

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011119\
 Data File : VF061365.D
 Acq On : 11 Jan 2019 13:47
 Operator : VA/AP
 Sample : K1099-21RE
 Misc : 4.91g/5mL/MSVOA-F/SOIL
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TP-21RE

Quant Time: Jan 12 03:32:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 09 07:13:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	128855	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	224378	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.75	117	168621	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.54	152	49517	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	94978	66.22	ug/l	-0.02
Spiked Amount				50.000		
Recovery						132.44%
35) Dibromofluoromethane	4.10	113	106121	61.81	ug/l	-0.01
Spiked Amount				50.000		
Recovery						123.62%
50) Toluene-d8	7.54	98	240755	47.39	ug/l	-0.03
Spiked Amount				50.000		
Recovery						94.78%
62) 4-Bromofluorobenzene	11.40	95	79514	35.84	ug/l	-0.01
Spiked Amount				50.000		
Recovery						71.68%

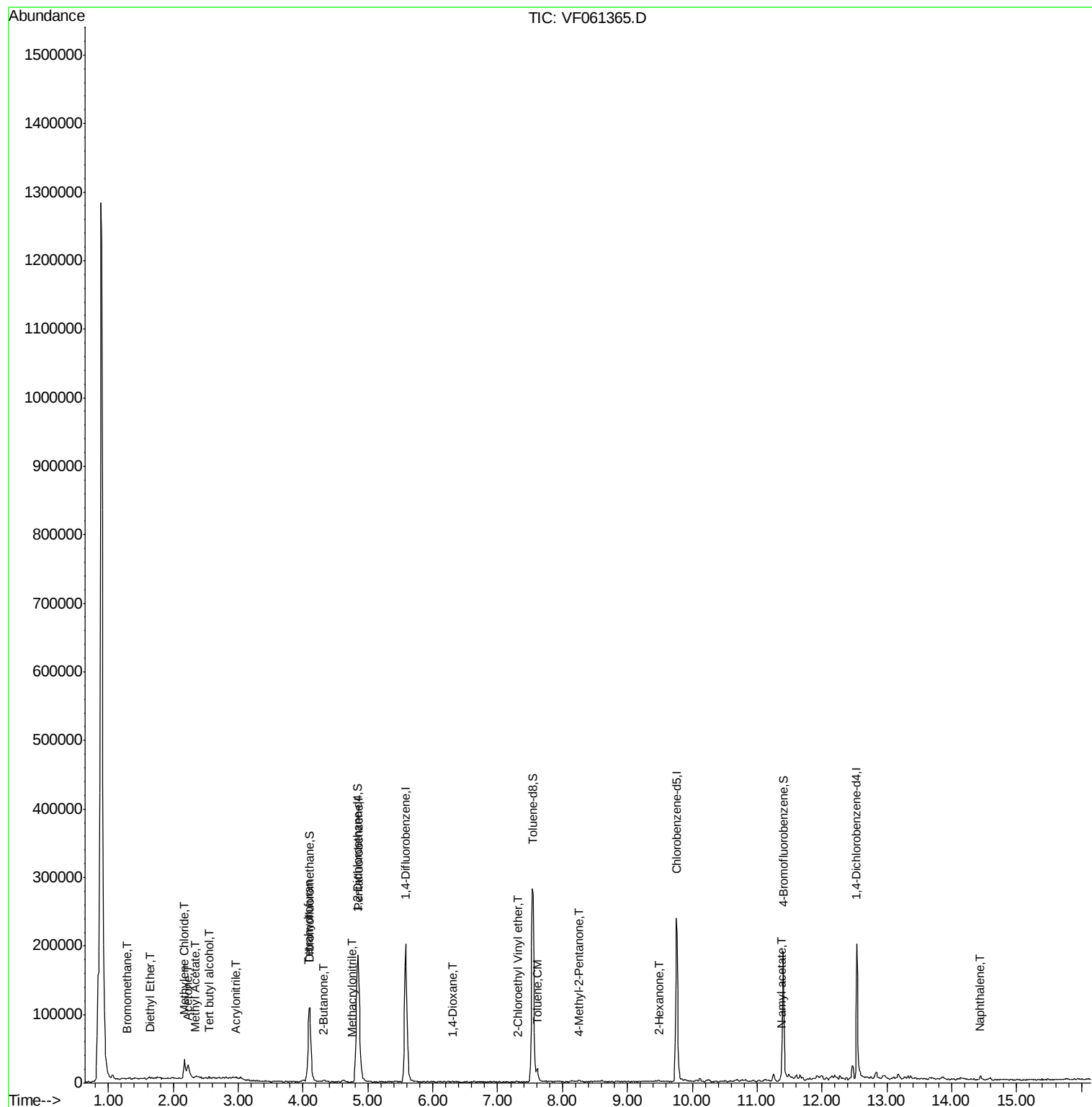
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.28	94	392	3.137	ug/l #	6
8) Diethyl Ether	1.63	74	830	1.763	ug/l #	42
11) Tert butyl alcohol	2.54	59	106	1.846	ug/l #	1
13) Acrolein	2.00	56	150	Below Cal		89
15) Acrylonitrile	2.95	53	542	2.663	ug/l #	29
16) Acetone	2.23	43	27214	81.568	ug/l	92
18) Methyl Acetate	2.34	43	1868	2.846	ug/l #	65
20) Methylene Chloride	2.17	84	13307	9.428	ug/l #	90
25) 2-Butanone	4.33	43	6340	11.807	ug/l #	89
29) Tetrahydrofuran	4.08	42	984	4.383	ug/l #	66
41) Methacrylonitrile	4.74	41	547	1.027	ug/l #	24
49) 1,4-Dioxane	6.30	88	62	12.017	ug/l #	20
51) 4-Methyl-2-Pentanone	8.26	43	2687	2.826	ug/l #	61
52) Toluene	7.61	92	8680	2.208	ug/l	84
58) 2-Chloroethyl Vinyl ether	7.31	63	65	1.240	ug/l #	56
59) 2-Hexanone	9.49	43	2759	4.096	ug/l	78
74) N-amyl acetate	11.36	43	2296	2.318	ug/l #	70
95) Naphthalene	14.44	128	3346	1.597	ug/l #	88

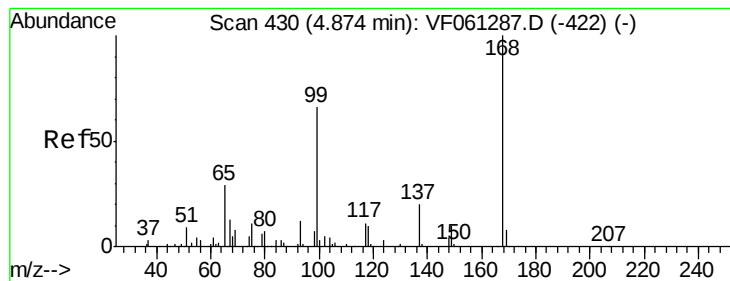
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061365.D

Acq: 11 Jan 2019 13:47

Instrument :

MSVOA_F

ClientSampleId :

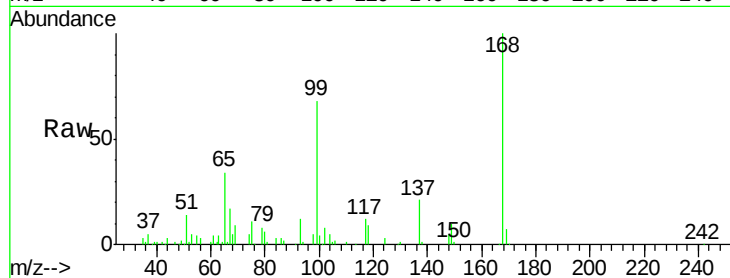
TP-21RE

Tot Ion:168 Resp: 128855

Ion Ratio Lower Upper

168 100

99 68.5 52.7 79.1

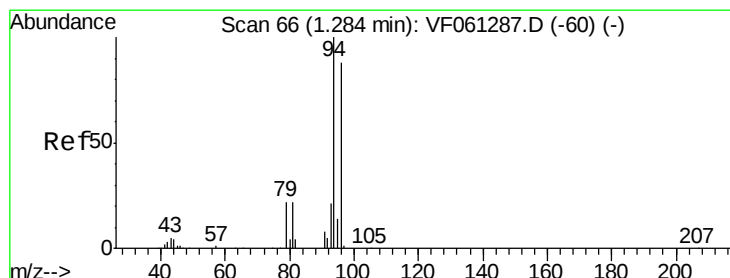
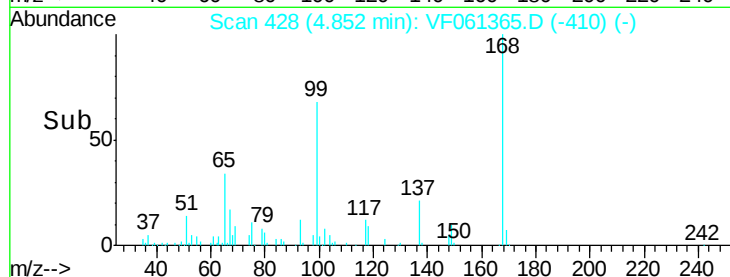


Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

Time-->



#5

Bromomethane

Concen: 3.137 ug/l

RT: 1.28 min Scan# 66

Delta R.T. -0.00 min

Lab File: VF061365.D

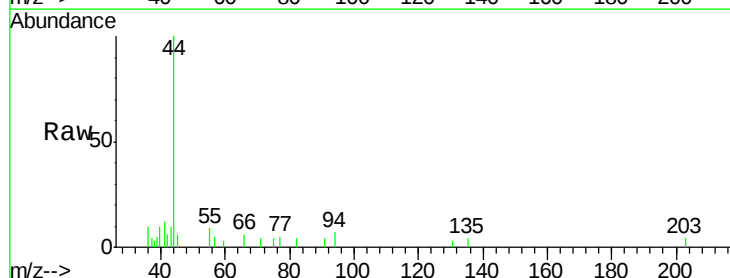
Acq: 11 Jan 2019 13:47

Tgt Ion: 94 Resp: 392

Ion Ratio Lower Upper

94 100

96 0.0 70.2 105.4#

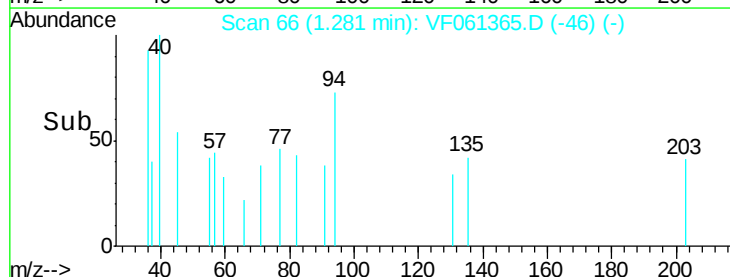


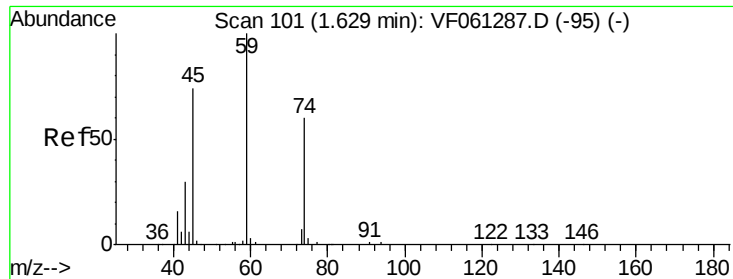
Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.28

Time-->





#8

Diethyl Ether

Concen: 1.763 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.00 min

Lab File: VF061365.D

Acq: 11 Jan 2019 13:47

Instrument :

MSVOA_F

ClientSampled :

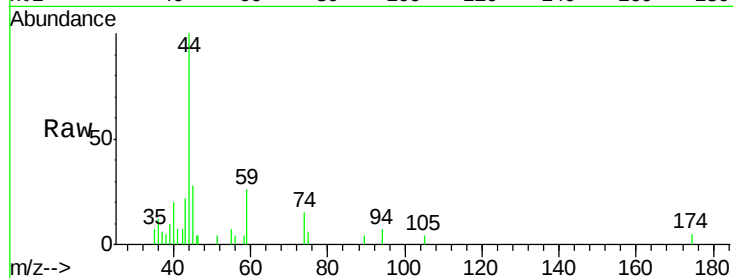
TP-21RE

Tot Ion: 74 Resp: 830

Ion Ratio Lower Upper

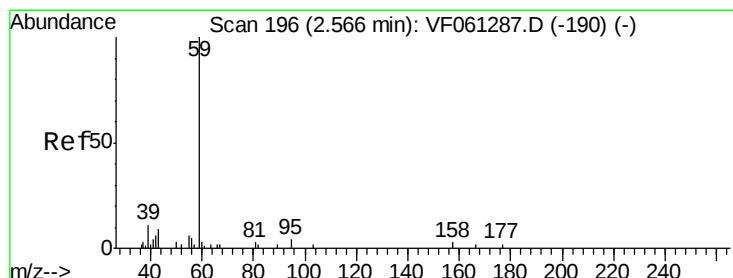
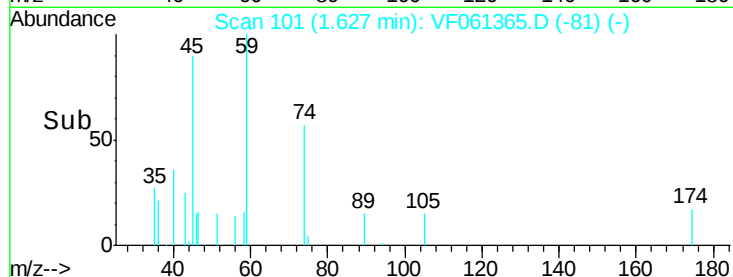
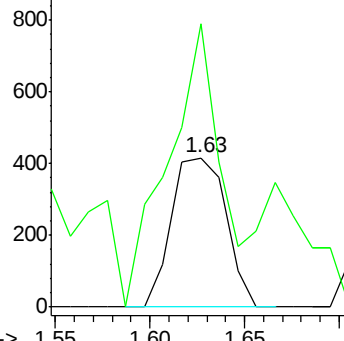
74 100

45 189.7 62.1 186.3#



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#11

Tert butyl alcohol

Concen: 1.846 ug/l

RT: 2.54 min Scan# 194

Delta R.T. -0.02 min

Lab File: VF061365.D

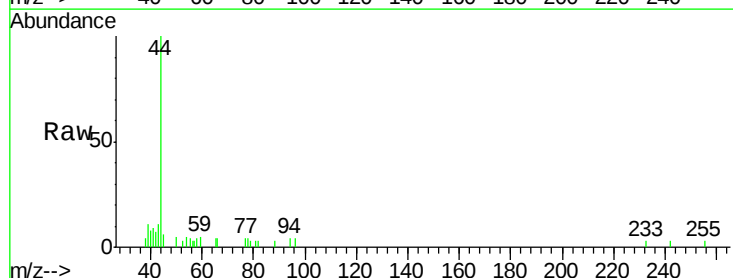
Acq: 11 Jan 2019 13:47

Tgt Ion: 59 Resp: 106

Ion Ratio Lower Upper

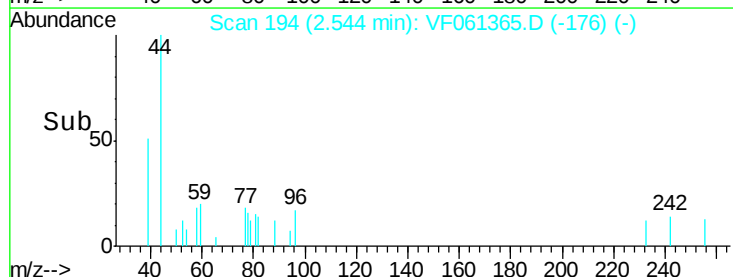
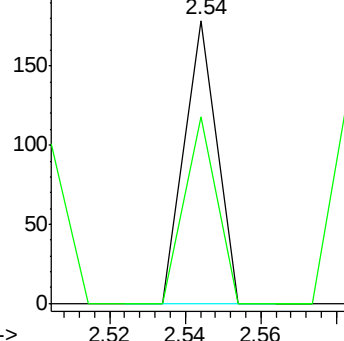
59 100

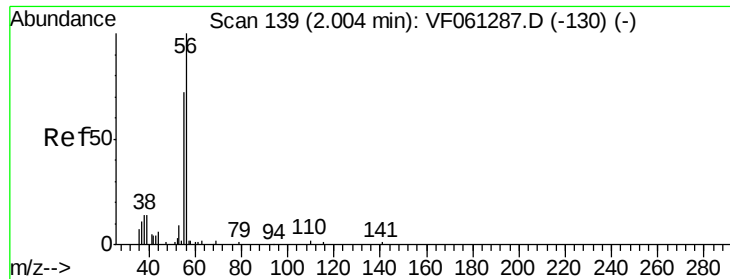
57 65.9 15.1 22.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 2.00 min Scan# 139

Delta R.T. -0.00 min

Lab File: VF061365.D

Acq: 11 Jan 2019 13:47

Instrument :

MSVOA_F

ClientSampled :

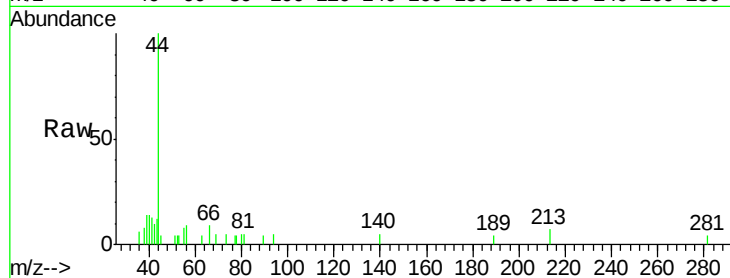
TP-21RE

Tot Ion: 56 Resp: 150

Ion Ratio Lower Upper

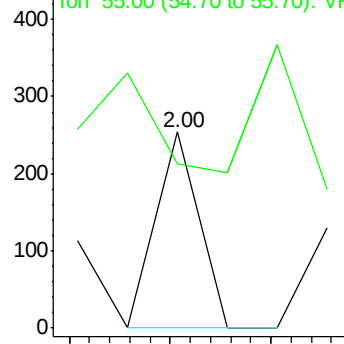
56 100

55 83.9 59.4 89.0

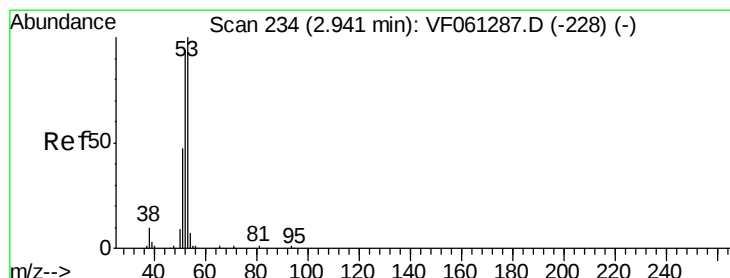
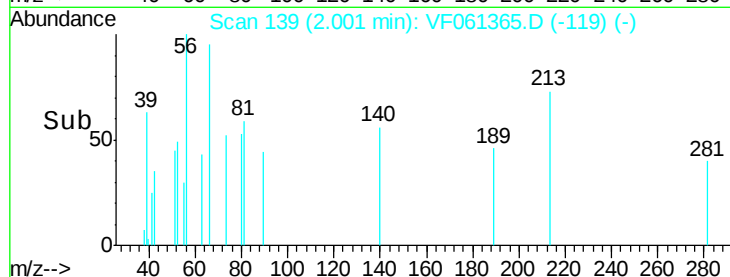


