

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051219\
 Data File : VF062511.D
 Acq On : 12 May 2019 19:00
 Operator : FY/SY
 Sample : K2719-18
 Misc : 3.33g/5mL/MSVOA F/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS011-0002-01RE

Quant Time: May 13 04:48:15 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	5.07	168	190151	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.79	114	230054	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.92	117	115905	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	27012	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	96721	53.82	ug/l	0.03
Spiked Amount			Recovery	=	107.64%	
35) Dibromofluoromethane	4.33	113	108101	58.98	ug/l	0.03
Spiked Amount			Recovery	=	117.96%	
50) Toluene-d8	7.73	98	150370	33.89	ug/l	0.02
Spiked Amount			Recovery	=	67.78%	
62) 4-Bromofluorobenzene	11.51	95	33113	16.54	ug/l	0.02
Spiked Amount			Recovery	=	33.08%	

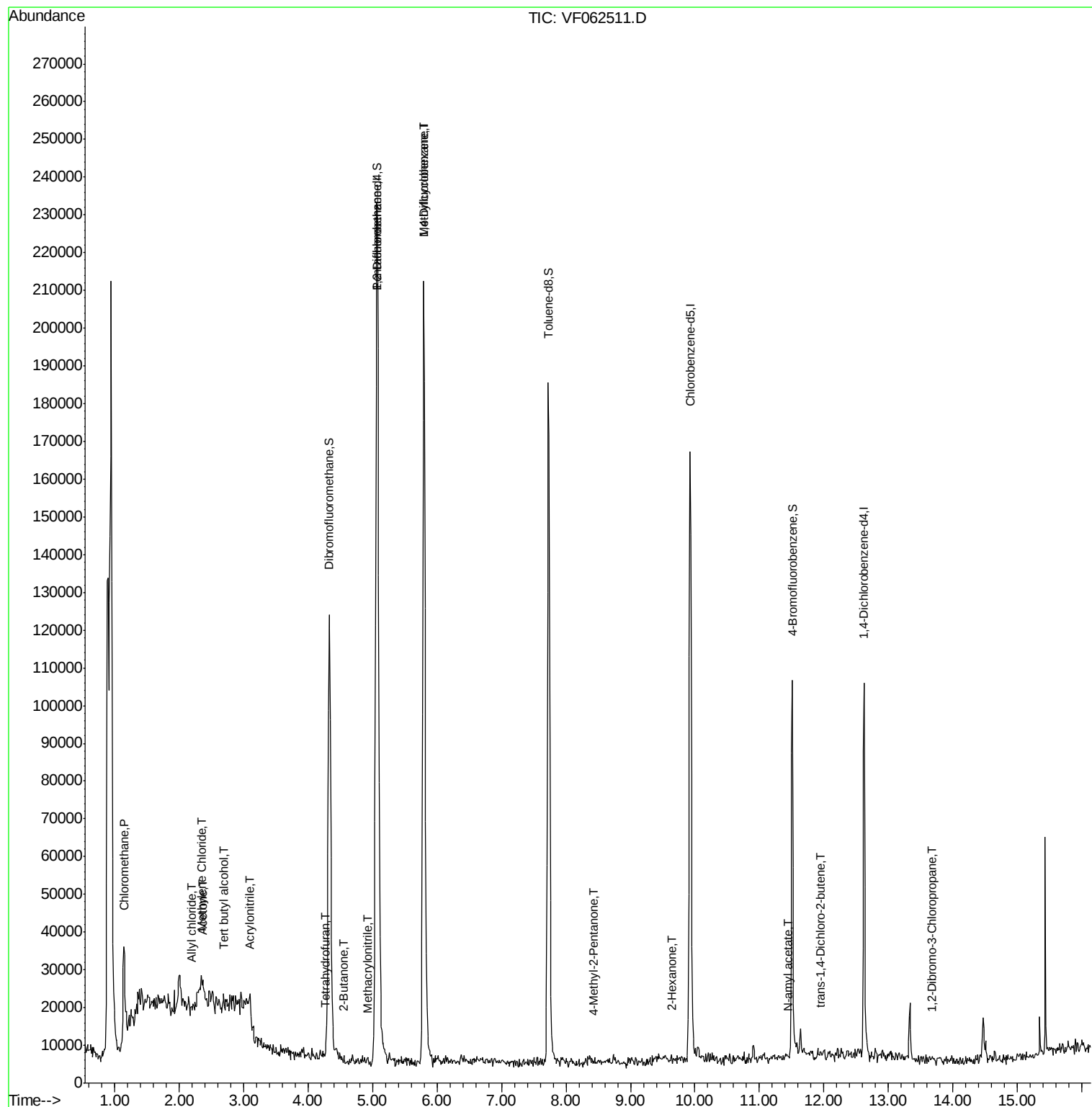
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.16	50	2062	1.421	ug/l #	42
5) Bromomethane	1.43	94	475	Below Cal	#	9
11) Tert butyl alcohol	2.69	59	875	8.615	ug/l #	70
13) Acrolein	2.08	56	763	Below Cal	#	68
14) Allyl chloride	2.20	41	1352	1.050	ug/l #	12
15) Acrylonitrile	3.09	53	670	3.483	ug/l #	34
16) Acetone	2.36	43	10141	27.897	ug/l	95
18) Methyl Acetate	2.51	43	1956	Below Cal	#	76
20) Methylene Chloride	2.34	84	2333	1.774	ug/l #	74
25) 2-Butanone	4.55	43	850	1.861	ug/l #	60
29) Tetrahydrofuran	4.26	42	977	4.655	ug/l #	51
37) Ethyl Acetate	4.35	43	485	Below Cal	#	73
38) Carbon Tetrachloride	4.12	117	60	Below Cal	#	14
39) Methylcyclohexane	5.78	83	3809	1.922	ug/l #	33
41) Methacrylonitrile	4.93	41	562	1.186	ug/l #	45
49) 1,4-Dioxane	6.76	88	68	Below Cal	#	16
51) 4-Methyl-2-Pentanone	8.43	43	791	1.161	ug/l	93
59) 2-Hexanone	9.64	43	904	1.919	ug/l #	58
74) N-amyl acetate	11.45	43	494	1.437	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.93	75	145	2.017	ug/l #	78
92) 1,2-Dibromo-3-Chloropropan	13.69	75	182	3.240	ug/l #	1

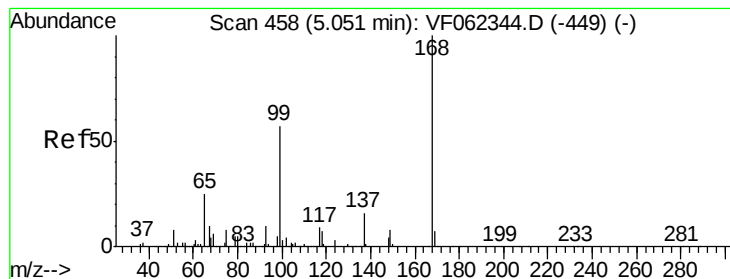
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 07 04:34:57 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 461

Delta R.T. 0.02 min

Lab File: VF062511.D

Acq: 12 May 2019 19:00

Instrument :

MSVOA_F

ClientSampleId :

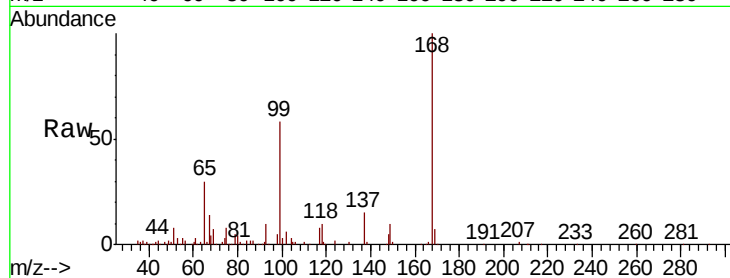
P026-SS011-0002-01RE

Tot Ion:168 Resp: 190151

Ion Ratio Lower Upper

168 100

99 57.5 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.07

60000

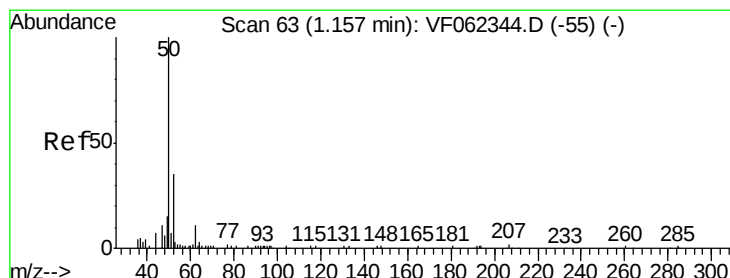
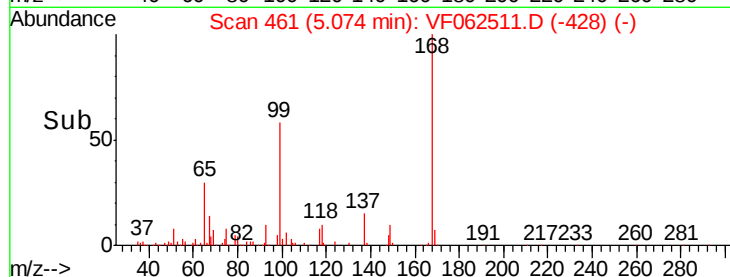
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#3

