

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062466.D
 Acq On : 11 May 2019 18:04
 Operator : FY/SY
 Sample : K2734-14
 Misc : 5.35g/5mL/MSVOA F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS013-1218-01

Quant Time: May 12 03:48:25 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	180179	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.78	114	251505	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	187183	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	99510	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	114434	67.20	ug/l	0.02
Spiked Amount 50.000			Recovery	=	134.40%	
35) Dibromofluoromethane	4.31	113	117507	58.65	ug/l	0.00
Spiked Amount 50.000			Recovery	=	117.30%	
50) Toluene-d8	7.72	98	155335	32.03	ug/l	0.02
Spiked Amount 50.000			Recovery	=	64.06%	
62) 4-Bromofluorobenzene	11.49	95	69696	31.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	63.70%	

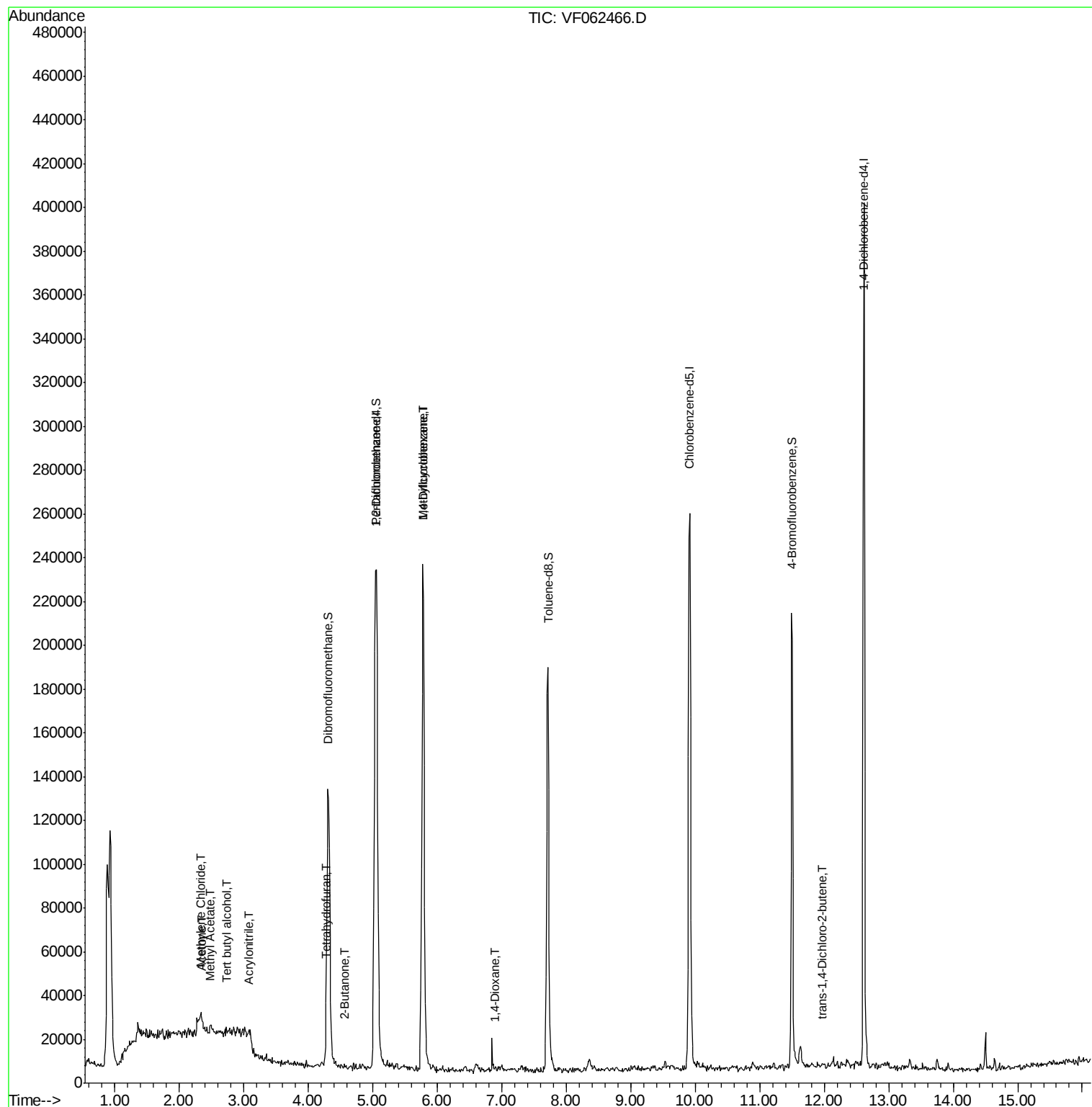
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.39	94	739	Below Cal	#	3
11) Tert butyl alcohol	2.72	59	394	4.094	ug/l #	1
13) Acrolein	2.09	56	717	Below Cal	#	1
15) Acrylonitrile	3.08	53	494	2.710	ug/l #	50
16) Acetone	2.36	43	5151	14.954	ug/l #	87
18) Methyl Acetate	2.47	43	6500	7.698	ug/l #	67
20) Methylene Chloride	2.34	84	6755	5.420	ug/l #	79
25) 2-Butanone	4.56	43	1231	2.845	ug/l #	60
29) Tetrahydrofuran	4.27	42	520	2.615	ug/l #	50
37) Ethyl Acetate	4.32	43	809	Below Cal	#	73
38) Carbon Tetrachloride	4.17	117	66	Below Cal	#	14
39) Methylcyclohexane	5.78	83	3934	1.816	ug/l #	41
49) 1,4-Dioxane	6.89	88	148	7.755	ug/l #	1
81) trans-1,4-Dichloro-2-buten	11.98	75	439	1.657	ug/l #	5

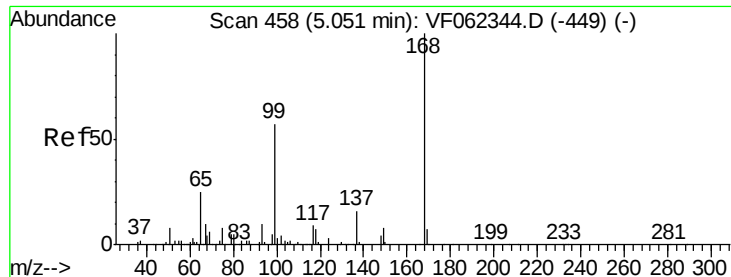
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.07 min Scan# 460

Delta R.T. 0.02 min

Lab File: VF062466.D

Acq: 11 May 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

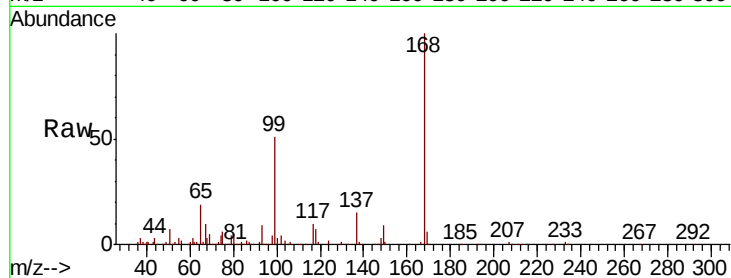
P026-SS013-1218-01

Tot Ion:168 Resp: 180179

Ion Ratio Lower Upper

168 100

99 51.2 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

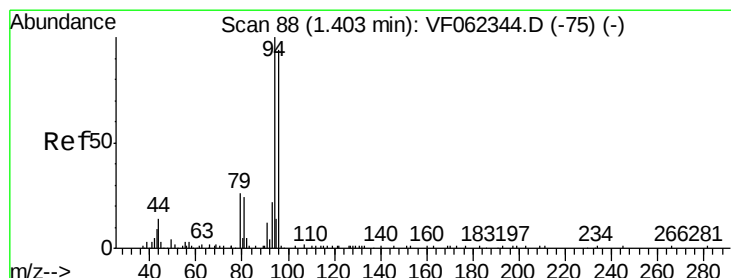
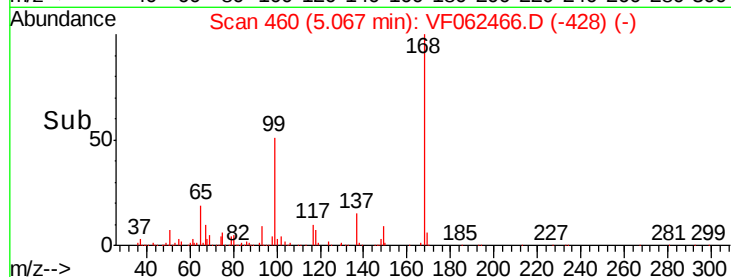
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#5

