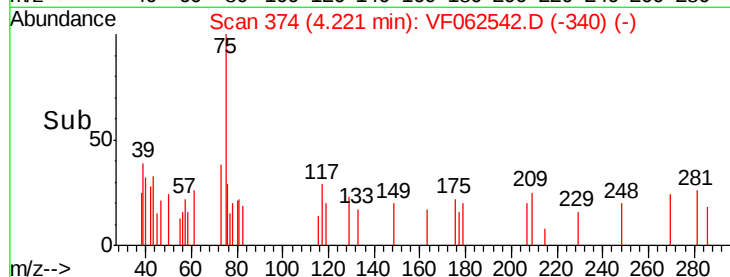
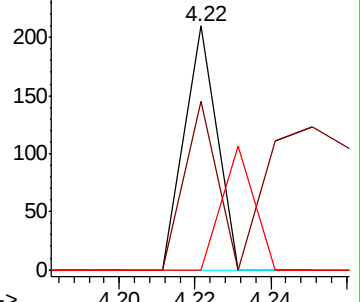
121 0.0 27.4 41.0#



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



#39

Methylcyclohexane

Concen: 1.719 ug/l

RT: 5.79 min Scan# 533

Delta R.T. 0.16 min

Lab File: VF062542.D

Acq: 13 May 2019 15:27

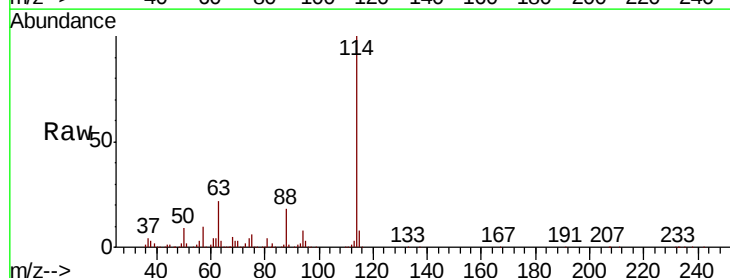
Tgt Ion: 83 Resp: 5955

Ion Ratio Lower Upper

83 100

55 26.0 69.0 103.6#

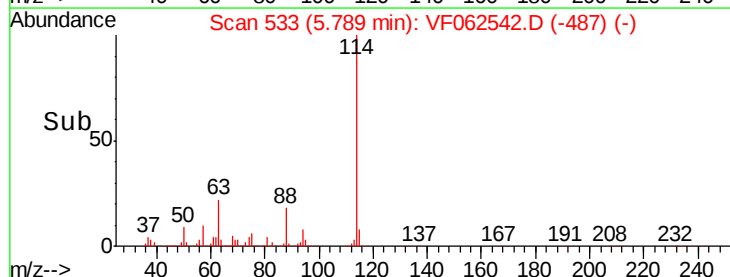
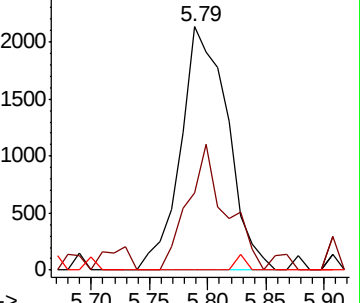
98 0.0 38.6 58.0#