Chloromethane

Concen: 1.421 ug/l

RT: 1.16 min Scan# 64

Delta R.T. 0.00 min

Lab File: VF062511.D

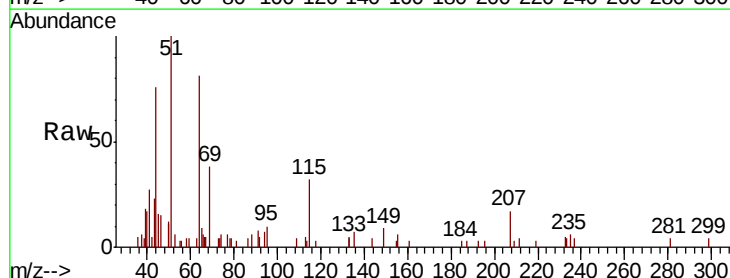
Acq: 12 May 2019 19:00

Tgt Ion: 50 Resp: 2062

Ion Ratio Lower Upper

50 100

52 0.0 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VF0

Ion 51.90 (51.60 to 52.60): VF0

1.16

800

600

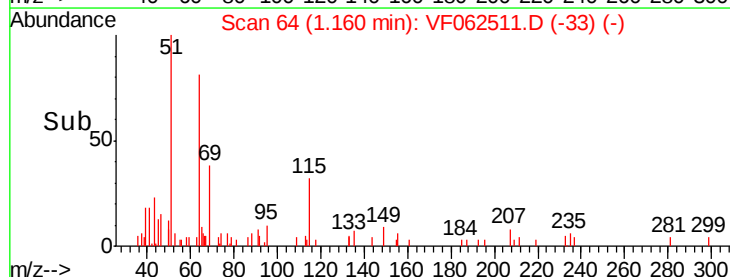
400

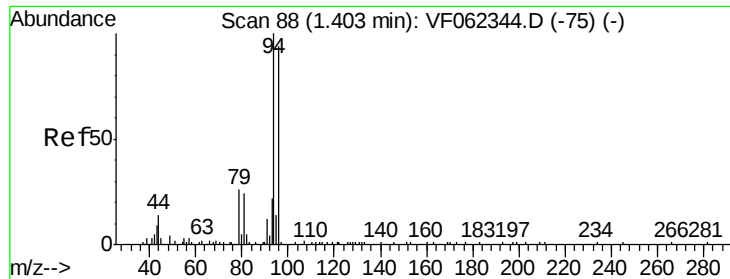
200

0

Time-->

1.10 1.15 1.20





#5

Bromomethane

Concen: Below Cal

RT: 1.43 min Scan# 91

Delta R.T. 0.02 min

Lab File: VF062511.D

Acq: 12 May 2019 19:00

Instrument :

MSVOA_F

ClientSampleId :

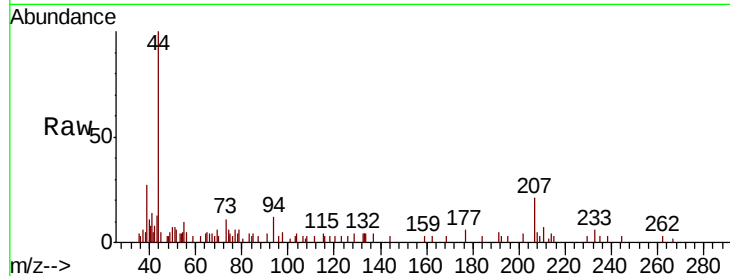
P026-SS011-0002-01RE

Tot Ion: 94 Resp: 475

Ion Ratio Lower Upper

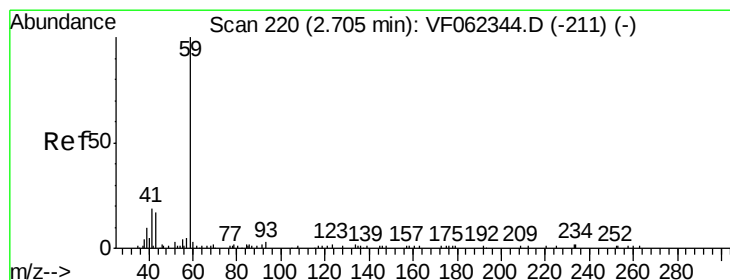
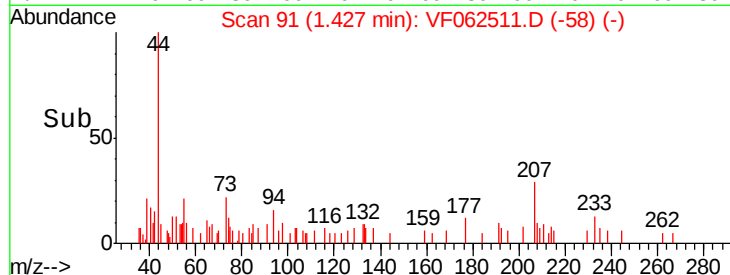
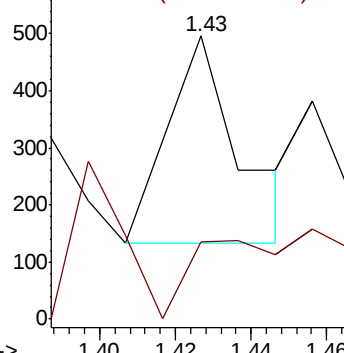
94 100

96 6.6 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0



#11

Tert butyl alcohol

Concen: 8.615 ug/l

RT: 2.69 min Scan# 219

Delta R.T. -0.02 min

Lab File: VF062511.D

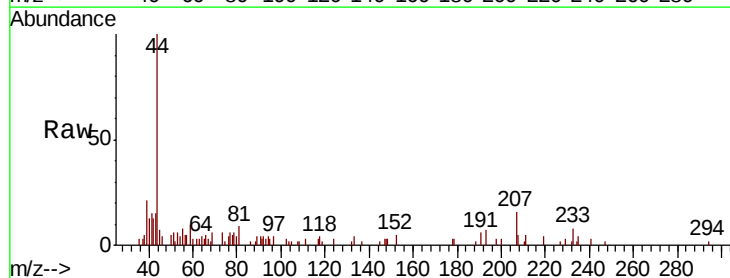
Acq: 12 May 2019 19:00

Tgt Ion: 59 Resp: 875

Ion Ratio Lower Upper

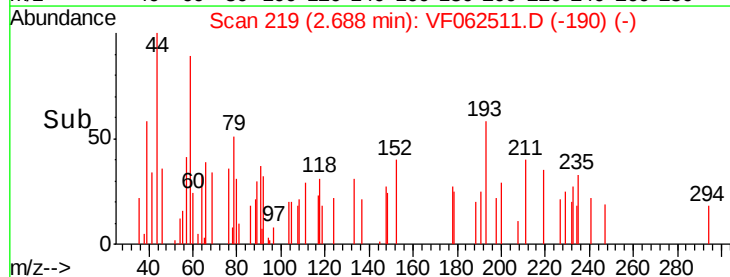
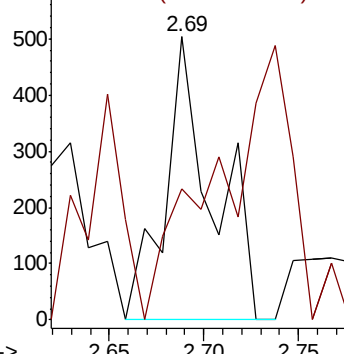
59 100

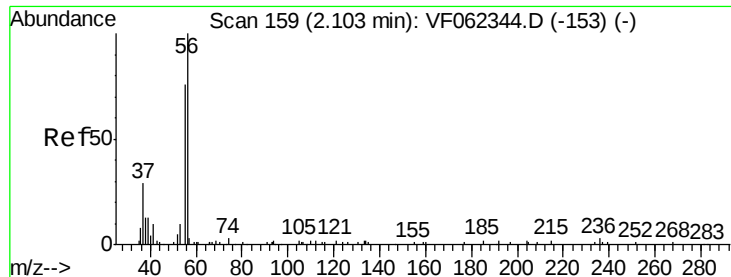
57 0.0 9.3 13.9#



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: 2.08 min Scan# 157

Delta R.T. -0.03 min

Lab File: VF062511.D

Acq: 12 May 2019 19:00

Instrument :

MSVOA_F

ClientSampleId :

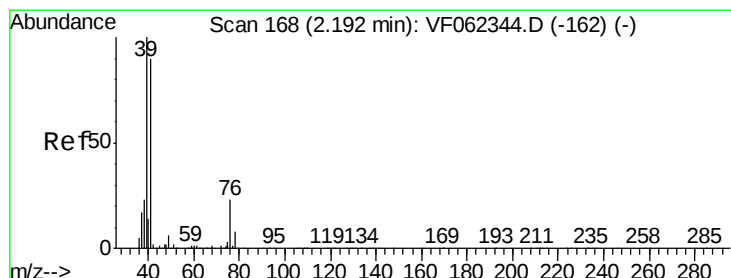
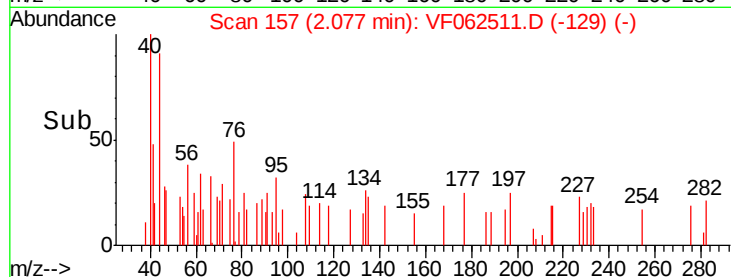
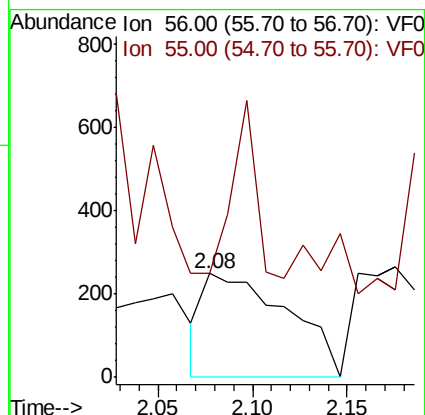
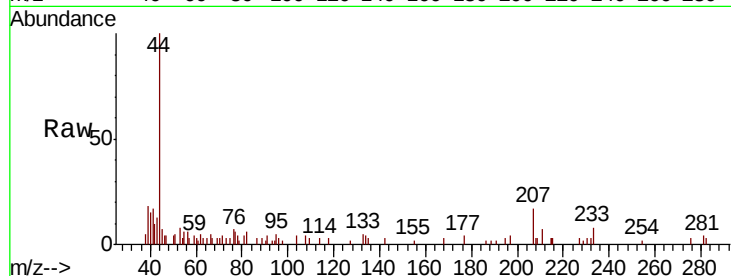
P026-SS011-0002-01RE