Bromomethane

Concen: Below Cal

RT: 1.39 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF062466.D

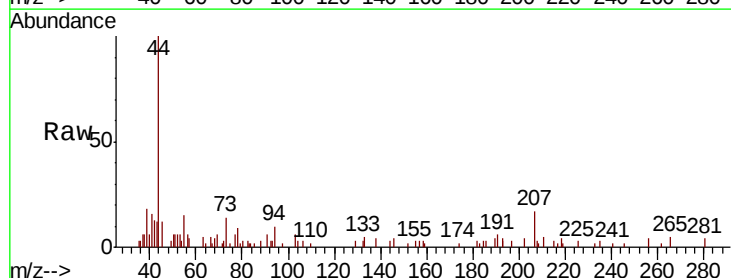
Acq: 11 May 2019 18:04

Tgt Ion: 94 Resp: 739

Ion Ratio Lower Upper

94 100

96 0.0 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

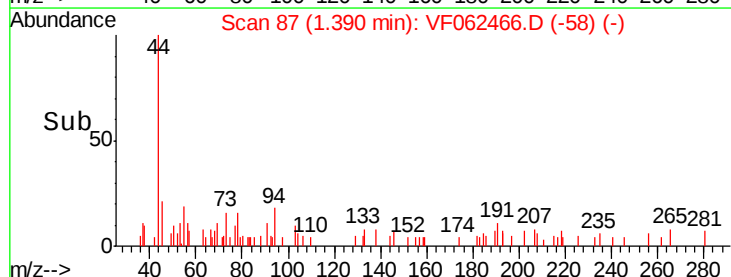
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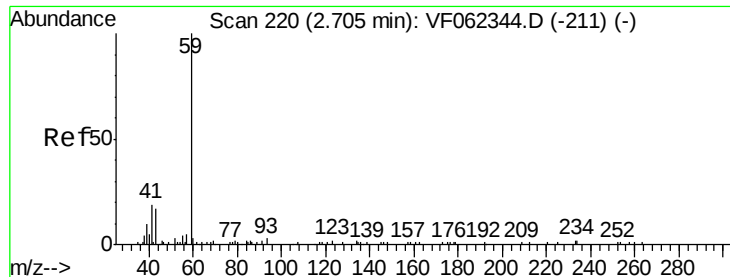
100

0

Time-->

1.35 1.40 1.45



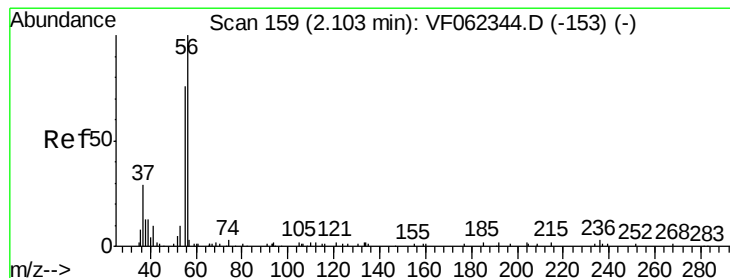
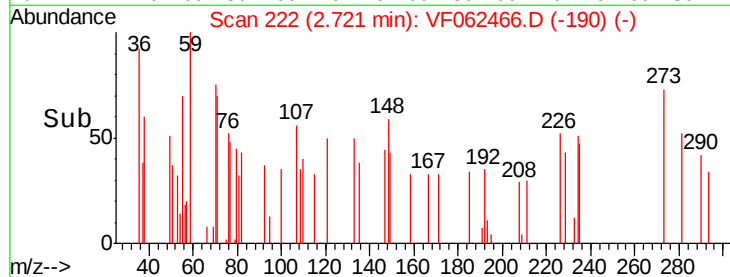
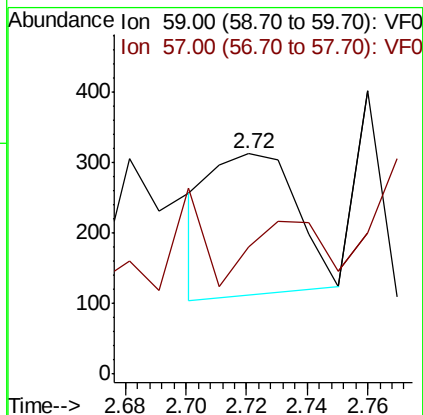
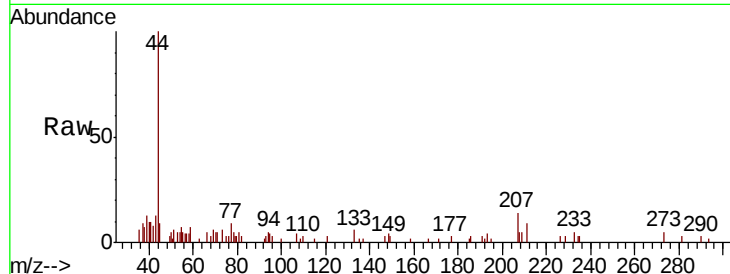


#11

Tert butyl alcohol
 Concen: 4.094 ug/l
 RT: 2.72 min Scan# 222
 Delta R.T. 0.02 min
 Lab File: VF062466.D
 Acq: 11 May 2019 18:04

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS013-1218-01

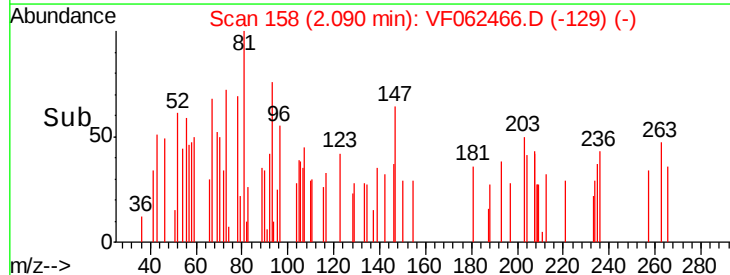
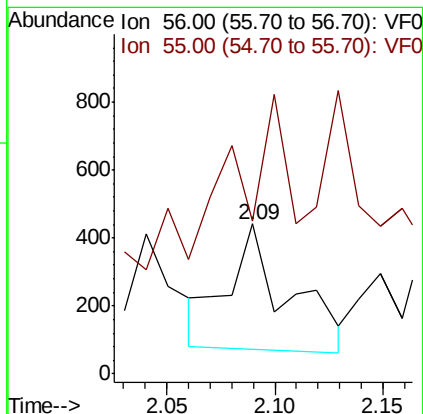
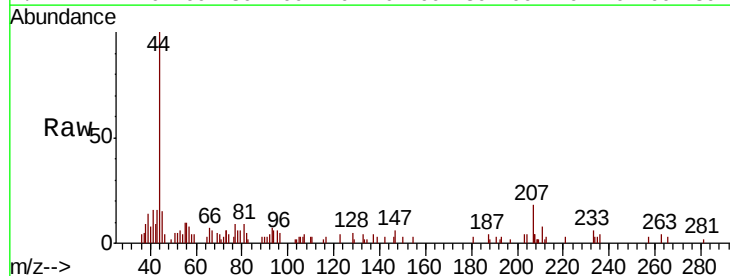
Tot Ion: 59 Resp: 394
 Ion Ratio Lower Upper
 59 100
 57 58.9 9.3 13.9#

