

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062471.D
 Acq On : 11 May 2019 20:23
 Operator : FY/SY
 Sample : K2734-19
 Misc : 5.87/5mL/MSVOA F/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS014-1218-01

Quant Time: May 12 03:49:30 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	5.06	168	147710	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.78	114	212614	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.91	117	152516	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.61	152	79516	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	99988	71.63	ug/l	0.01
Spiked Amount 50.000			Recovery =	143.26%		
35) Dibromofluoromethane	4.31	113	102011	60.22	ug/l	0.01
Spiked Amount 50.000			Recovery =	120.44%		
50) Toluene-d8	7.72	98	119194	29.07	ug/l	0.01
Spiked Amount 50.000			Recovery =	58.14%		
62) 4-Bromofluorobenzene	11.50	95	57997	31.35	ug/l	0.01
Spiked Amount 50.000			Recovery =	62.70%		

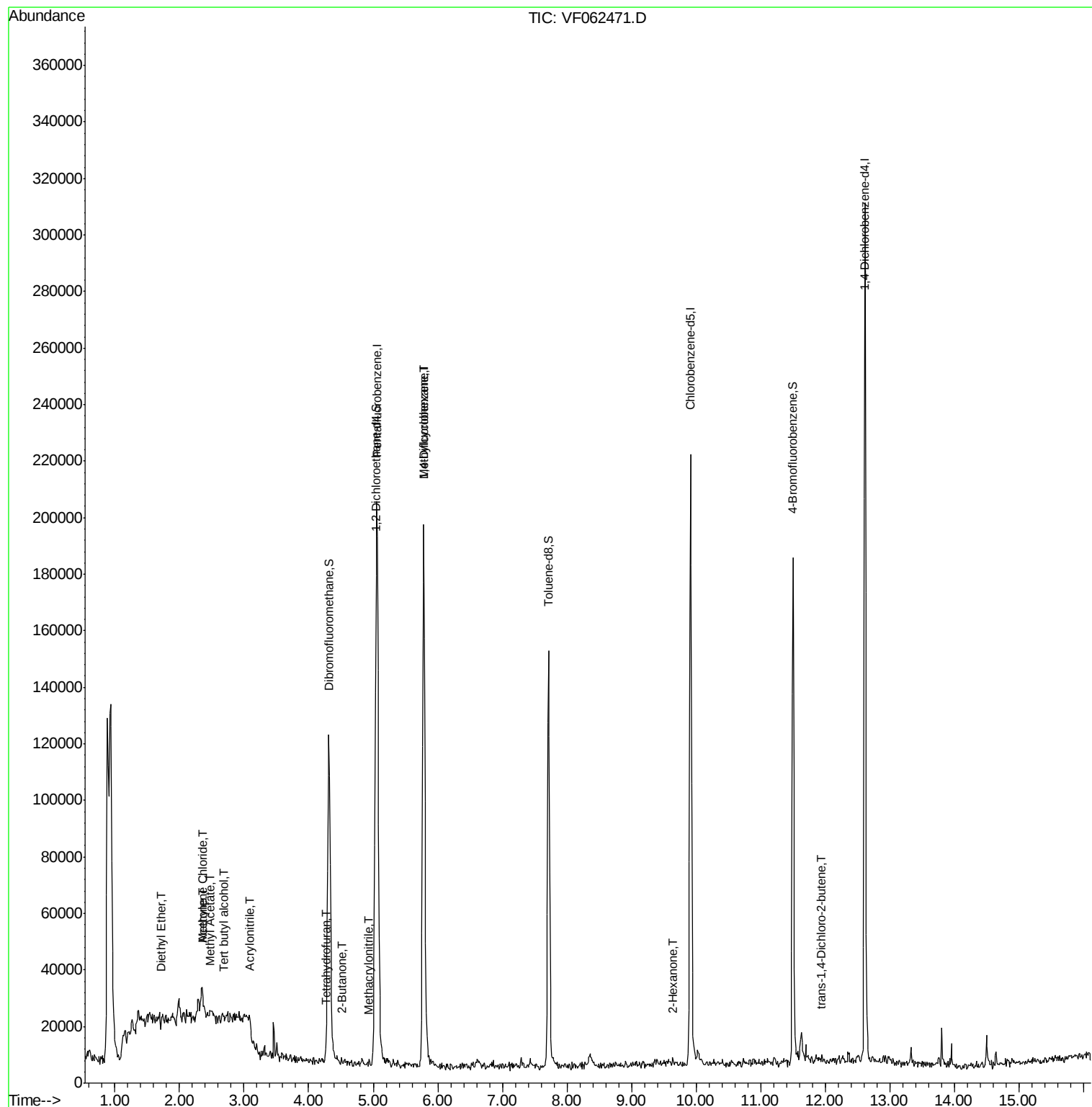
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.43	94	707	Below Cal	#	75
8) Diethyl Ether	1.72	74	810	2.294	ug/l	73
11) Tert butyl alcohol	2.69	59	711	9.012	ug/l #	75
13) Acrolein	2.14	56	632	Below Cal	#	76
15) Acrylonitrile	3.08	53	1055	7.059	ug/l #	46
16) Acetone	2.34	43	11398	40.363	ug/l	95
18) Methyl Acetate	2.47	43	3269	3.431	ug/l #	87
20) Methylene Chloride	2.34	84	3674	3.596	ug/l #	87
25) 2-Butanone	4.51	43	1031	2.906	ug/l #	60
29) Tetrahydrofuran	4.26	42	843	5.170	ug/l #	36
37) Ethyl Acetate	4.29	43	734	Below Cal	#	73
38) Carbon Tetrachloride	4.22	117	76	Below Cal	#	14
39) Methylcyclohexane	5.77	83	4201	2.293	ug/l #	41
41) Methacrylonitrile	4.94	41	438	1.000	ug/l #	1
49) 1,4-Dioxane	6.88	88	61	Below Cal	#	1
59) 2-Hexanone	9.64	43	1160	2.664	ug/l	93
81) trans-1,4-Dichloro-2-buten	11.94	75	221	1.044	ug/l #	81

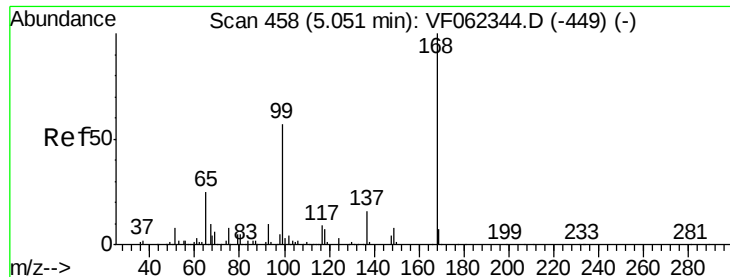
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.01 min

Lab File: VF062471.D

Acq: 11 May 2019 20:23

Instrument :

MSVOA_F

ClientSampleId :

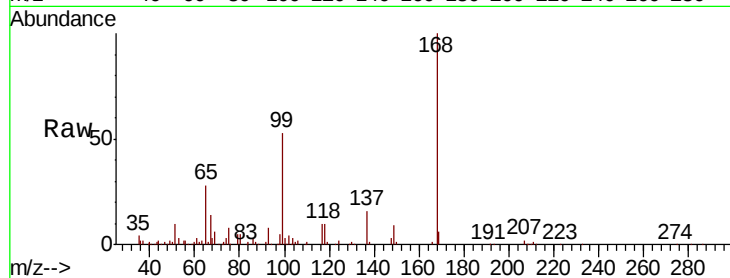
P026-SS014-1218-01

Tot Ion:168 Resp: 147710

Ion Ratio Lower Upper

168 100

99 53.1 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

5.06

60000

50000

40000

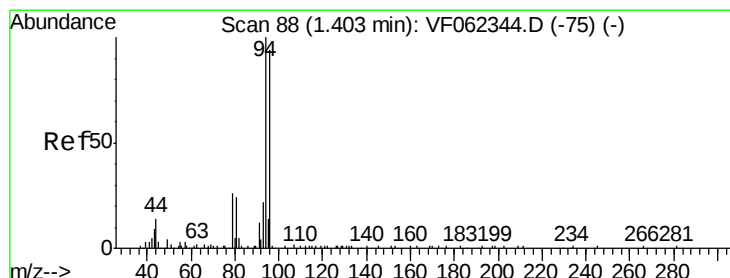
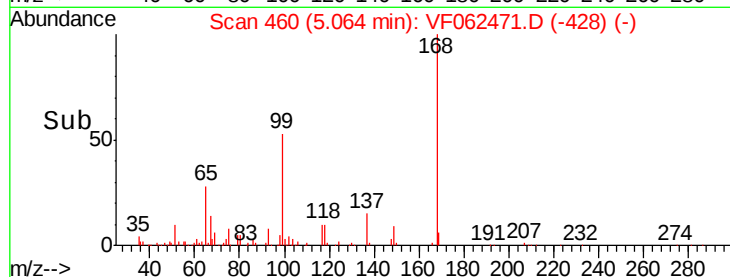
30000