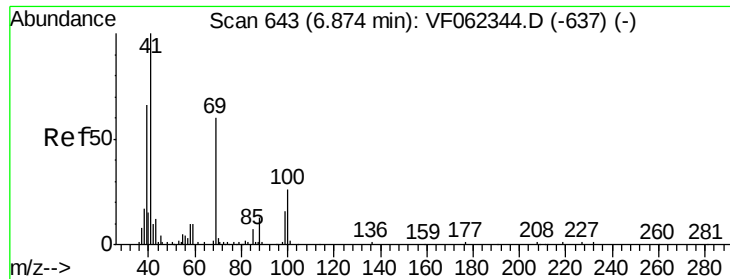


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

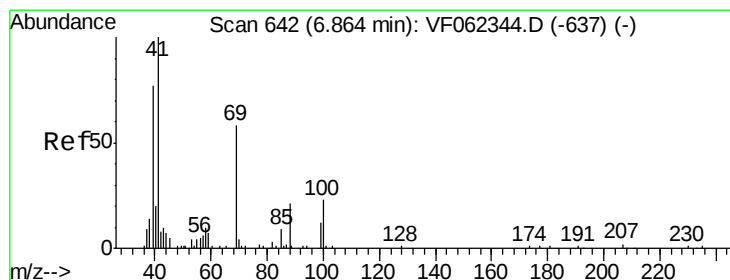
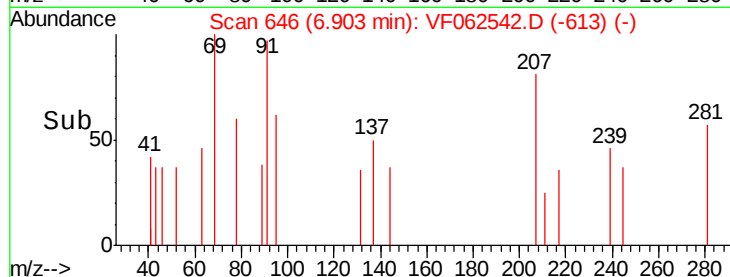
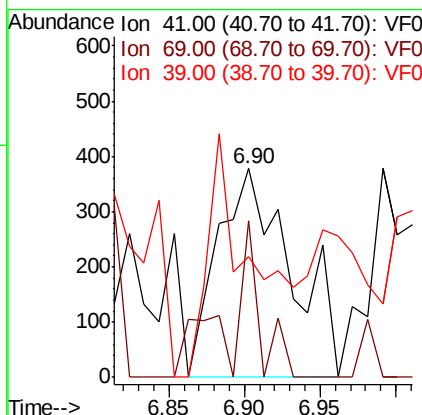
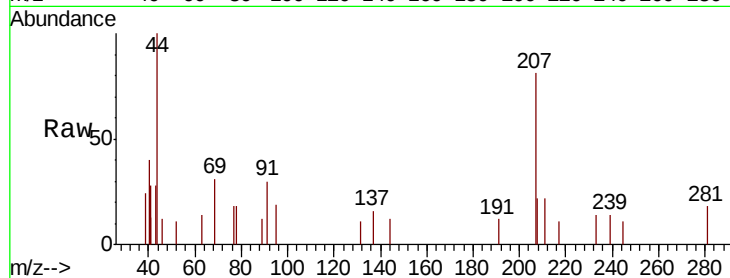




#48
Methyl methacrylate
Concen: 1.141 ug/l
RT: 6.90 min Scan# 646
Delta R.T. 0.03 min
Lab File: VF062542.D
Acq: 13 May 2019 15:27

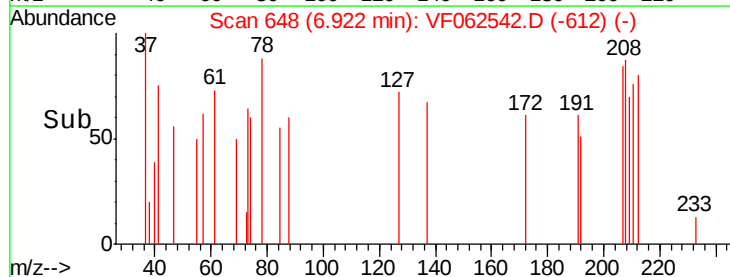
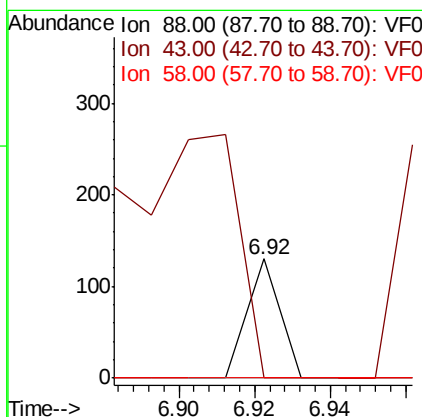
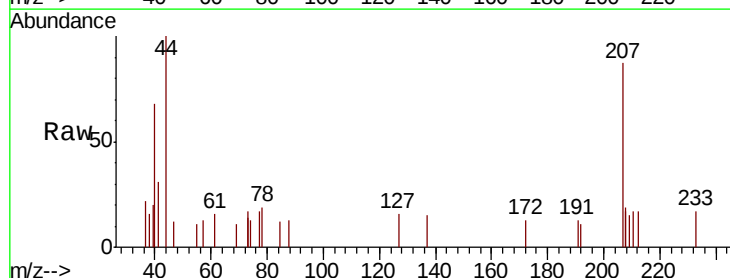
Instrument :
MSVOA_F
ClientSampleId :
BP-VPB202-GW-258-260RE