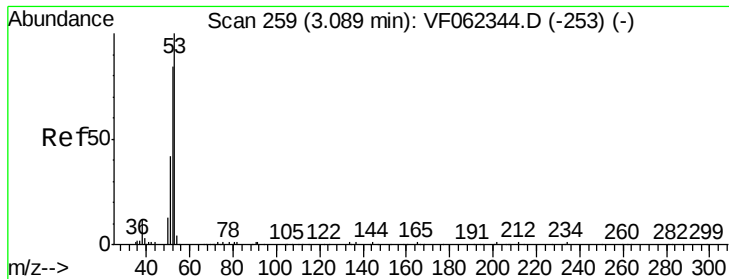


#13

Acrolein
 Concen: Below Cal
 RT: 2.09 min Scan# 158
 Delta R.T. -0.01 min
 Lab File: VF062466.D
 Acq: 11 May 2019 18:04

Tgt Ion: 56 Resp: 717
 Ion Ratio Lower Upper
 56 100
 55 173.6 58.4 87.6#





#15

Acrylonitrile

Concen: 2.710 ug/l

RT: 3.08 min Scan# 258

Delta R.T. -0.01 min

Lab File: VF062466.D

Acq: 11 May 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-1218-01

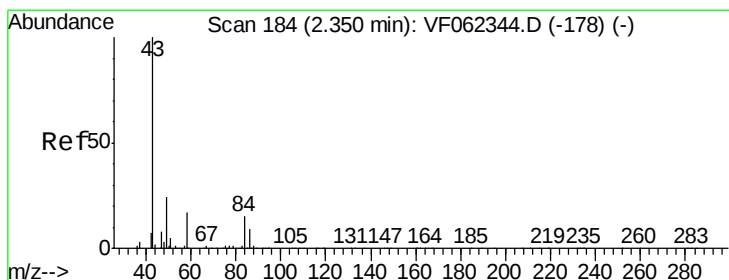
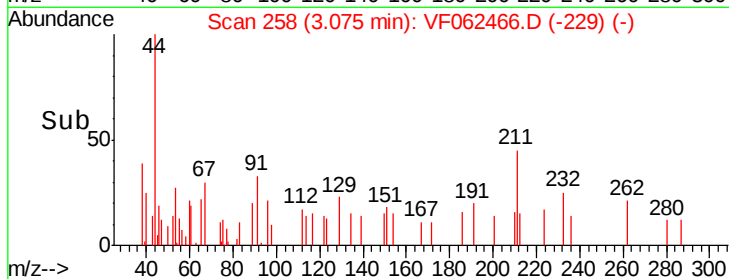
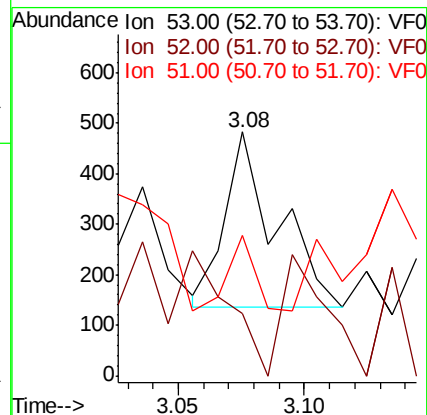
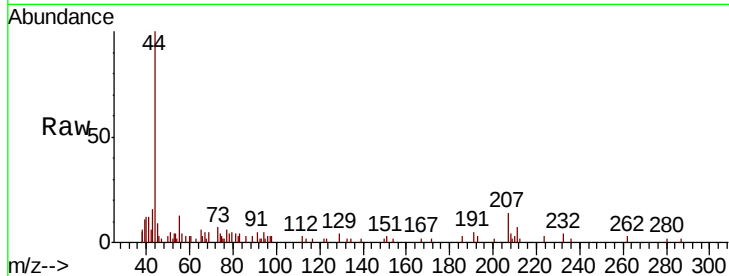
Tot Ion: 53 Resp: 494

Ion Ratio Lower Upper

53 100

52 59.3 77.2 115.8#

51 0.0 40.6 61.0#



#16

Acetone

Concen: 14.954 ug/l

RT: 2.36 min Scan# 185

Delta R.T. 0.01 min

Lab File: VF062466.D

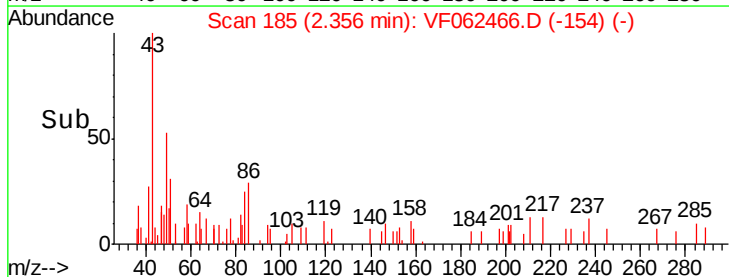
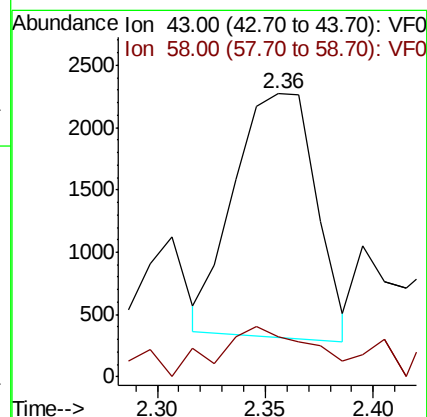
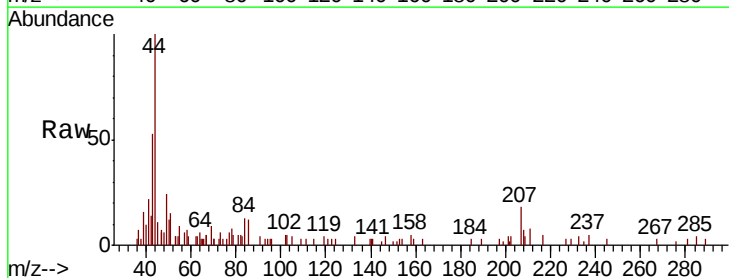
Acq: 11 May 2019 18:04

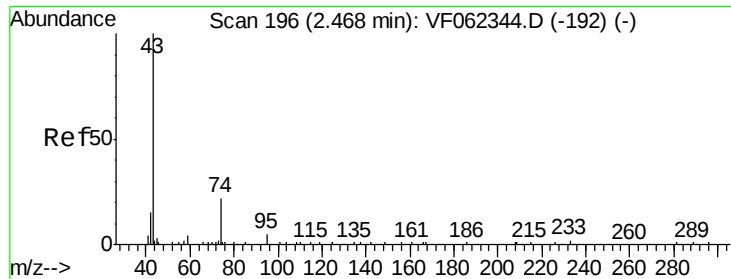
Tgt Ion: 43 Resp: 5151

Ion Ratio Lower Upper

43 100

58 10.9 13.1 19.7#

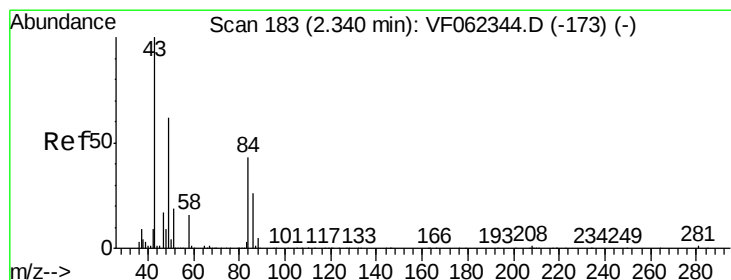
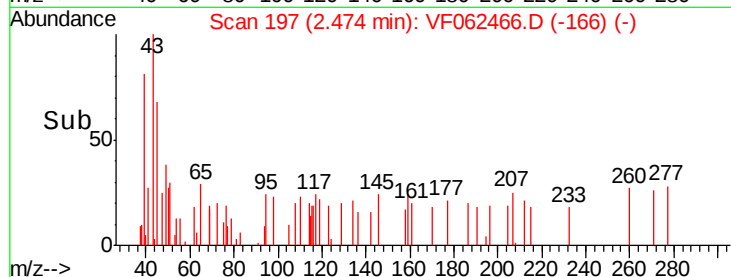
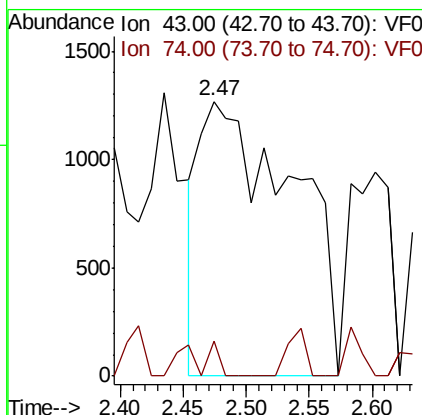
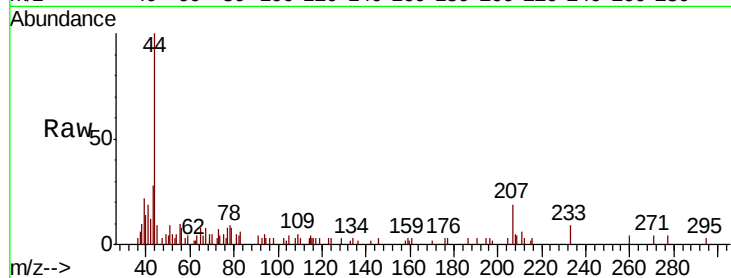




