

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051319\
 Data File : VF062547.D
 Acq On : 13 May 2019 17:47
 Operator : FY/SY
 Sample : K2771-02
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 FK-PS-01-047

Quant Time: May 14 07:03:41 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	151398	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.80	114	182376	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.93	117	147987	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	79469	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.05	65	52586	36.75	ug/l	0.03
Spiked Amount 50.000			Recovery =	73.50%		
35) Dibromofluoromethane	4.34	113	64425	44.34	ug/l	0.03
Spiked Amount 50.000			Recovery =	88.68%		
50) Toluene-d8	7.74	98	124561	35.42	ug/l	0.03
Spiked Amount 50.000			Recovery =	70.84%		
62) 4-Bromofluorobenzene	11.51	95	53317	33.60	ug/l	0.02
Spiked Amount 50.000			Recovery =	67.20%		

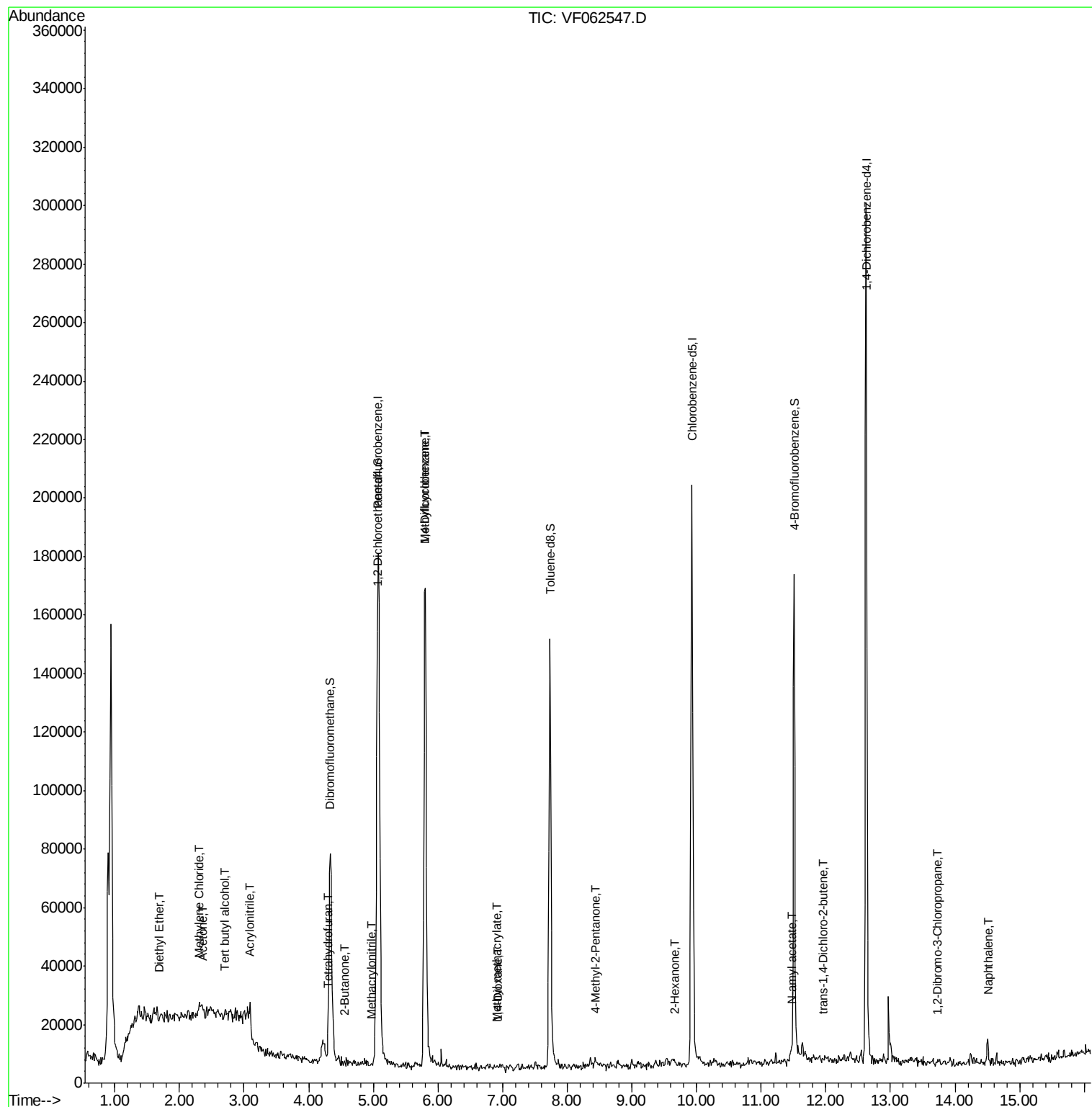
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.39	94	432	Below Cal	#	31
8) Diethyl Ether	1.68	74	452	1.249	ug/l	43
11) Tert butyl alcohol	2.69	59	959	11.860	ug/l #	70
13) Acrolein	2.10	56	380	Below Cal	#	13
15) Acrylonitrile	3.10	53	911	5.947	ug/l #	56
16) Acetone	2.36	43	5281	18.246	ug/l #	65
18) Methyl Acetate	2.49	43	1319	Below Cal		95
20) Methylene Chloride	2.30	84	1203	1.149	ug/l #	82
25) 2-Butanone	4.54	43	1300	3.575	ug/l #	60
29) Tetrahydrofuran	4.29	42	487	2.914	ug/l #	46
37) Ethyl Acetate	4.30	43	600	Below Cal	#	99
38) Carbon Tetrachloride	4.18	117	130	Below Cal	#	14
39) Methylcyclohexane	5.80	83	3583	2.280	ug/l #	33
41) Methacrylonitrile	4.98	41	392	1.044	ug/l #	33
48) Methyl methacrylate	6.90	41	632	1.255	ug/l #	17
49) 1,4-Dioxane	6.91	88	129	11.996	ug/l #	1
51) 4-Methyl-2-Pentanone	8.43	43	1862	3.448	ug/l #	67
59) 2-Hexanone	9.65	43	2356	6.309	ug/l	92
74) N-amyl acetate	11.46	43	3195	3.159	ug/l #	90
81) trans-1,4-Dichloro-2-buten	11.96	75	290	1.371	ug/l #	51
92) 1,2-Dibromo-3-Chloropropan	13.74	75	211	1.277	ug/l #	1
95) Naphthalene	14.51	128	6890	2.338	ug/l #	96

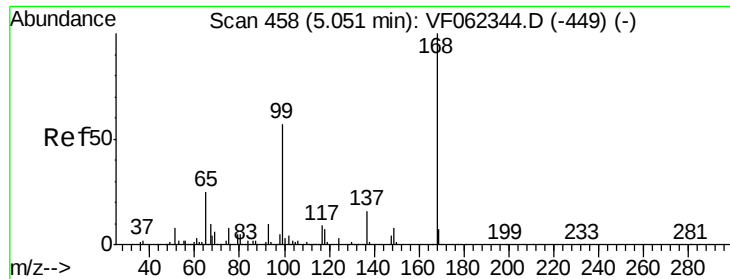
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 462

Delta R.T. 0.03 min

Lab File: VF062547.D

Acq: 13 May 2019 17:47

Instrument :

MSVOA_F

ClientSampleId :

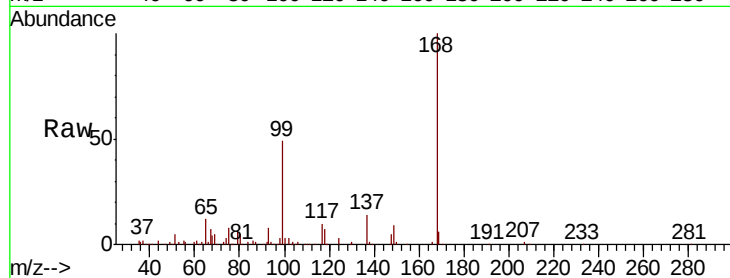
FK-PS-01-047

Tot Ion:168 Resp: 151398

Ion Ratio Lower Upper

168 100

99 49.1 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.08

60000

50000

40000

30000

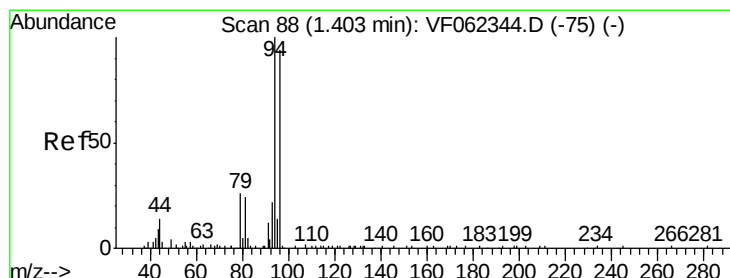
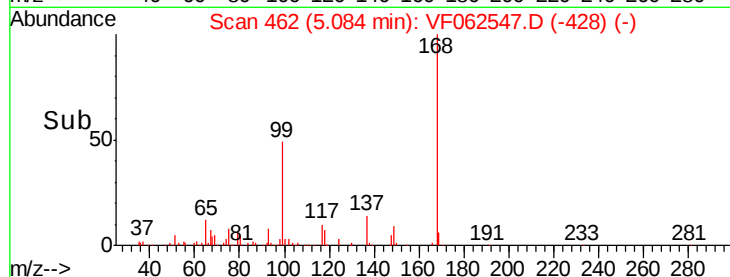
20000