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



Time--> 1.98 2.00 2.02



#15

Acrylonitrile

Concen: 2.663 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.01 min

Lab File: VF061365.D

Acq: 11 Jan 2019 13:47

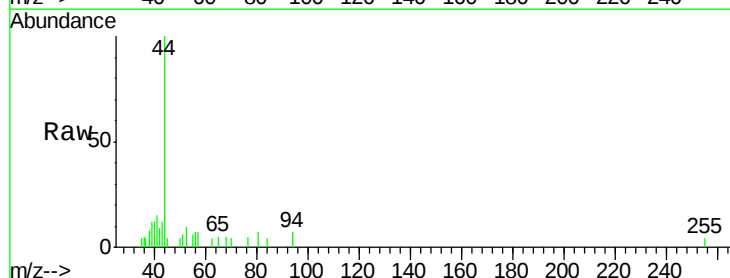
Tgt Ion: 53 Resp: 542

Ion Ratio Lower Upper

53 100

52 0.0 74.6 111.8#

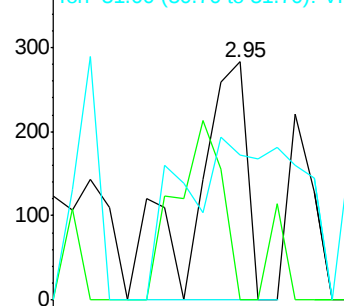
51 60.8 37.8 56.6#



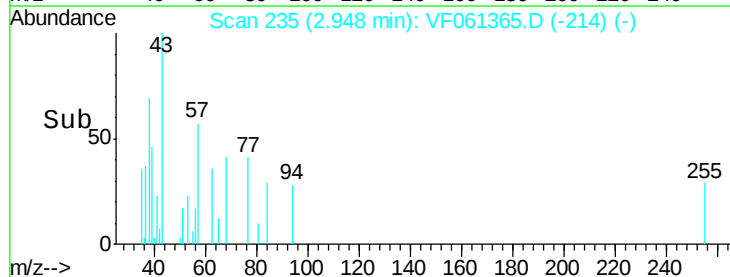
Abundance Ion 53.00 (52.70 to 53.70): VF0

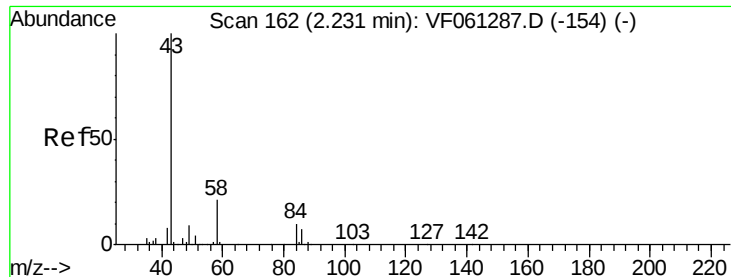
Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



Time--> 2.85 2.90 2.95

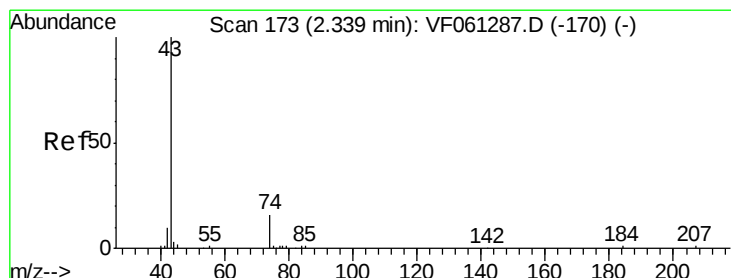
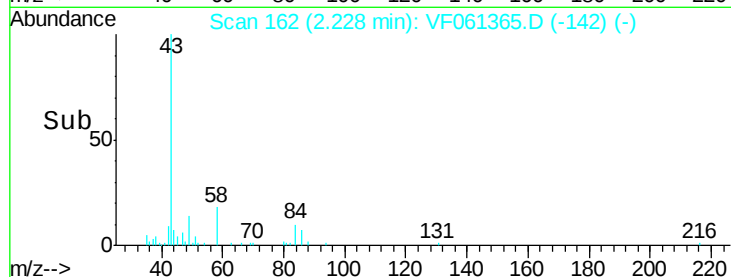
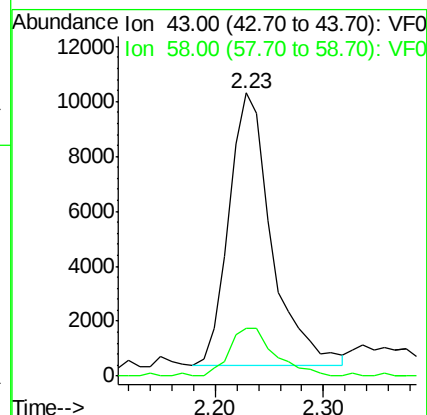
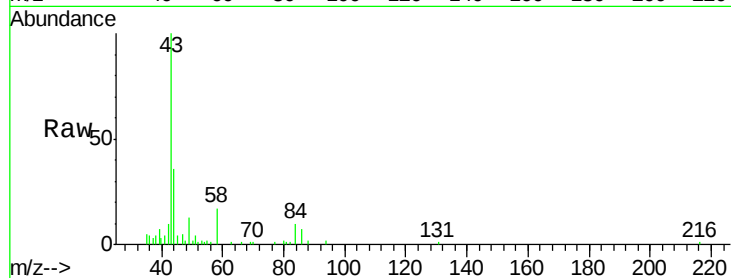




#16
Acetone
Concen: 81.568 ug/l
RT: 2.23 min Scan# 162
Delta R.T. -0.00 min
Lab File: VF061365.D
Acq: 11 Jan 2019 13:47

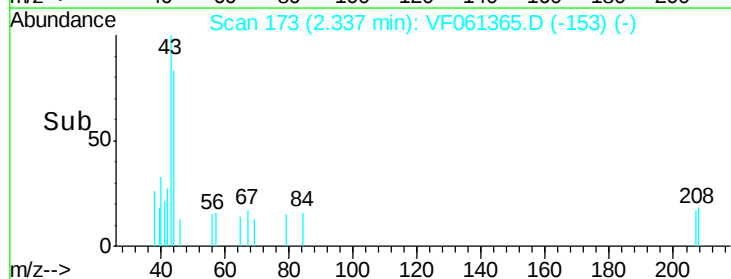
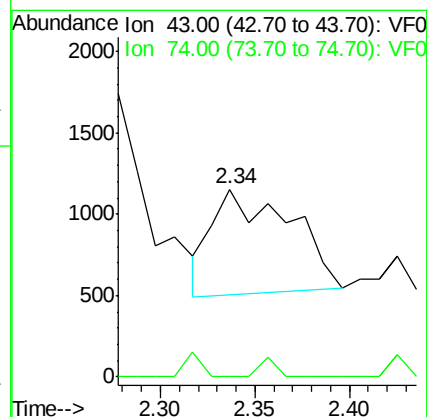
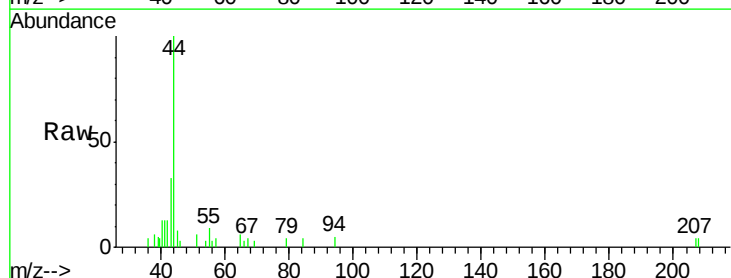
Instrument :
MSVOA_F
ClientSampleId :
TP-21RE

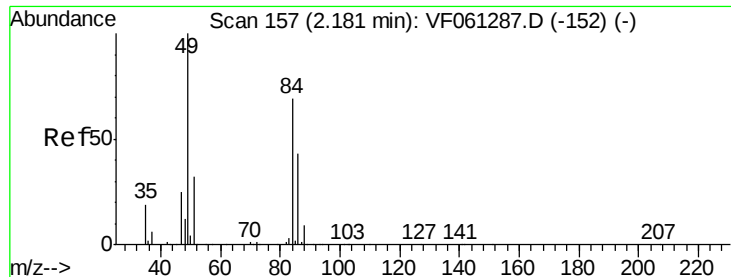
Tot Ion: 43 Resp: 27214
Ion Ratio Lower Upper
43 100
58 17.1 16.6 25.0



#18
Methyl Acetate
Concen: 2.846 ug/l
RT: 2.34 min Scan# 173
Delta R.T. -0.00 min
Lab File: VF061365.D
Acq: 11 Jan 2019 13:47