#18
Methyl Acetate
Concen: 7.698 ug/l
RT: 2.47 min Scan# 197
Delta R.T. 0.01 min
Lab File: VF062466.D
Acq: 11 May 2019 18:04

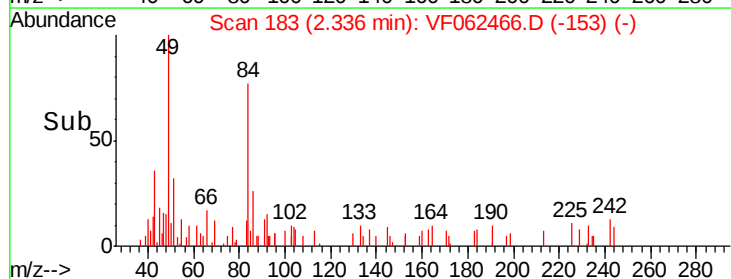
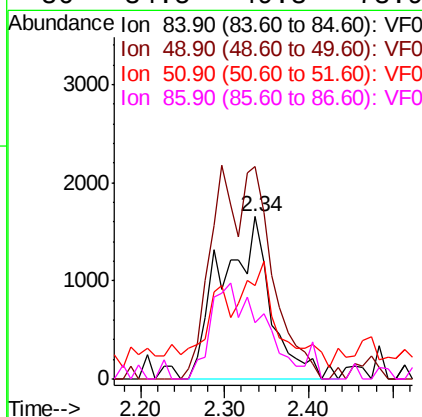
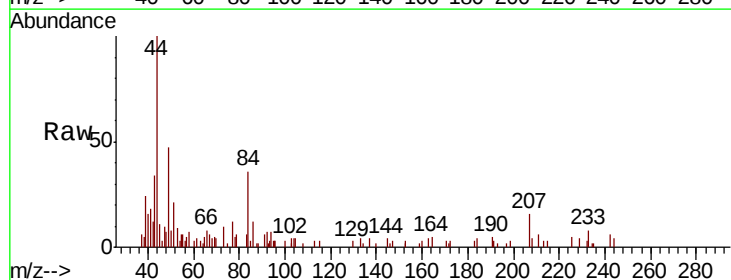
Instrument :
MSVOA_F
ClientSampleId :
P026-SS013-1218-01

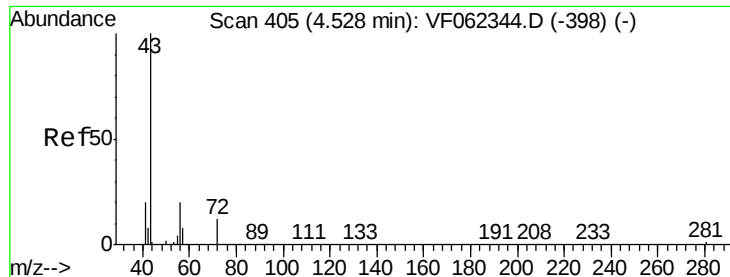
Tot Ion: 43 Resp: 6500
Ion Ratio Lower Upper
43 100
74 3.8 15.0 22.4#



#20
Methylene Chloride
Concen: 5.420 ug/l
RT: 2.34 min Scan# 183
Delta R.T. -0.00 min
Lab File: VF062466.D
Acq: 11 May 2019 18:04

Tgt Ion: 84 Resp: 6755
Ion Ratio Lower Upper
84 100
49 124.3 117.5 176.3
51 39.1 37.0 55.4
86 34.5 49.3 73.9#





#25

2-Butanone

Concen: 2.845 ug/l

RT: 4.56 min Scan# 409

Delta R.T. 0.04 min

Lab File: VF062466.D

Acq: 11 May 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

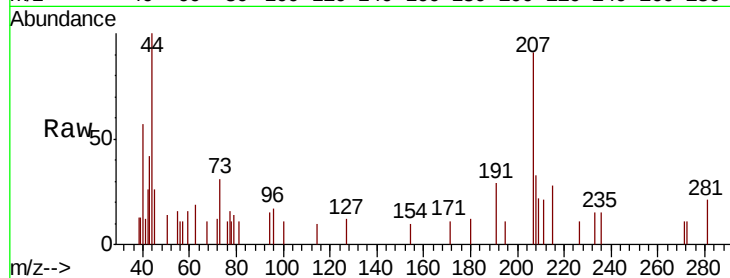
P026-SS013-1218-01

Tot Ion: 43 Resp: 1231

Ion Ratio Lower Upper

43 100

72 0.0 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.56

400

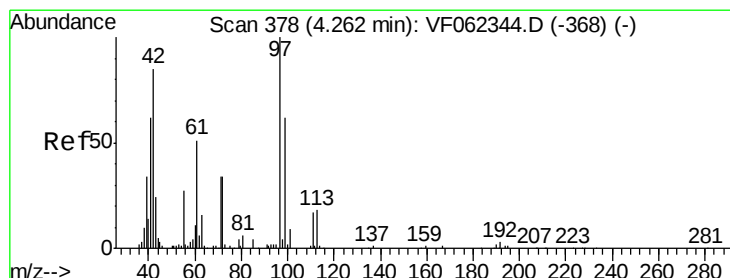
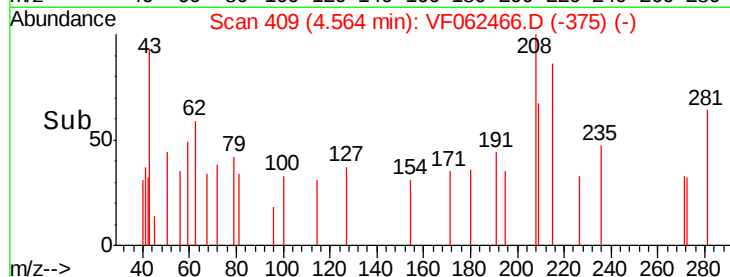
300

200

100

0

Time-->



#29

Tetrahydrofuran

Concen: 2.615 ug/l

RT: 4.27 min Scan# 379

Delta R.T. 0.01 min

Lab File: VF062466.D

Acq: 11 May 2019 18:04

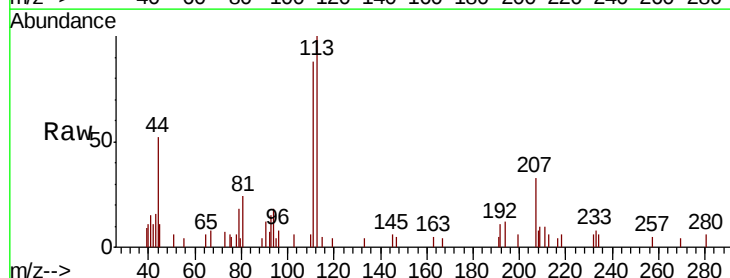
Tgt Ion: 42 Resp: 520

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 17.5 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