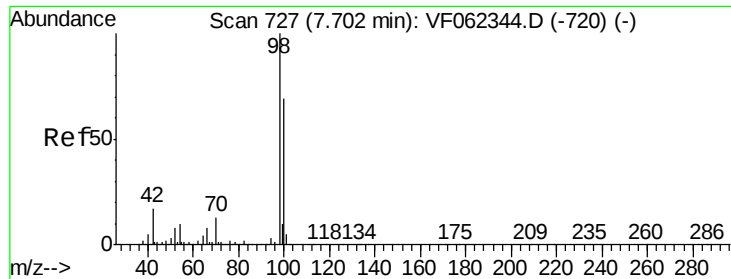
Tgt Ion: 41 Resp: 1267
Ion Ratio Lower Upper
41 100
69 33.2 48.6 72.8#
39 72.3 56.1 84.1



#49
1,4-Dioxane
Concen: Below Cal
RT: 6.92 min Scan# 648
Delta R.T. 0.06 min
Lab File: VF062542.D
Acq: 13 May 2019 15:27

Tgt Ion: 88 Resp: 77
Ion Ratio Lower Upper
88 100
43 806.5 55.6 83.4#
58 0.0 52.8 79.2#

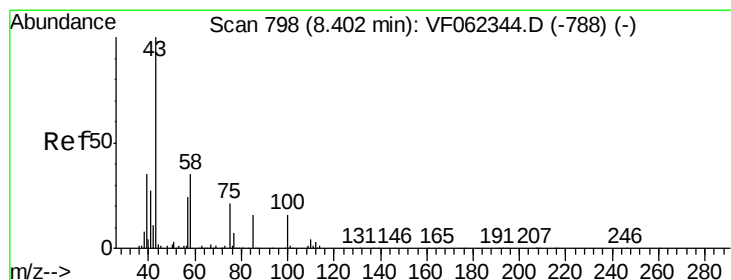
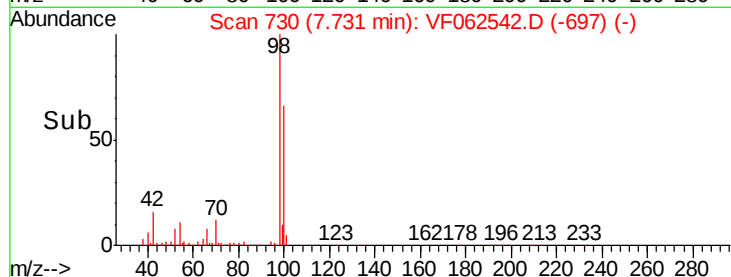
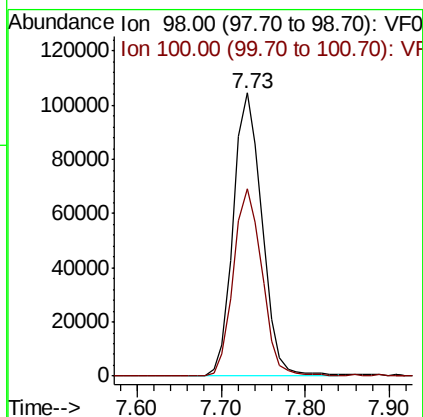
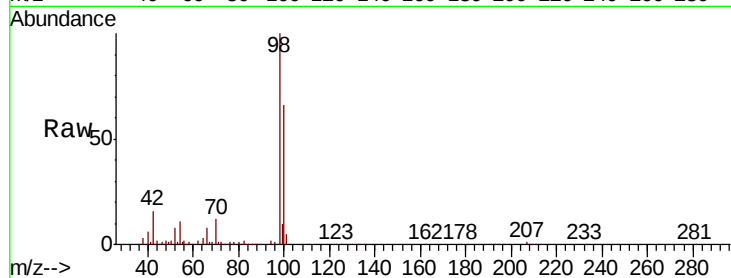