Tot Ion: 56 Resp: 763

Ion Ratio Lower Upper

56 100

55 46.0 58.4 87.6#



#14

Allyl chloride

Concen: 1.050 ug/l

RT: 2.20 min Scan# 169

Delta R.T. 0.00 min

Lab File: VF062511.D

Acq: 12 May 2019 19:00

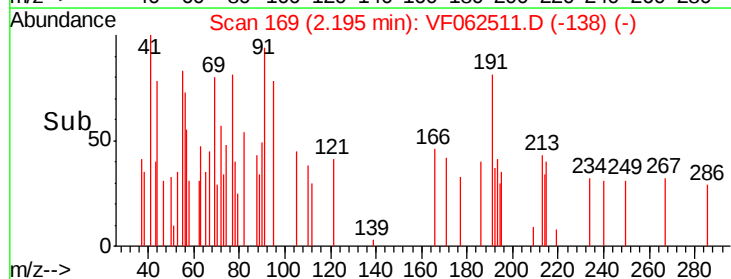
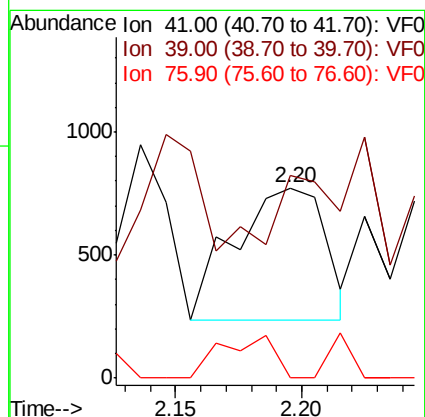
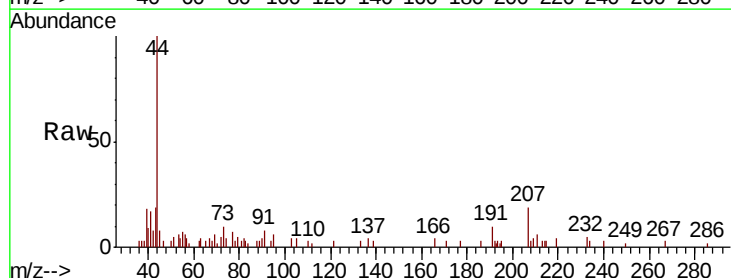
Tgt Ion: 41 Resp: 1352

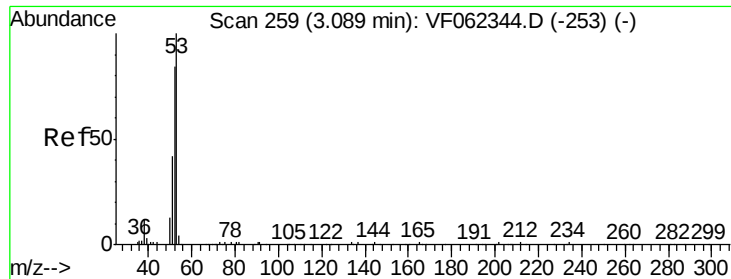
Ion Ratio Lower Upper

41 100

39 0.0 90.8 136.2#

76 18.9 22.2 33.4#





#15

Acrylonitrile

Concen: 3.483 ug/l

RT: 3.09 min Scan# 260

Delta R.T. 0.00 min

Lab File: VF062511.D

Acq: 12 May 2019 19:00

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-0002-01RE

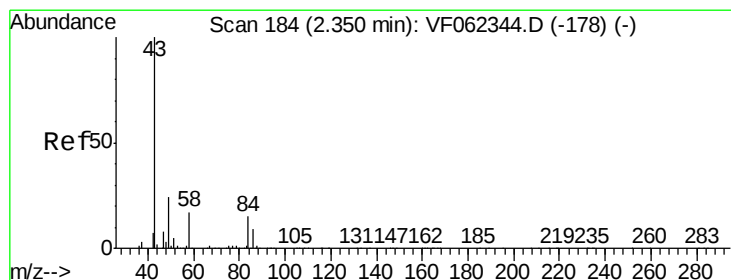
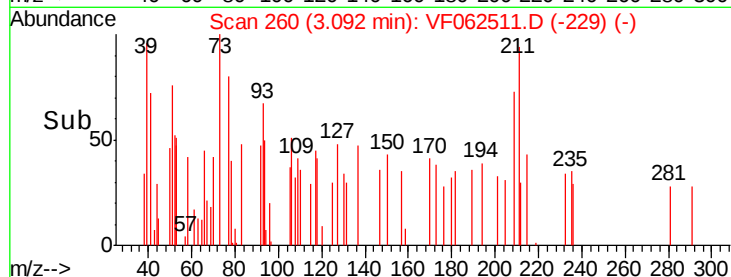
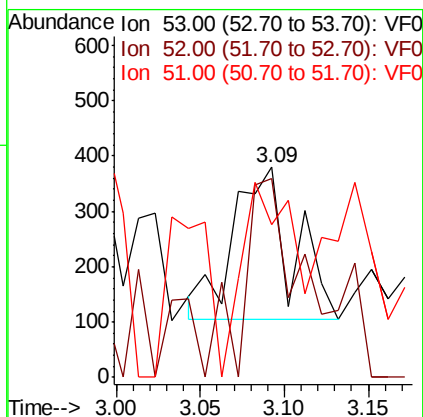
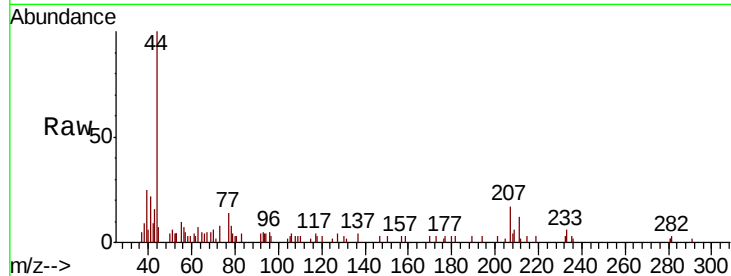
Tot Ion: 53 Resp: 670

Ion Ratio Lower Upper

53 100

52 149.0 77.2 115.8#

51 113.1 40.6 61.0#



#16

Acetone

Concen: 27.897 ug/l

RT: 2.36 min Scan# 186

Delta R.T. 0.01 min

Lab File: VF062511.D

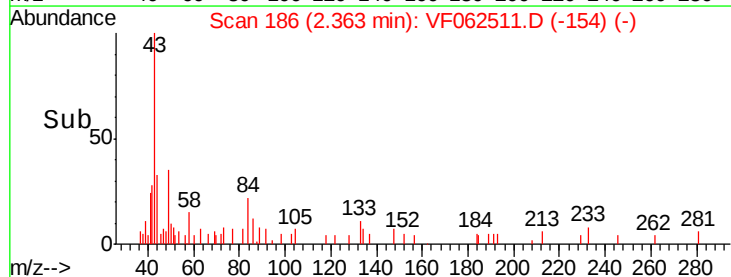
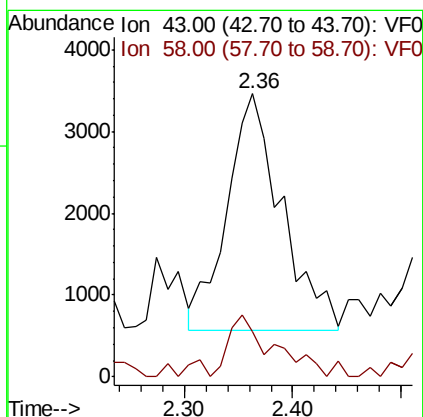
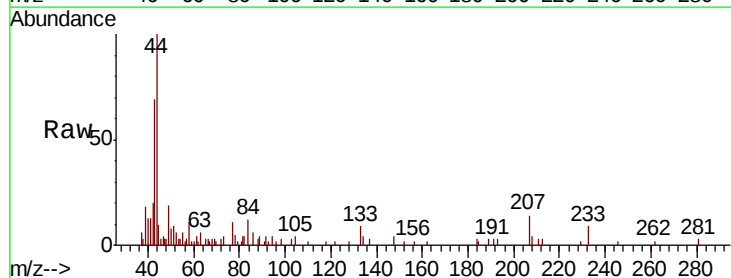
Acq: 12 May 2019 19:00

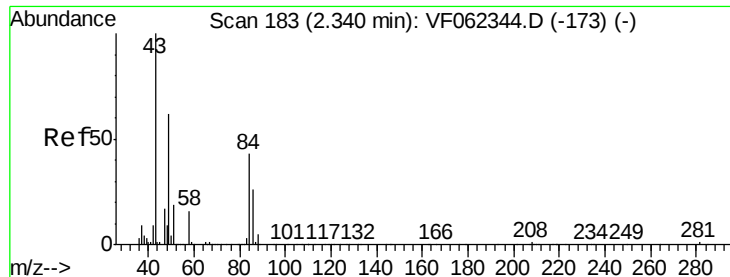
Tgt Ion: 43 Resp: 10141

Ion Ratio Lower Upper

43 100

58 14.2 13.1 19.7

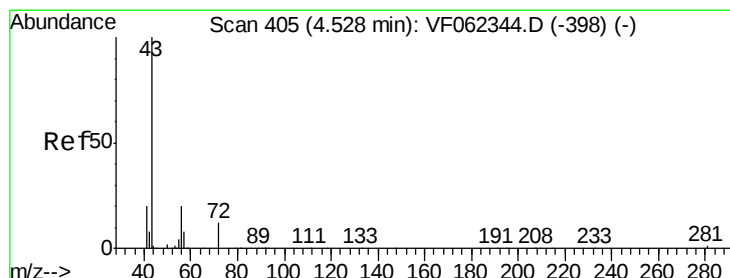
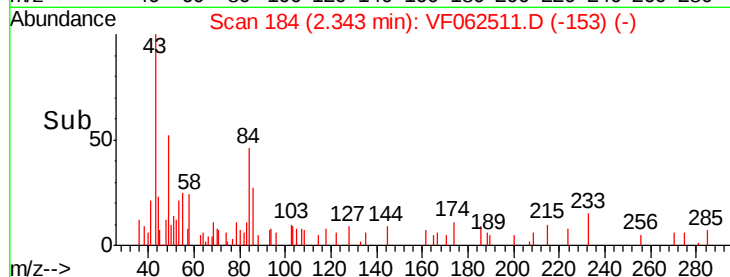
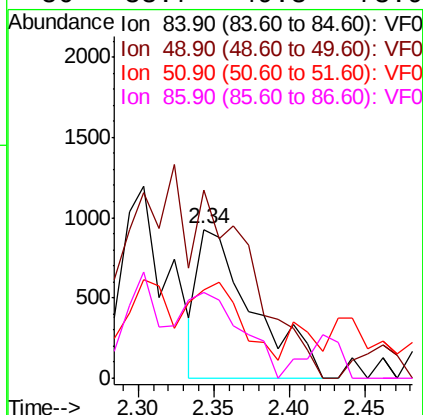
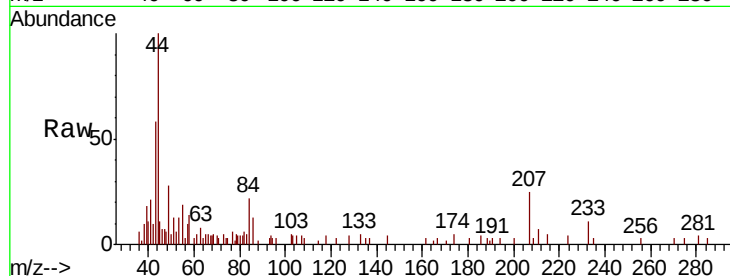