20000

10000

0

Time--> 4.90 5.00 5.10 5.20



#5

Bromomethane

Concen: Below Cal

RT: 1.43 min Scan# 91

Delta R.T. 0.02 min

Lab File: VF062471.D

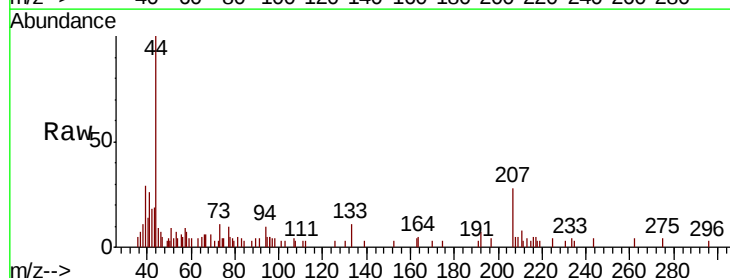
Acq: 11 May 2019 20:23

Tgt Ion: 94 Resp: 707

Ion Ratio Lower Upper

94 100

96 118.2 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

500

400

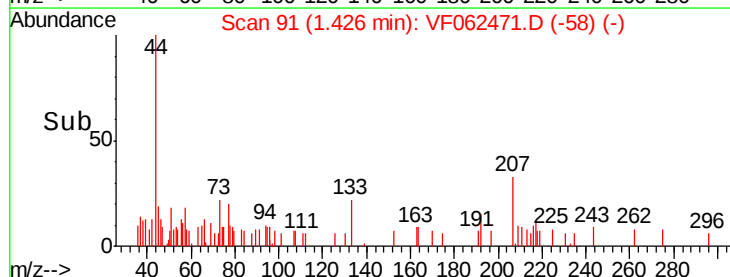
300

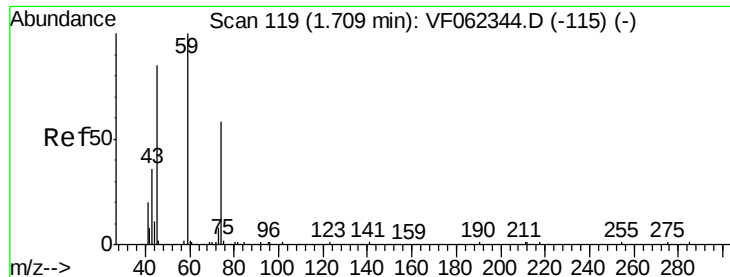
200

100

0

Time--> 1.35 1.40 1.45





#8

Diethyl Ether

Concen: 2.294 ug/l

RT: 1.72 min Scan# 121

Delta R.T. 0.01 min

Lab File: VF062471.D

Acq: 11 May 2019 20:23

Instrument :

MSVOA_F

ClientSampleId :

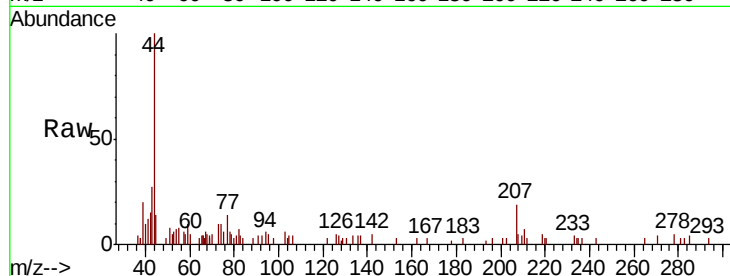
P026-SS014-1218-01

Tot Ion: 74 Resp: 810

Ion Ratio Lower Upper

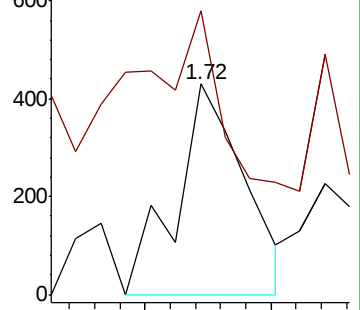
74 100

45 114.3 73.9 221.6

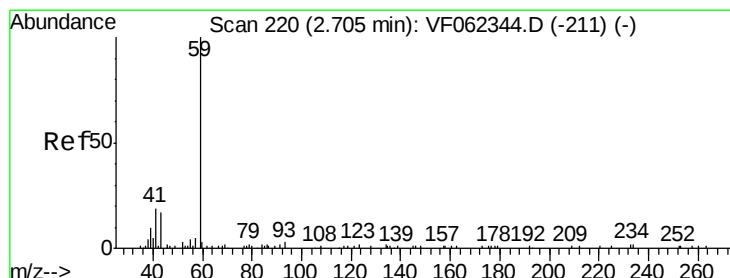
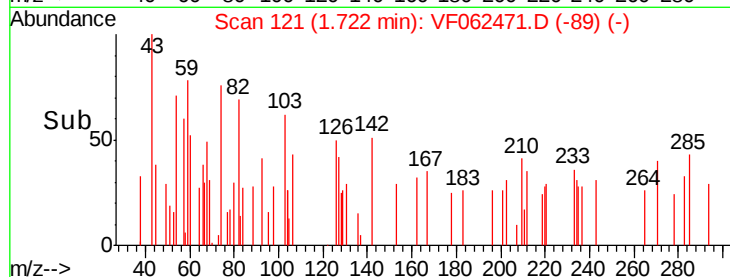


Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



Time-->



#11

Tert butyl alcohol

Concen: 9.012 ug/l

RT: 2.69 min Scan# 219

Delta R.T. -0.02 min

Lab File: VF062471.D

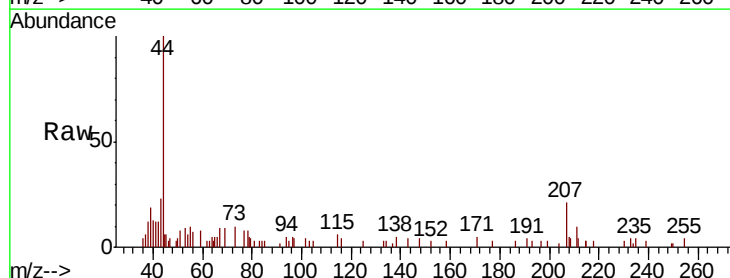
Acq: 11 May 2019 20:23

Tgt Ion: 59 Resp: 711

Ion Ratio Lower Upper

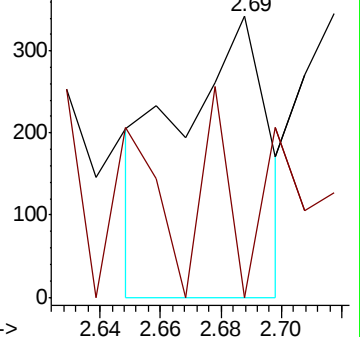
59 100

57 21.2 9.3 13.9#

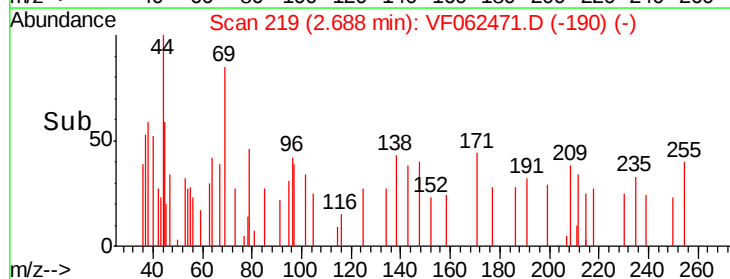


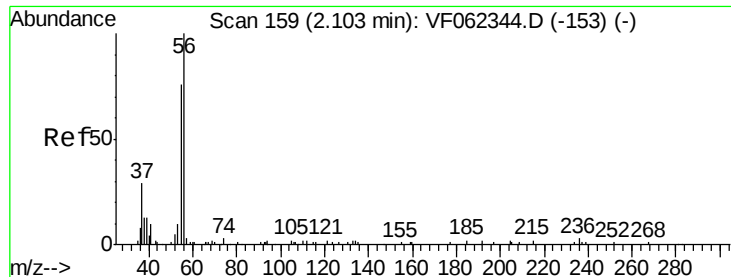
Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0



Time-->





#13

Acrolein

Concen: Below Cal

RT: 2.14 min Scan# 163

Delta R.T. 0.03 min

Lab File: VF062471.D

Acq: 11 May 2019 20:23

Instrument :

MSVOA_F

ClientSampleId :