10000

0

Time-->

5.00 5.10 5.20



#5

Bromomethane

Concen: Below Cal

RT: 1.39 min Scan# 87

Delta R.T. -0.02 min

Lab File: VF062547.D

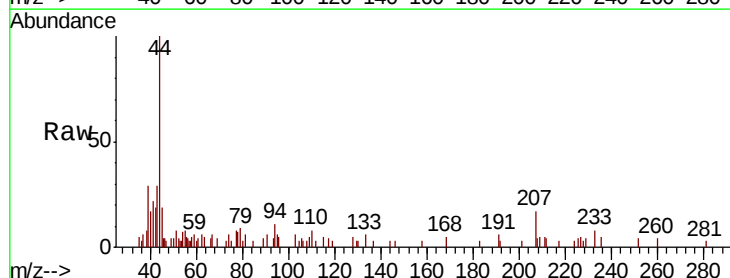
Acq: 13 May 2019 17:47

Tgt Ion: 94 Resp: 432

Ion Ratio Lower Upper

94 100

96 27.9 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.39

600

500

400

300

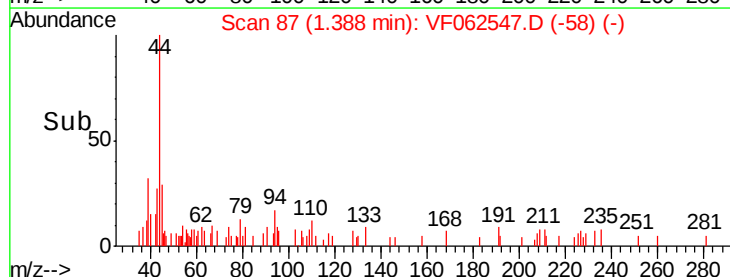
200

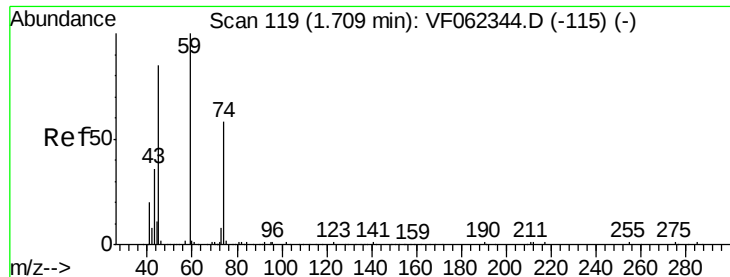
100

0

Time-->

1.34 1.36 1.38 1.40

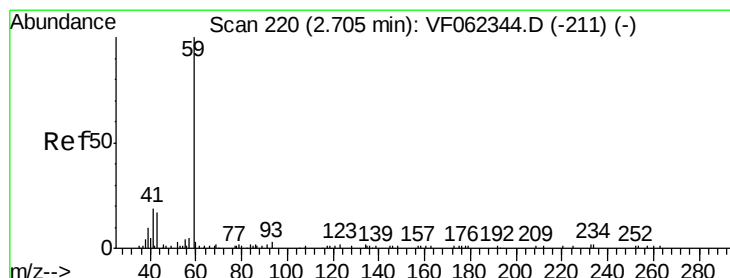
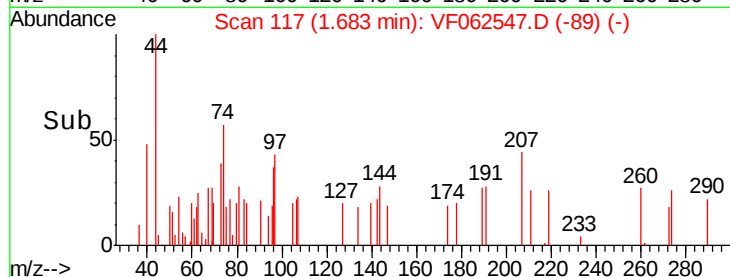
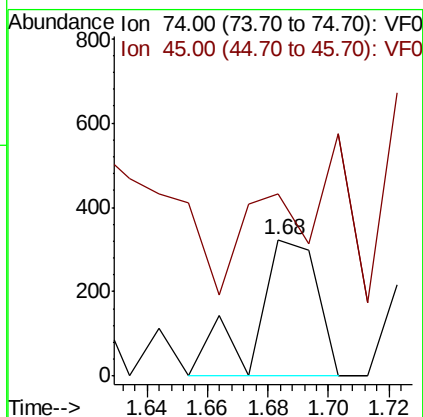
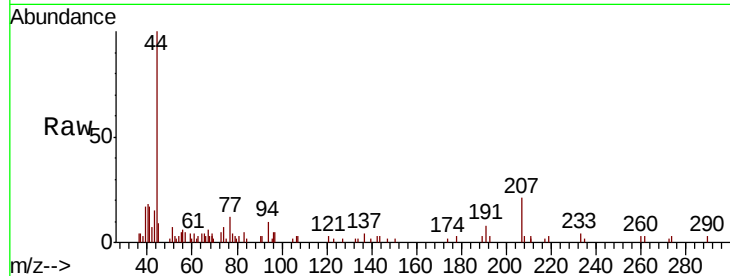




#8
Diethyl Ether
Concen: 1.249 ug/l
RT: 1.68 min Scan# 117
Delta R.T. -0.03 min
Lab File: VF062547.D
Acq: 13 May 2019 17:47

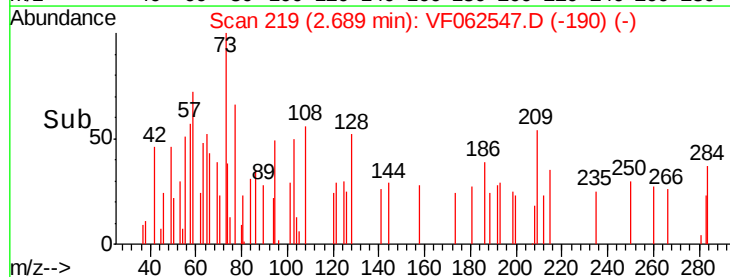
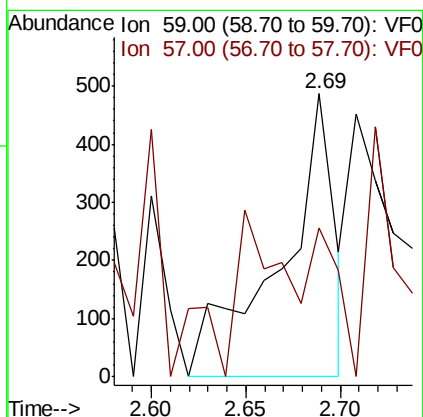
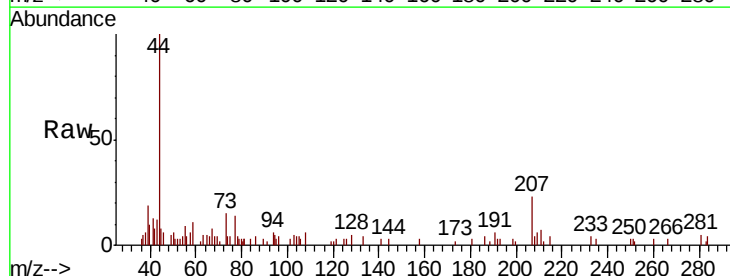
Instrument :
MSVOA_F
ClientSampleId :
FK-PS-01-047

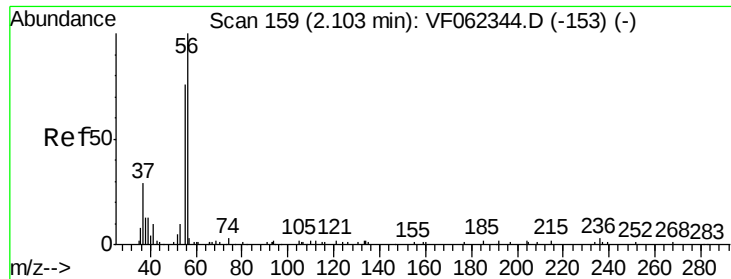
Tot Ion: 74 Resp: 452
Ion Ratio Lower Upper
74 100
45 76.3 73.9 221.6



#11
Tert butyl alcohol
Concen: 11.860 ug/l
RT: 2.69 min Scan# 219
Delta R.T. -0.02 min
Lab File: VF062547.D
Acq: 13 May 2019 17:47

Tgt Ion: 59 Resp: 959
Ion Ratio Lower Upper
59 100
57 0.0 9.3 13.9#





#13

Acrolein

Concen: Below Cal

RT: 2.10 min Scan# 159

Delta R.T. -0.01 min

Lab File: VF062547.D

Acq: 13 May 2019 17:47

Instrument :

MSVOA_F

ClientSampleId :

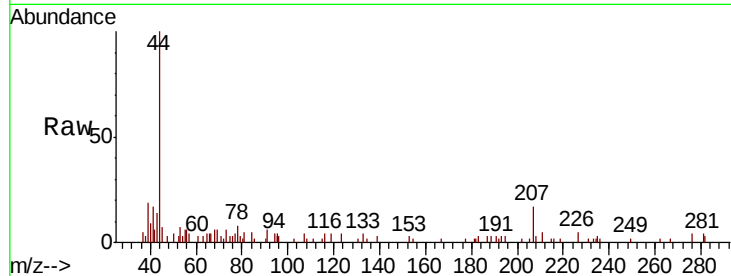
FK-PS-01-047

Tot Ion: 56 Resp: 380

Ion Ratio Lower Upper

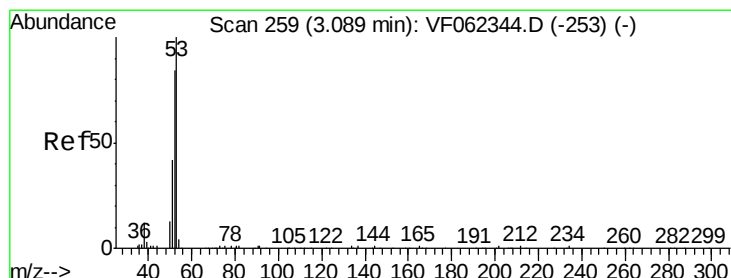
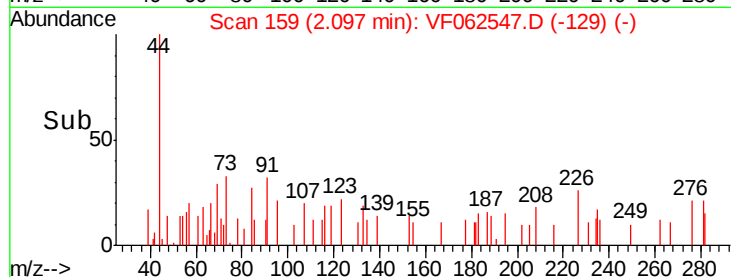
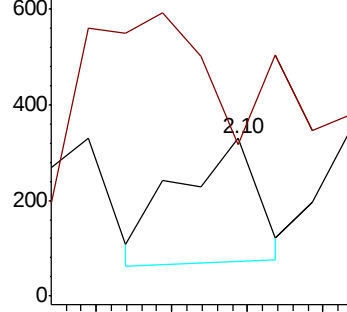
56 100

55 0.0 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#15

Acrylonitrile

Concen: 5.947 ug/l

RT: 3.10 min Scan# 261

Delta R.T. 0.01 min

Lab File: VF062547.D

Acq: 13 May 2019 17:47

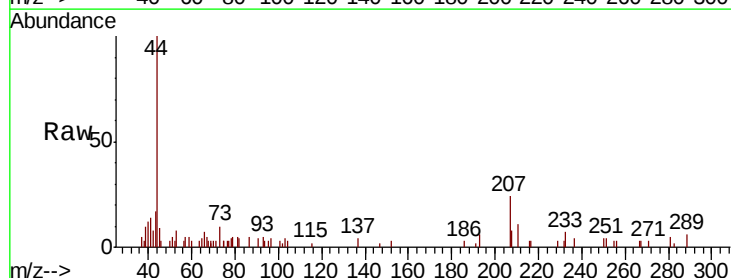
Tgt Ion: 53 Resp: 911

Ion Ratio Lower Upper

53 100

52 68.4 77.2 115.8#

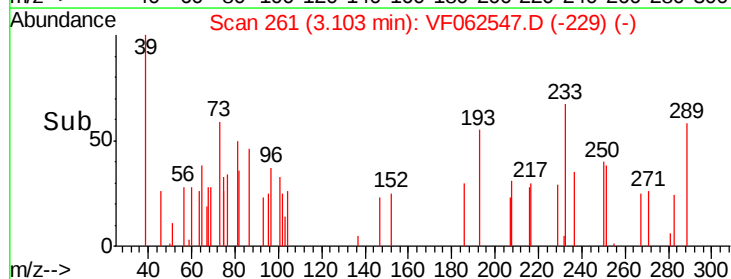
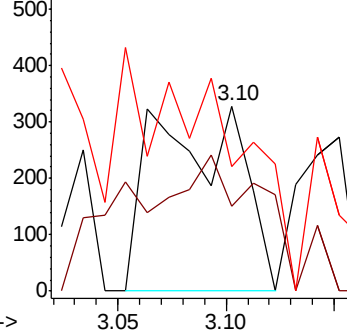
51 0.0 40.6 61.0#