#20
Methvlene Chloride
Concen: 1.774 ug/l
RT: 2.34 min Scan# 184
Delta R.T. 0.00 min
Lab File: VF062511.D
Acq: 12 May 2019 19:00

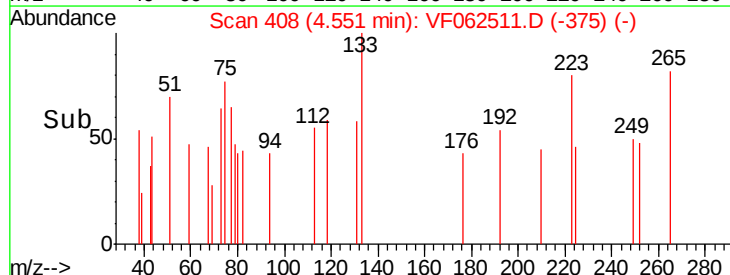
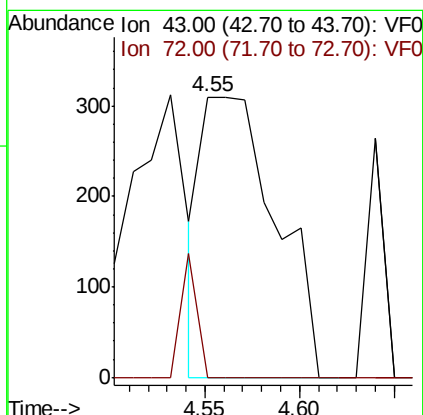
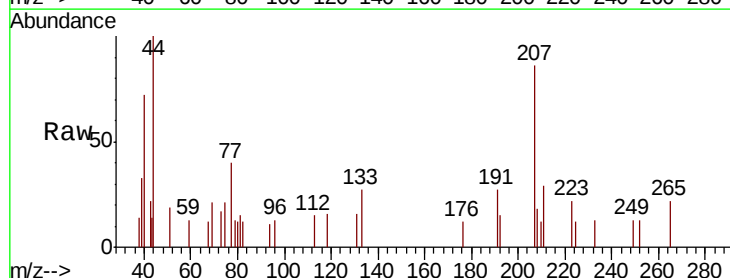
Instrument :
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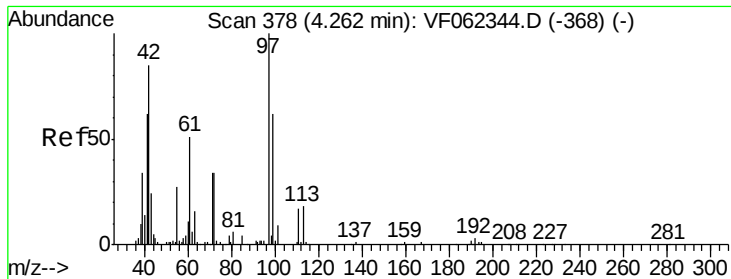
Tot Ion: 84 Resp: 2333
Ion Ratio Lower Upper
84 100
49 126.3 117.5 176.3
51 19.6 37.0 55.4#
86 33.7 49.3 73.9#



#25
2-Butanone
Concen: 1.861 ug/l
RT: 4.55 min Scan# 408
Delta R.T. 0.02 min
Lab File: VF062511.D
Acq: 12 May 2019 19:00

Tgt Ion: 43 Resp: 850
Ion Ratio Lower Upper
43 100
72 0.0 14.2 21.4#





#29

Tetrahydrofuran

Concen: 4.655 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.01 min

Lab File: VF062511.D

Acq: 12 May 2019 19:00

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-0002-01RE

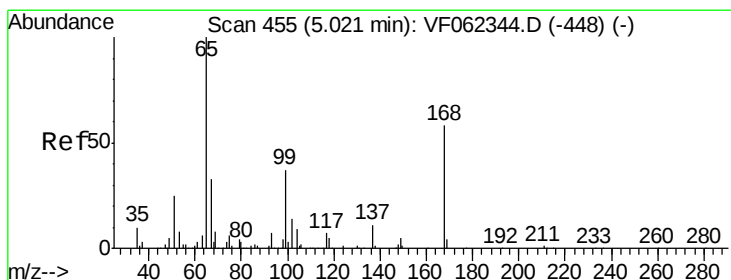
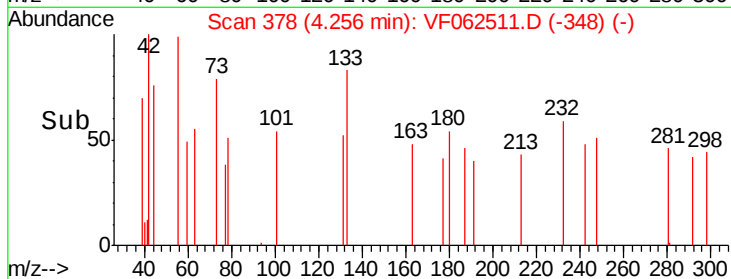
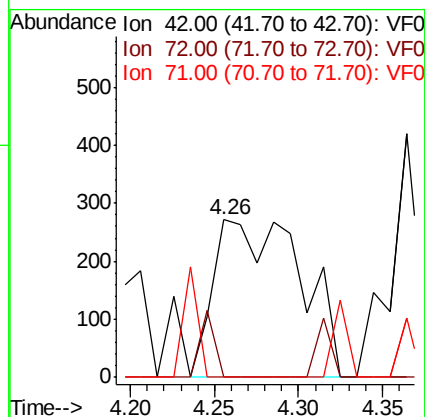
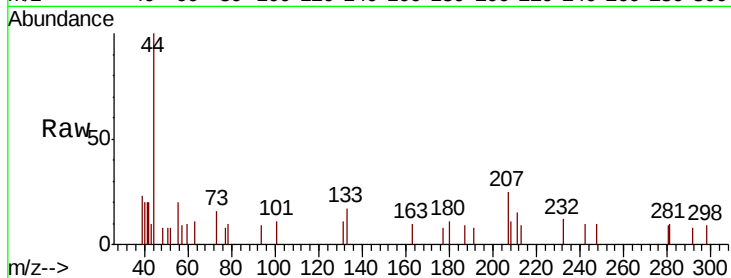
Tot Ion: 42 Resp: 977

Ion Ratio Lower Upper

42 100

72 7.0 31.4 47.0#

71 11.6 31.7 47.5#



#33

1,2-Dichloroethane-d4

Concen: 53.823 ug/l

RT: 5.05 min Scan# 459

Delta R.T. 0.03 min

Lab File: VF062511.D

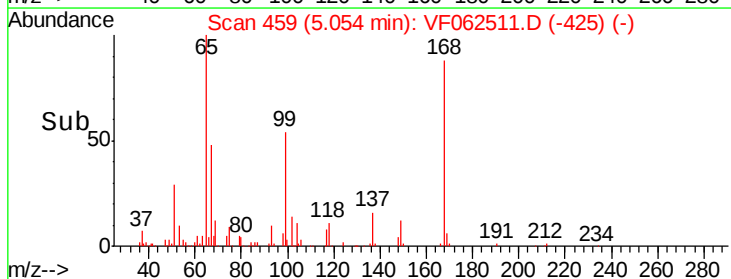
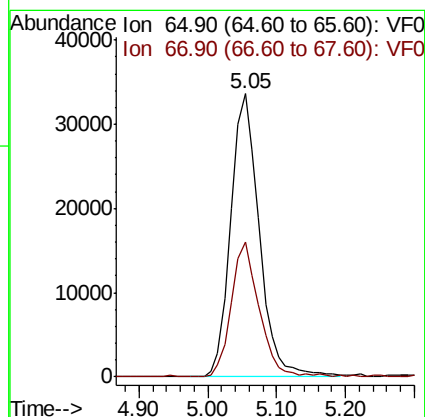
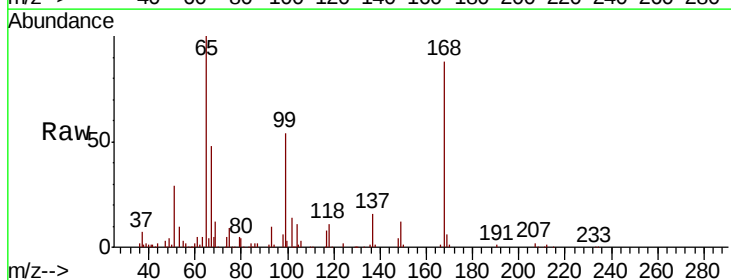
Acq: 12 May 2019 19:00

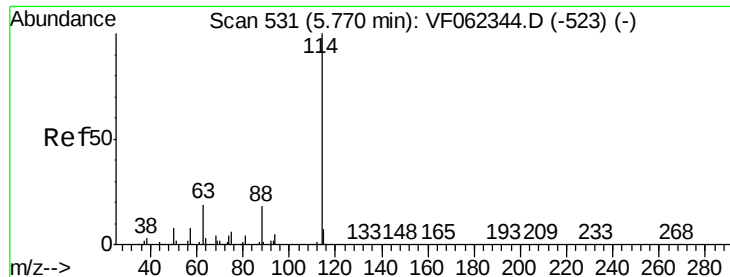
Tgt Ion: 65 Resp: 96721

Ion Ratio Lower Upper

65 100

67 46.8 0.0 85.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 534

Delta R.T. 0.02 min

Lab File: VF062511.D

Acq: 12 May 2019 19:00

Instrument :

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ClientSampleId :