Tgt Ion: 43 Resp: 1868
Ion Ratio Lower Upper
43 100
74 0.0 11.6 17.4#

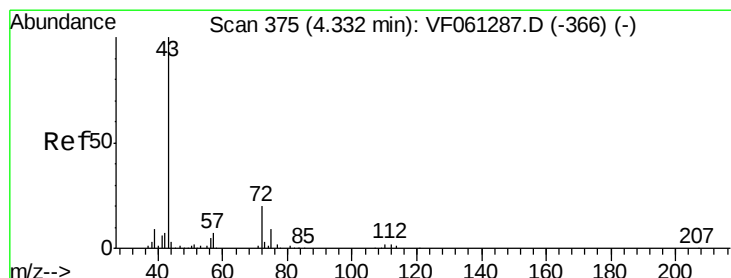
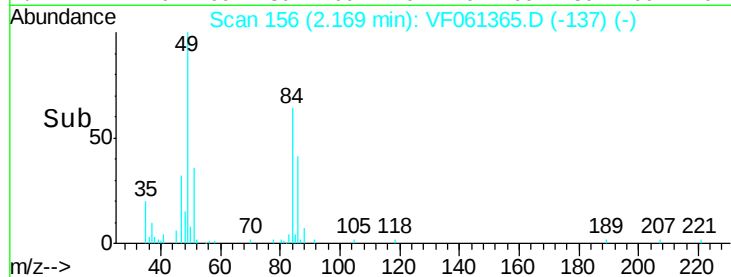
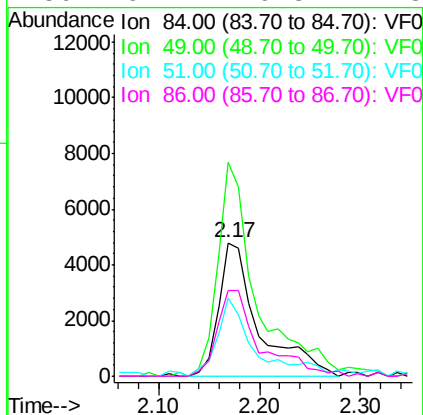
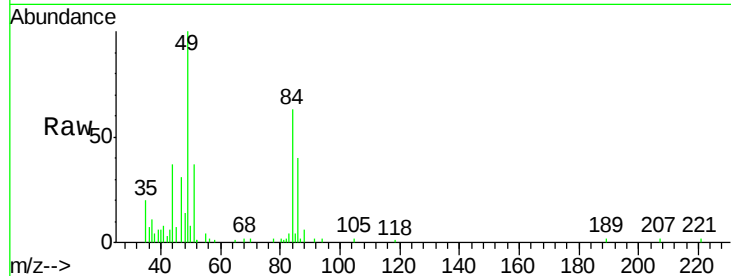




#20
Methvlene Chloride
Concen: 9.428 ug/l
RT: 2.17 min Scan# 156
Delta R.T. -0.01 min
Lab File: VF061365.D
Acq: 11 Jan 2019 13:47

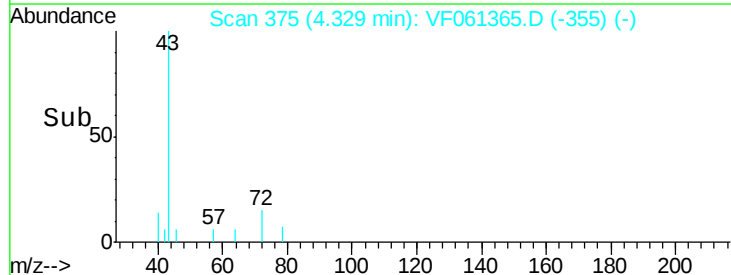
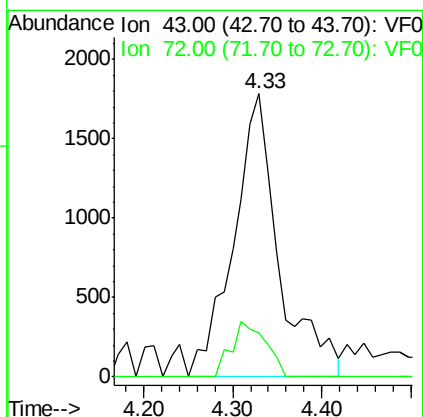
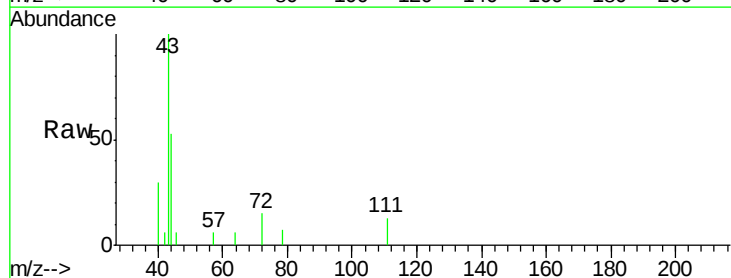
Instrument :
MSVOA_F
ClientSampleId :
TP-21RE

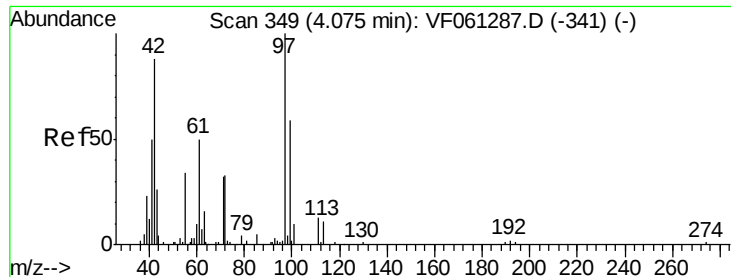
Tot Ion: 84 Resp: 13307
Ion Ratio Lower Upper
84 100
49 160.0 116.6 175.0
51 58.5 37.7 56.5#
86 64.1 49.8 74.8



#25
2-Butanone
Concen: 11.807 ug/l
RT: 4.33 min Scan# 375
Delta R.T. -0.00 min
Lab File: VF061365.D
Acq: 11 Jan 2019 13:47

Tgt Ion: 43 Resp: 6340
Ion Ratio Lower Upper
43 100
72 15.4 16.5 24.7#





#29

Tetrahydrofuran

Concen: 4.383 ug/l

RT: 4.08 min Scan# 350

Delta R.T. 0.01 min

Lab File: VF061365.D

Acq: 11 Jan 2019 13:47

Instrument :

MSVOA_F

ClientSampled :

TP-21RE

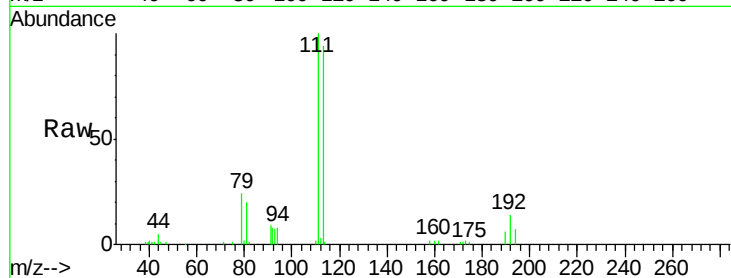
Tot Ion: 42 Resp: 984

Ion Ratio Lower Upper

42 100

72 16.9 32.3 48.5#

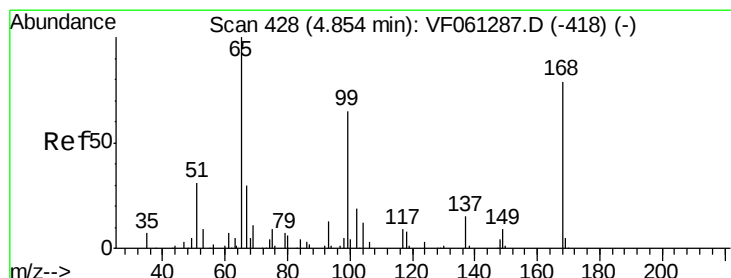
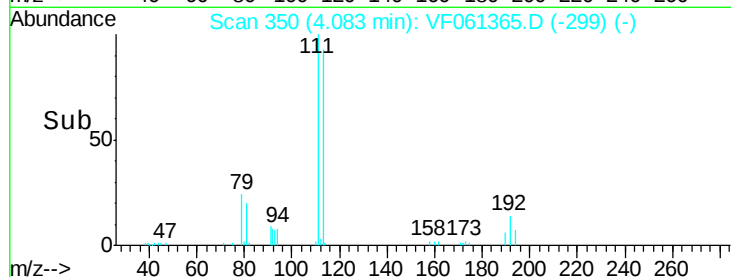
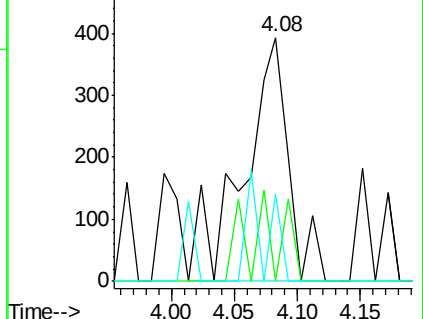
71 19.2 29.5 44.3#



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: 66.222 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.02 min

Lab File: VF061365.D

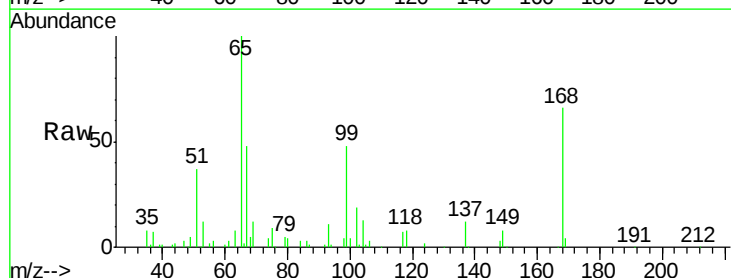
Acq: 11 Jan 2019 13:47

Tgt Ion: 65 Resp: 94978

Ion Ratio Lower Upper

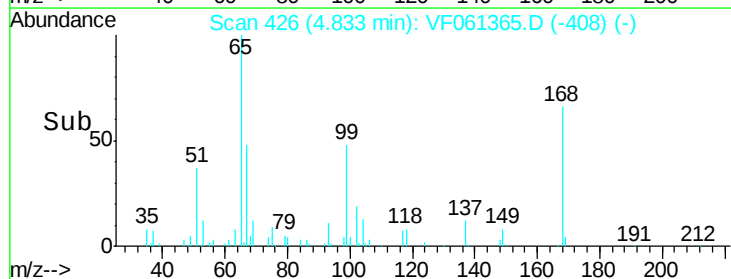
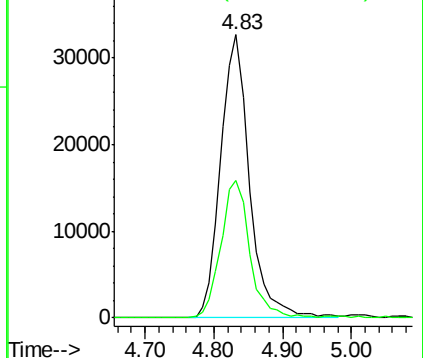
65 100