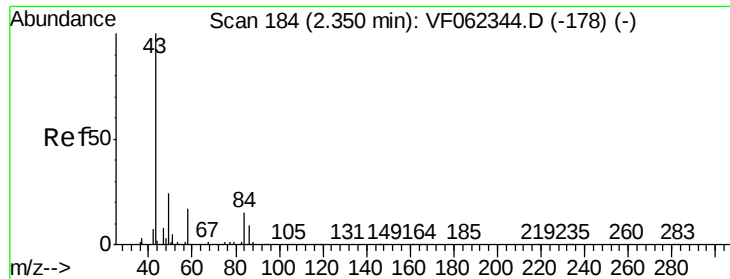


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 18.246 ug/l

RT: 2.36 min Scan# 186

Delta R.T. 0.01 min

Lab File: VF062547.D

Acq: 13 May 2019 17:47

Instrument :

MSVOA_F

ClientSampleId :

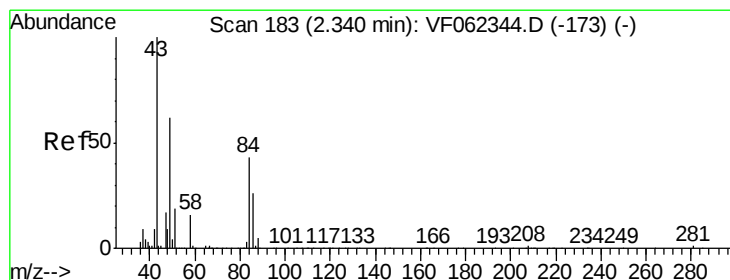
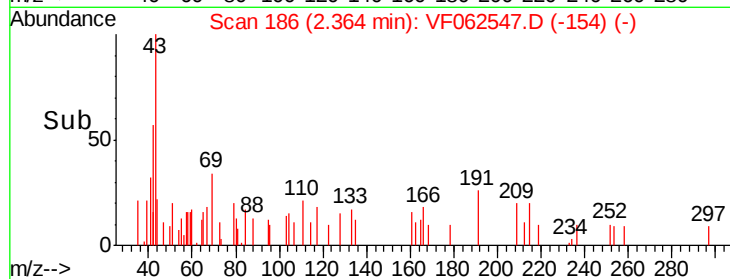
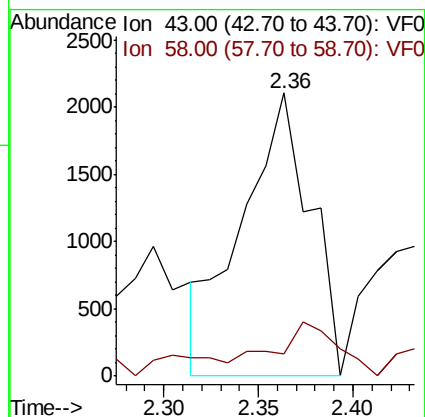
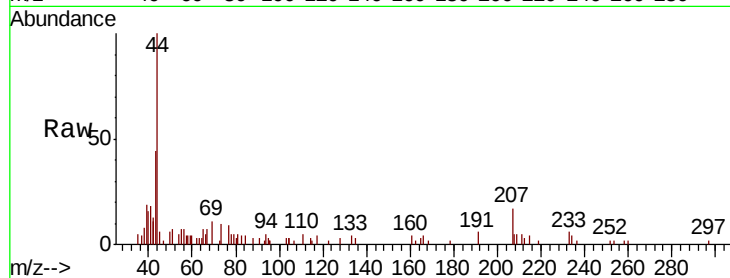
FK-PS-01-047

Tot Ion: 43 Resp: 5281

Ion Ratio Lower Upper

43 100

58 1.6 13.1 19.7#



#20

Methylene Chloride

Concen: 1.149 ug/l

RT: 2.30 min Scan# 180

Delta R.T. -0.04 min

Lab File: VF062547.D

Acq: 13 May 2019 17:47

Tgt Ion: 84 Resp: 1203

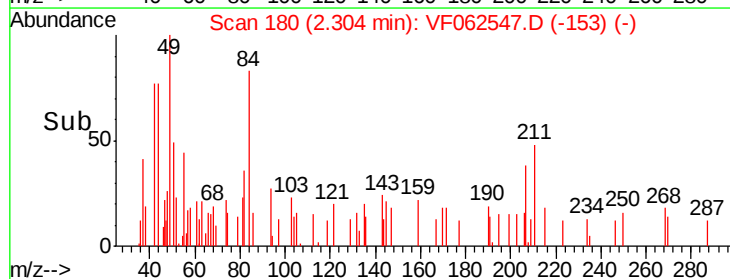
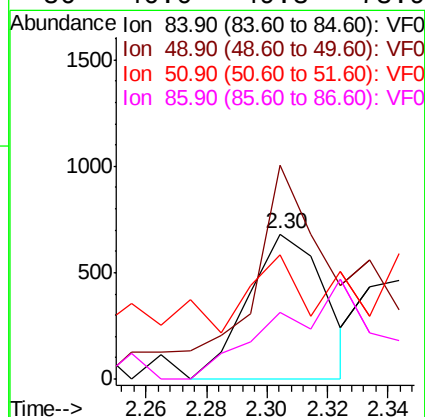
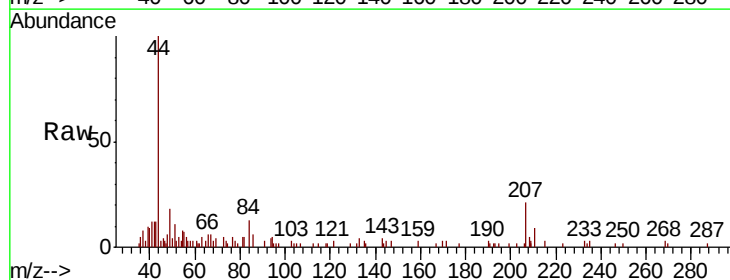
Ion Ratio Lower Upper

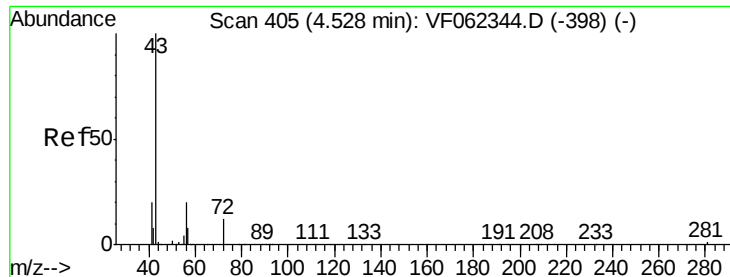
84 100

49 127.4 117.5 176.3

51 30.8 37.0 55.4#

86 46.0 49.3 73.9#

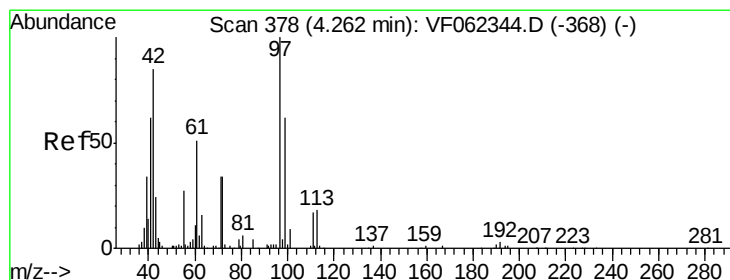
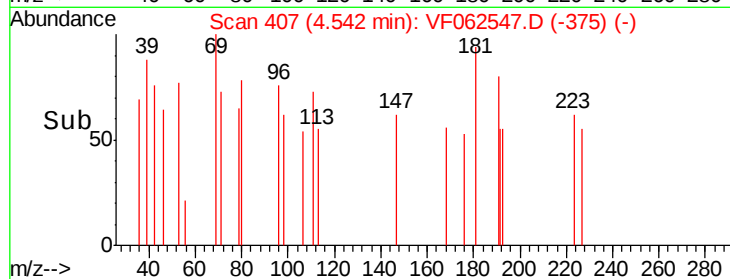
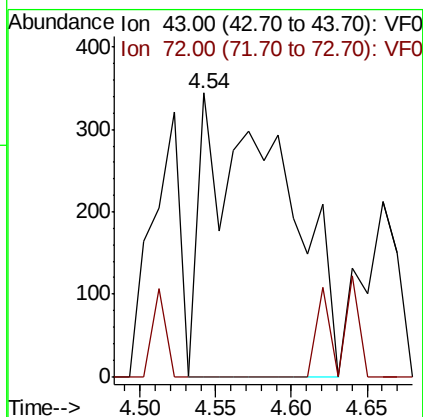
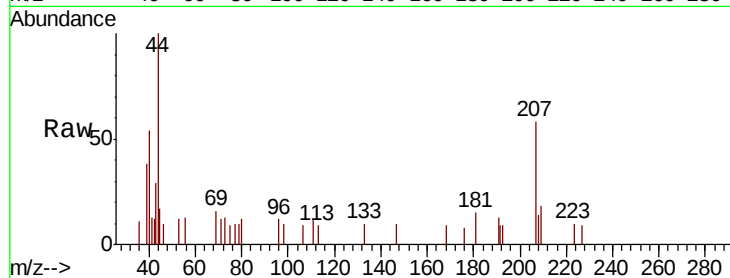




#25
2-Butanone
Concen: 3.575 ug/l
RT: 4.54 min Scan# 407
Delta R.T. 0.01 min
Lab File: VF062547.D
Acq: 13 May 2019 17:47