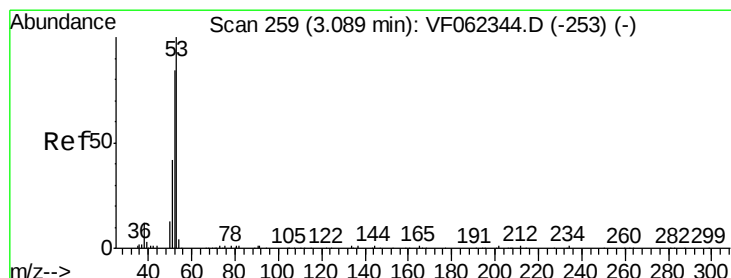
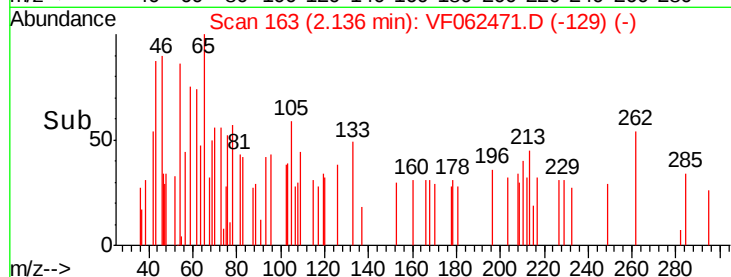
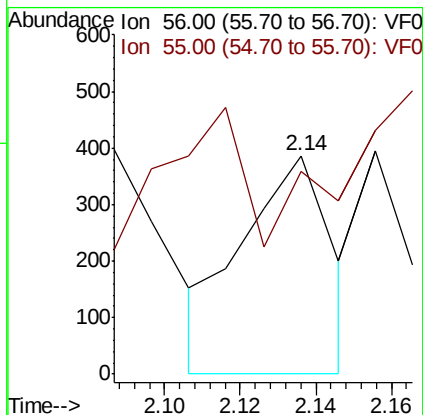
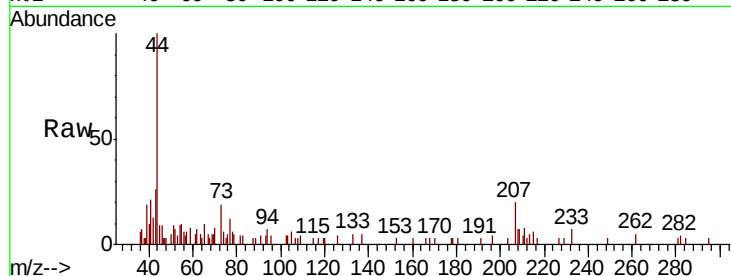
P026-SS014-1218-01

Tot Ion: 56 Resp: 632

Ion Ratio Lower Upper

56 100

55 53.2 58.4 87.6#



#15

Acrylonitrile

Concen: 7.059 ug/l

RT: 3.08 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF062471.D

Acq: 11 May 2019 20:23

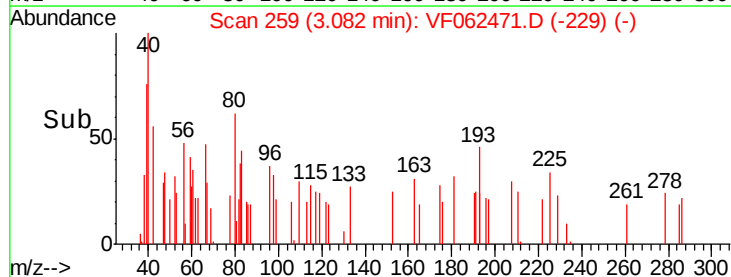
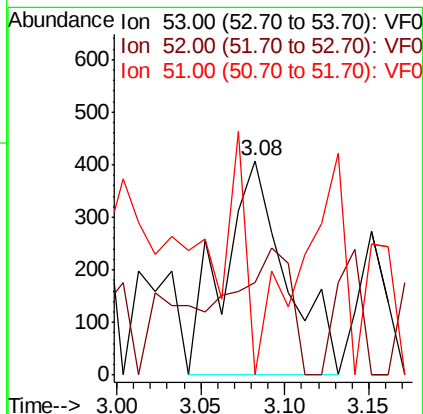
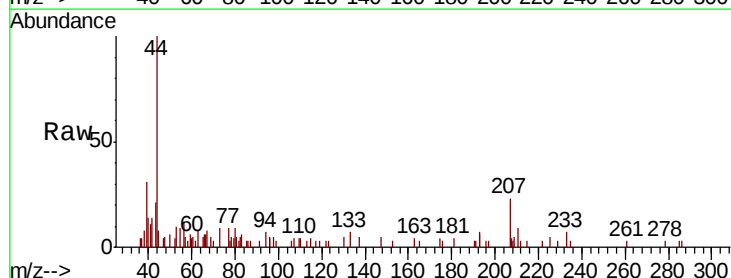
Tgt Ion: 53 Resp: 1055

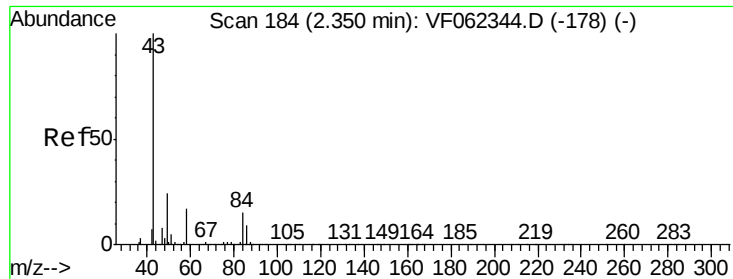
Ion Ratio Lower Upper

53 100

52 52.8 77.2 115.8#

51 0.0 40.6 61.0#





#16

Acetone

Concen: 40.363 ug/l

RT: 2.34 min Scan# 184

Delta R.T. -0.01 min

Lab File: VF062471.D

Acq: 11 May 2019 20:23

Instrument :

MSVOA_F

ClientSampleId :

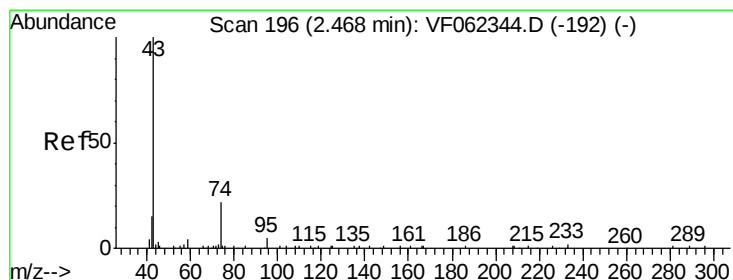
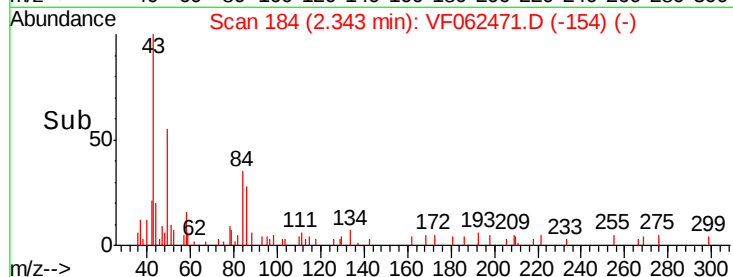
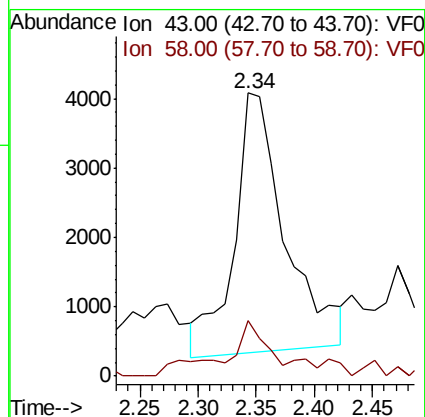
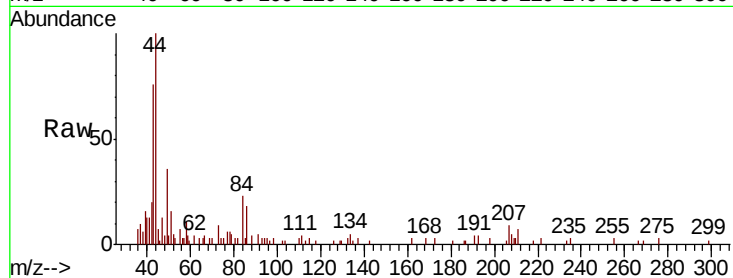
P026-SS014-1218-01

Tot Ion: 43 Resp: 11398

Ion Ratio Lower Upper

43 100

58 18.7 13.1 19.7



#18

Methyl Acetate

Concen: 3.431 ug/l

RT: 2.47 min Scan# 197

Delta R.T. 0.00 min

Lab File: VF062471.D

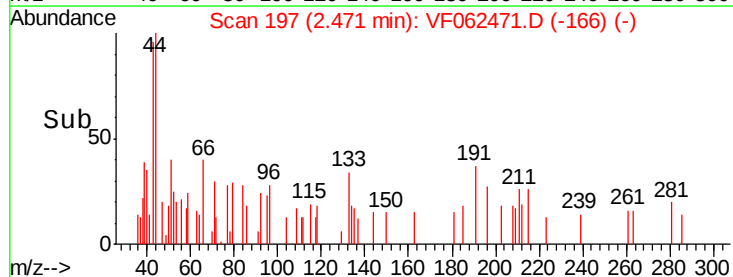
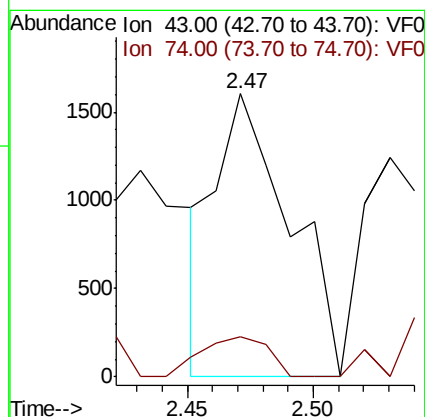
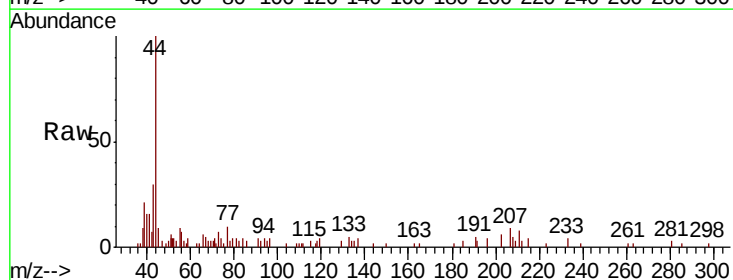
Acq: 11 May 2019 20:23