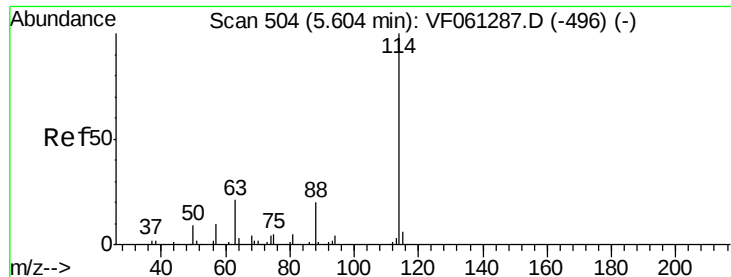
67 48.4 0.0 98.2



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: 5.58 min Scan# 502

Delta R.T. -0.02 min

Lab File: VF061365.D

Acq: 11 Jan 2019 13:47

Instrument :

MSVOA_F

ClientSampled :

TP-21RE

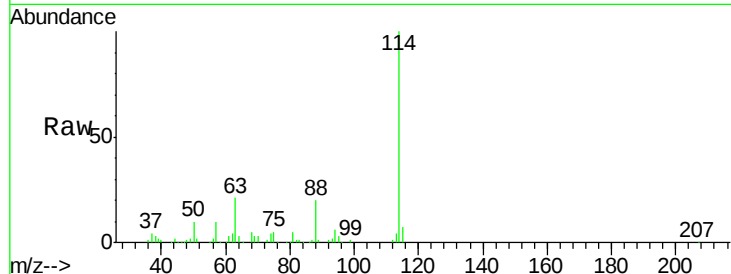
Tot Ion:114 Resp: 224378

Ion Ratio Lower Upper

114 100

63 21.0 0.0 42.8

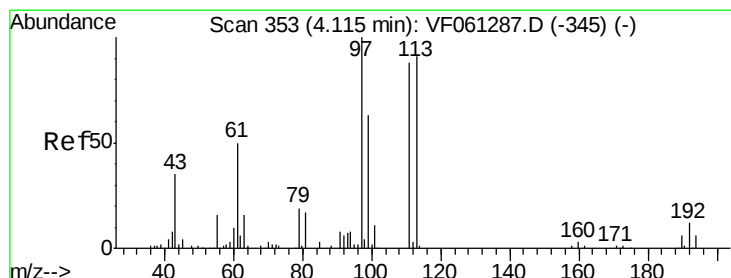
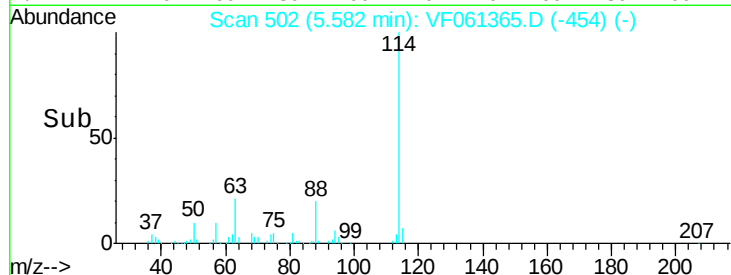
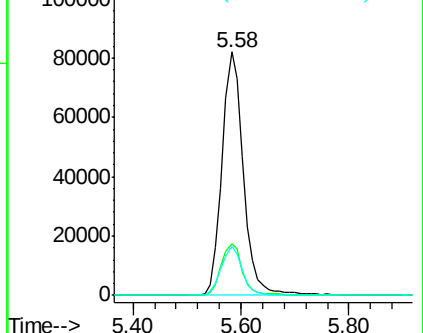
88 19.9 0.0 40.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 61.811 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF061365.D

Acq: 11 Jan 2019 13:47

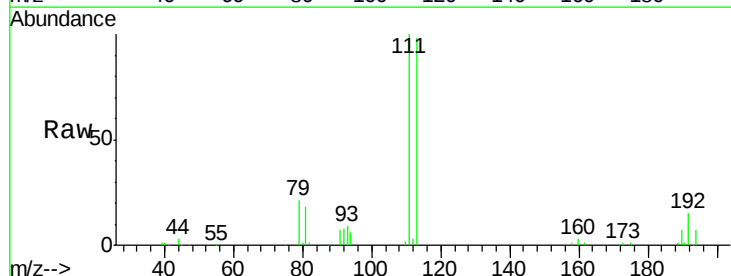
Tgt Ion:113 Resp: 106121

Ion Ratio Lower Upper

113 100

111 102.1 78.0 117.0

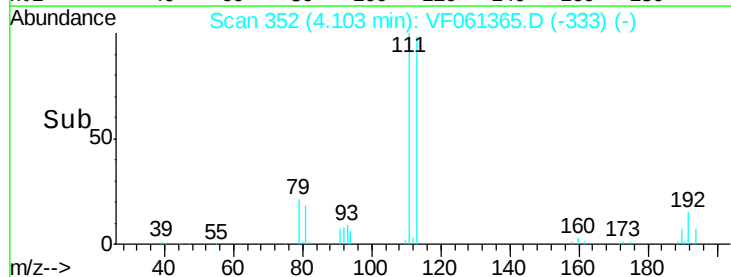
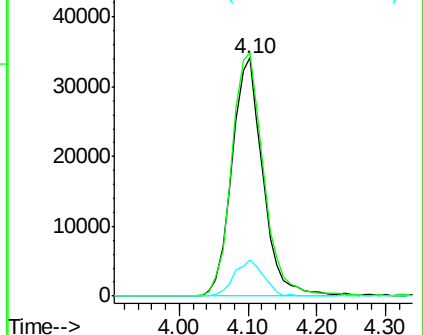
192 15.4 10.6 16.0

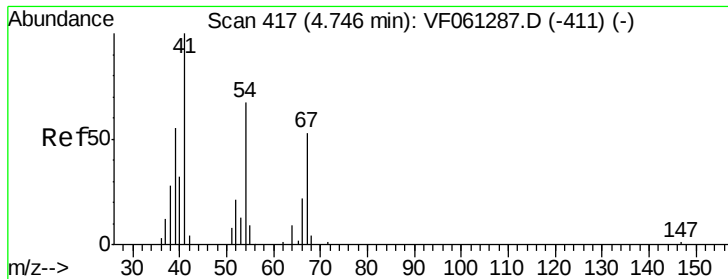


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#41

Methacrylonitrile

Concen: 1.027 ug/l

RT: 4.74 min Scan# 417

Delta R.T. -0.00 min

Lab File: VF061365.D

Acq: 11 Jan 2019 13:47

Instrument :

MSVOA_F

ClientSampled :

TP-21RE

Tot Ion: 41 Resp: 547

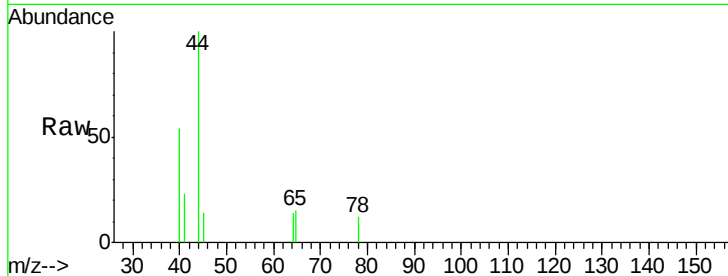
Ion Ratio Lower Upper

41 100

39 0.0 52.7 79.1#

67 0.0 41.4 62.2#

52 0.0 33.0 49.4#

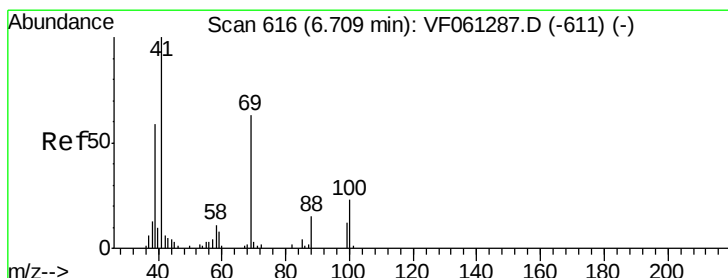
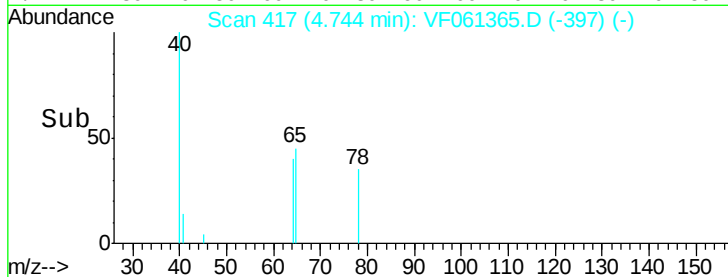
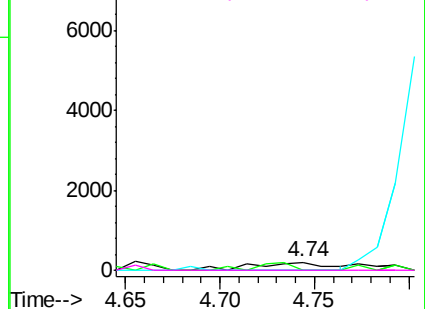