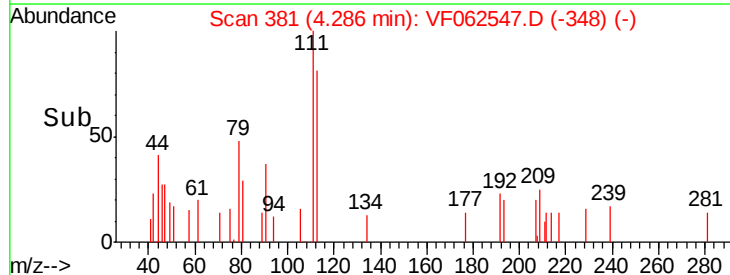
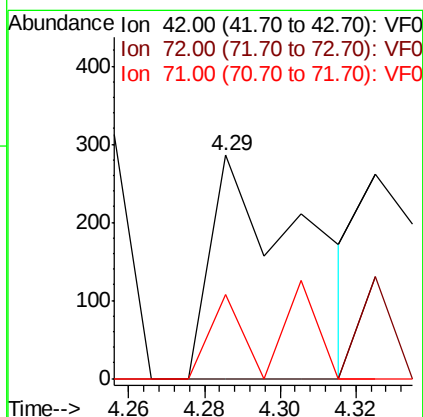
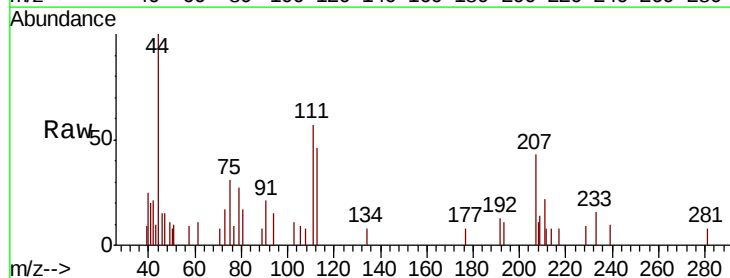
Instrument :
MSVOA_F
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FK-PS-01-047

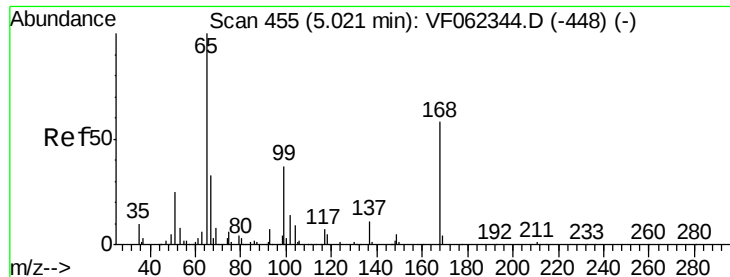
Tot Ion: 43 Resp: 1300
Ion Ratio Lower Upper
43 100
72 0.0 14.2 21.4#



#29
Tetrahydrofuran
Concen: 2.914 ug/l
RT: 4.29 min Scan# 381
Delta R.T. 0.02 min
Lab File: VF062547.D
Acq: 13 May 2019 17:47

Tgt Ion: 42 Resp: 487
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 12.9 31.7 47.5#





#33

1,2-Dichloroethane-d4

Concen: 36.753 ug/l

RT: 5.05 min Scan# 459

Delta R.T. 0.03 min

Lab File: VF062547.D

Acq: 13 May 2019 17:47

Instrument :

MSVOA_F

ClientSampleId :

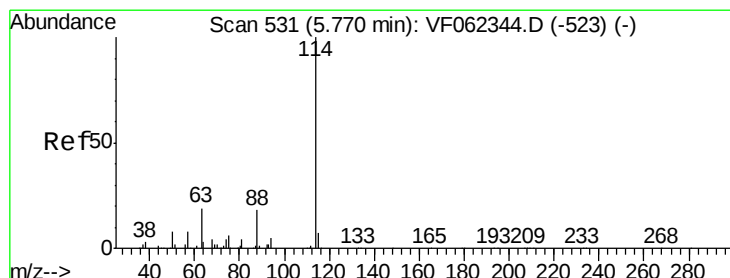
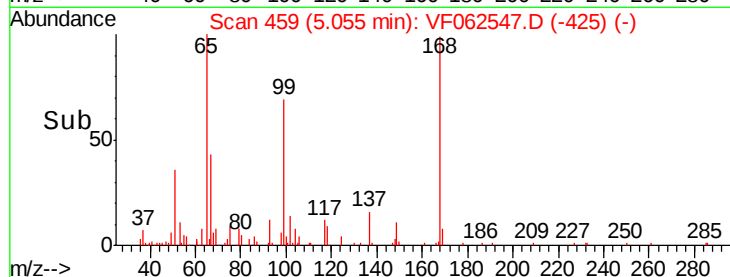
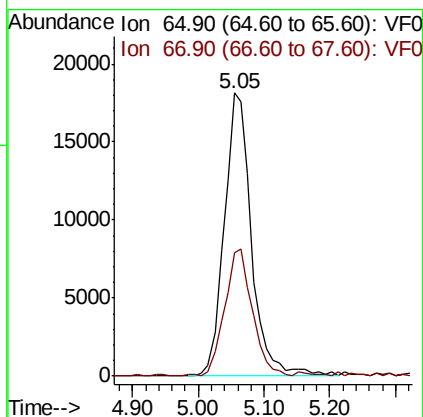
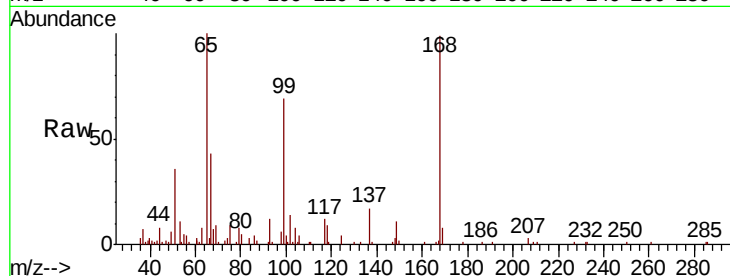
FK-PS-01-047

Tot Ion: 65 Resp: 52586

Ion Ratio Lower Upper

65 100

67 45.5 0.0 85.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.80 min Scan# 535

Delta R.T. 0.03 min

Lab File: VF062547.D

Acq: 13 May 2019 17:47

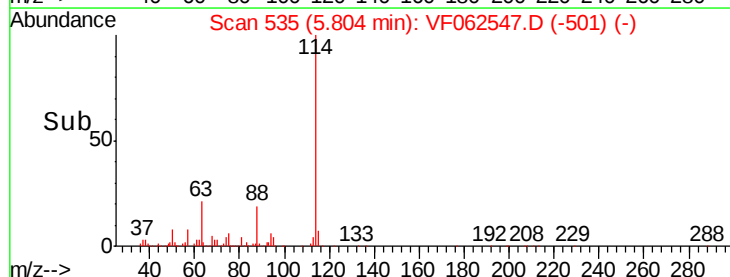
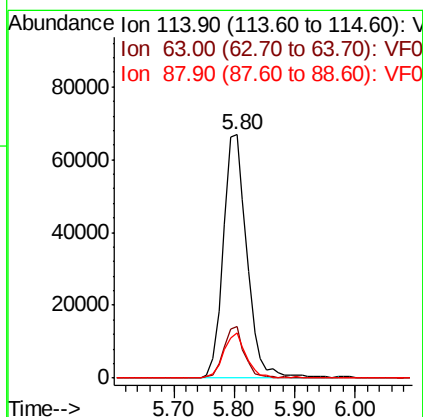
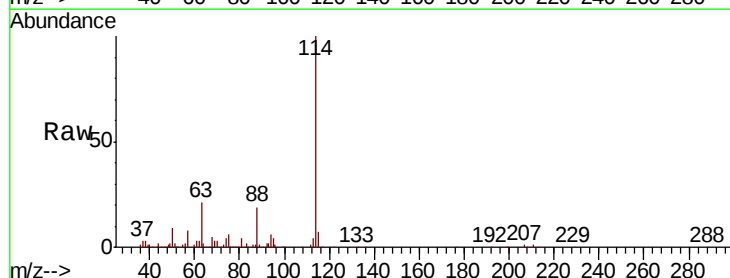
Tgt Ion:114 Resp: 182376

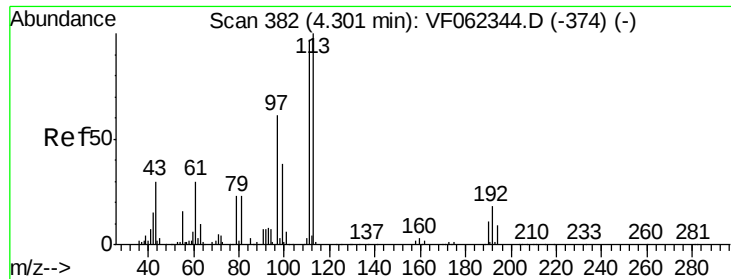
Ion Ratio Lower Upper

114 100

63 21.2 0.0 37.4

88 18.7 0.0 36.4

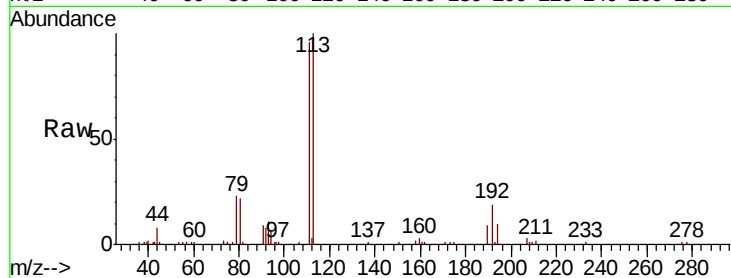




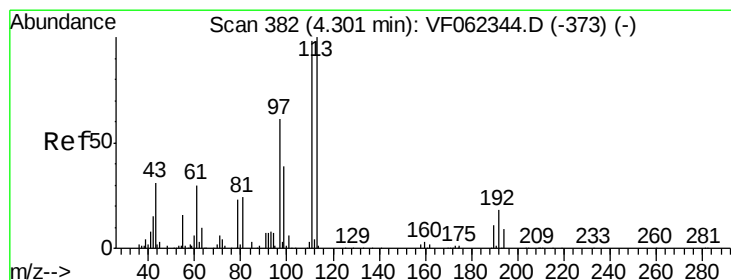
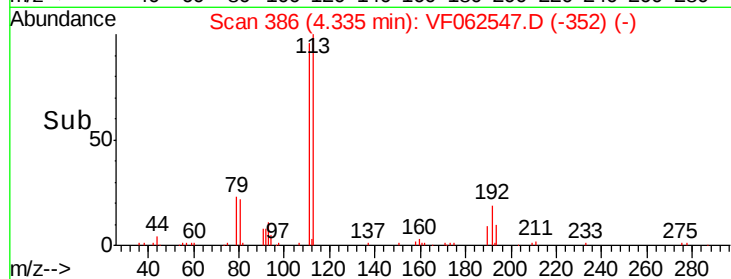
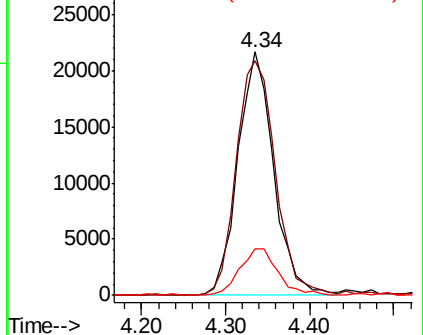
#35
 Dibromofluoromethane
 Concen: 44.341 ug/l
 RT: 4.34 min Scan# 386
 Delta R.T. 0.03 min
 Lab File: VF062547.D
 Acq: 13 May 2019 17:47

Instrument :
 MSVOA_F
 ClientSampleId :
 FK-PS-01-047

Tot Ion:113 Resp: 64425
 Ion Ratio Lower Upper
 113 100
 111 105.0 79.4 119.0
 192 20.5 16.0 24.0