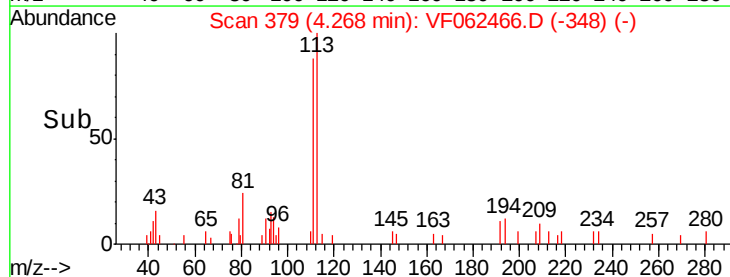
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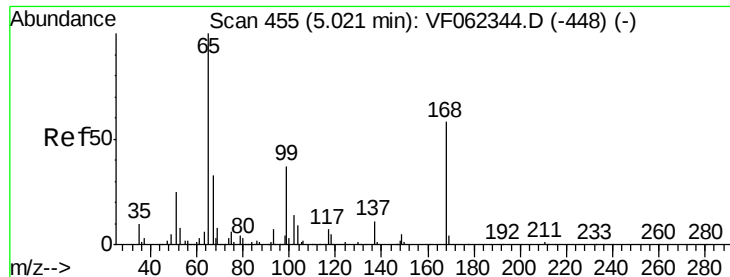
200

100

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 67.205 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.02 min

Lab File: VF062466.D

Acq: 11 May 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

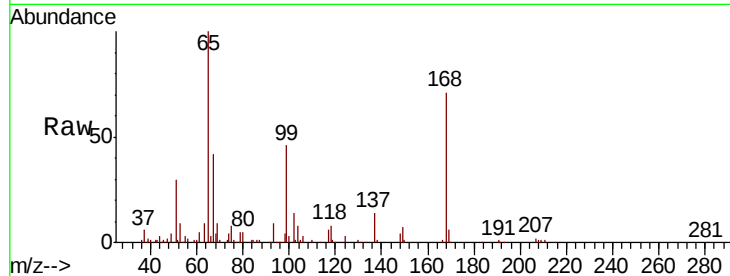
P026-SS013-1218-01

Tot Ion: 65 Resp: 114434

Ion Ratio Lower Upper

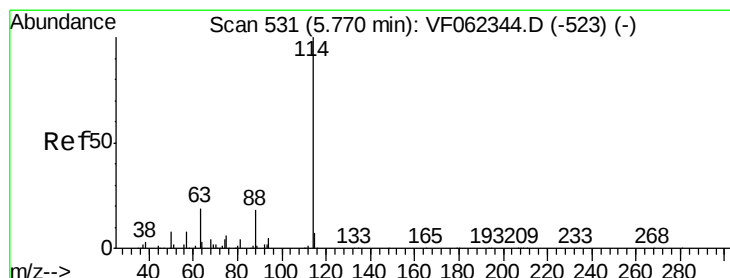
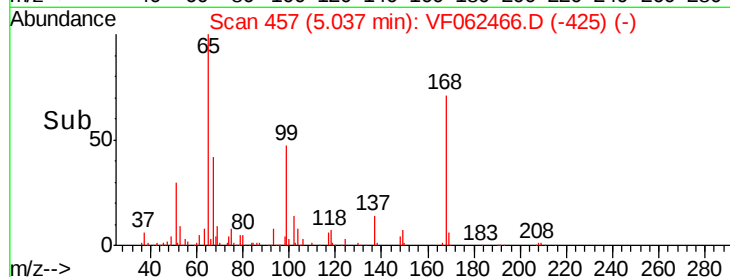
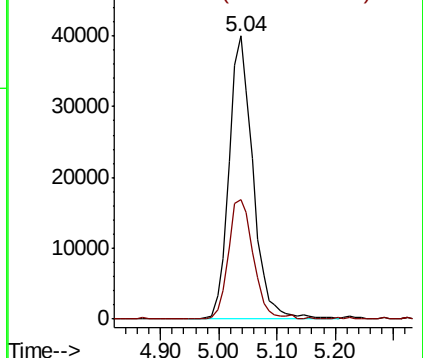
65 100

67 44.1 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# 532

Delta R.T. 0.01 min

Lab File: VF062466.D

Acq: 11 May 2019 18:04

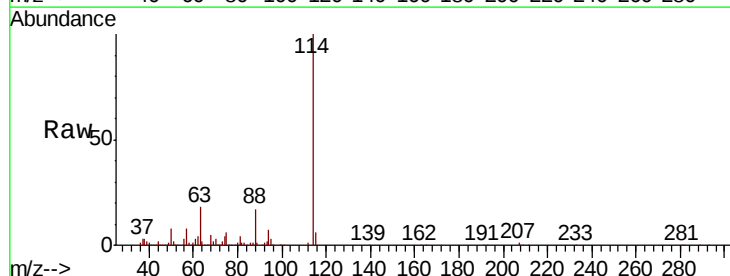
Tgt Ion:114 Resp: 251505

Ion Ratio Lower Upper

114 100

63 17.9 0.0 37.4

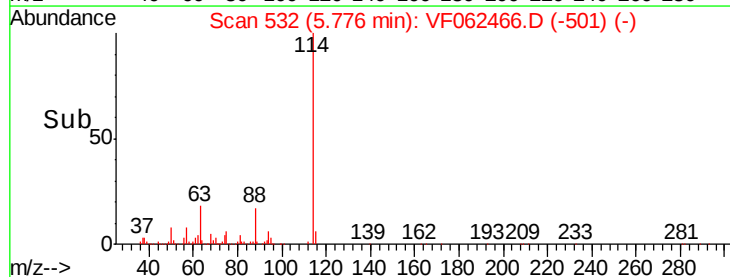
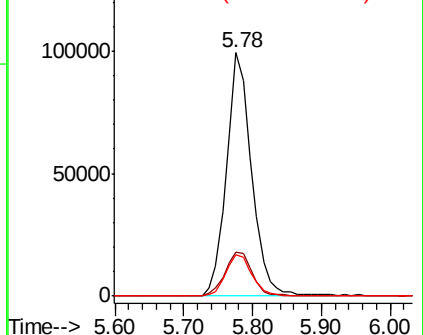
88 17.1 0.0 36.4

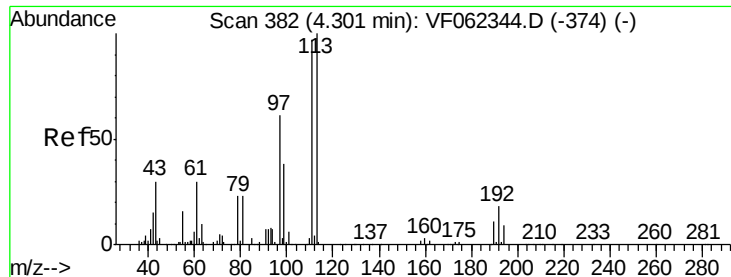


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0

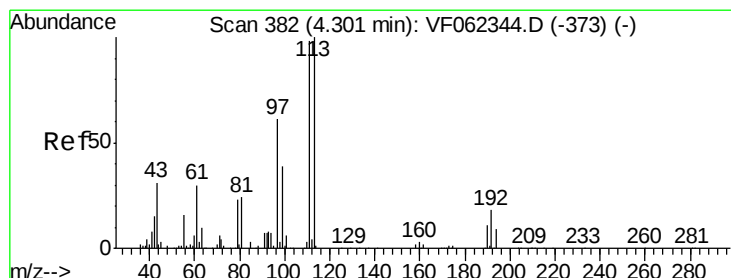
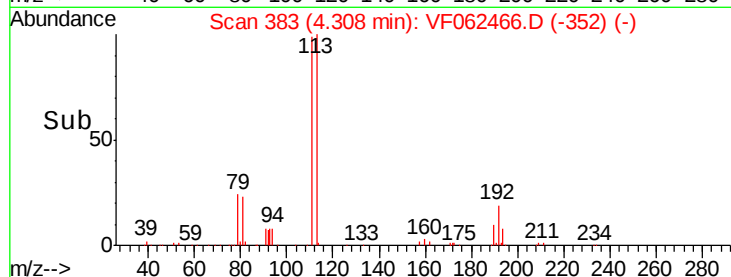
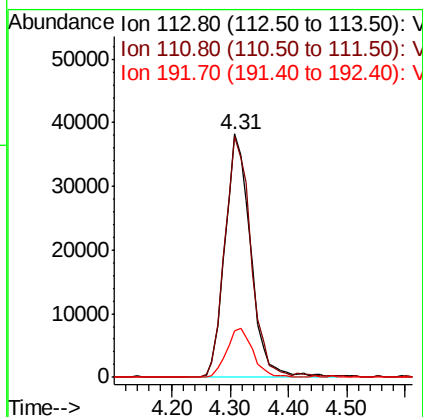
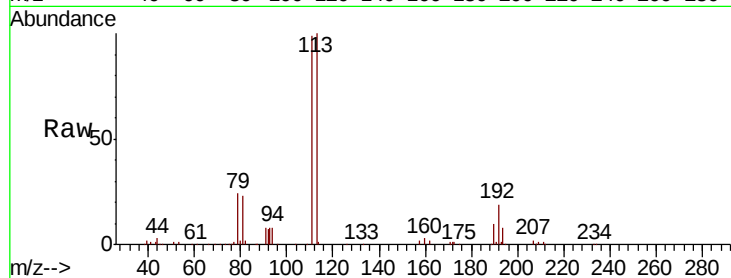