Abundance Ion 41.00 (40.70 to 41.70): VF0

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



#49

1,4-Dioxane

Concen: 12.017 ug/l

RT: 6.30 min Scan# 575

Delta R.T. -0.41 min

Lab File: VF061365.D

Acq: 11 Jan 2019 13:47

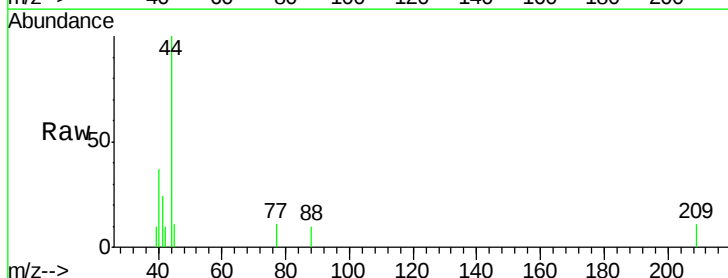
Tgt Ion: 88 Resp: 62

Ion Ratio Lower Upper

88 100

43 0.0 38.5 57.7#

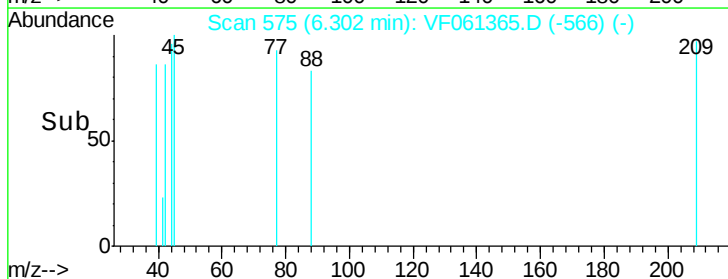
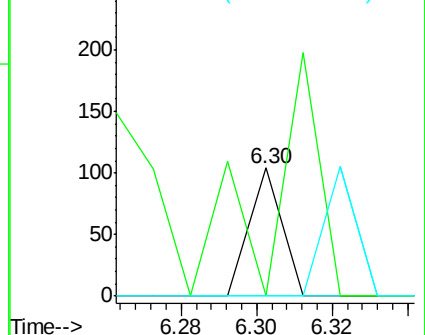
58 0.0 57.0 85.4#

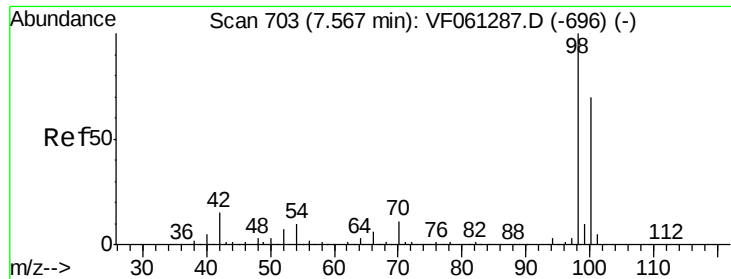


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

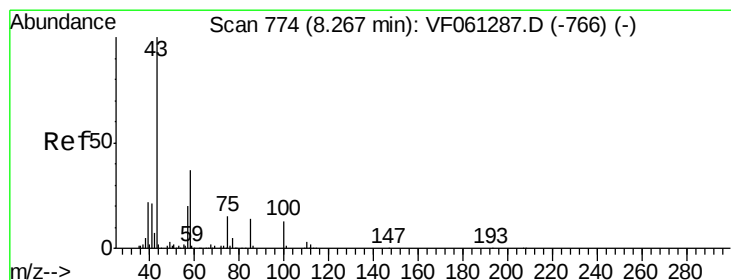
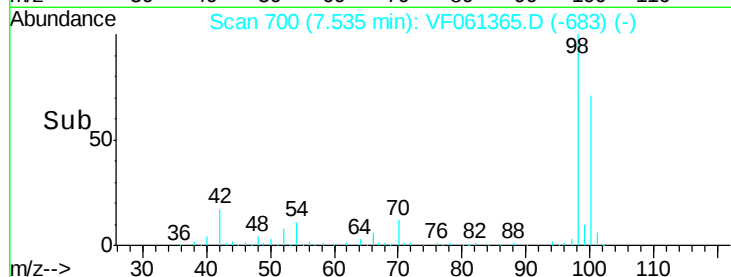
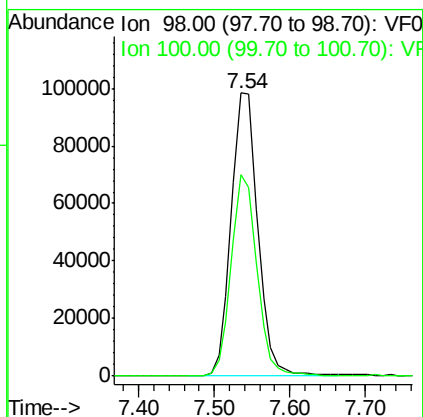
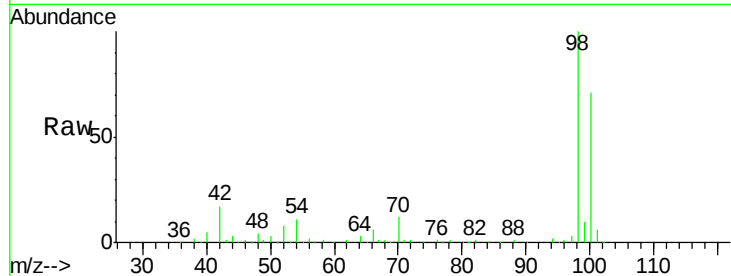




#50
Toluene-d8
Concen: 47.387 ug/l
RT: 7.54 min Scan# 700
Delta R.T. -0.03 min
Lab File: VF061365.D
Acq: 11 Jan 2019 13:47

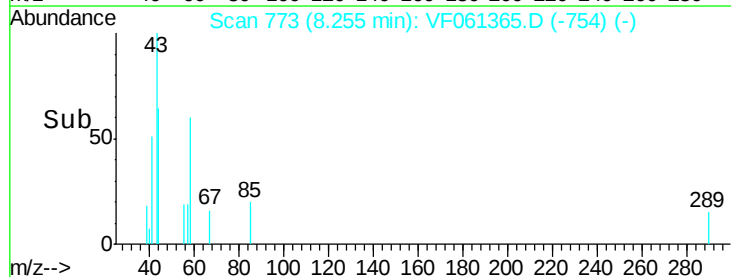
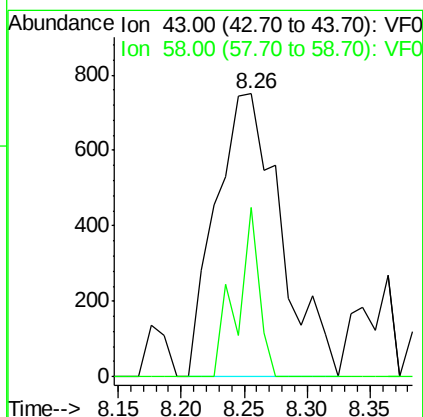
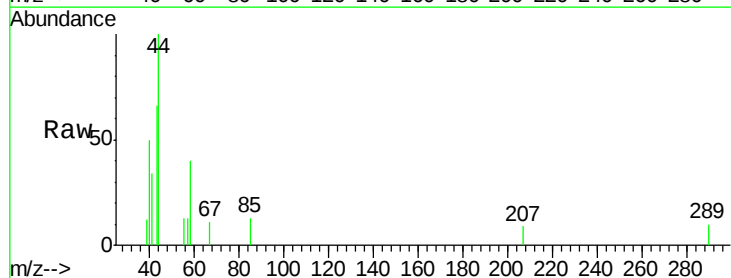
Instrument :
MSVOA_F
ClientSampled :
TP-21RE

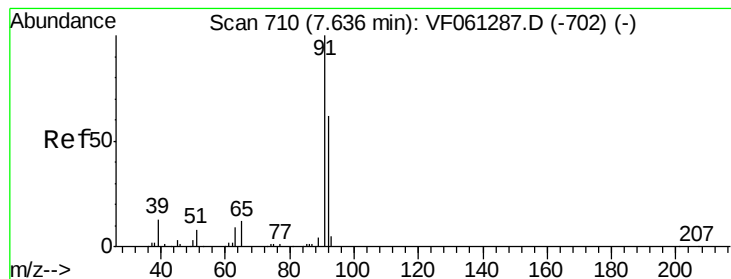
Tot Ion: 98 Resp: 240755
Ion Ratio Lower Upper
98 100
100 71.1 55.6 83.4



#51
4-Methyl-2-Pentanone
Concen: 2.826 ug/l
RT: 8.26 min Scan# 773
Delta R.T. -0.01 min
Lab File: VF061365.D
Acq: 11 Jan 2019 13:47

Tgt Ion: 43 Resp: 2687
Ion Ratio Lower Upper
43 100
58 60.0 29.6 44.4#





#52

Toluene

Concen: 2.208 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.02 min

Lab File: VF061365.D

Acq: 11 Jan 2019 13:47

Instrument :

MSVOA_F

ClientSampleId :

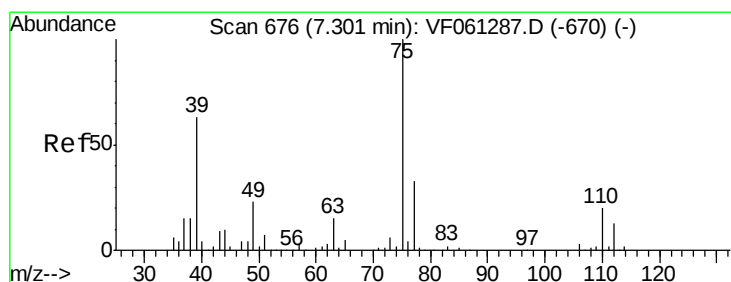
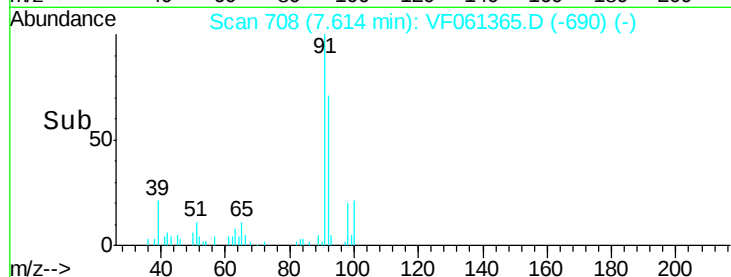
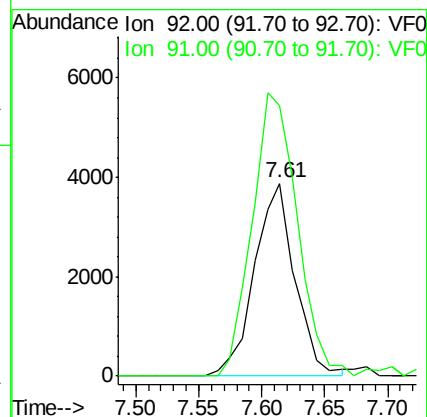
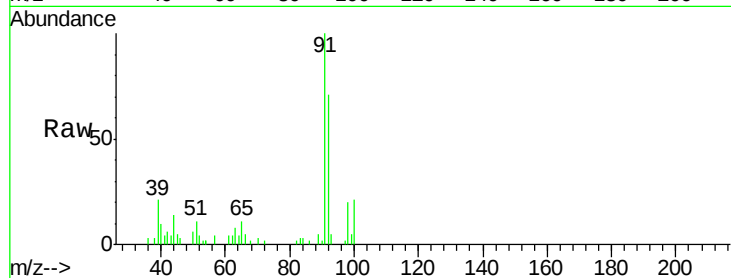
TP-21RE