#50
Toluene-d8
Concen: 32.230 ug/l
RT: 7.73 min Scan# 730
Delta R.T. 0.03 min
Lab File: VF062542.D
Acq: 13 May 2019 15:27

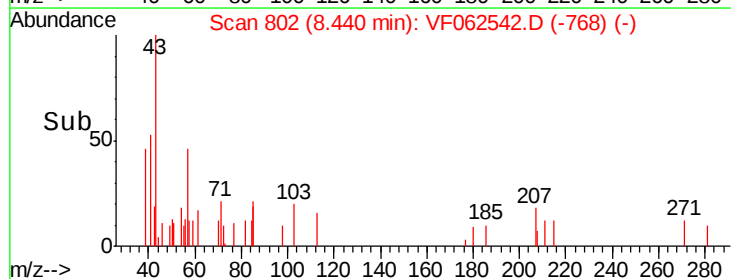
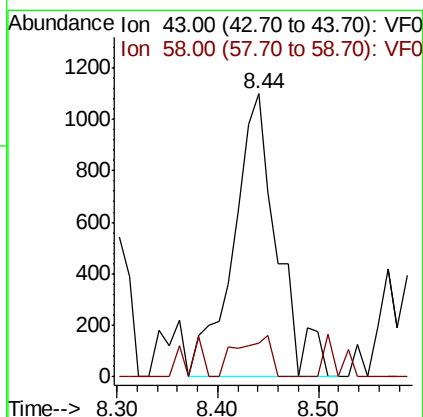
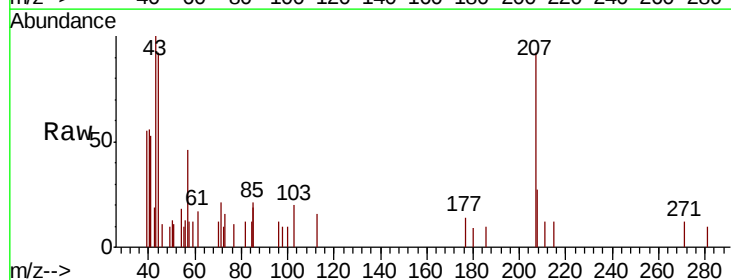
Instrument :
MSVOA_F
ClientSampleId :
BP-VPB202-GW-258-260RE

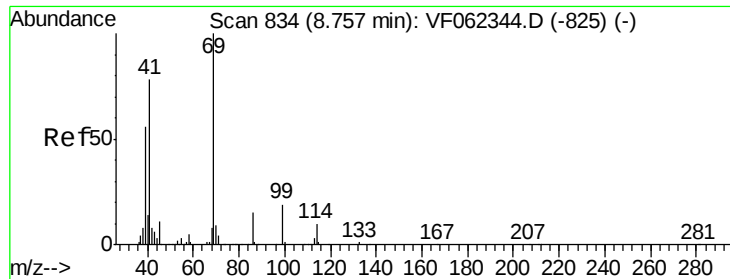
Tgt Ion: 98 Resp: 249882
Ion Ratio Lower Upper
98 100
100 66.1 53.3 79.9