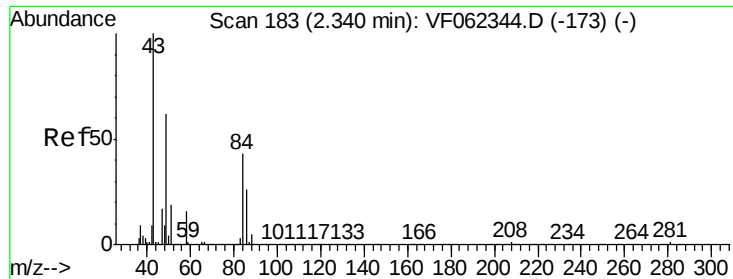
Tgt Ion: 43 Resp: 3269

Ion Ratio Lower Upper

43 100

74 12.8 15.0 22.4#

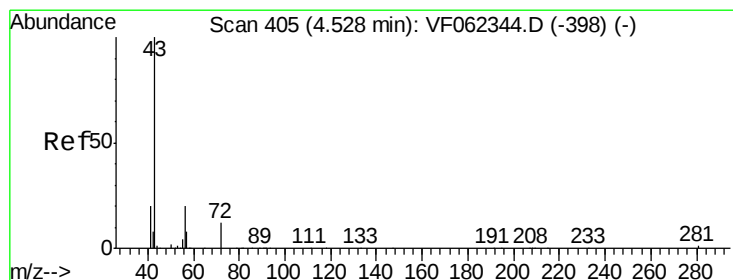
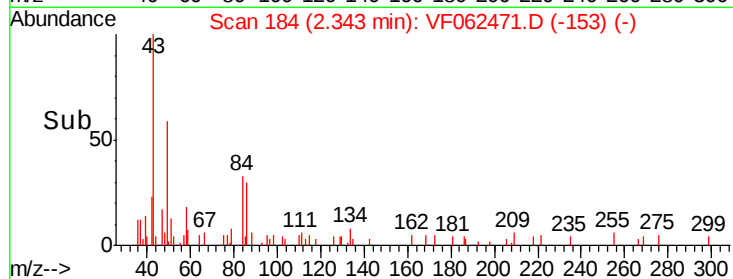
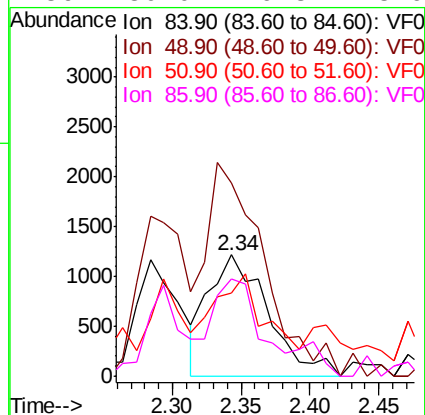
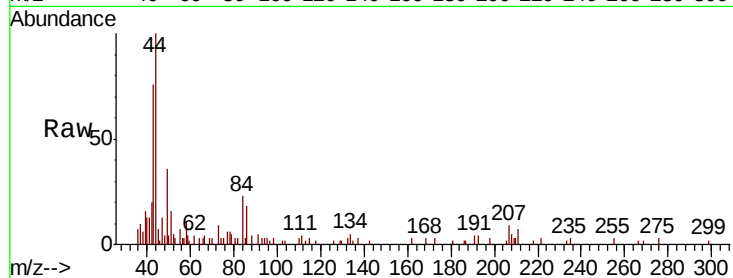




#20
Methylene Chloride
Concen: 3.596 ug/l
RT: 2.34 min Scan# 184
Delta R.T. 0.00 min
Lab File: VF062471.D
Acq: 11 May 2019 20:23

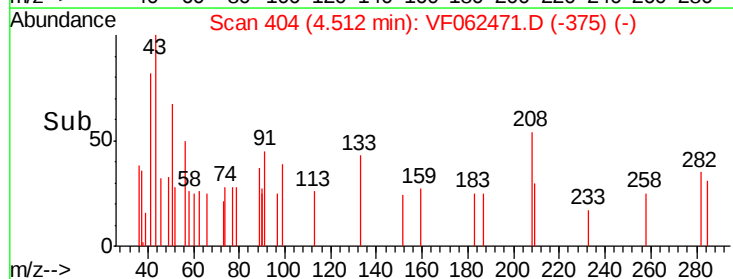
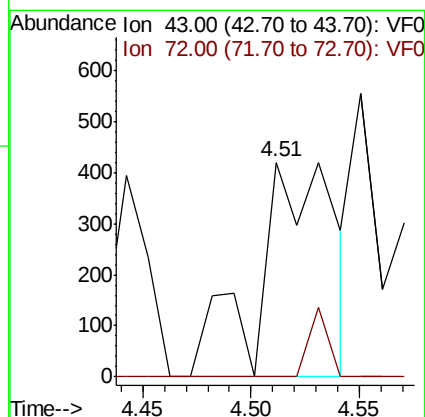
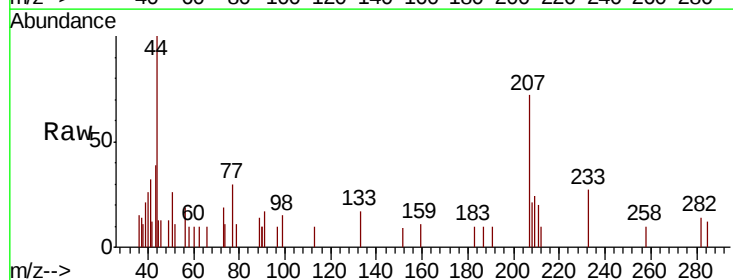
Instrument :
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ClientSampleId :
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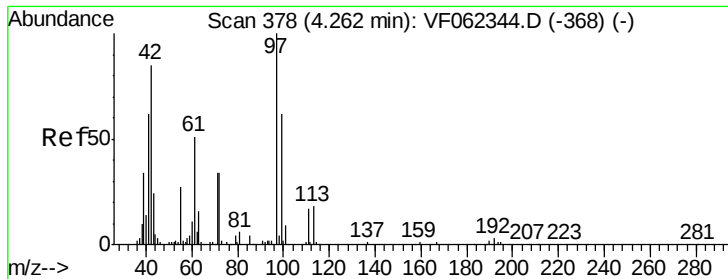
Tot Ion: 84 Resp: 3674
Ion Ratio Lower Upper
84 100
49 159.0 117.5 176.3
51 41.1 37.0 55.4
86 80.0 49.3 73.9#



#25
2-Butanone
Concen: 2.906 ug/l
RT: 4.51 min Scan# 404
Delta R.T. -0.02 min
Lab File: VF062471.D
Acq: 11 May 2019 20:23

Tgt Ion: 43 Resp: 1031
Ion Ratio Lower Upper
43 100
72 0.0 14.2 21.4#





#29

Tetrahydrofuran

Concen: 5.170 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.01 min

Lab File: VF062471.D

Acq: 11 May 2019 20:23

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-1218-01

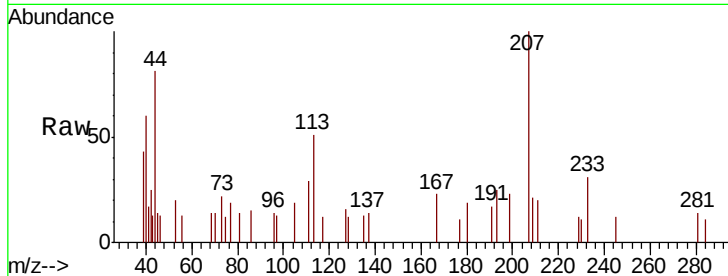
Tot Ion: 42 Resp: 843

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

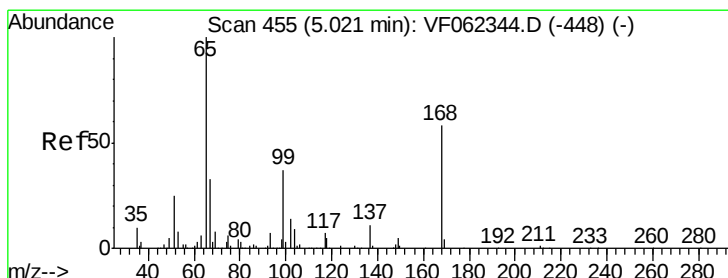
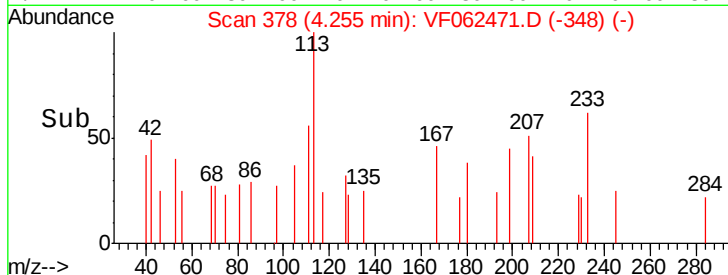
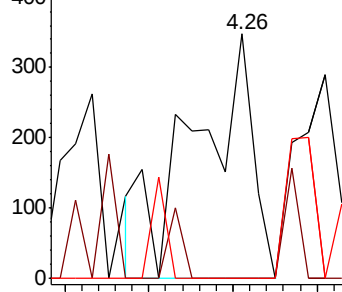
71 0.0 31.7 47.5#