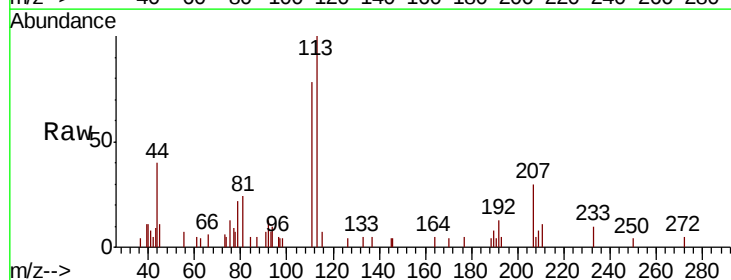


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

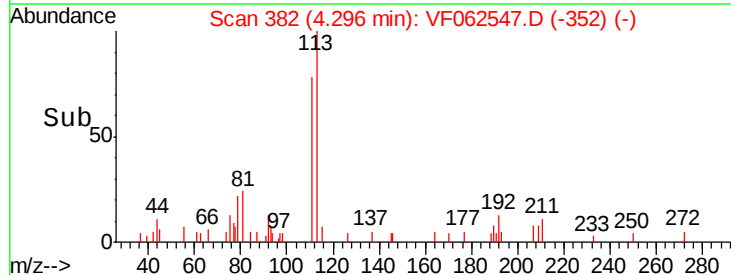
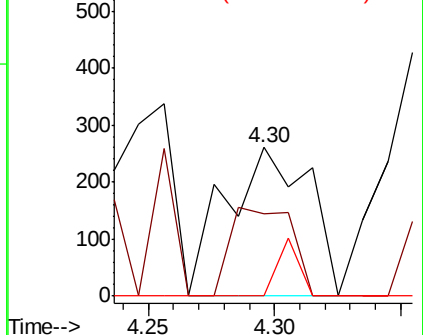


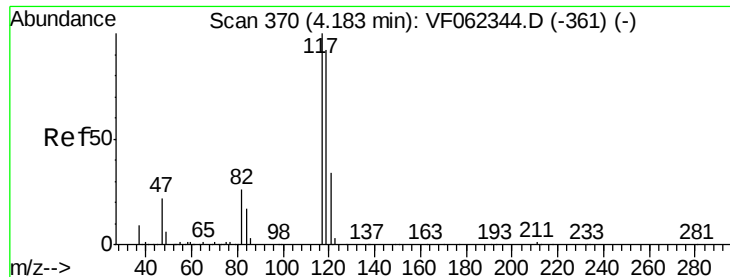
#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.30 min Scan# 382
 Delta R.T. -0.01 min
 Lab File: VF062547.D
 Acq: 13 May 2019 17:47

Tgt Ion: 43 Resp: 600
 Ion Ratio Lower Upper
 43 100
 61 44.0 0.0 0.0#
 70 10.0 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: 4.18 min Scan# 370

Delta R.T. -0.01 min

Lab File: VF062547.D

Acq: 13 May 2019 17:47

Instrument :

MSVOA_F

ClientSampleId :

FK-PS-01-047

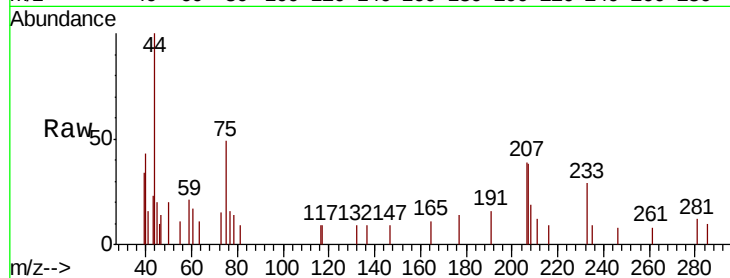
Tot Ion:117 Resp: 130

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

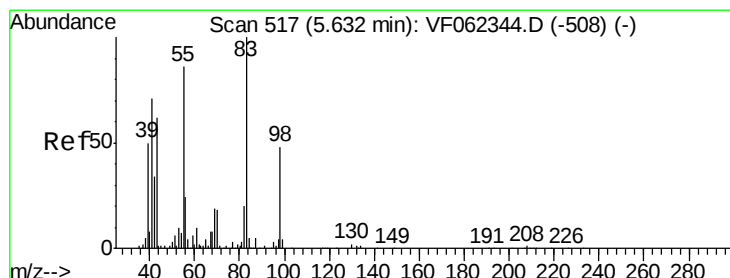
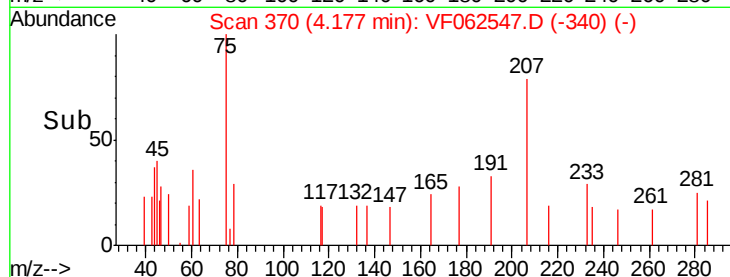
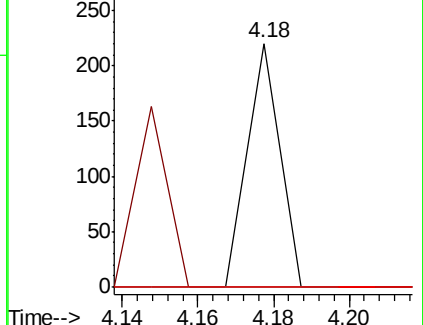
121 0.0 27.4 41.0#



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: 2.280 ug/l

RT: 5.80 min Scan# 535

Delta R.T. 0.17 min

Lab File: VF062547.D

Acq: 13 May 2019 17:47

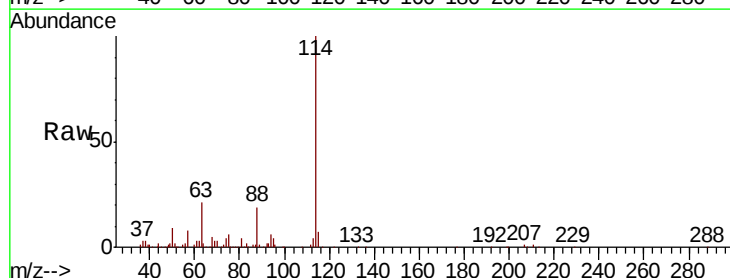
Tgt Ion: 83 Resp: 3583

Ion Ratio Lower Upper

83 100

55 27.3 69.0 103.6#

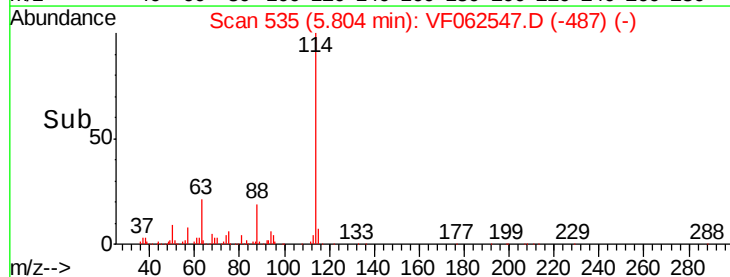
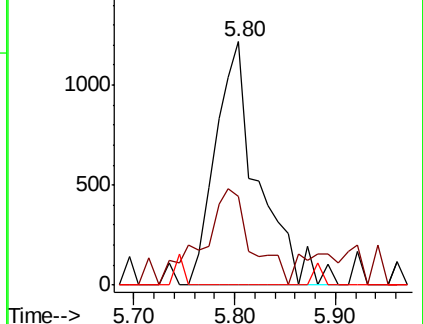
98 0.0 38.6 58.0#

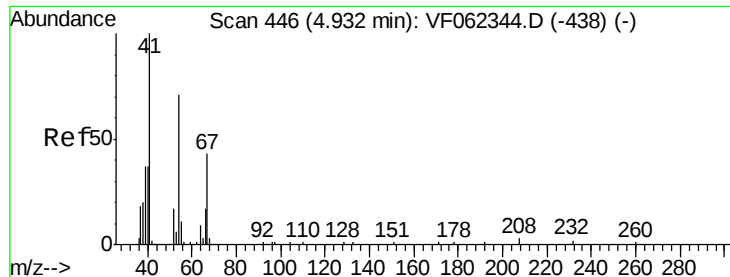


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#41

Methacrylonitrile

Concen: 1.044 ug/l

RT: 4.98 min Scan# 451

Delta R.T. 0.04 min

Lab File: VF062547.D

Acq: 13 May 2019 17:47

Instrument :

MSVOA_F

ClientSampleId :

FK-PS-01-047

Tot Ion: 41 Resp: 392

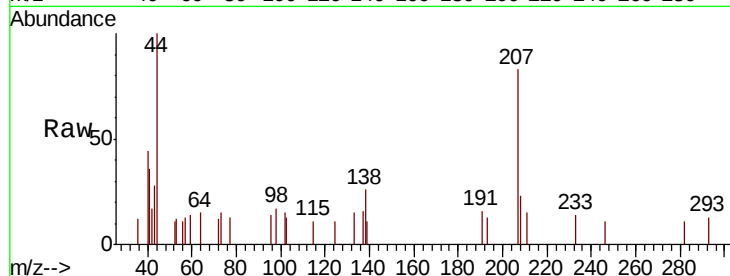
Ion Ratio Lower Upper

41 100

39 0.0 54.3 81.5#

67 0.0 37.8 56.8#

52 31.9 58.2 87.4#

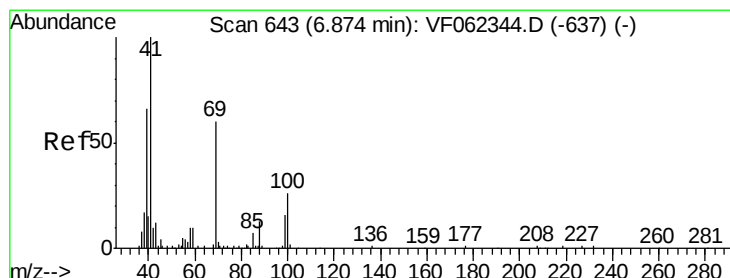
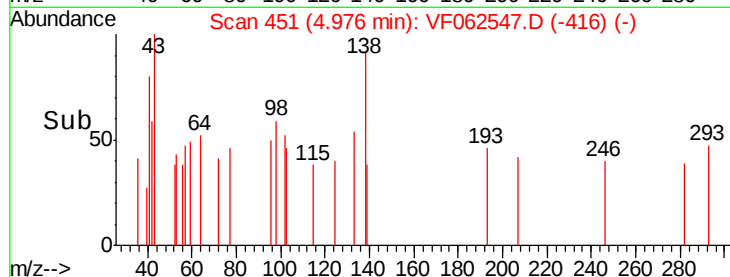
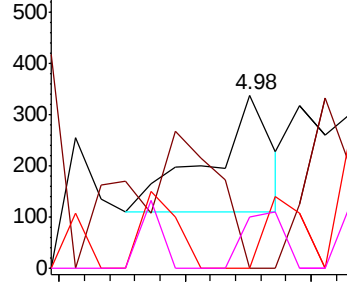