Tot Ion: 92 Resp: 8680

Ion Ratio Lower Upper

92 100

91 140.3 129.2 193.8



#58

2-Chloroethyl Vinyl ether

Concen: 1.240 ug/l

RT: 7.31 min Scan# 677

Delta R.T. 0.01 min

Lab File: VF061365.D

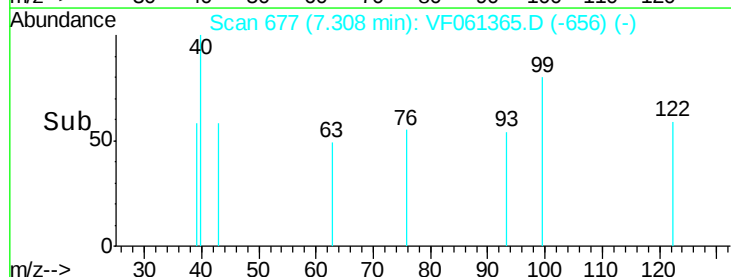
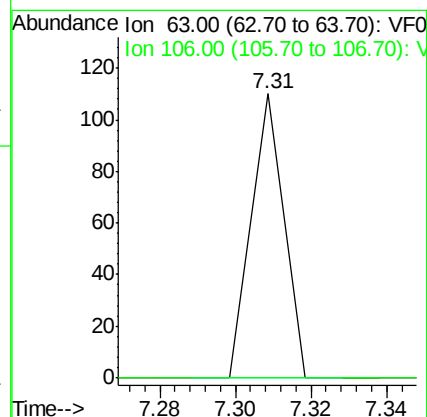
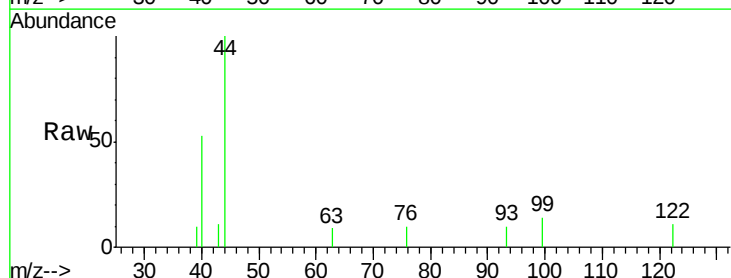
Acq: 11 Jan 2019 13:47

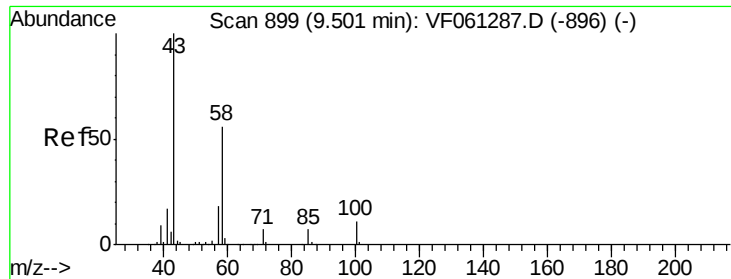
Tgt Ion: 63 Resp: 65

Ion Ratio Lower Upper

63 100

106 0.0 16.5 24.7#

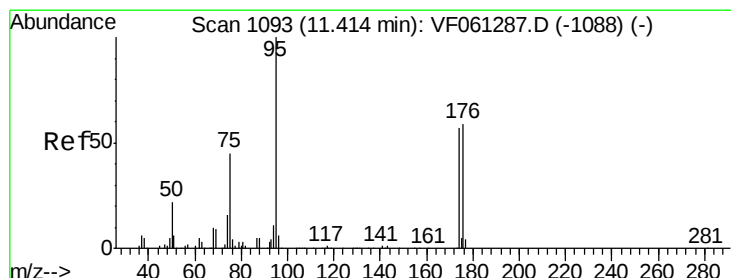
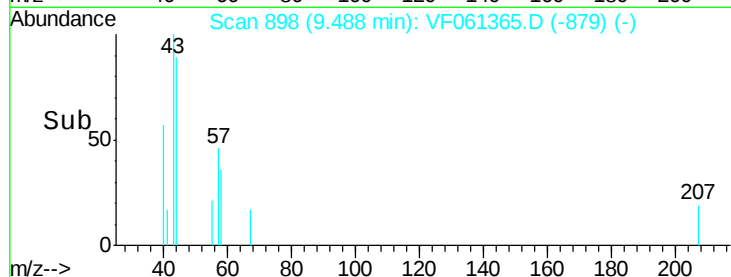
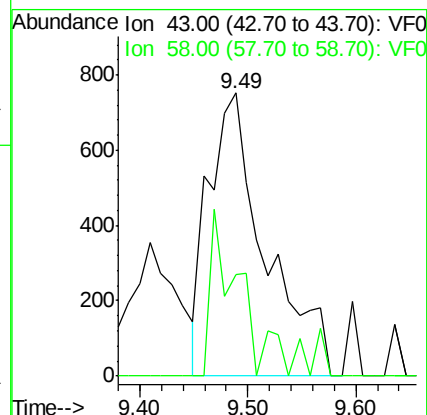
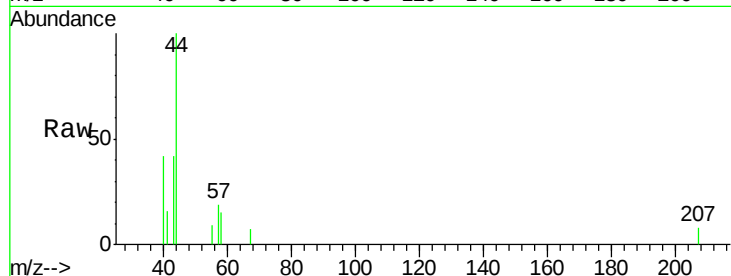




#59
2-Hexanone
Concen: 4.096 ug/l
RT: 9.49 min Scan# 898
Delta R.T. -0.01 min
Lab File: VF061365.D
Acq: 11 Jan 2019 13:47

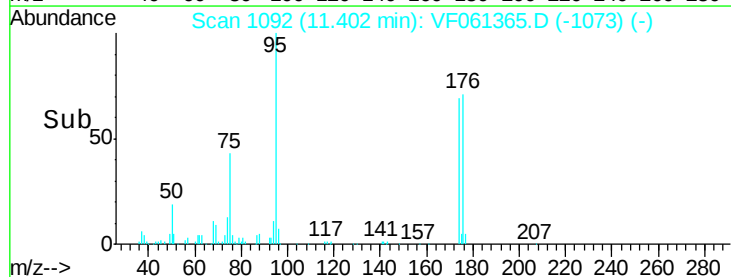
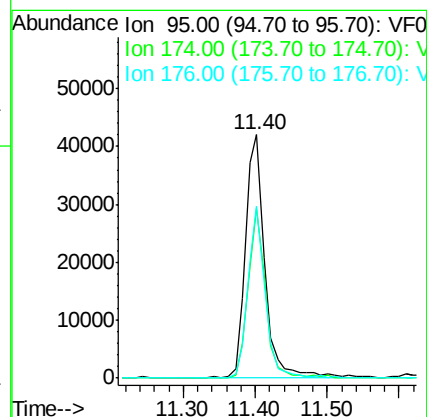
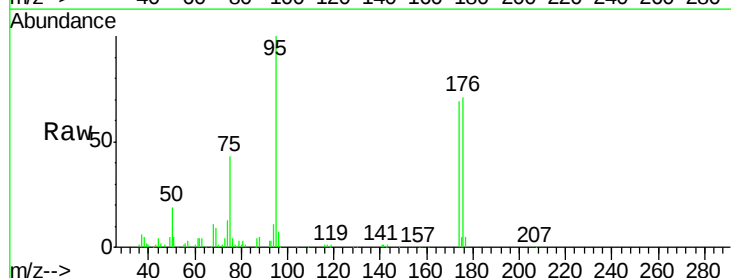
Instrument :
MSVOA_F
ClientSampleId :
TP-21RE

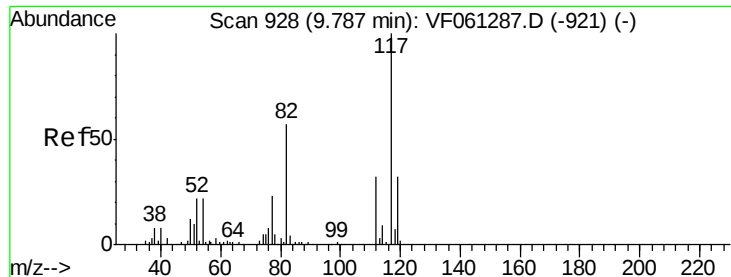
Tot Ion: 43 Resp: 2759
Ion Ratio Lower Upper
43 100
58 35.8 25.6 76.8