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: 71.629 ug/l

RT: 5.03 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF062471.D

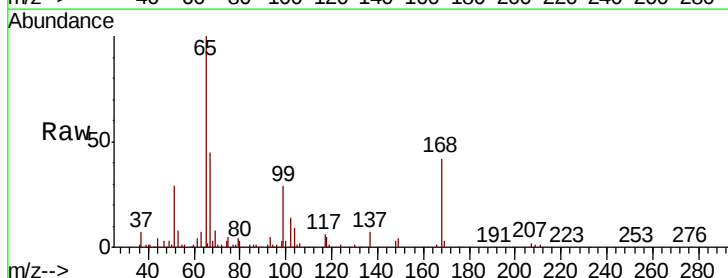
Acq: 11 May 2019 20:23

Tgt Ion: 65 Resp: 99988

Ion Ratio Lower Upper

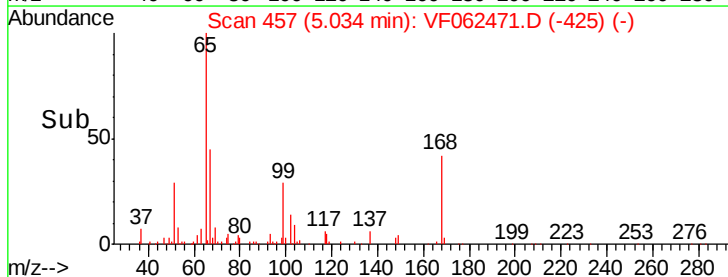
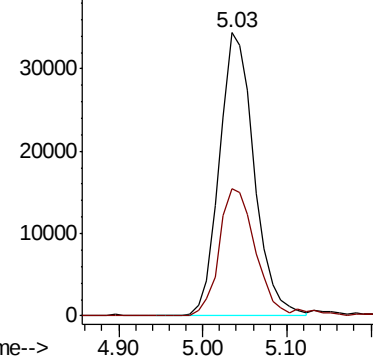
65 100

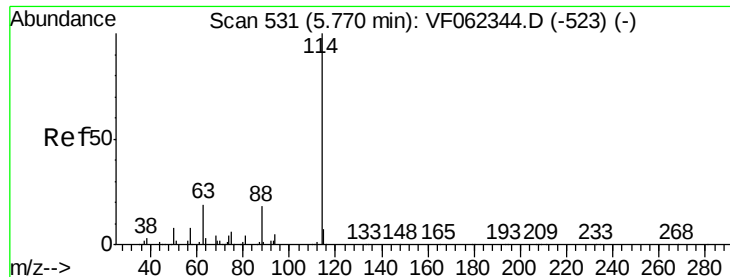
67 46.1 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 533

Delta R.T. 0.01 min

Lab File: VF062471.D

Acq: 11 May 2019 20:23

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-1218-01

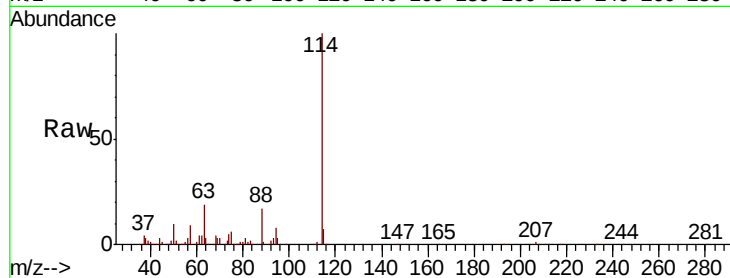
Tot Ion:114 Resp: 212614

Ion Ratio Lower Upper

114 100

63 19.2 0.0 37.4

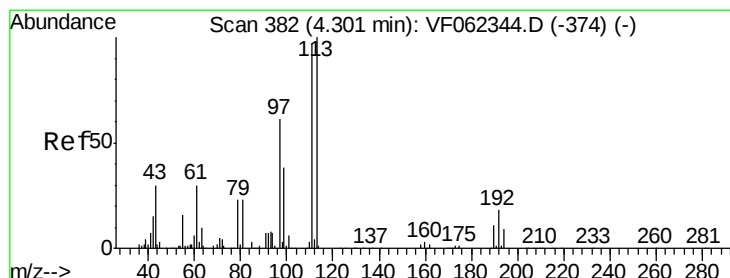
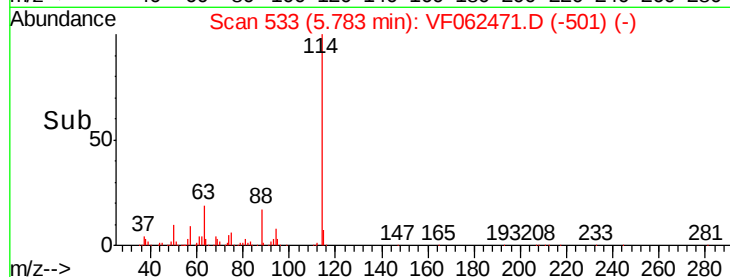
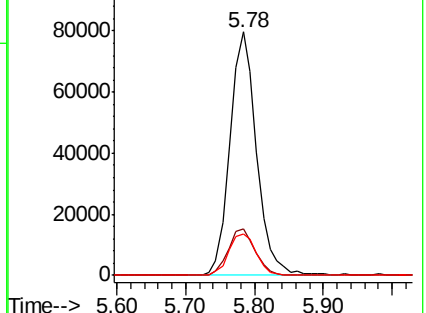
88 17.0 0.0 36.4



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: 60.224 ug/l

RT: 4.31 min Scan# 384

Delta R.T. 0.01 min

Lab File: VF062471.D

Acq: 11 May 2019 20:23

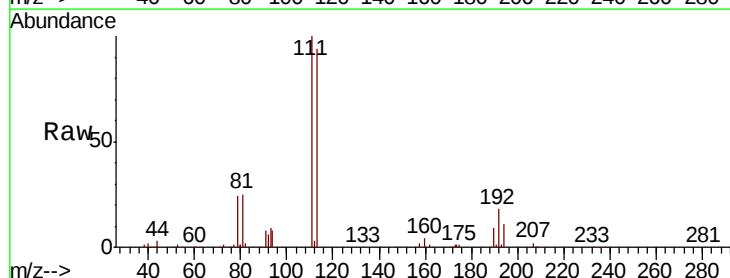
Tgt Ion:113 Resp: 102011

Ion Ratio Lower Upper

113 100

111 102.1 79.4 119.0

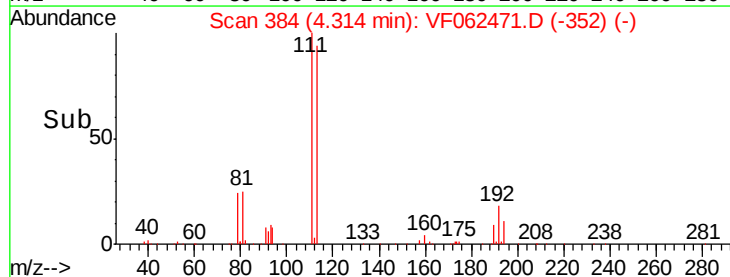
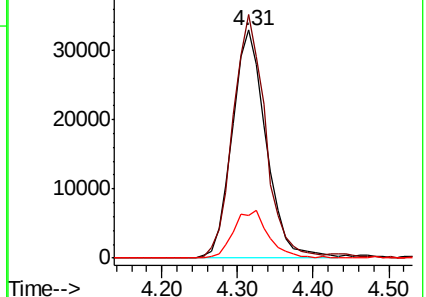
192 21.9 16.0 24.0