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#48

Methyl methacrylate

Concen: 1.255 ug/l

RT: 6.90 min Scan# 646

Delta R.T. 0.02 min

Lab File: VF062547.D

Acq: 13 May 2019 17:47

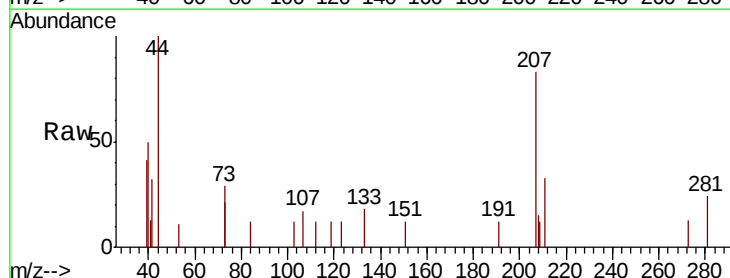
Tgt Ion: 41 Resp: 632

Ion Ratio Lower Upper

41 100

69 0.0 48.6 72.8#

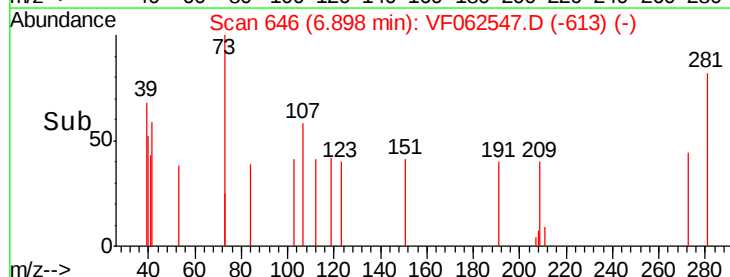
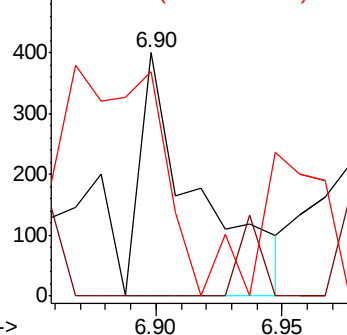
39 0.0 56.1 84.1#

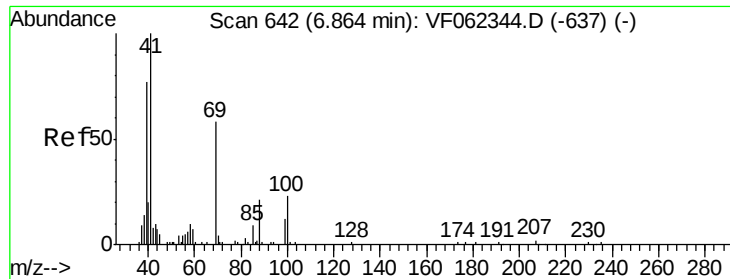


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

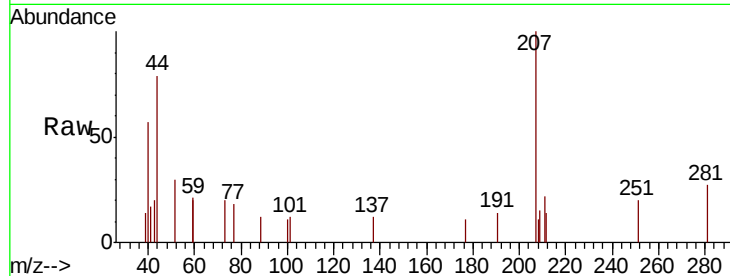




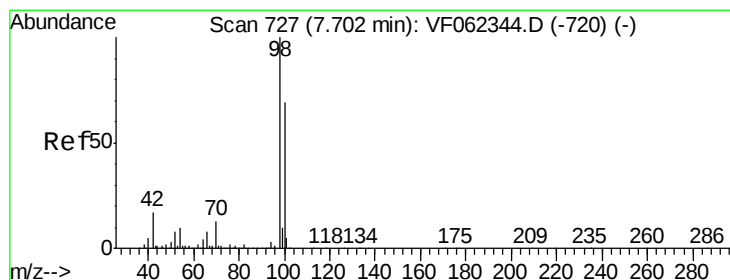
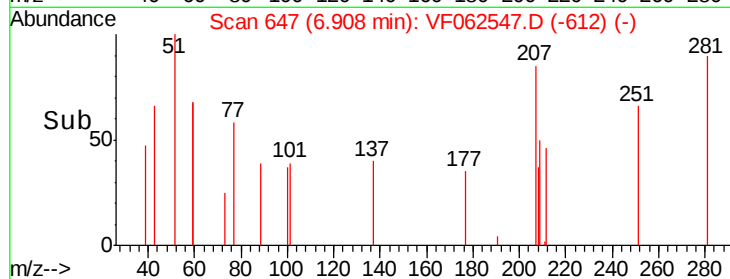
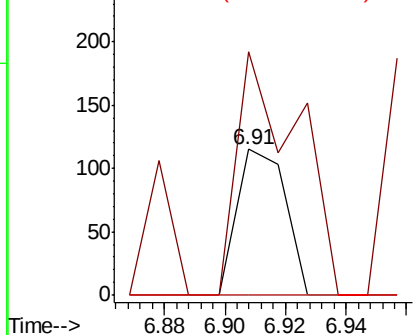
#49
1,4-Dioxane
Concen: 11.996 ug/l
RT: 6.91 min Scan# 647
Delta R.T. 0.04 min
Lab File: VF062547.D
Acq: 13 May 2019 17:47

Instrument :
MSVOA_F
ClientSampleId :
FK-PS-01-047

Tot Ion: 88 Resp: 129
Ion Ratio Lower Upper
88 100
43 209.3 55.6 83.4#
58 0.0 52.8 79.2#

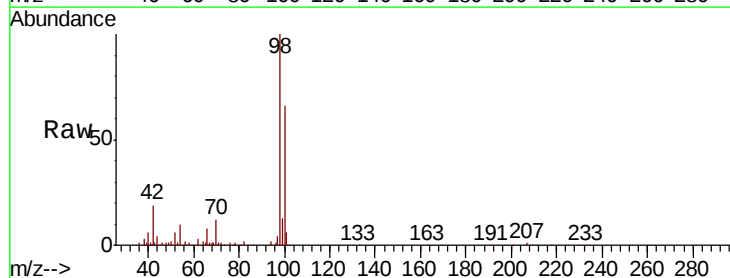


Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

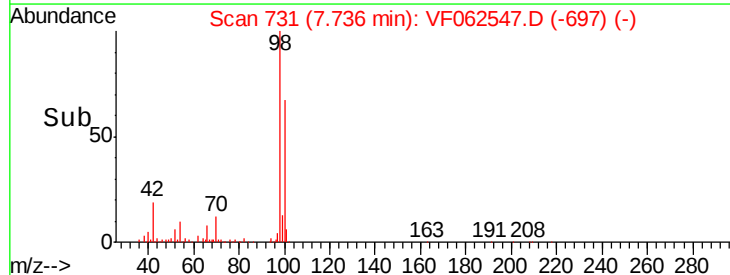
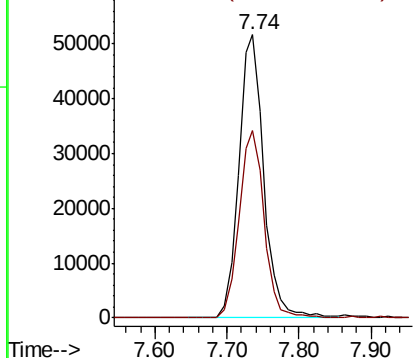


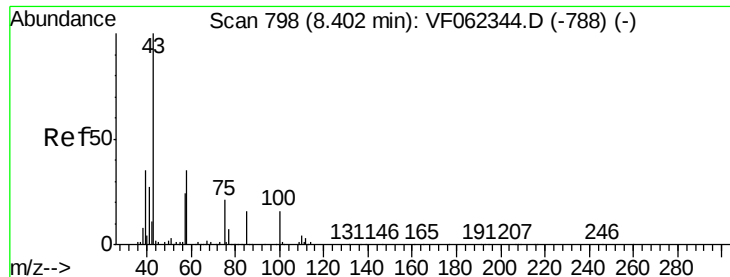
#50
Toluene-d8
Concen: 35.416 ug/l
RT: 7.74 min Scan# 731
Delta R.T. 0.03 min
Lab File: VF062547.D
Acq: 13 May 2019 17:47

Tgt Ion: 98 Resp: 124561
Ion Ratio Lower Upper
98 100
100 66.6 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 3.448 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.02 min

Lab File: VF062547.D

Acq: 13 May 2019 17:47

Instrument :

MSVOA_F

ClientSampleId :

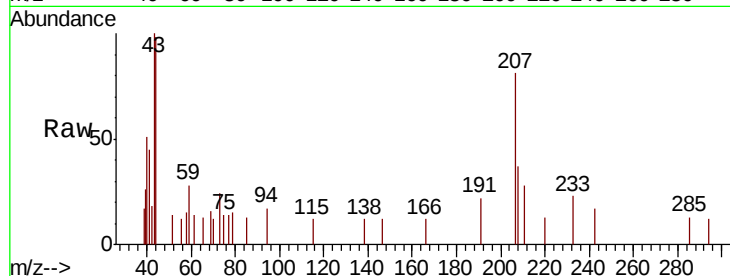
FK-PS-01-047

Tot Ion: 43 Resp: 1862

Ion Ratio Lower Upper

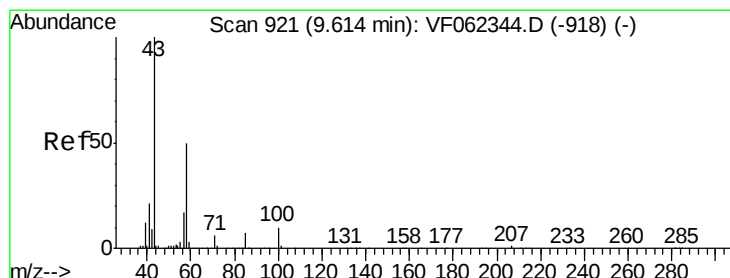
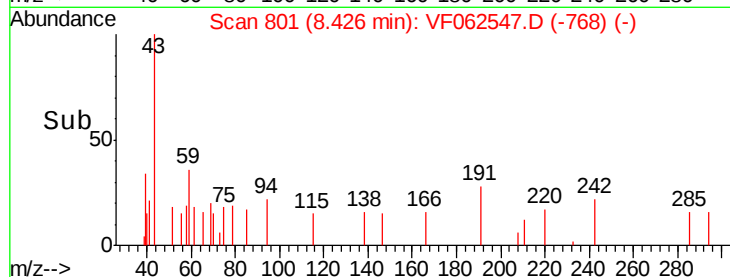
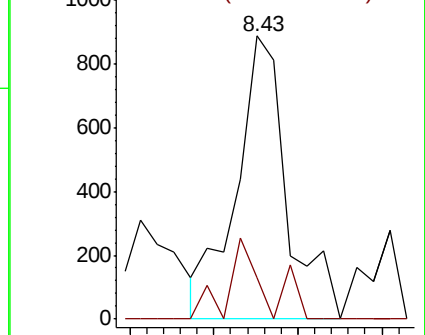
43 100