P026-SS011-0002-01RE

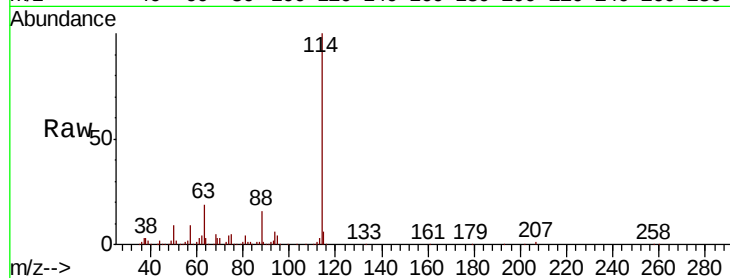
Tot Ion:114 Resp: 230054

Ion Ratio Lower Upper

114 100

63 18.8 0.0 37.4

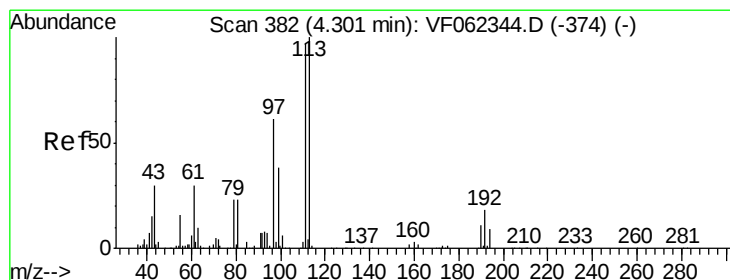
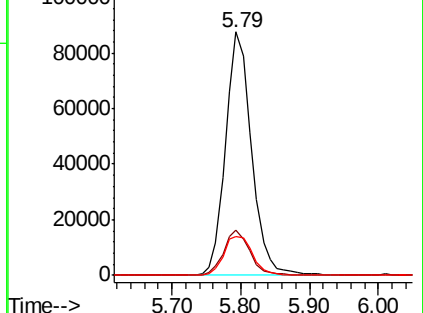
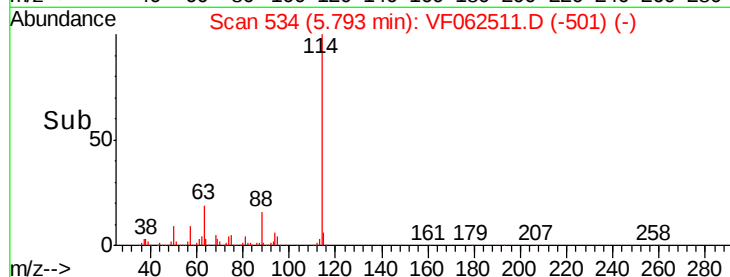
88 16.1 0.0 36.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0



#35

Dibromofluoromethane

Concen: 58.981 ug/l

RT: 4.33 min Scan# 386

Delta R.T. 0.03 min

Lab File: VF062511.D

Acq: 12 May 2019 19:00

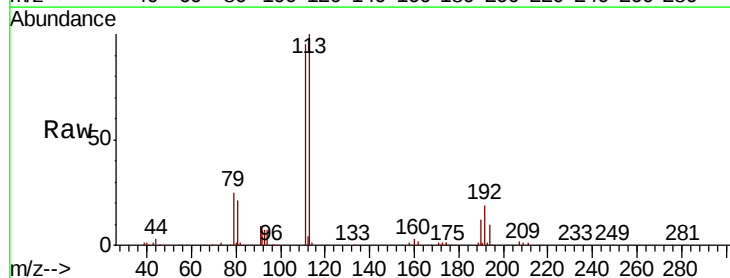
Tgt Ion:113 Resp: 108101

Ion Ratio Lower Upper

113 100

111 101.4 79.4 119.0

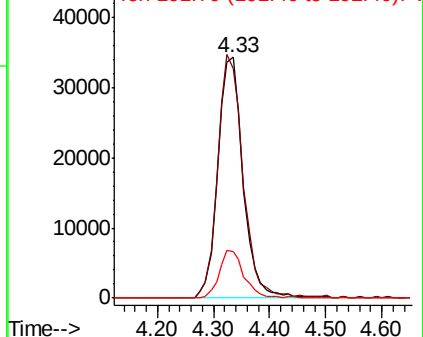
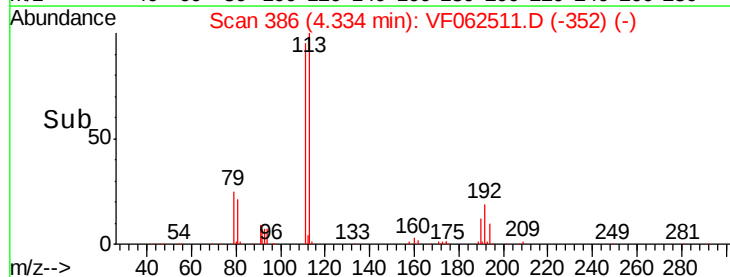
192 19.1 16.0 24.0

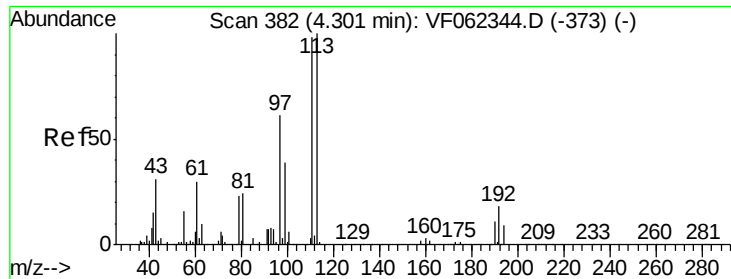


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

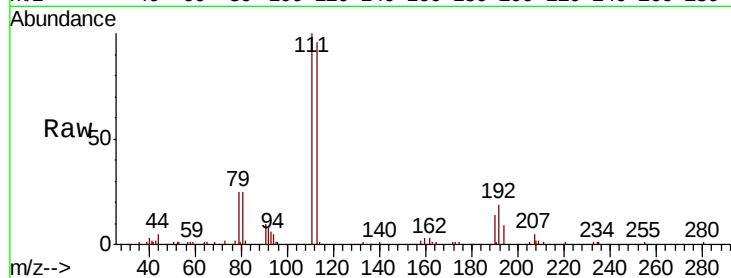




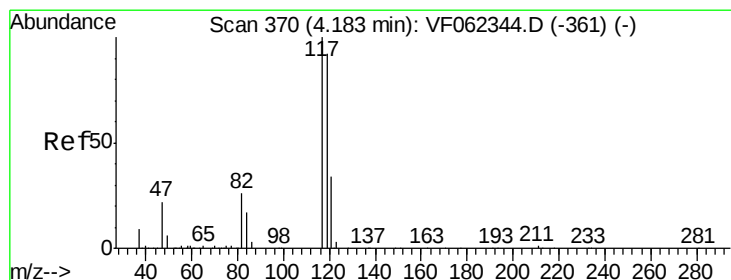
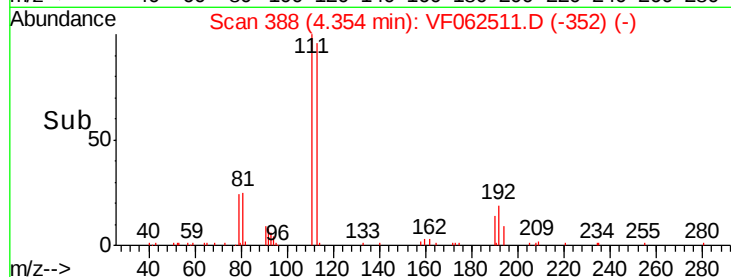
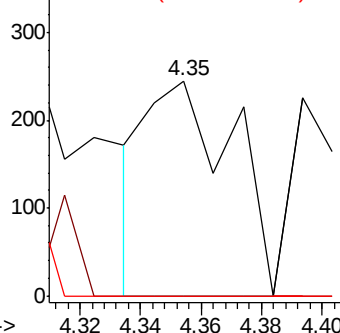
#37
Ethyl Acetate
Concen: Below Cal
RT: 4.35 min Scan# 388
Delta R.T. 0.05 min
Lab File: VF062511.D
Acq: 12 May 2019 19:00

Instrument :
MSVOA_F
ClientSampleId :
P026-SS011-0002-01RE

Tot Ion: 43 Resp: 485
Ion Ratio Lower Upper
43 100
61 0.0 0.0 0.0
70 0.0 8.2 12.2#

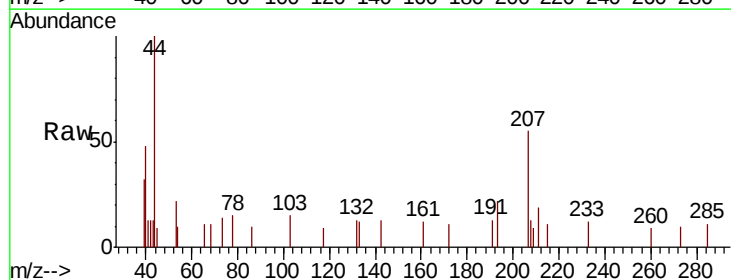


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 60.90 (60.60 to 61.60): VF0
Ion 70.00 (69.70 to 70.70): VF0

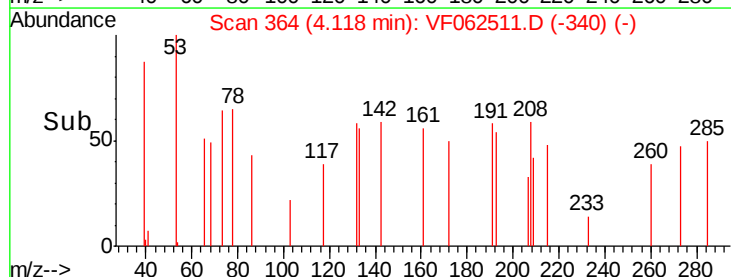
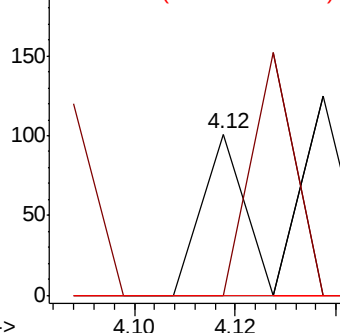


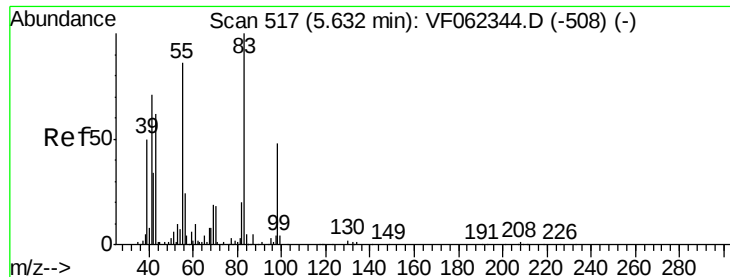
#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.12 min Scan# 364
Delta R.T. -0.07 min
Lab File: VF062511.D
Acq: 12 May 2019 19:00

Tgt Ion: 117 Resp: 60
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: 1.922 ug/l