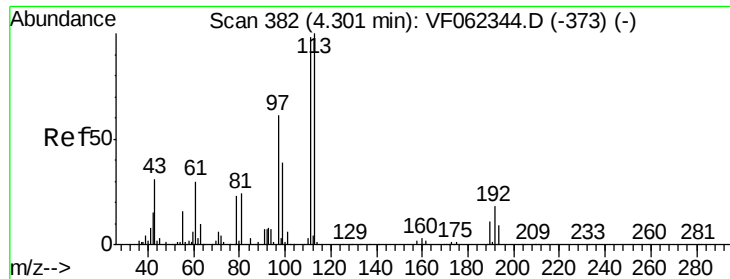


Abundance Ion 112.80 (112.50 to 113.50): V

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: 4.29 min Scan# 382

Delta R.T. -0.01 min

Lab File: VF062471.D

Acq: 11 May 2019 20:23

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-1218-01

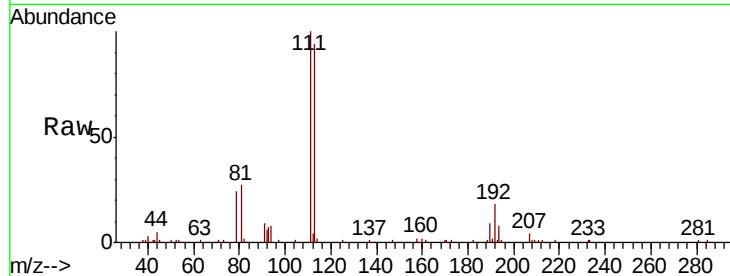
Tot Ion: 43 Resp: 734

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

4.29

300

200

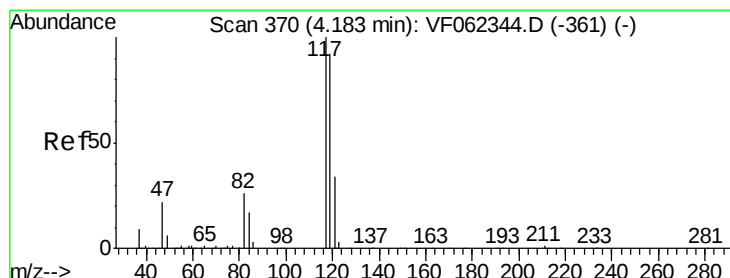
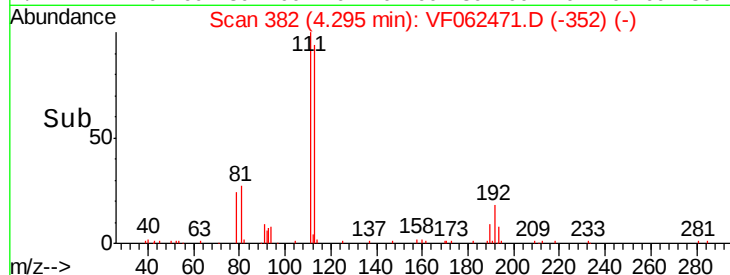
100

0

4.25

4.30

Time-->



#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.22 min Scan# 374

Delta R.T. 0.03 min

Lab File: VF062471.D

Acq: 11 May 2019 20:23

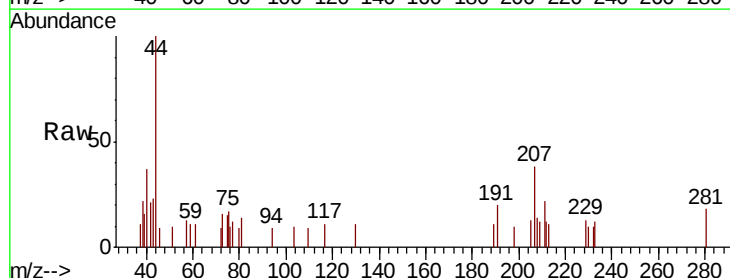
Tgt Ion: 117 Resp: 76

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

250

200

150

100

50

0

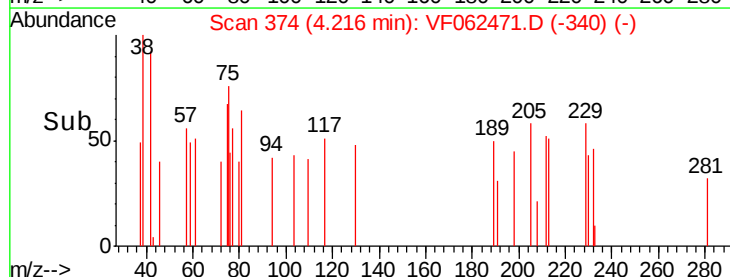
4.18

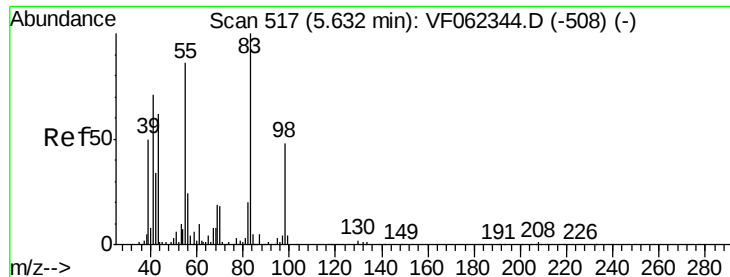
4.20

4.22

4.24

Time-->





#39

Methylcyclohexane

Concen: 2.293 ug/l

RT: 5.77 min Scan# 532

Delta R.T. 0.14 min

Lab File: VF062471.D

Acq: 11 May 2019 20:23

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-1218-01

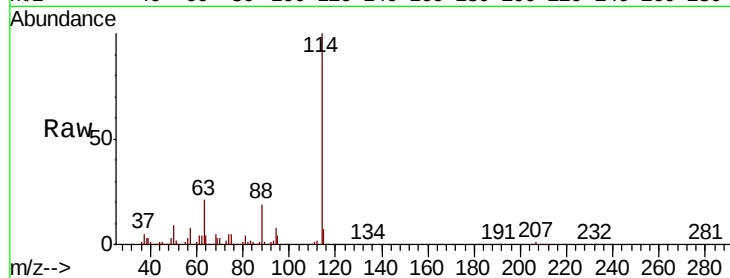
Tot Ion: 83 Resp: 4201

Ion Ratio Lower Upper

83 100

55 38.6 69.0 103.6#

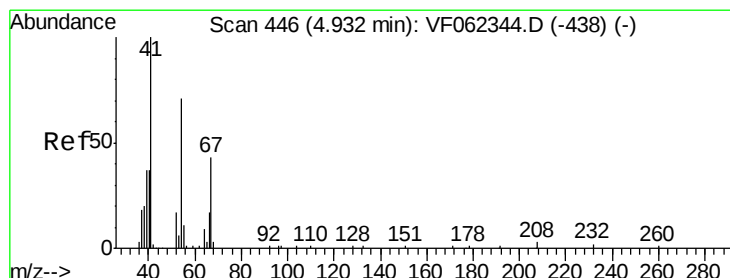
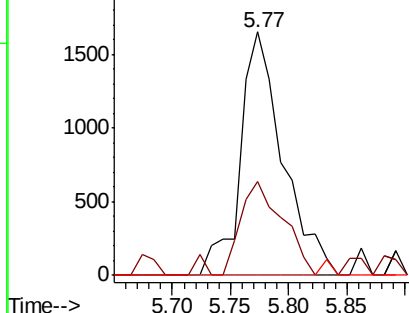
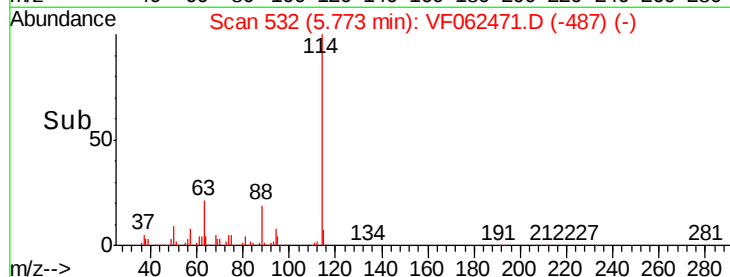
98 0.0 38.6 58.0#



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: 1.000 ug/l

RT: 4.94 min Scan# 447

Delta R.T. 0.00 min

Lab File: VF062471.D

Acq: 11 May 2019 20:23

Tgt Ion: 41 Resp: 438

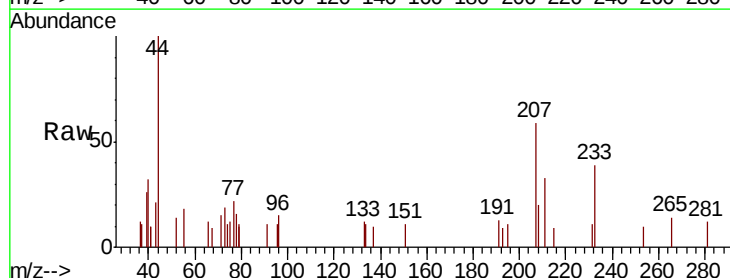
Ion Ratio Lower Upper

41 100

39 197.5 54.3 81.5#

67 0.0 37.8 56.8#

52 0.0 58.2 87.4#

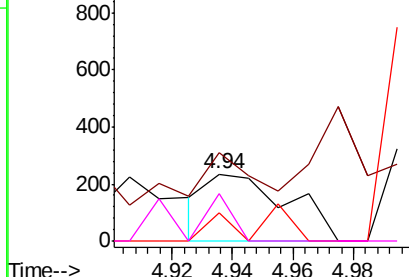
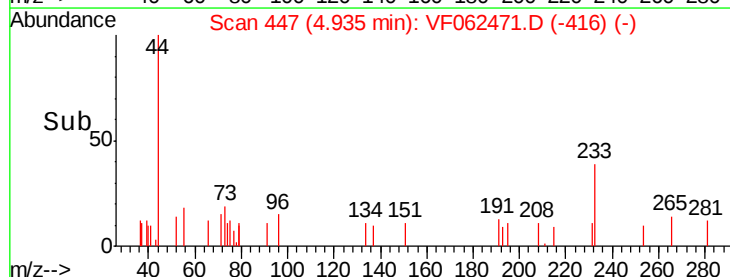