58 15.5 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 6.309 ug/l

RT: 9.65 min Scan# 925

Delta R.T. 0.03 min

Lab File: VF062547.D

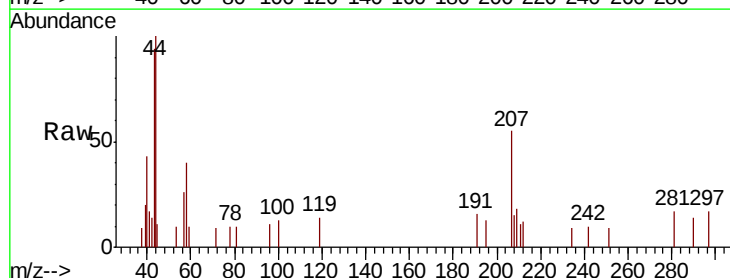
Acq: 13 May 2019 17:47

Tgt Ion: 43 Resp: 2356

Ion Ratio Lower Upper

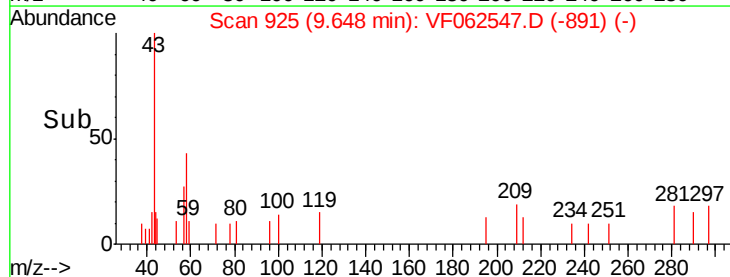
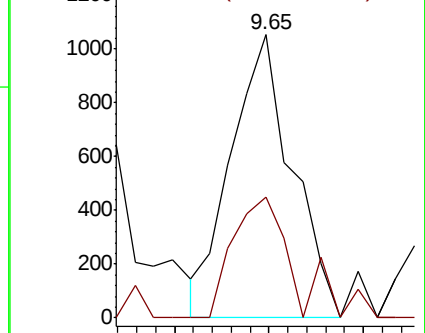
43 100

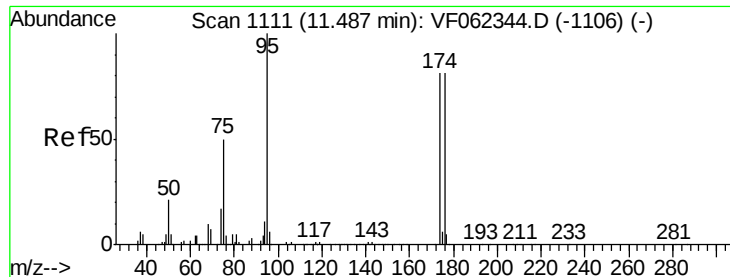
58 43.3 24.3 73.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

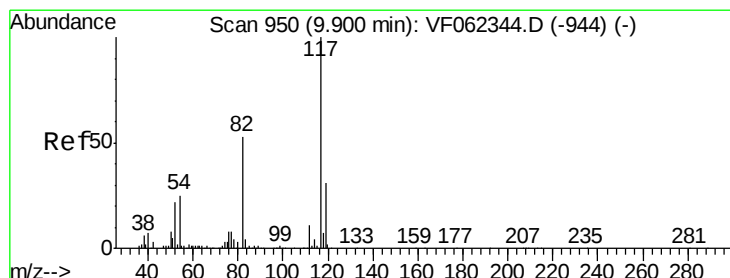
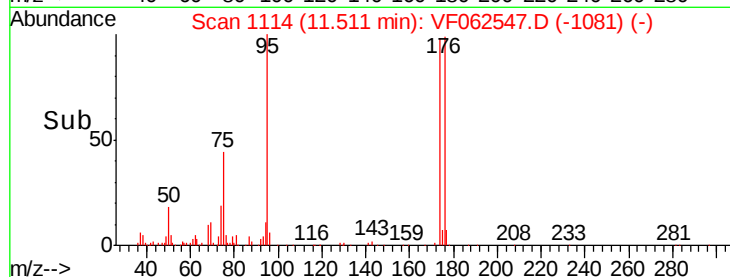
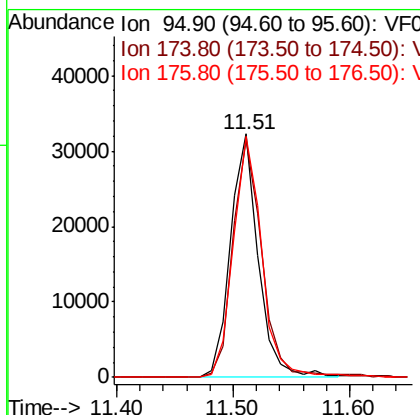
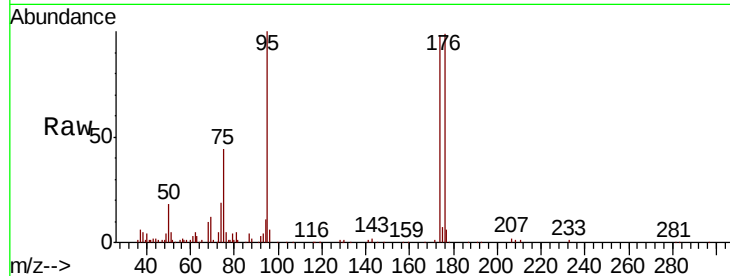




#62
4-Bromofluorobenzene
Concen: 33.601 ug/l
RT: 11.51 min Scan# 1114
Delta R.T. 0.02 min
Lab File: VF062547.D
Acq: 13 May 2019 17:47

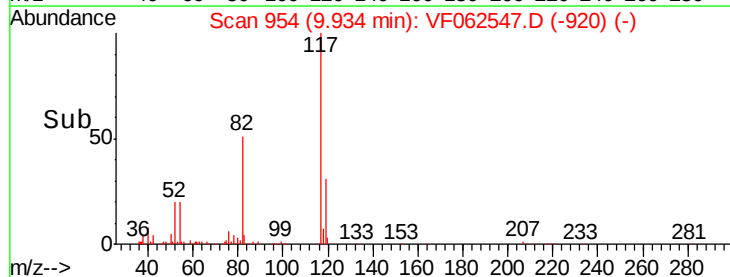
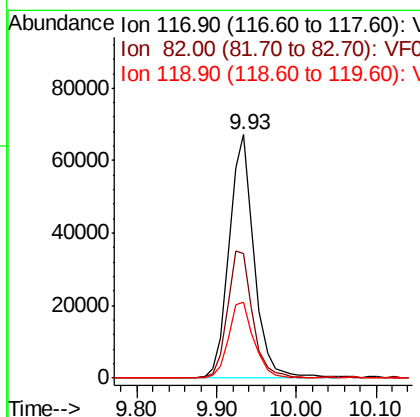
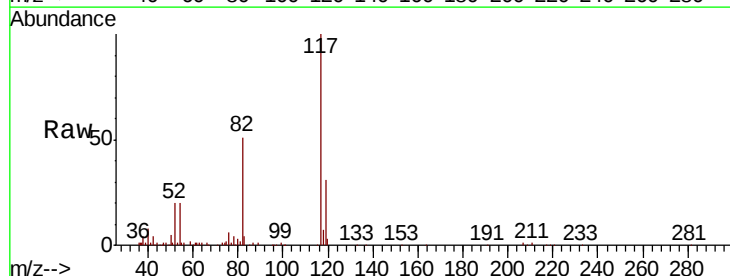
Instrument :
MSVOA_F
ClientSampleId :
FK-PS-01-047

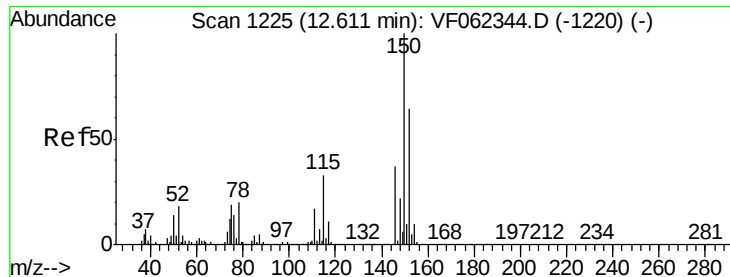
Tot Ion: 95 Resp: 53317
Ion Ratio Lower Upper
95 100
174 103.0 0.0 191.8
176 101.9 0.0 193.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 954
Delta R.T. 0.03 min
Lab File: VF062547.D
Acq: 13 May 2019 17:47

Tgt Ion: 117 Resp: 147987
Ion Ratio Lower Upper
117 100
82 51.4 42.2 63.2
119 31.4 25.0 37.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1227

Delta R.T. 0.01 min

Lab File: VF062547.D

Acq: 13 May 2019 17:47

Instrument :

MSVOA_F

ClientSampleId :

FK-PS-01-047

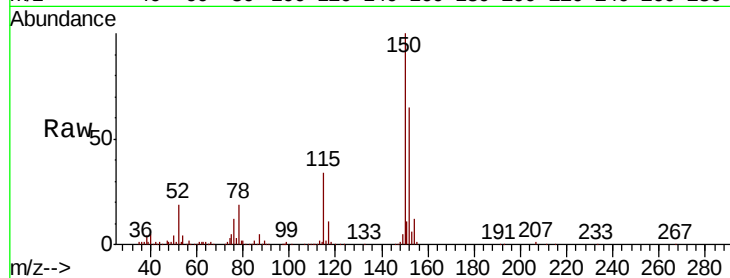
Tot Ion:152 Resp: 79469

Ion Ratio Lower Upper

152 100

115 54.5 26.4 79.2

150 154.9 0.0 335.0

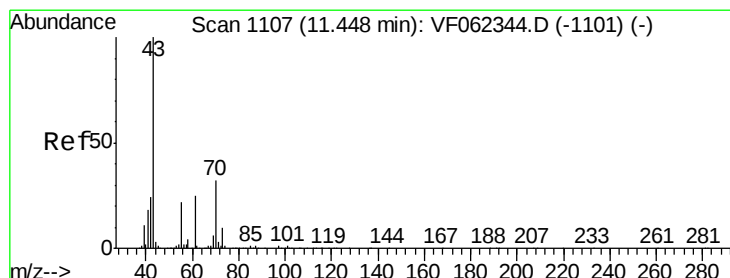
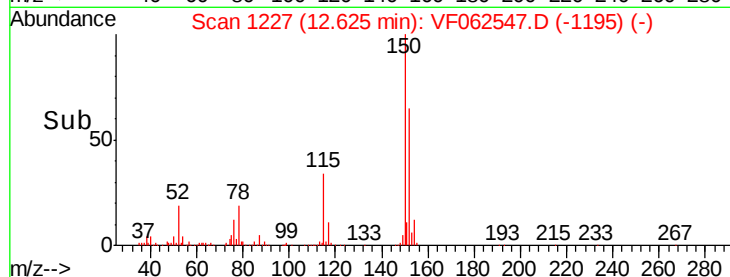
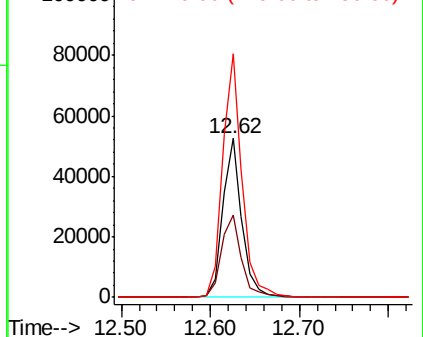