#51
4-Methyl-2-Pentanone
Concen: 2.796 ug/l
RT: 8.44 min Scan# 802
Delta R.T. 0.04 min
Lab File: VF062542.D
Acq: 13 May 2019 15:27

Tgt Ion: 43 Resp: 3328
Ion Ratio Lower Upper
43 100
58 11.5 27.8 41.6#





#56

Ethyl methacrylate

Concen: 1.148 ug/l

RT: 8.79 min Scan# 837

Delta R.T. 0.03 min

Lab File: VF062542.D

Acq: 13 May 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

BP-VPB202-GW-258-260RE

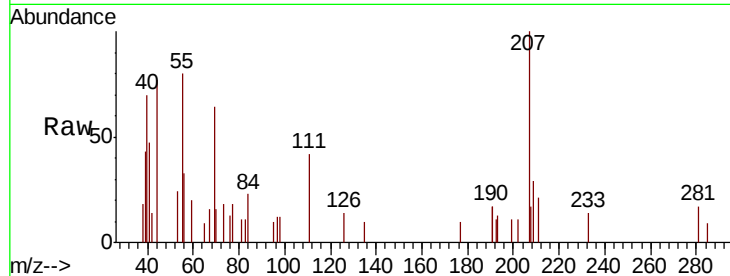
Tgt Ion: 69 Resp: 1805

Ion Ratio Lower Upper

69 100

41 0.0 66.3 99.5#

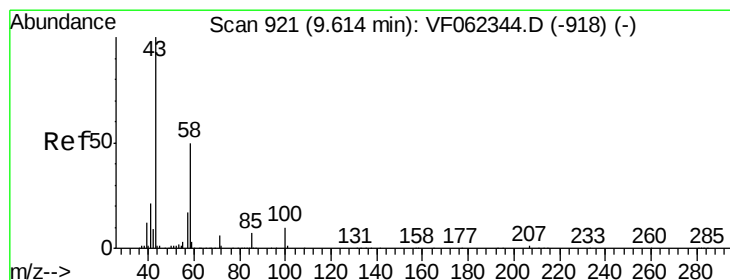
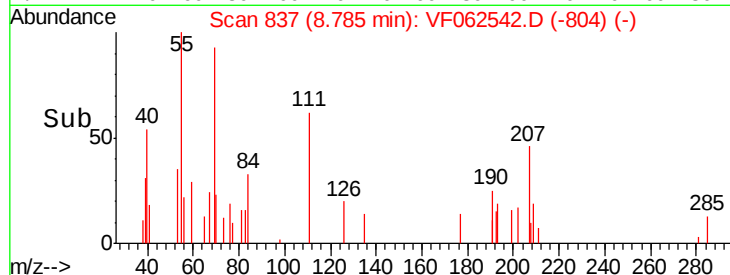
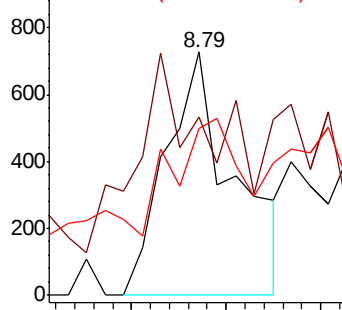
39 46.3 50.1 75.1#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#59