#35
Dibromofluoromethane
Concen: 58.645 ug/l
RT: 4.31 min Scan# 383
Delta R.T. 0.01 min
Lab File: VF062466.D
Acq: 11 May 2019 18:04

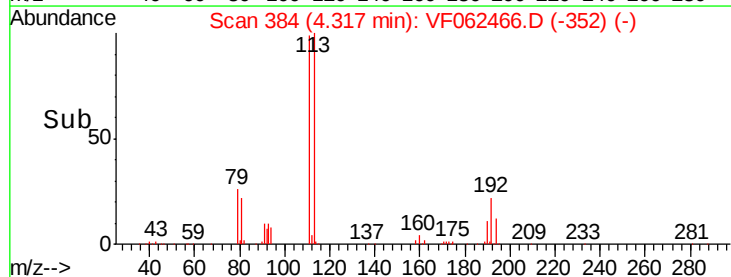
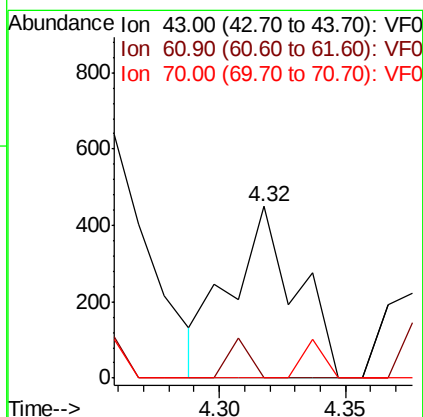
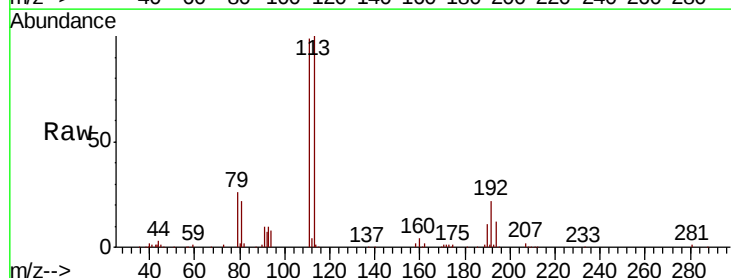
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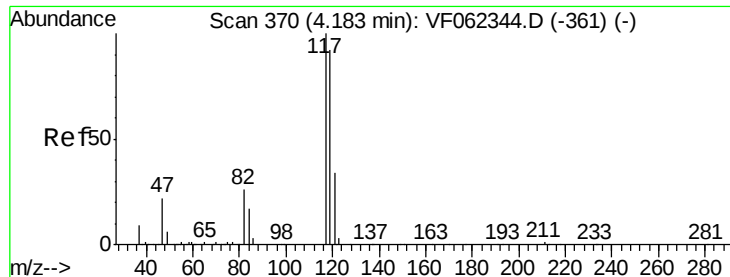
Tot Ion:113 Resp: 117507
Ion Ratio Lower Upper
113 100
111 99.4 79.4 119.0
192 20.5 16.0 24.0



#37
Ethyl Acetate
Concen: Below Cal
RT: 4.32 min Scan# 384
Delta R.T. 0.02 min
Lab File: VF062466.D
Acq: 11 May 2019 18:04

Tgt Ion: 43 Resp: 809
Ion Ratio Lower Upper
43 100
61 7.8 0.0 0.0#
70 0.0 8.2 12.2#





#38

Carbon Tetrachloride

Concen: Below Cal

RT: 4.17 min Scan# 369

Delta R.T. -0.01 min

Lab File: VF062466.D

Acq: 11 May 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-1218-01

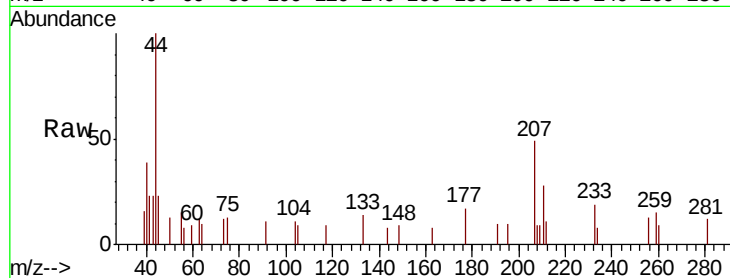
Tot Ion:117 Resp: 66

Ion Ratio Lower Upper

117 100

119 0.0 73.4 110.2#

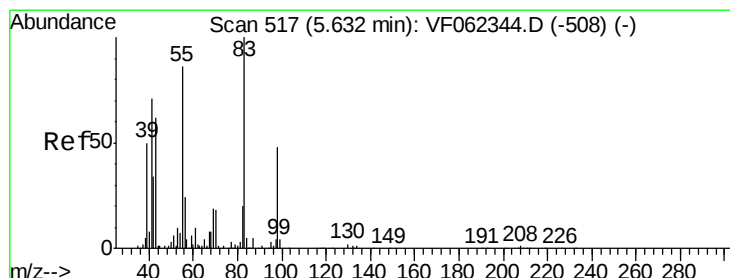
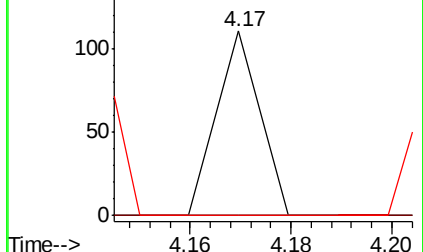
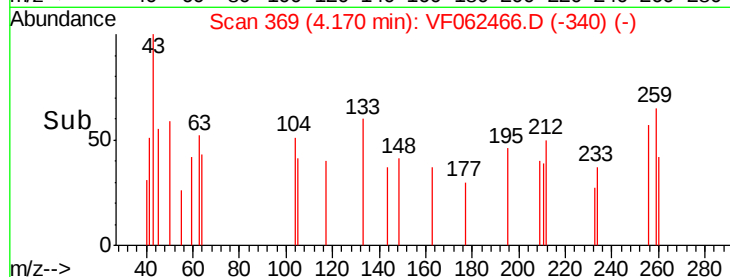
121 0.0 27.4 41.0#