RT: 5.78 min Scan# 533

Delta R.T. 0.15 min

Lab File: VF062511.D

Acq: 12 May 2019 19:00

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-0002-01RE

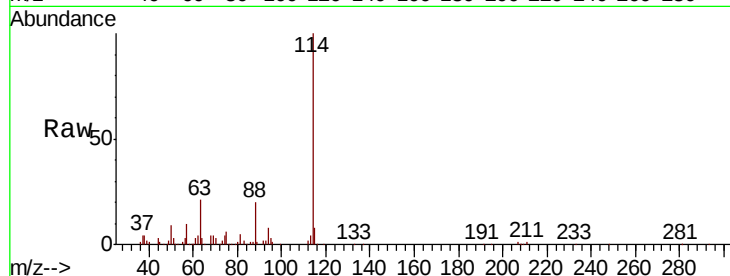
Tot Ion: 83 Resp: 3809

Ion Ratio Lower Upper

83 100

55 26.5 69.0 103.6#

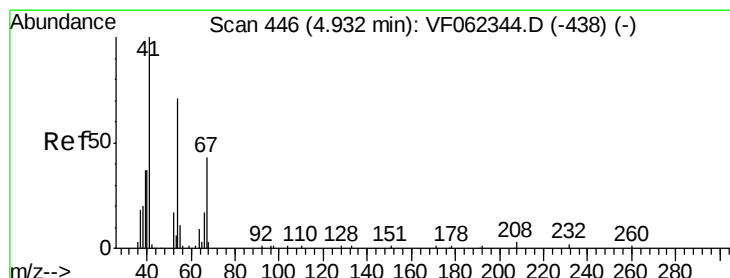
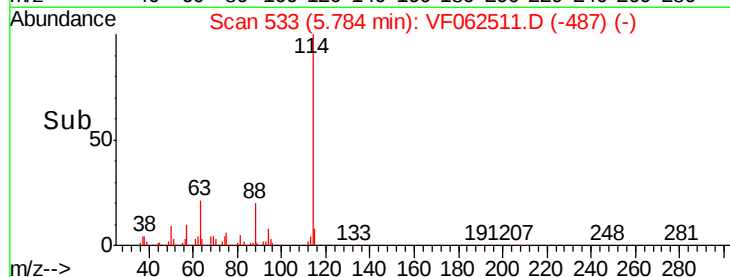
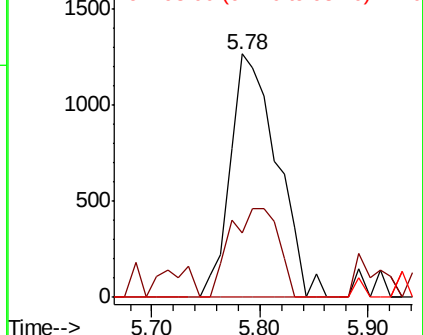
98 0.0 38.6 58.0#



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: 1.186 ug/l

RT: 4.93 min Scan# 446

Delta R.T. -0.01 min

Lab File: VF062511.D

Acq: 12 May 2019 19:00

Tgt Ion: 41 Resp: 562

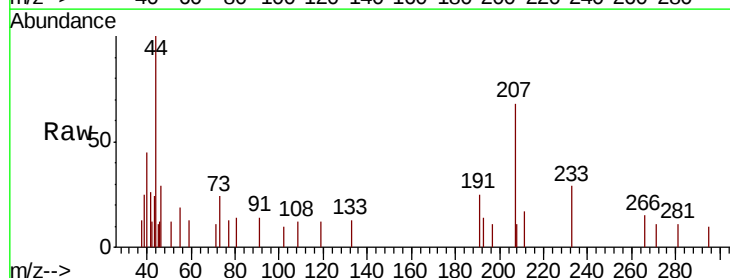
Ion Ratio Lower Upper

41 100

39 60.1 54.3 81.5

67 0.0 37.8 56.8#

52 0.0 58.2 87.4#

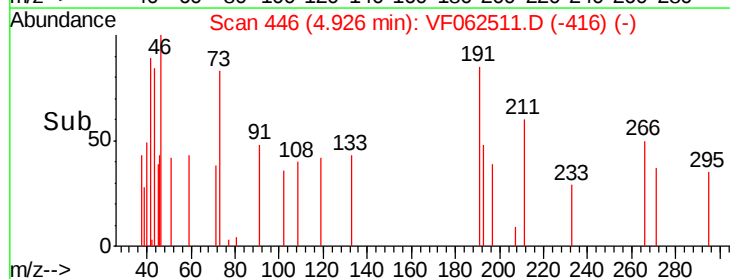
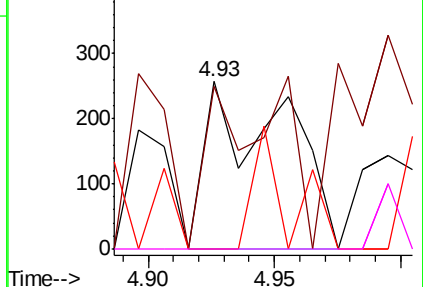


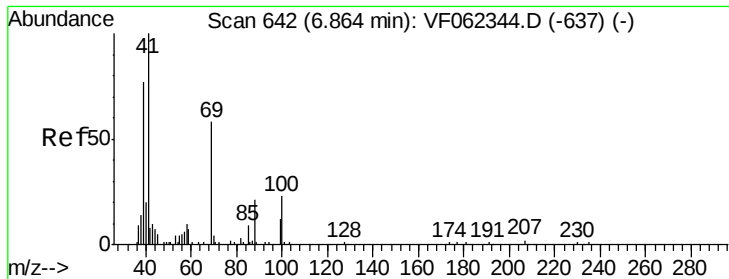
Abundance Ion 41.00 (40.70 to 41.70): VF0

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





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.76 min Scan# 632

Delta R.T. -0.10 min

Lab File: VF062511.D

Acq: 12 May 2019 19:00

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-0002-01RE

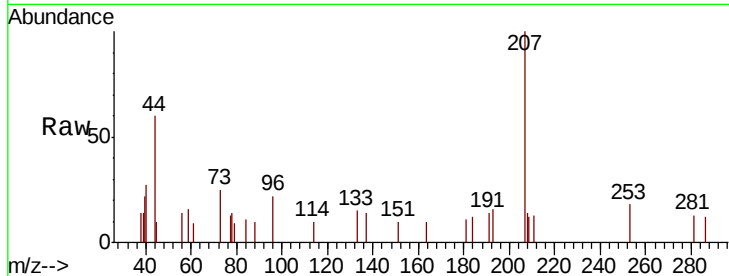
Tot Ion: 88 Resp: 68

Ion Ratio Lower Upper

88 100

43 0.0 55.6 83.4#

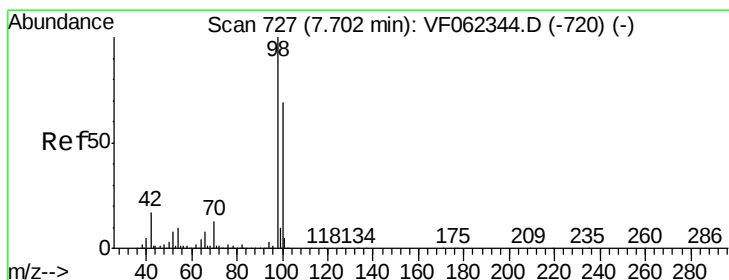
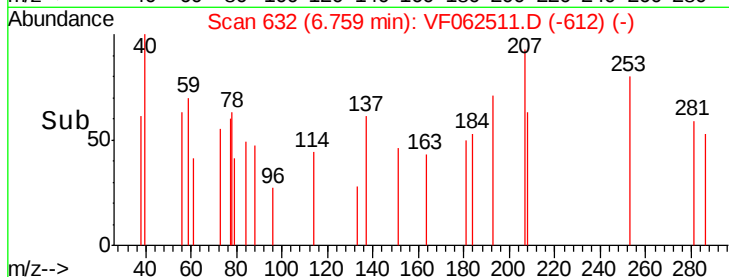
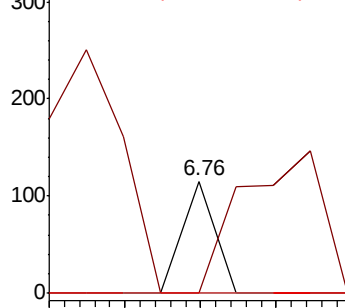
58 0.0 52.8 79.2#



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: 33.893 ug/l

RT: 7.73 min Scan# 730

Delta R.T. 0.02 min

Lab File: VF062511.D

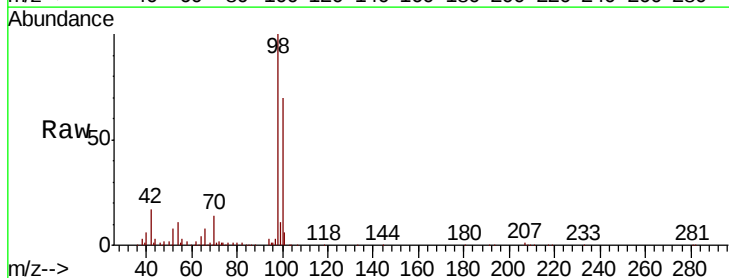
Acq: 12 May 2019 19:00

Tgt Ion: 98 Resp: 150370

Ion Ratio Lower Upper

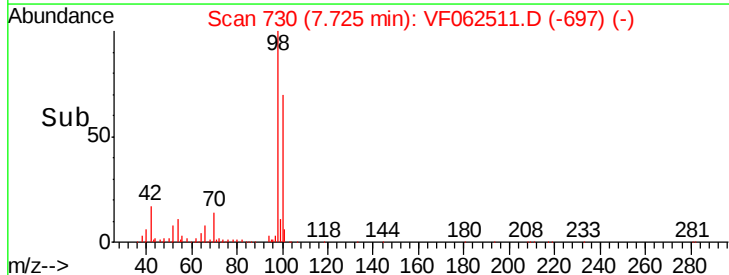
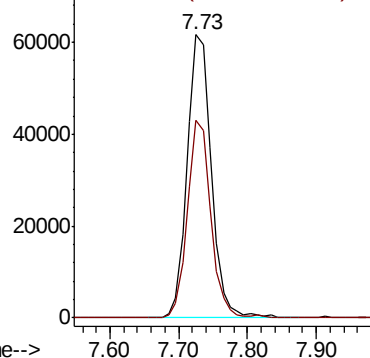
98 100

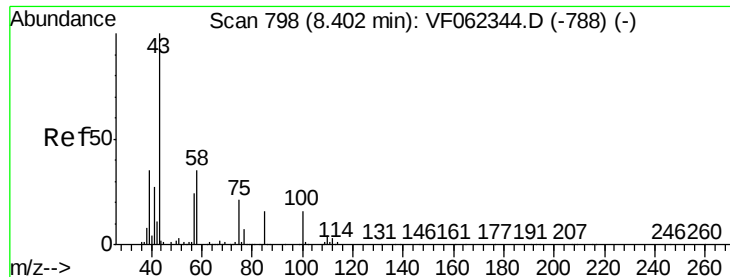
100 67.2 53.3 79.9



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: 1.161 ug/l

RT: 8.43 min Scan# 801

Delta R.T. 0.02 min

Lab File: VF062511.D

Acq: 12 May 2019 19:00

Instrument :