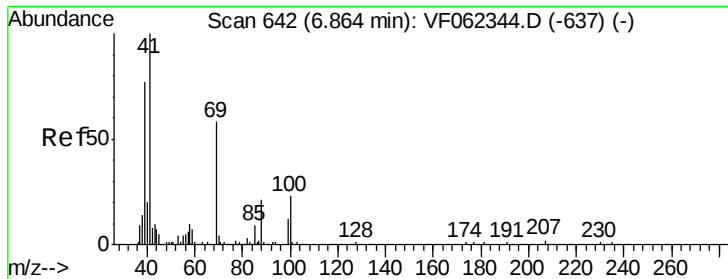
Abundance Ion 41.00 (40.70 to 41.70): VF0

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

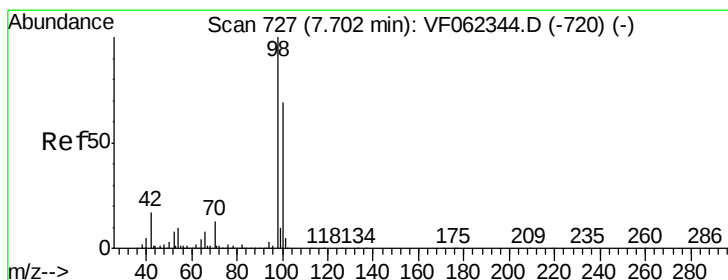
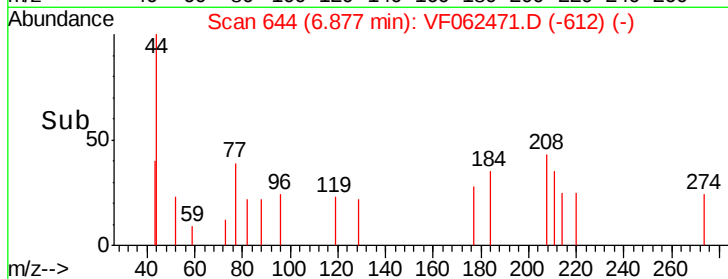
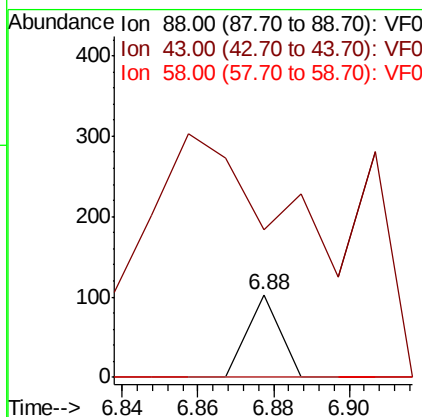
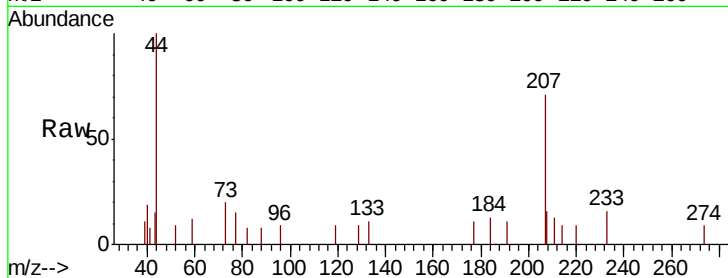




#49
1,4-Dioxane
Concen: Below Cal
RT: 6.88 min Scan# 644
Delta R.T. 0.01 min
Lab File: VF062471.D
Acq: 11 May 2019 20:23

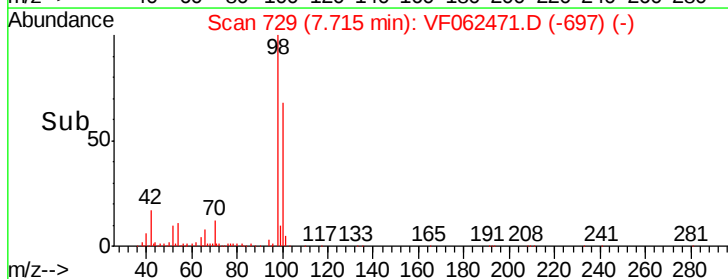
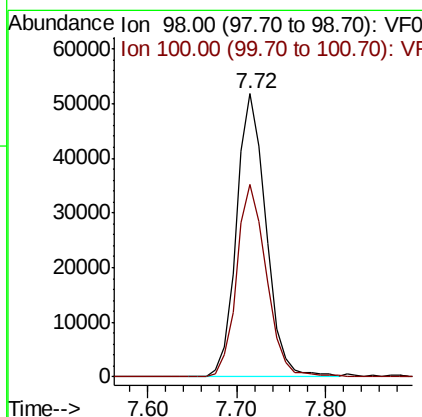
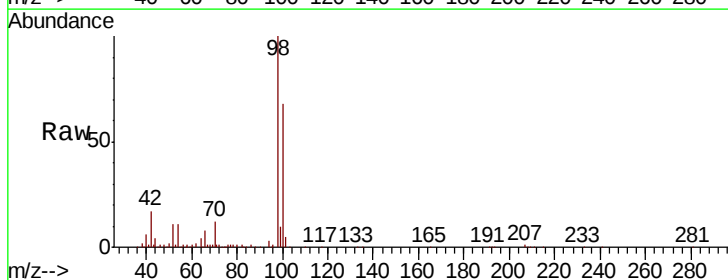
Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-1218-01

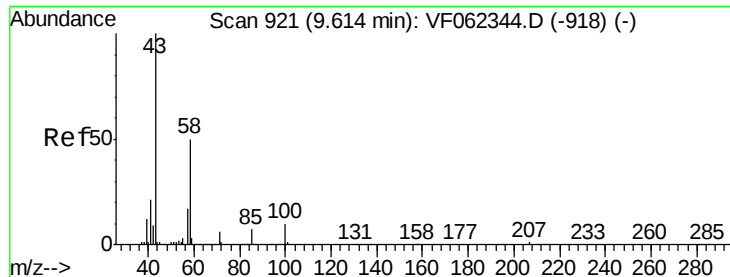
Tot Ion: 88 Resp: 61
Ion Ratio Lower Upper
88 100
43 1544.3 55.6 83.4#
58 0.0 52.8 79.2#



#50
Toluene-d8
Concen: 29.070 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.01 min
Lab File: VF062471.D
Acq: 11 May 2019 20:23

Tgt Ion: 98 Resp: 119194
Ion Ratio Lower Upper
98 100
100 69.0 53.3 79.9

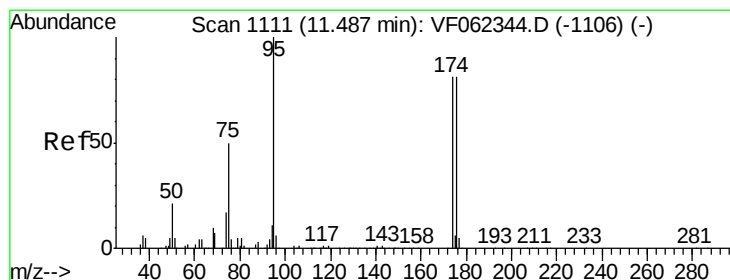
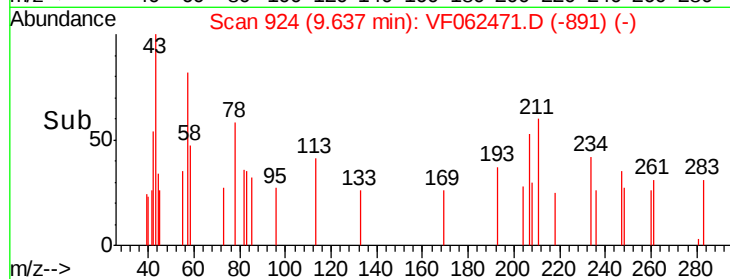
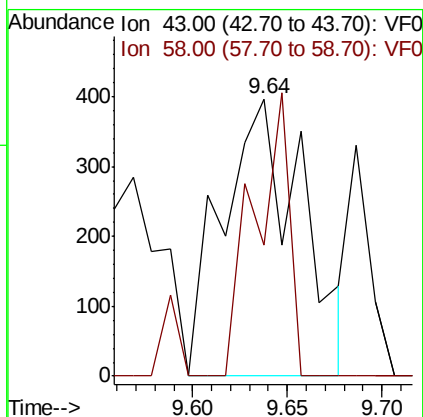
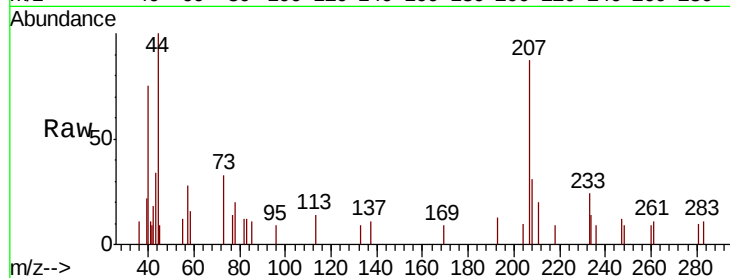