Abundance

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



#74

N-aryl acetate

Concen: 3.159 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. 0.01 min

Lab File: VF062547.D

Acq: 13 May 2019 17:47

Tgt Ion: 43 Resp: 3195

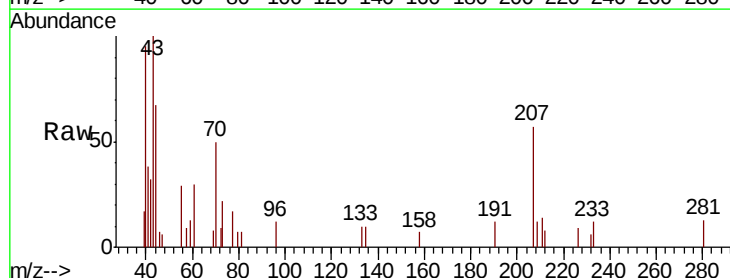
Ion Ratio Lower Upper

43 100

70 32.3 26.5 39.7

55 32.9 17.8 26.6#

61 19.5 20.2 30.2#



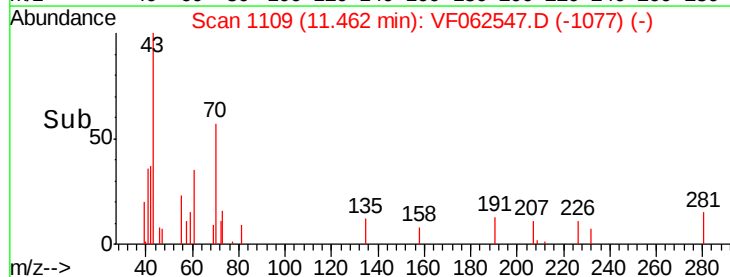
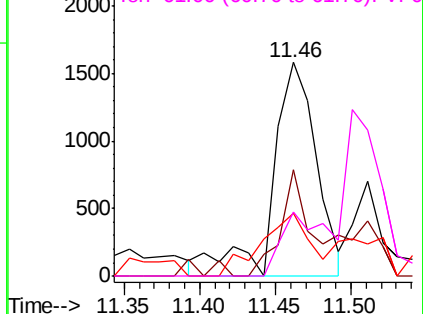
Abundance

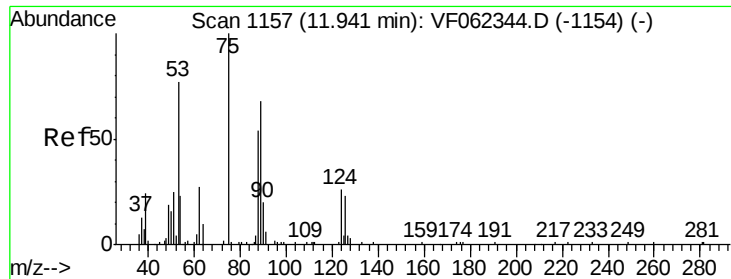
Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#81

trans-1,4-Dichloro-2-butene

Concen: 1.371 ug/l

RT: 11.96 min Scan# 1160

Delta R.T. 0.02 min

Lab File: VF062547.D

Acq: 13 May 2019 17:47

Instrument :

MSVOA_F

ClientSampleId :

FK-PS-01-047

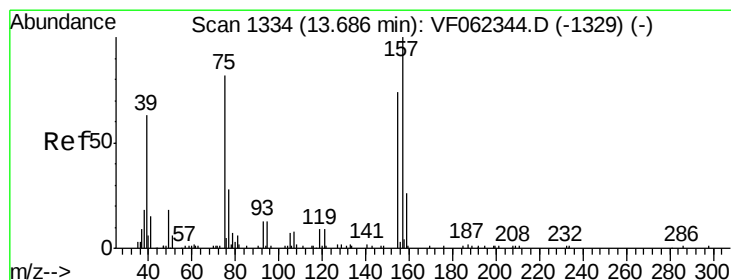
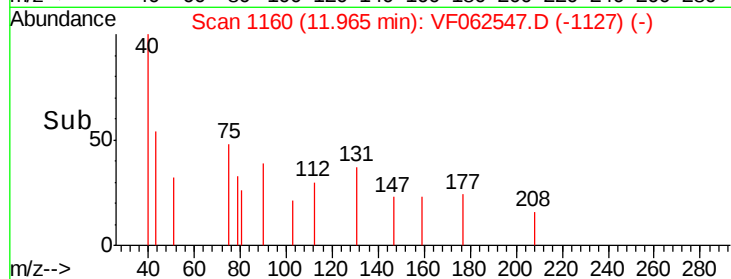
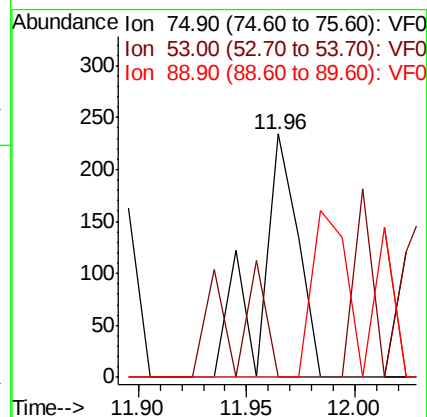
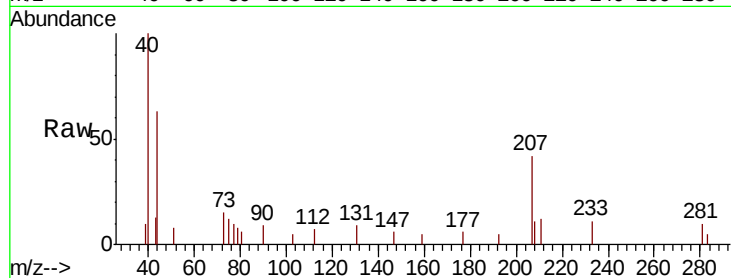
Tot Ion: 75 Resp: 290

Ion Ratio Lower Upper

75 100

53 44.1 71.9 107.9#

89 0.0 0.0 0.0



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.277 ug/l

RT: 13.74 min Scan# 1340

Delta R.T. 0.05 min

Lab File: VF062547.D

Acq: 13 May 2019 17:47

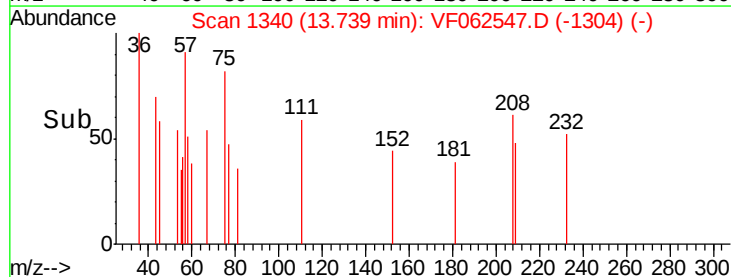
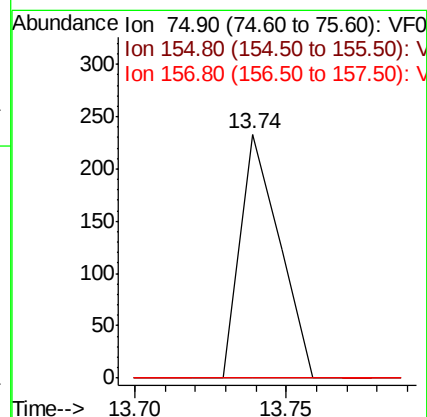
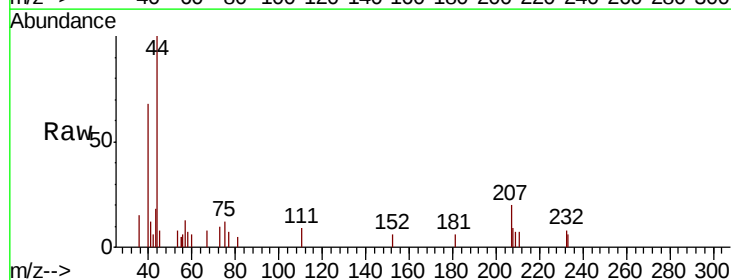
Tgt Ion: 75 Resp: 211

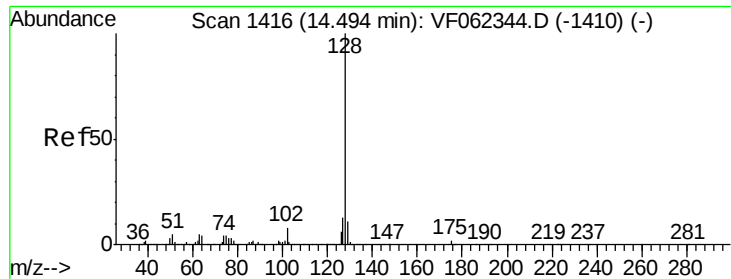
Ion Ratio Lower Upper

75 100

155 0.0 51.8 155.4#

157 0.0 67.3 201.8#





#95

Naphthalene

Concen: 2.338 ug/l

RT: 14.51 min Scan# 1418

Delta R.T. 0.01 min

Lab File: VF062547.D

Acq: 13 May 2019 17:47

Instrument :

MSVOA_F

ClientSampleId :

FK-PS-01-047

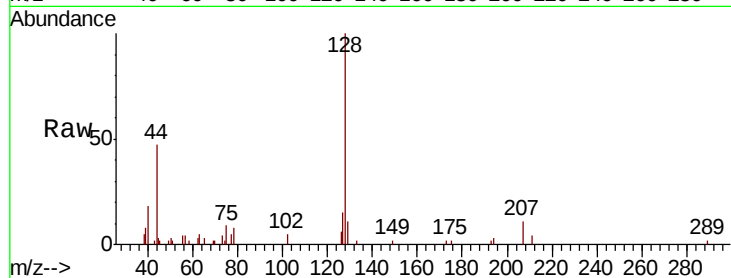
Tot Ion:128 Resp: 6890

Ion Ratio Lower Upper

128 100

127 13.5 10.5 15.7

129 7.8 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