MSVOA_F

ClientSampleId :

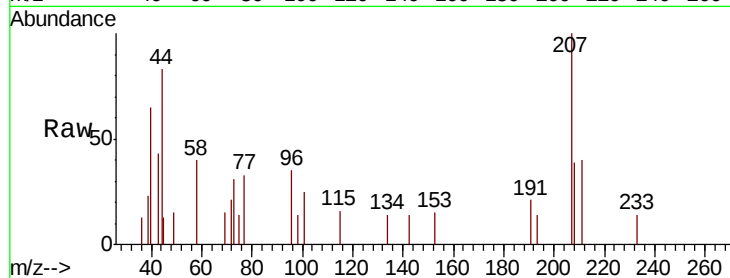
P026-SS011-0002-01RE

Tot Ion: 43 Resp: 791

Ion Ratio Lower Upper

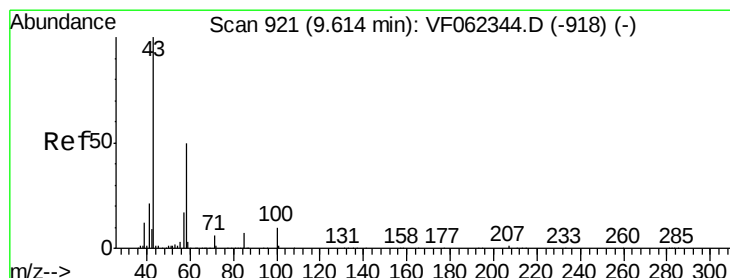
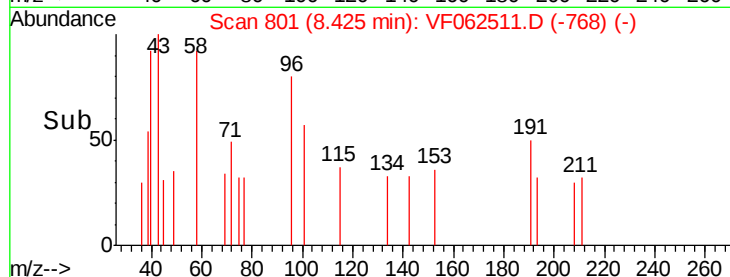
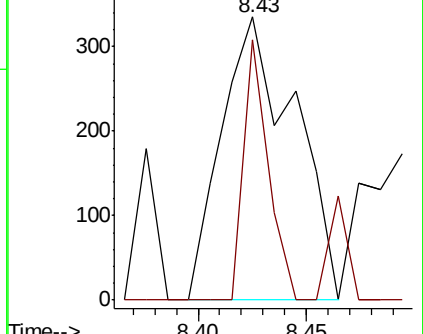
43 100

58 30.7 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: 1.919 ug/l

RT: 9.64 min Scan# 924

Delta R.T. 0.02 min

Lab File: VF062511.D

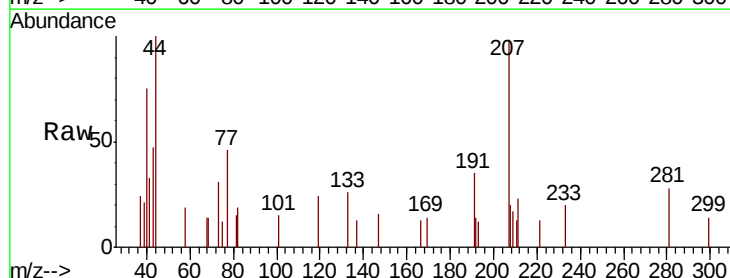
Acq: 12 May 2019 19:00

Tgt Ion: 43 Resp: 904

Ion Ratio Lower Upper

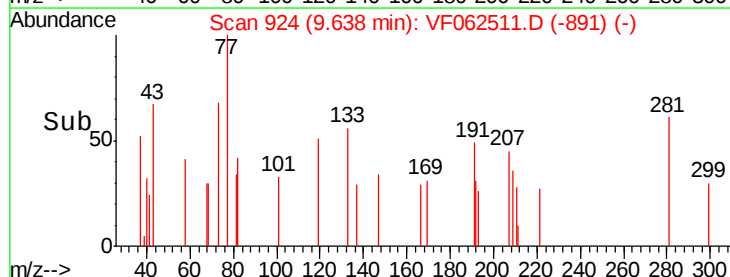
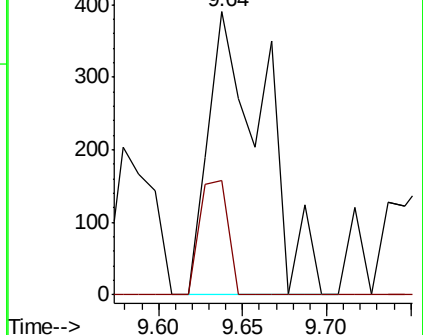
43 100

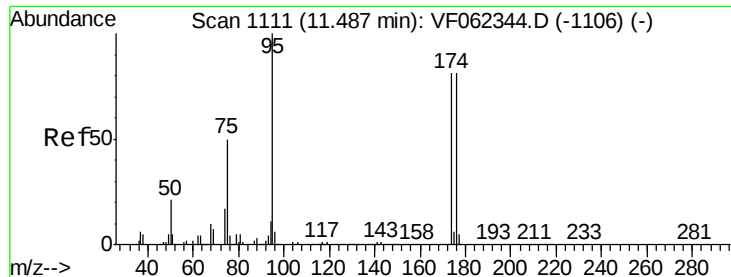
58 20.4 24.3 73.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 16.543 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.02 min

Lab File: VF062511.D

Acq: 12 May 2019 19:00

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-0002-01RE

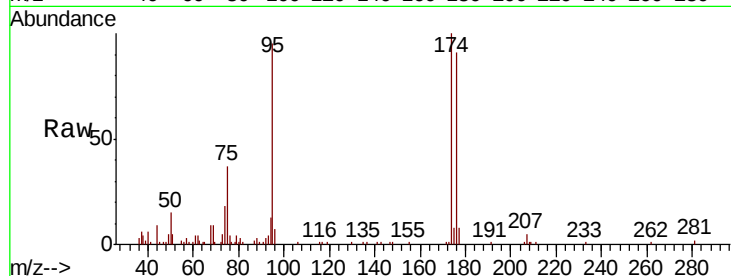
Tot Ion: 95 Resp: 33113

Ion Ratio Lower Upper

95 100

174 97.9 0.0 191.8

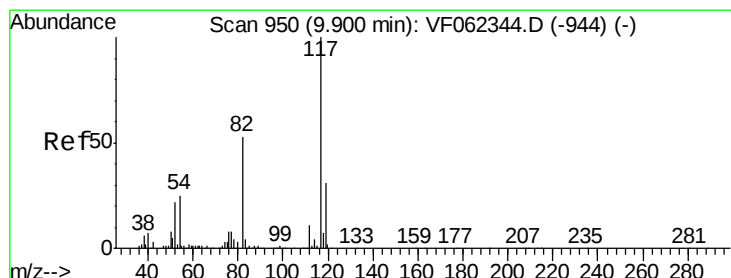
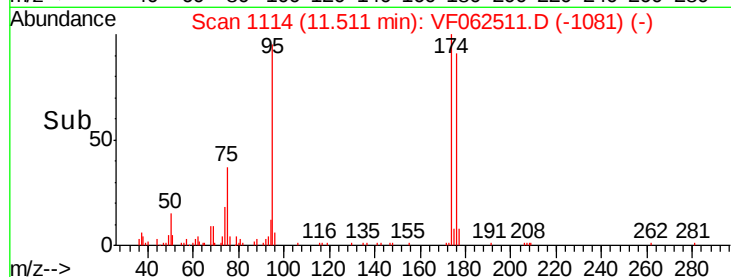
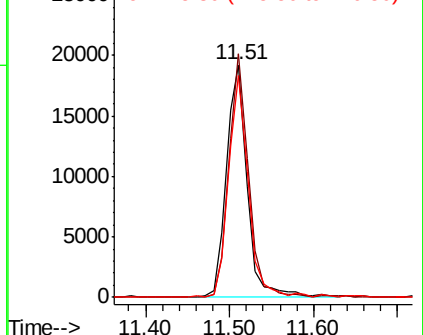
176 90.7 0.0 193.2



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: 9.92 min Scan# 953

Delta R.T. 0.02 min

Lab File: VF062511.D

Acq: 12 May 2019 19:00

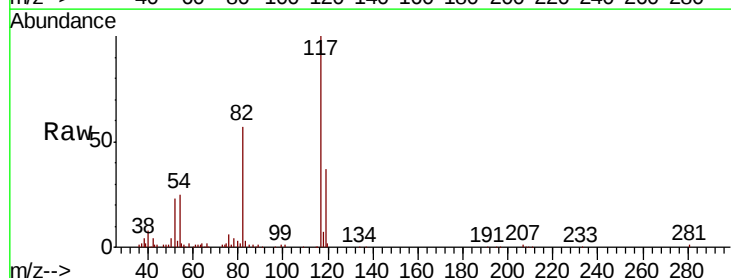
Tgt Ion: 117 Resp: 115905

Ion Ratio Lower Upper

117 100

82 56.7 42.2 63.2

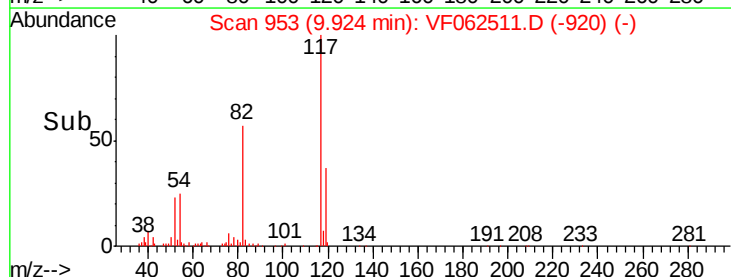
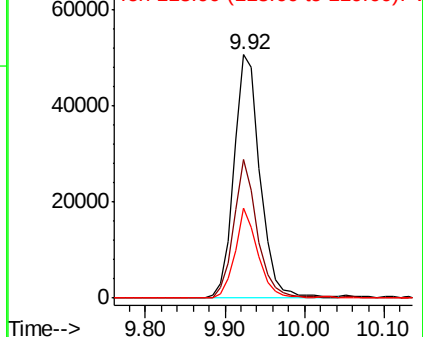
119 36.9 25.0 37.4