#62
4-Bromofluorobenzene
Concen: 35.841 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.01 min
Lab File: VF061365.D
Acq: 11 Jan 2019 13:47

Tgt Ion: 95 Resp: 79514
Ion Ratio Lower Upper
95 100
174 69.4 0.0 114.2
176 70.6 0.0 117.8

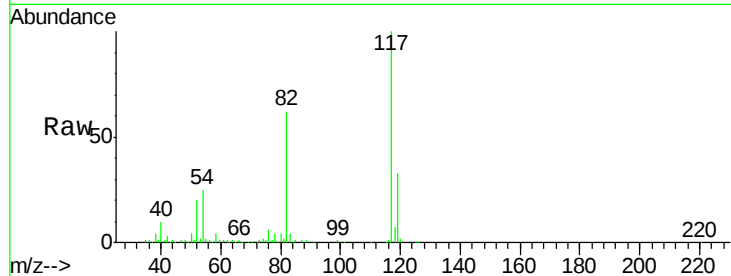




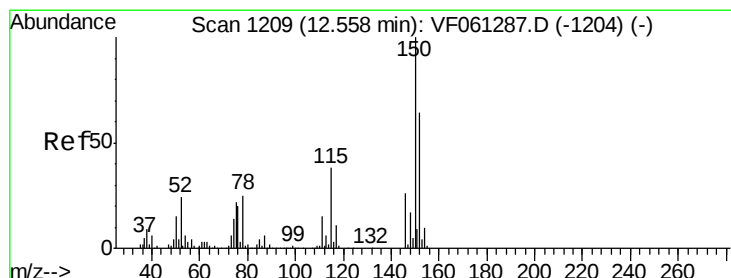
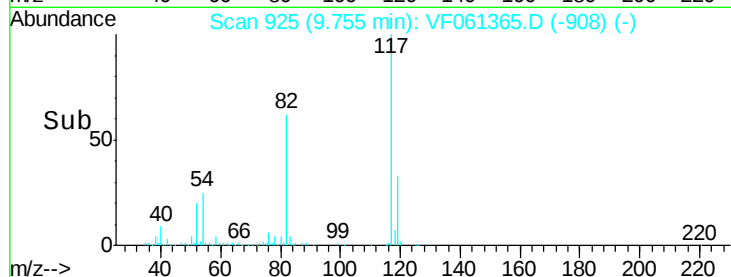
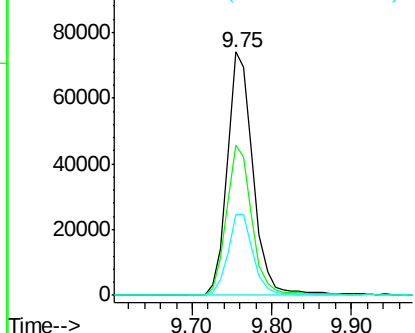
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.75 min Scan# 925
Delta R.T. -0.03 min
Lab File: VF061365.D
Acq: 11 Jan 2019 13:47

Instrument :
MSVOA_F
ClientSampleId :
TP-21RE

Tot Ion:117 Resp: 168621
Ion Ratio Lower Upper
117 100
82 61.6 45.3 67.9
119 33.3 25.4 38.0

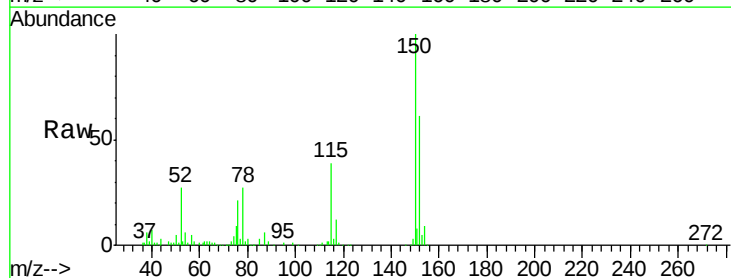


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

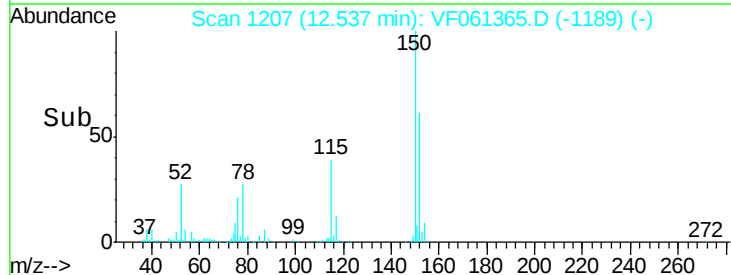
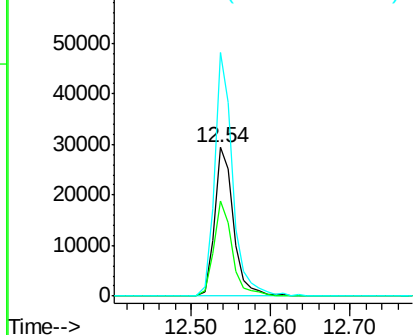


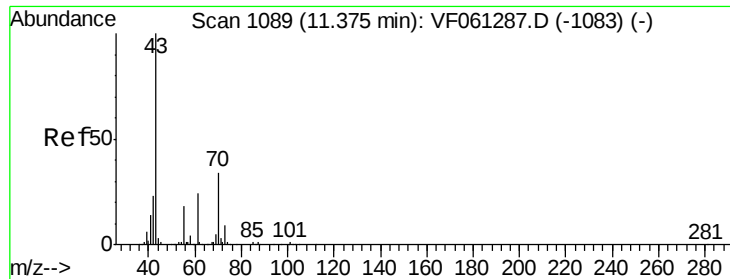
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1207
Delta R.T. -0.02 min
Lab File: VF061365.D
Acq: 11 Jan 2019 13:47

Tgt Ion:152 Resp: 49517
Ion Ratio Lower Upper
152 100
115 63.7 29.6 88.9
150 163.8 0.0 315.4



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#74

N-amyl acetate

Concen: 2.318 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. -0.01 min

Lab File: VF061365.D

Acq: 11 Jan 2019 13:47

Instrument :

MSVOA_F

ClientSampleId :

TP-21RE

Tot Ion: 43 Resp: 2296

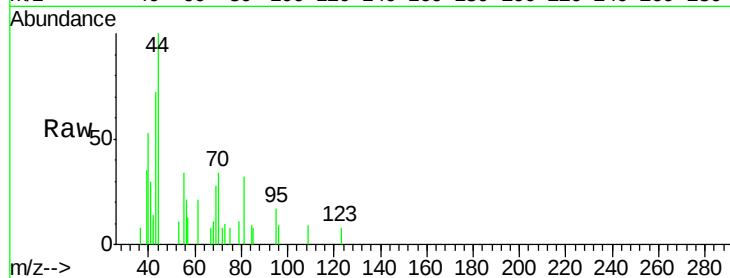
Ion Ratio Lower Upper

43 100

70 47.3 27.4 41.0#

55 47.5 14.7 22.1#

61 29.6 19.0 28.4#

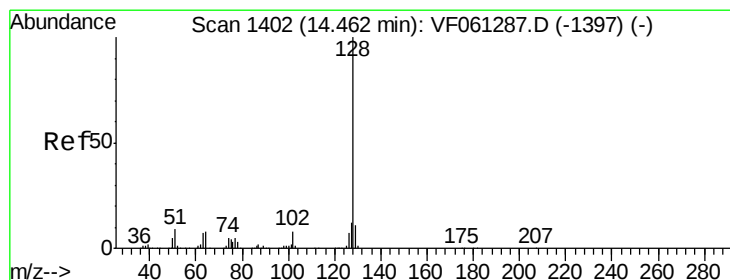
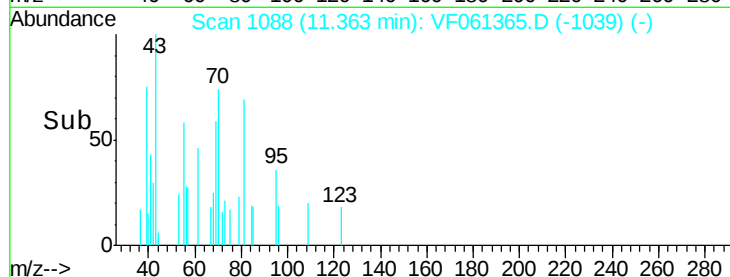
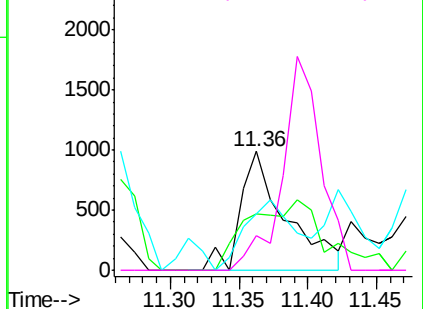


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#95

Naphthalene

Concen: 1.597 ug/l

RT: 14.44 min Scan# 1400

Delta R.T. -0.02 min

Lab File: VF061365.D

Acq: 11 Jan 2019 13:47

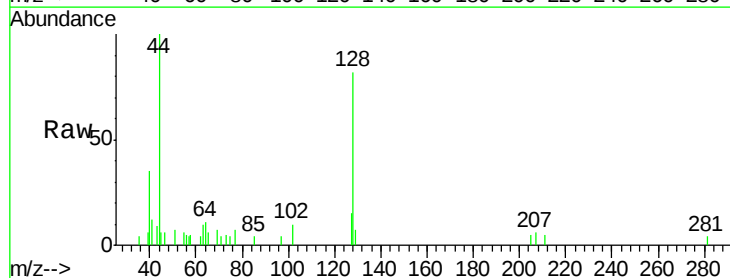
Tgt Ion: 128 Resp: 3346

Ion Ratio Lower Upper

128 100

127 18.4 9.4 14.0#

129 9.0 8.8 13.2



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