2-Hexanone

Concen: 2.523 ug/l

RT: 9.65 min Scan# 925

Delta R.T. 0.04 min

Lab File: VF062542.D

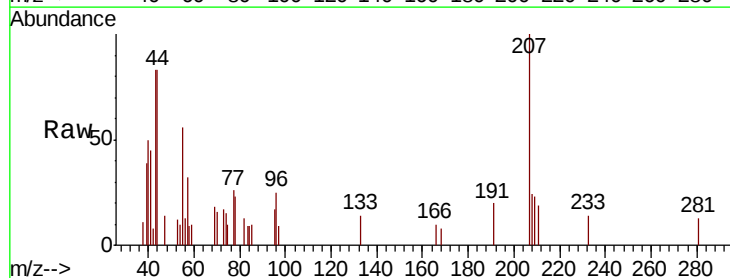
Acq: 13 May 2019 15:27

Tgt Ion: 43 Resp: 2077

Ion Ratio Lower Upper

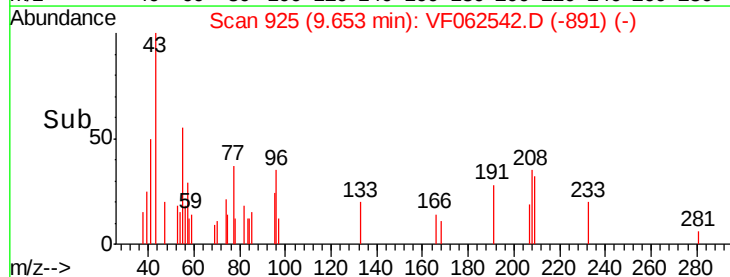
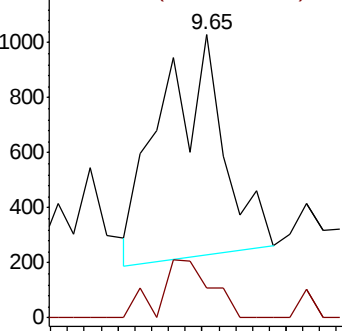
43 100

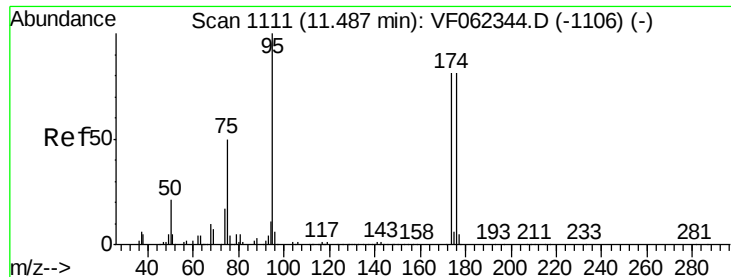
58 21.1 24.3 73.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 30.162 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF062542.D

Acq: 13 May 2019 15:27

Instrument :

MSVOA_F

ClientSampleId :