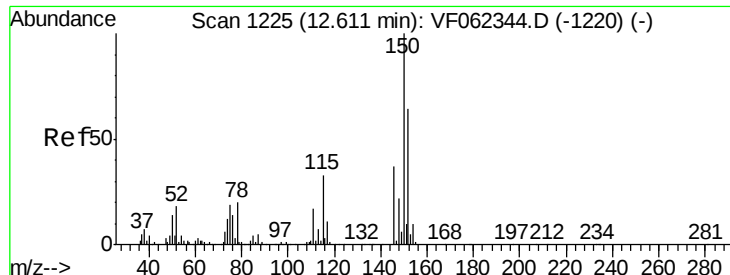


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1227

Delta R.T. 0.01 min

Lab File: VF062511.D

Acq: 12 May 2019 19:00

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-0002-01RE

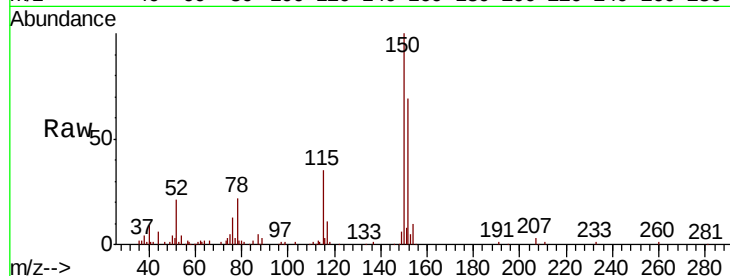
Tot Ion:152 Resp: 27012

Ion Ratio Lower Upper

152 100

115 55.8 26.4 79.2

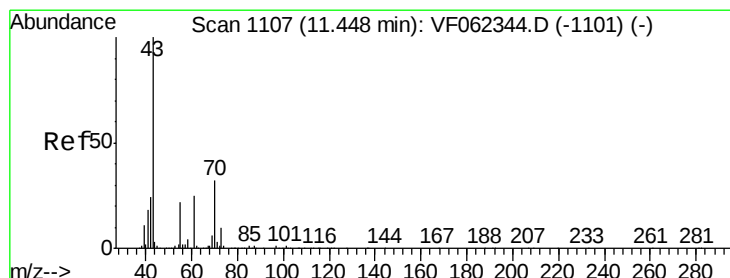
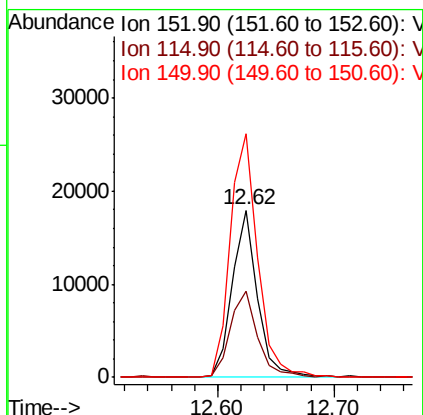
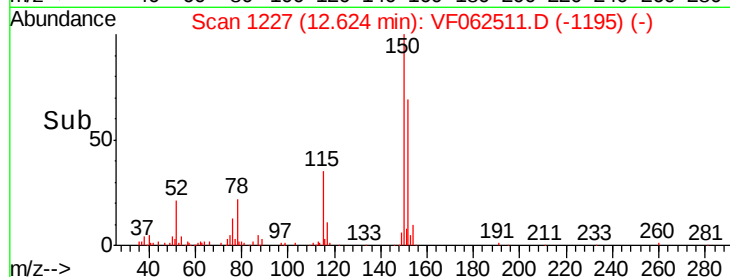
150 157.5 0.0 335.0



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-ethyl acetate

Concen: 1.437 ug/l

RT: 11.45 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VF062511.D

Acq: 12 May 2019 19:00

Tgt Ion: 43 Resp: 494

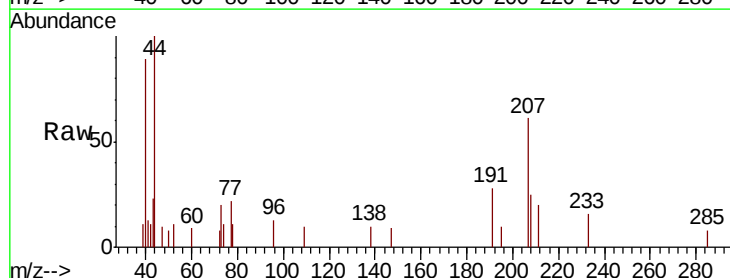
Ion Ratio Lower Upper

43 100

70 0.0 26.5 39.7#

55 63.2 17.8 26.6#

61 0.0 20.2 30.2#

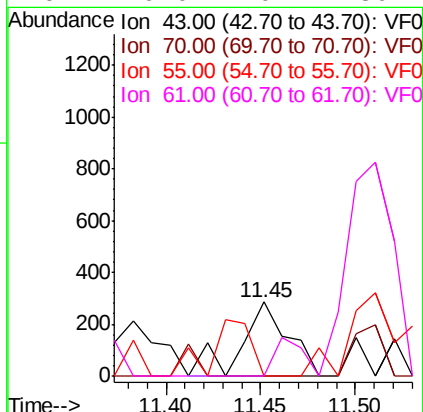
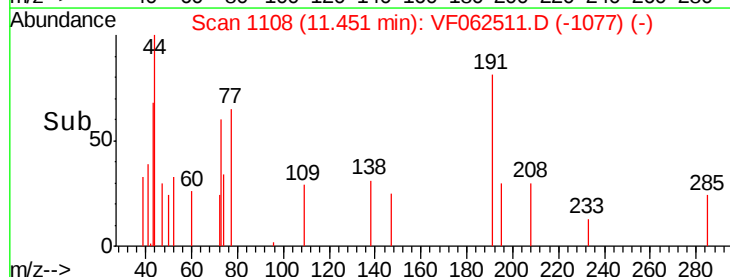


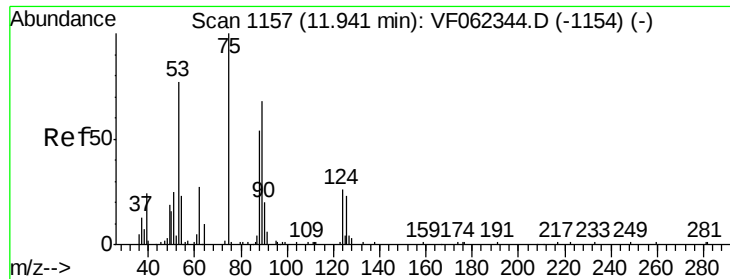
Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 2.017 ug/l

RT: 11.93 min Scan# 1157

Delta R.T. -0.01 min

Lab File: VF062511.D

Acq: 12 May 2019 19:00

Instrument :

MSVOA_F

ClientSampleId :

P026-SS011-0002-01RE

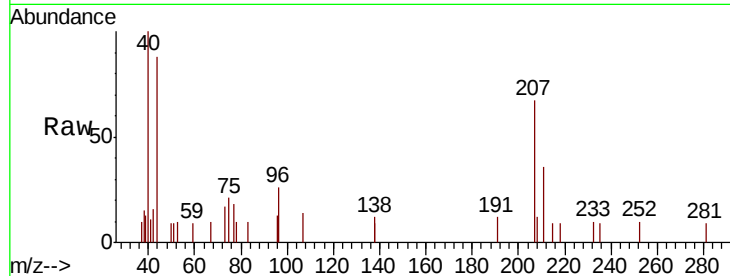
Tot Ion: 75 Resp: 145

Ion Ratio Lower Upper

75 100

53 110.3 71.9 107.9#

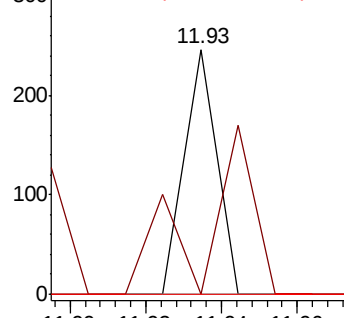
89 0.0 0.0 0.0



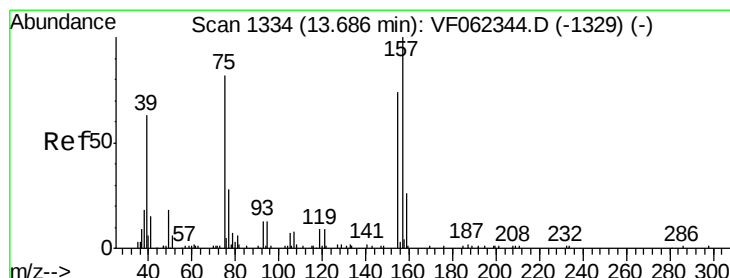
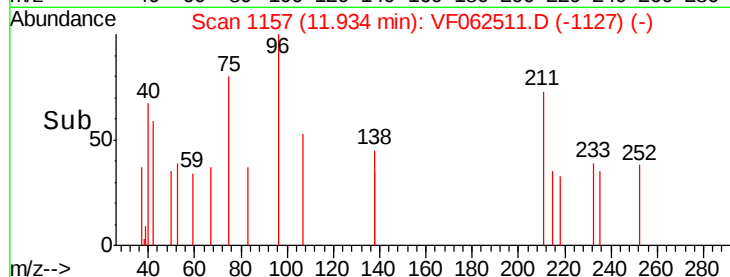
Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0



Time--> 11.90 11.92 11.94 11.96



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.240 ug/l

RT: 13.69 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VF062511.D

Acq: 12 May 2019 19:00

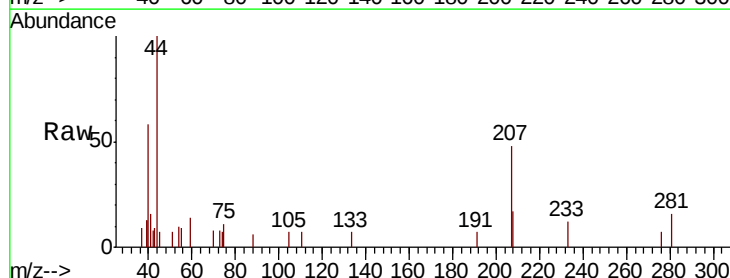
Tgt Ion: 75 Resp: 182

Ion Ratio Lower Upper

75 100

155 0.0 51.8 155.4#

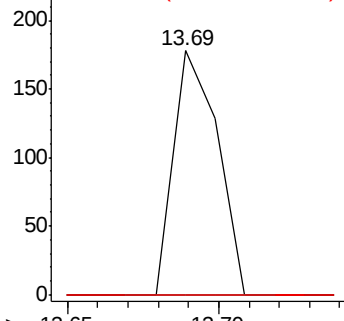
157 0.0 67.3 201.8#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



Time--> 13.65 13.70