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: 1.816 ug/l

RT: 5.78 min Scan# 532

Delta R.T. 0.14 min

Lab File: VF062466.D

Acq: 11 May 2019 18:04

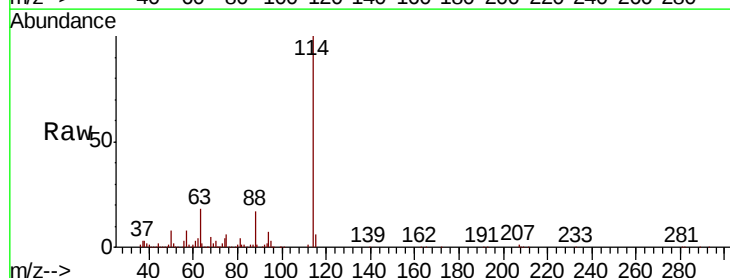
Tgt Ion: 83 Resp: 3934

Ion Ratio Lower Upper

83 100

55 38.2 69.0 103.6#

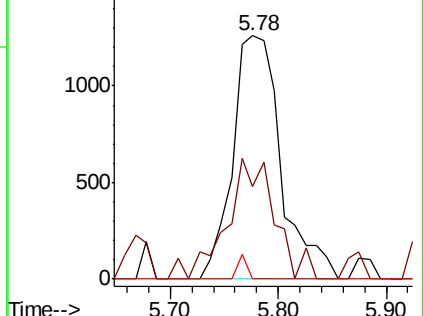
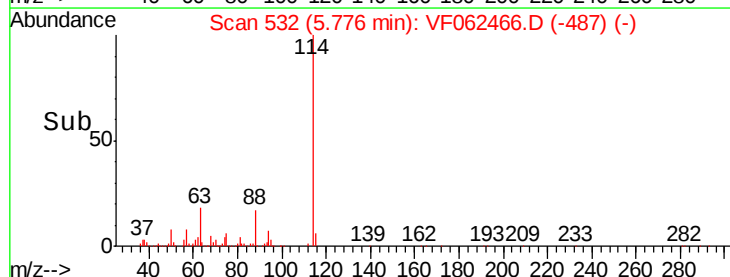
98 0.0 38.6 58.0#

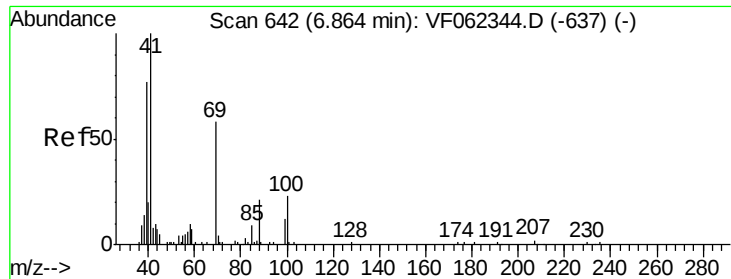


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

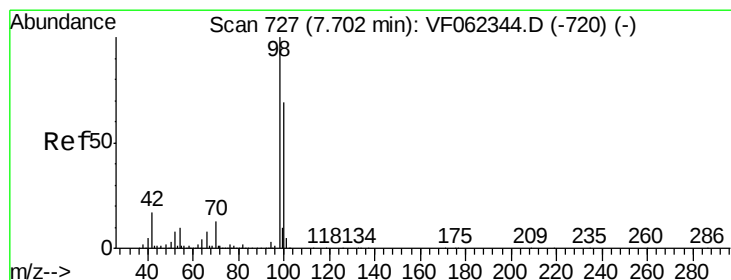
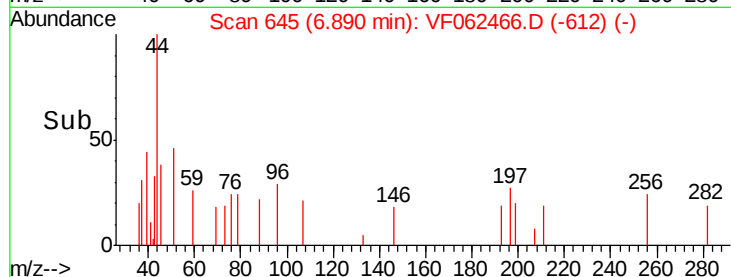
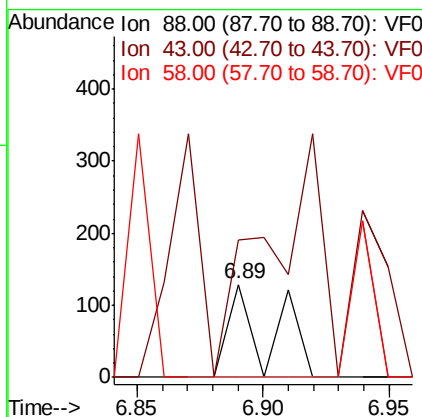
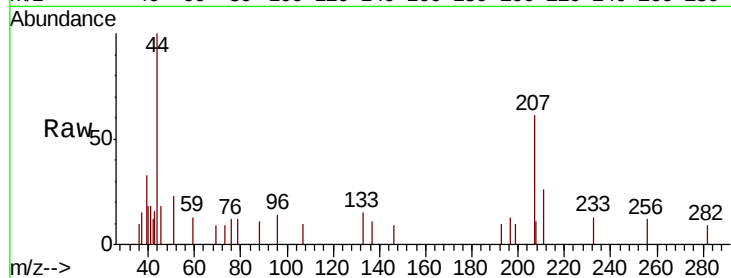




#49
1,4-Dioxane
Concen: 7.755 ug/l
RT: 6.89 min Scan# 645
Delta R.T. 0.03 min
Lab File: VF062466.D
Acq: 11 May 2019 18:04

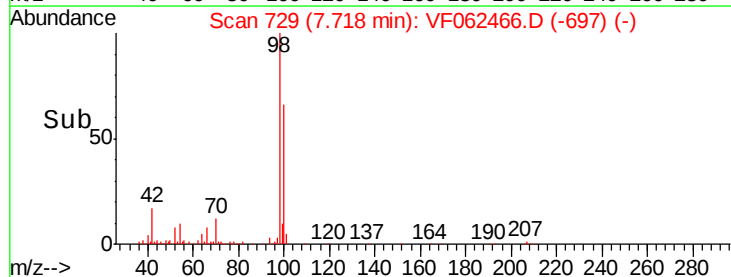
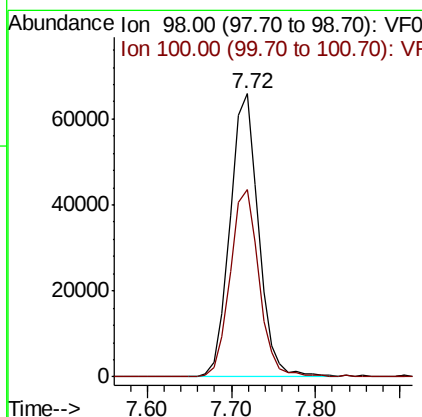
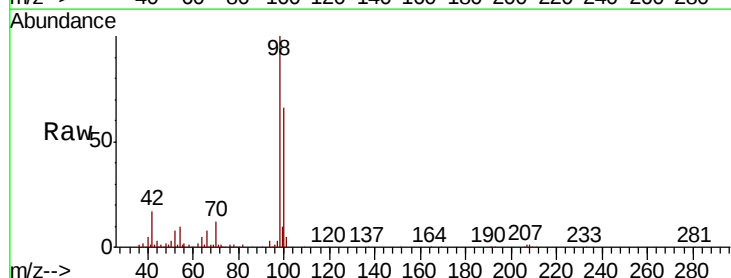
Instrument :
MSVOA_F
ClientSampleId :
P026-SS013-1218-01

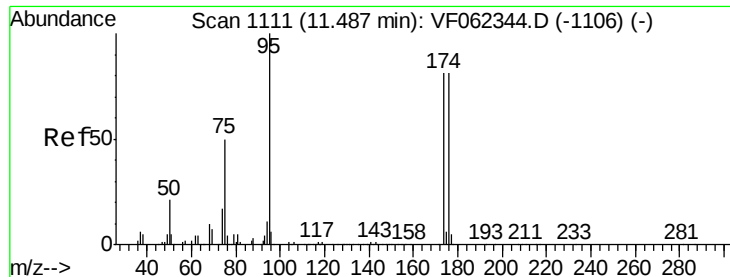
Tot Ion: 88 Resp: 148
Ion Ratio Lower Upper
88 100
43 210.8 55.6 83.4#
58 0.0 52.8 79.2#



#50
Toluene-d8
Concen: 32.026 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.02 min
Lab File: VF062466.D
Acq: 11 May 2019 18:04