BP-VPB202-GW-258-260RE

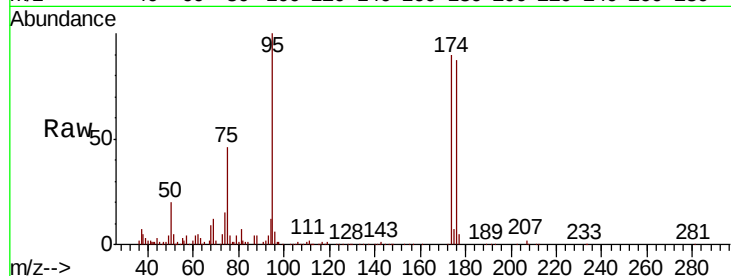
Tgt Ion: 95 Resp: 105502

Ion Ratio Lower Upper

95 100

174 93.3 0.0 191.8

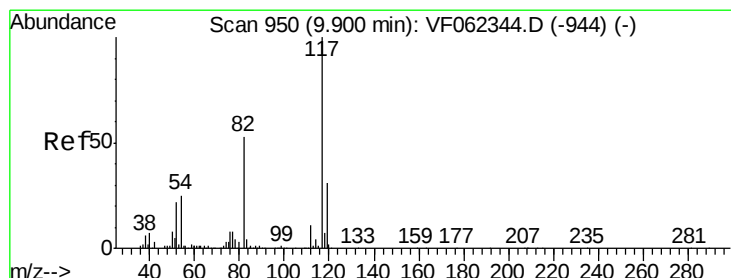
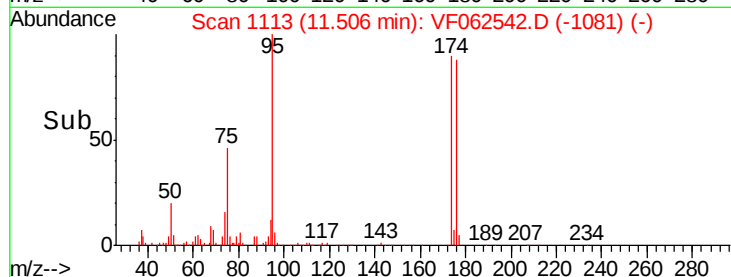
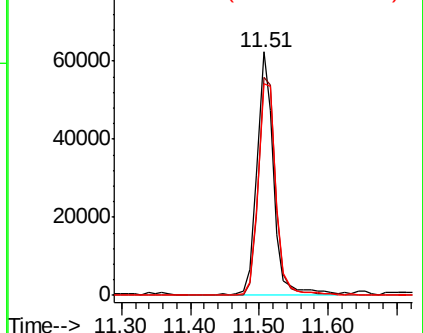
176 94.5 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.93 min Scan# 953

Delta R.T. 0.03 min

Lab File: VF062542.D

Acq: 13 May 2019 15:27

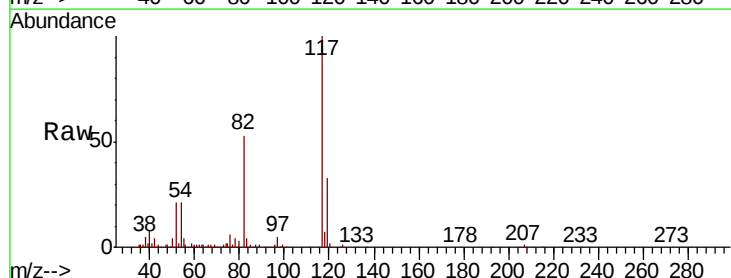
Tgt Ion: 117 Resp: 323989

Ion Ratio Lower Upper

117 100

82 52.9 42.2 63.2

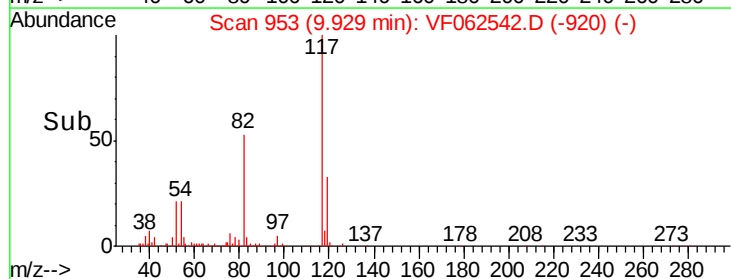
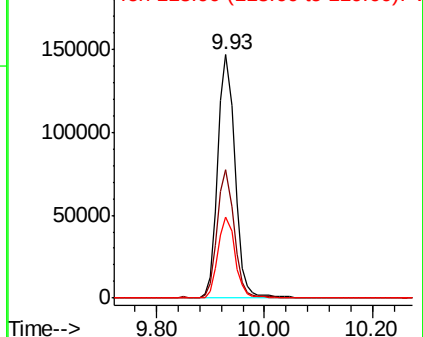
119 33.2 25.0 37.4