#59
2-Hexanone
Concen: 2.664 ug/l
RT: 9.64 min Scan# 924
Delta R.T. 0.02 min
Lab File: VF062471.D
Acq: 11 May 2019 20:23

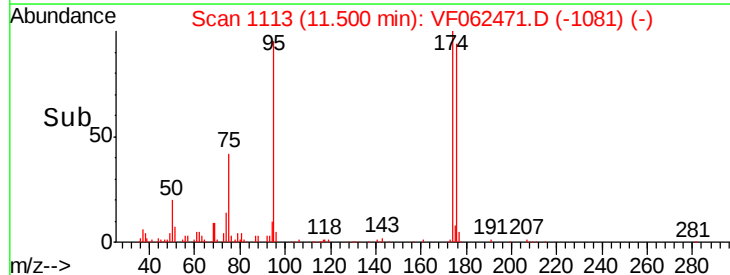
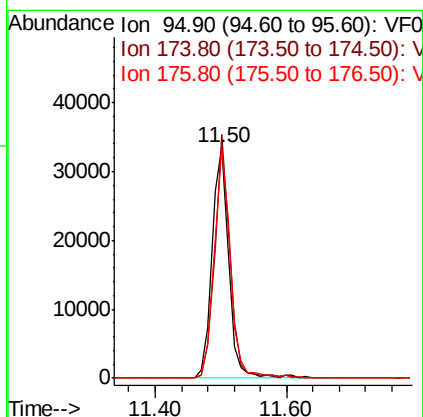
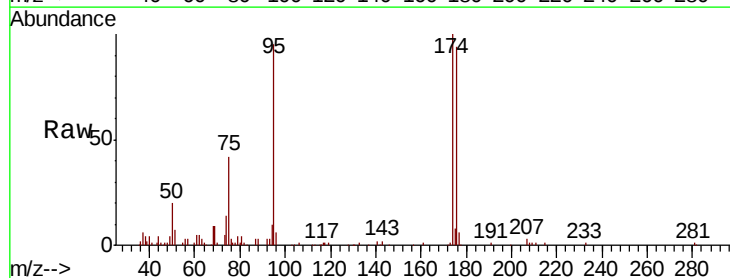
Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-1218-01

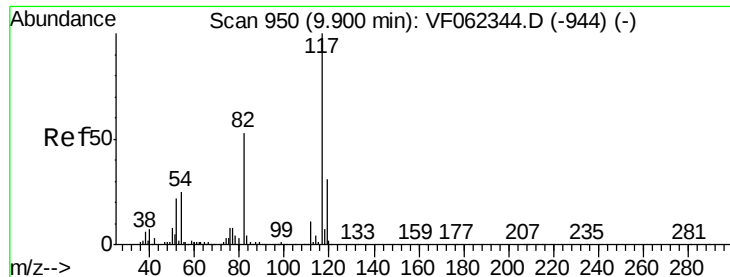
Tot Ion: 43 Resp: 1160
Ion Ratio Lower Upper
43 100
58 44.2 24.3 73.0



#62
4-Bromofluorobenzene
Concen: 31.352 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VF062471.D
Acq: 11 May 2019 20:23

Tgt Ion: 95 Resp: 57997
Ion Ratio Lower Upper
95 100
174 96.2 0.0 191.8
176 98.0 0.0 193.2

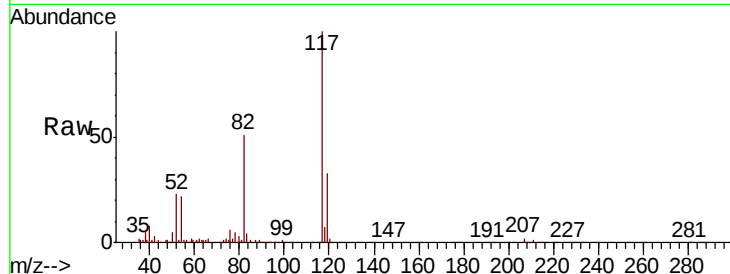




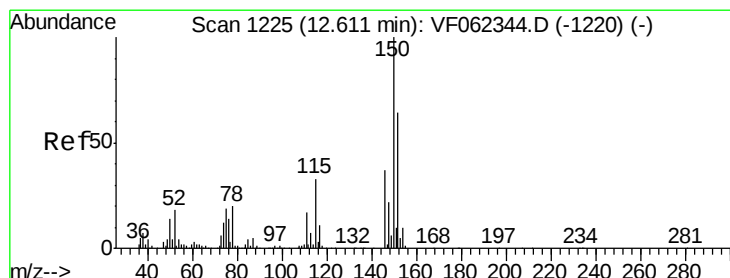
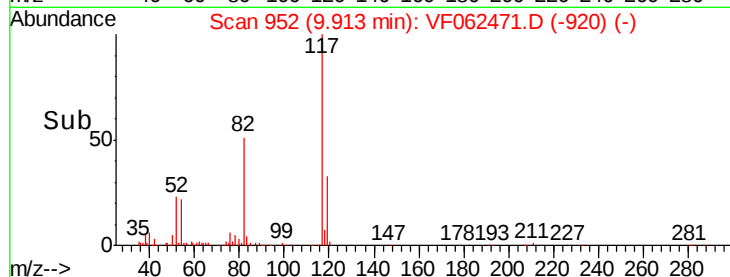
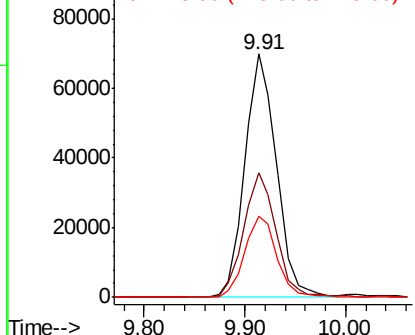
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.01 min
Lab File: VF062471.D
Acq: 11 May 2019 20:23

Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-1218-01

Tot Ion:117 Resp: 152516
Ion Ratio Lower Upper
117 100
82 51.1 42.2 63.2
119 33.2 25.0 37.4

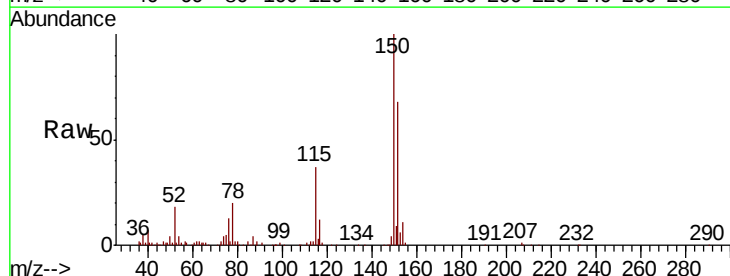


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 118.90 (118.60 to 119.60): V

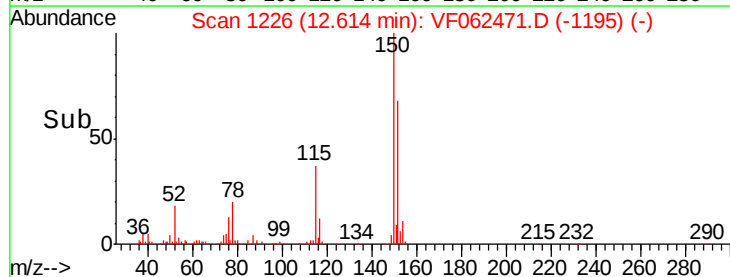
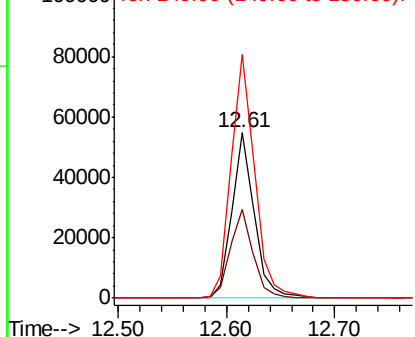


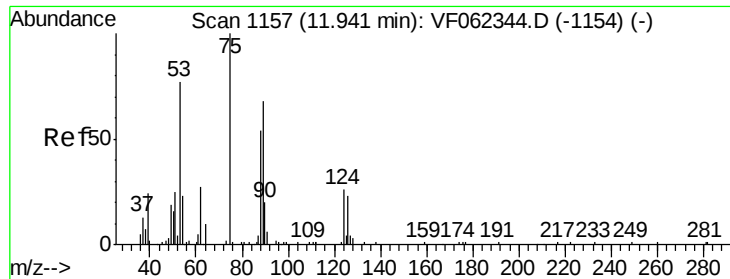
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. 0.00 min
Lab File: VF062471.D
Acq: 11 May 2019 20:23

Tgt Ion:152 Resp: 79516
Ion Ratio Lower Upper
152 100
115 54.9 26.4 79.2
150 155.2 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





#81

trans-1,4-Dichloro-2-butene

Concen: 1.044 ug/l

RT: 11.94 min Scan# 1158

Delta R.T. 0.00 min

Lab File: VF062471.D

Acq: 11 May 2019 20:23

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-1218-01

Tot Ion: 75 Resp: 221

Ion Ratio Lower Upper

75 100

53 71.9 71.9 107.9

89 29.0 0.0 0.0#