Tgt Ion: 98 Resp: 155335
Ion Ratio Lower Upper
98 100
100 67.3 53.3 79.9





#62

4-Bromofluorobenzene

Concen: 31.850 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF062466.D

Acq: 11 May 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-1218-01

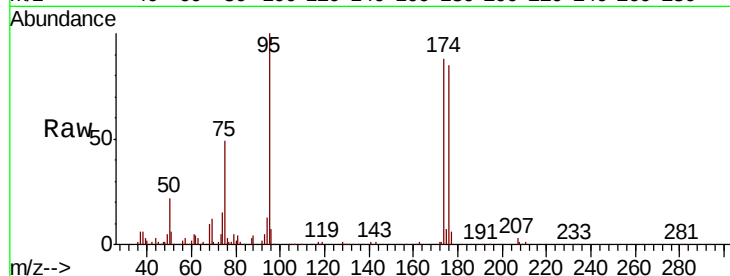
Tot Ion: 95 Resp: 69696

Ion Ratio Lower Upper

95 100

174 102.0 0.0 191.8

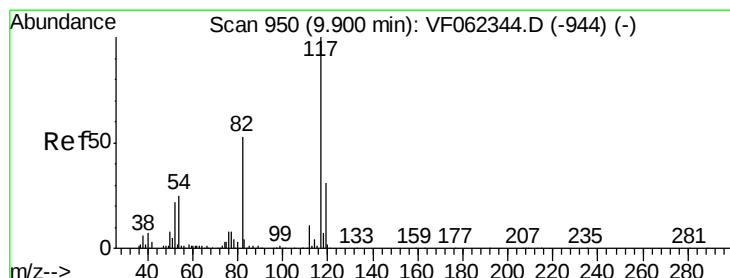
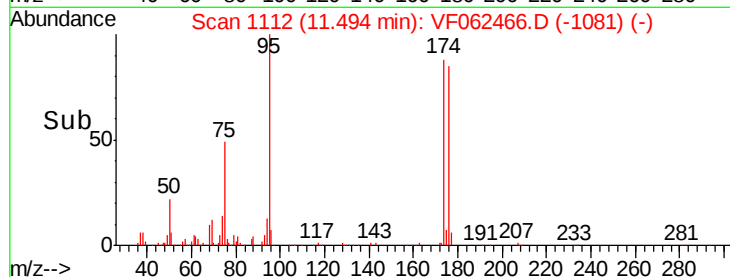
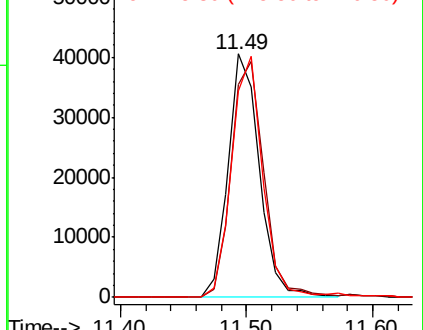
176 99.2 0.0 193.2



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): VF0

Ion 175.80 (175.50 to 176.50): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.92 min Scan# 952

Delta R.T. 0.02 min

Lab File: VF062466.D

Acq: 11 May 2019 18:04

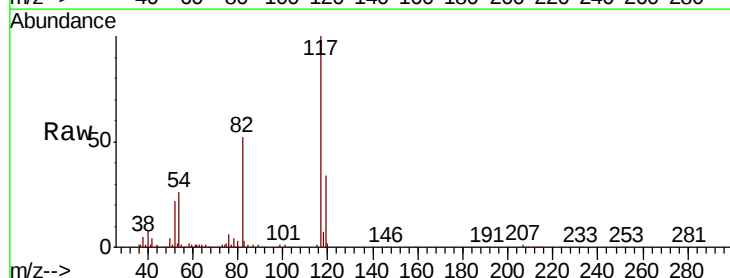
Tgt Ion: 117 Resp: 187183

Ion Ratio Lower Upper

117 100

82 51.8 42.2 63.2

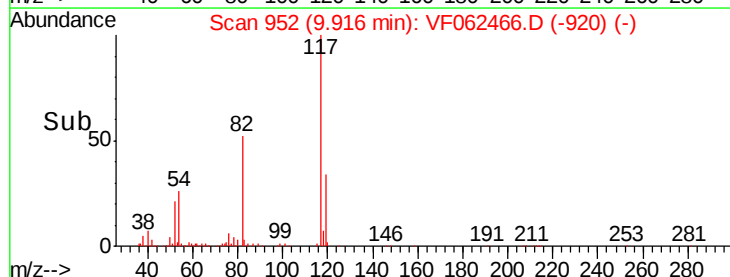
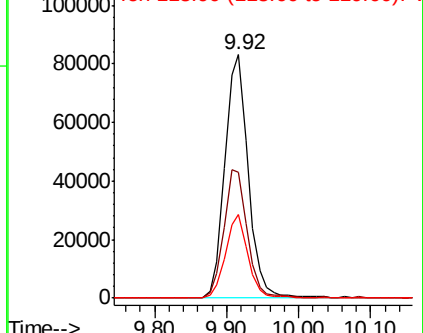
119 34.4 25.0 37.4

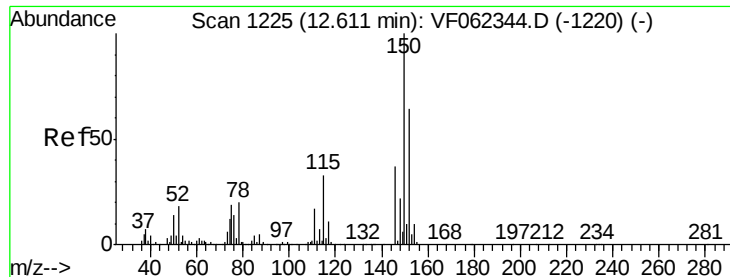


Abundance Ion 116.90 (116.60 to 117.60): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1226

Delta R.T. 0.01 min

Lab File: VF062466.D

Acq: 11 May 2019 18:04

Instrument :

MSVOA_F

ClientSampleId :

P026-SS013-1218-01

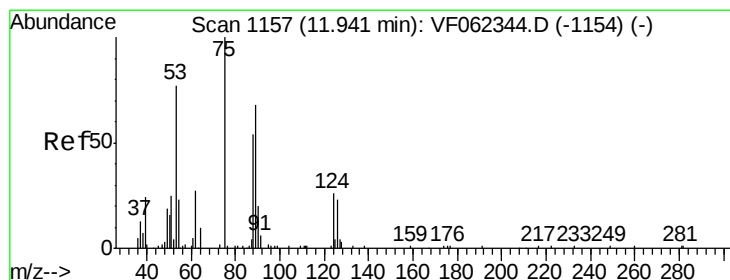
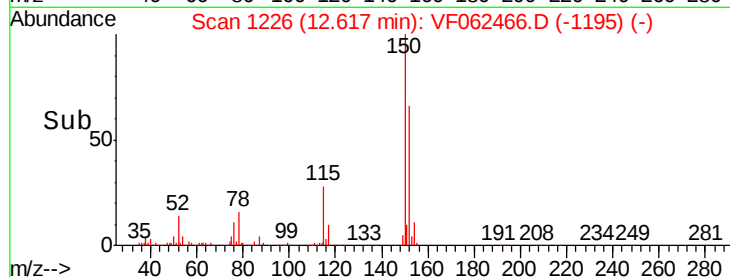
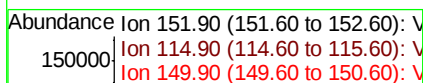
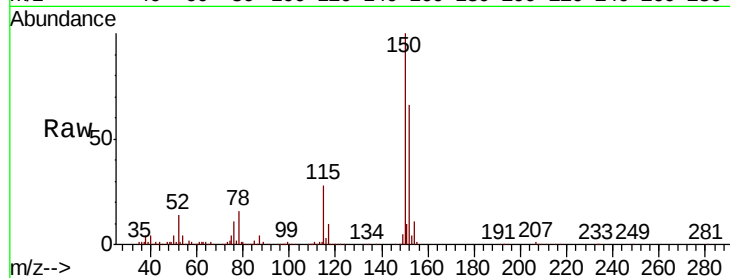
Tot Ion:152 Resp: 99510

Ion Ratio Lower Upper

152 100

115 48.1 26.4 79.2

150 156.1 0.0 335.0



#81

trans-1,4-Dichloro-2-butene

Concen: 1.657 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. 0.04 min

Lab File: VF062466.D

Acq: 11 May 2019 18:04

Tgt Ion: 75 Resp: 439

Ion Ratio Lower Upper

75 100

53 0.0 71.9 107.9#

89 16.4 0.0 0.0#