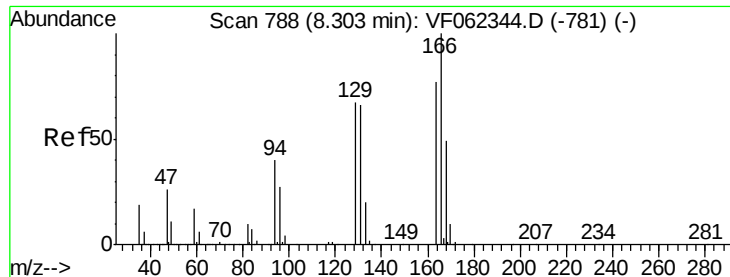


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V

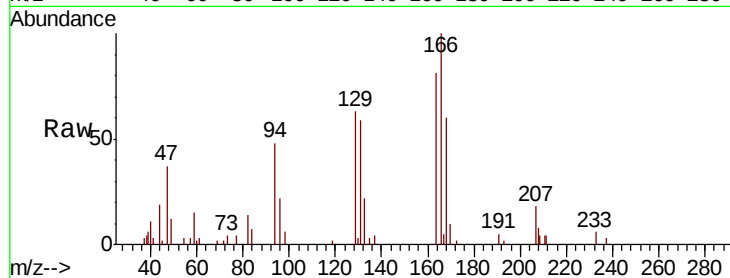




#64
Tetrachloroethene
Concen: 3.422 ug/l
RT: 8.33 min Scan# 791
Delta R.T. 0.03 min
Lab File: VF062542.D
Acq: 13 May 2019 15:27

Instrument :
MSVOA_F
ClientSampleId :
BP-VPB202-GW-258-260RE

Tgt Ion:	164	Resp:	9001
Ion	Ratio	Lower	Upper
164	100		
166	122.8	104.2	156.4
129	77.1	69.6	104.4
131	72.2	68.8	103.2



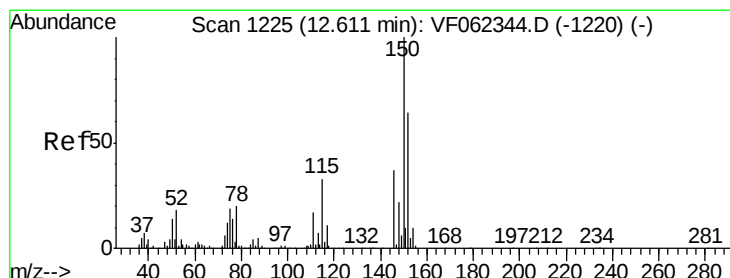
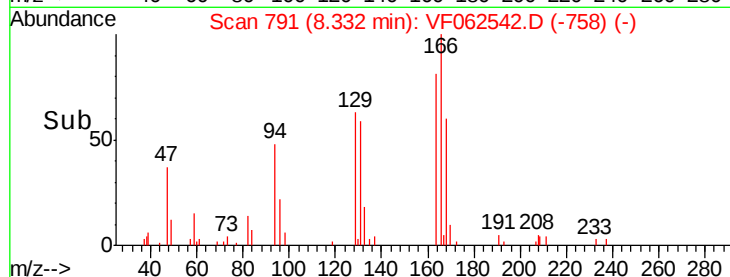
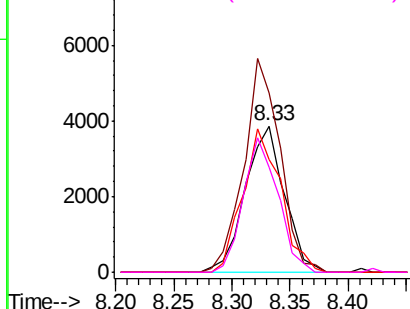
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

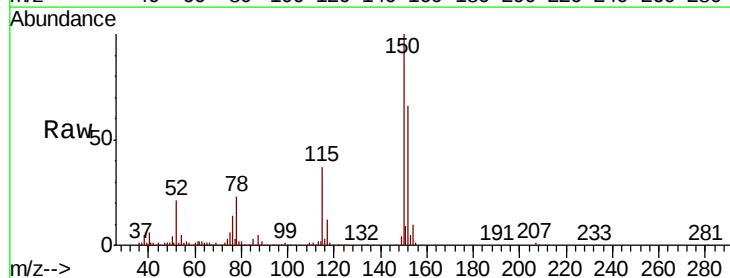
Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. 0.01 min
Lab File: VF062542.D
Acq: 13 May 2019 15:27

Tgt Ion:	152	Resp:	176056
Ion	Ratio	Lower	Upper
152	100		
115	54.8	26.4	79.2
150	154.4	0.0	335.0



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

