

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051119\
 Data File : VF062468.D
 Acq On : 11 May 2019 19:00
 Operator : FY/SY
 Sample : K2734-16
 Misc : 3.77g/5mL/MSVOA F/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS014-0002-01

Quant Time: May 12 03:48:52 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	178639	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.78	114	240670	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.91	117	177958	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.61	152	92524	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	129769	76.87	ug/l	0.02
Spiked Amount 50.000			Recovery	=	153.74%	
35) Dibromofluoromethane	4.31	113	142125	74.12	ug/l	0.01
Spiked Amount 50.000			Recovery	=	148.24%	
50) Toluene-d8	7.72	98	178496	38.46	ug/l	0.01
Spiked Amount 50.000			Recovery	=	76.92%	
62) 4-Bromofluorobenzene	11.50	95	82779	39.53	ug/l	0.01
Spiked Amount 50.000			Recovery	=	79.06%	

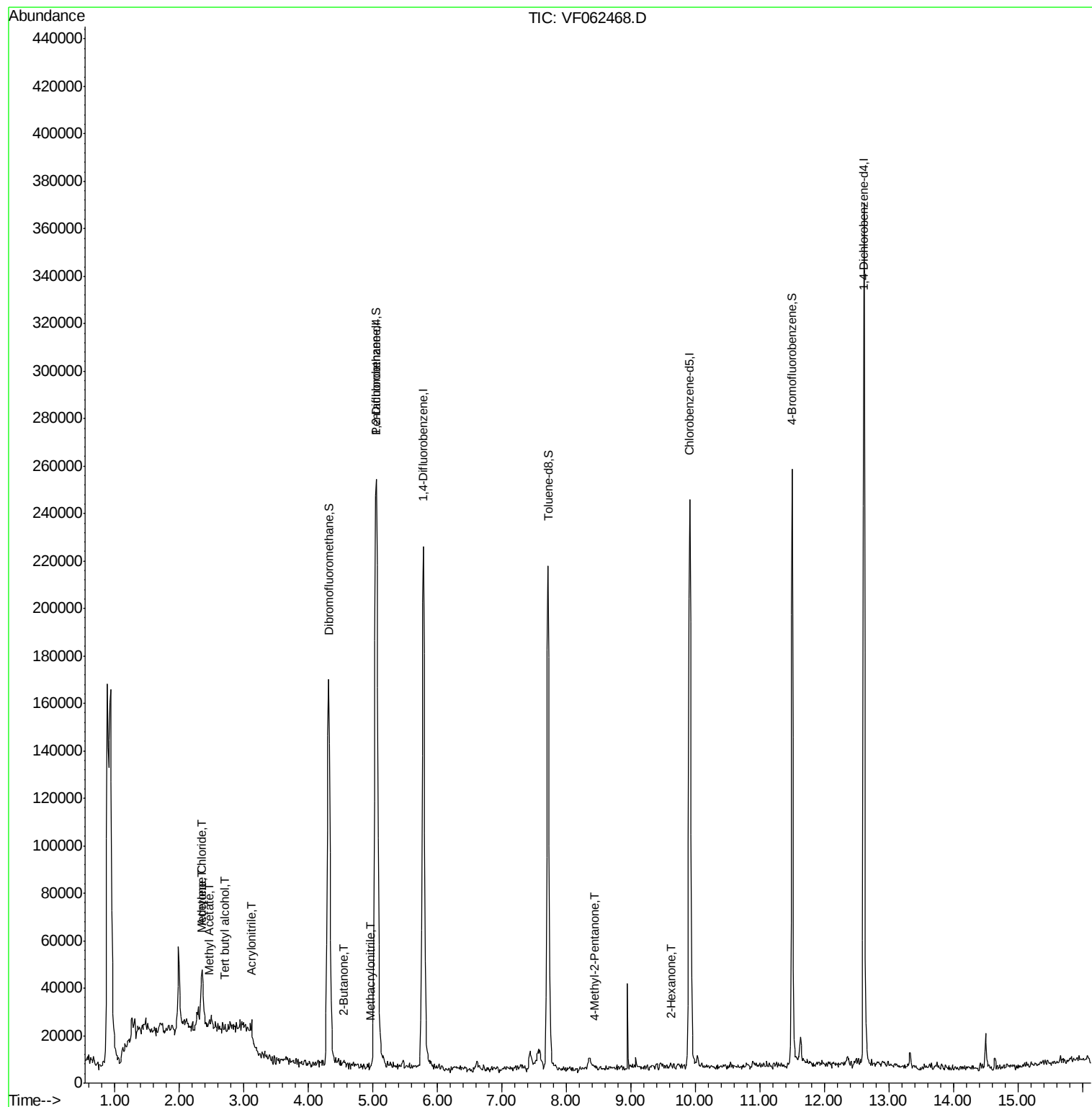
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.46	94	391	Below Cal	#	11
11) Tert butyl alcohol	2.71	59	534	5.597	ug/l #	29
13) Acrolein	2.17	56	562	Below Cal	#	1
15) Acrylonitrile	3.12	53	644	3.563	ug/l #	69
16) Acetone	2.35	43	38555	112.895	ug/l	99
18) Methyl Acetate	2.46	43	7427	9.381	ug/l #	82
20) Methylene Chloride	2.33	84	4757	3.850	ug/l #	82
25) 2-Butanone	4.54	43	3769	8.784	ug/l	95
37) Ethyl Acetate	4.22	43	183	Below Cal	#	73
38) Carbon Tetrachloride	4.19	117	90	Below Cal	#	14
41) Methacrylonitrile	4.97	41	1199	2.419	ug/l #	44
49) 1,4-Dioxane	7.13	88	89	Below Cal	#	17
51) 4-Methyl-2-Pentanone	8.43	43	1593	2.236	ug/l #	59
59) 2-Hexanone	9.63	43	780	1.583	ug/l	70

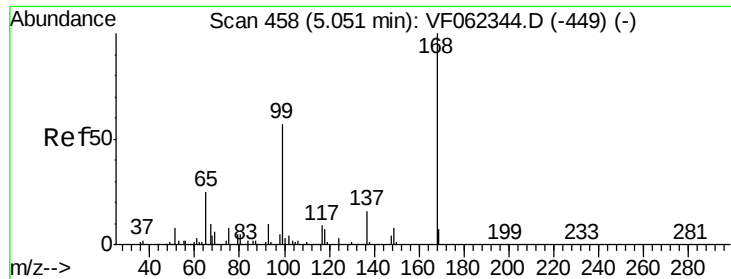
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.01 min

Lab File: VF062468.D

Acq: 11 May 2019 19:00

Instrument :

MSVOA_F

ClientSampleId :

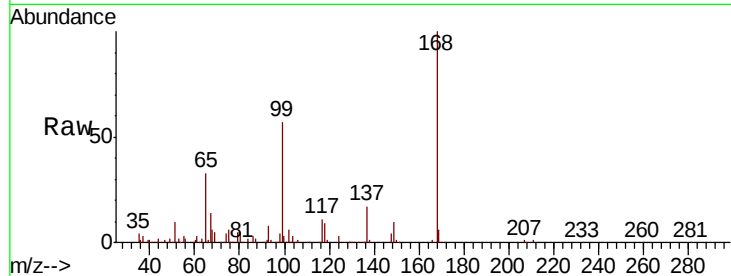
P026-SS014-0002-01

Tot Ion:168 Resp: 178639

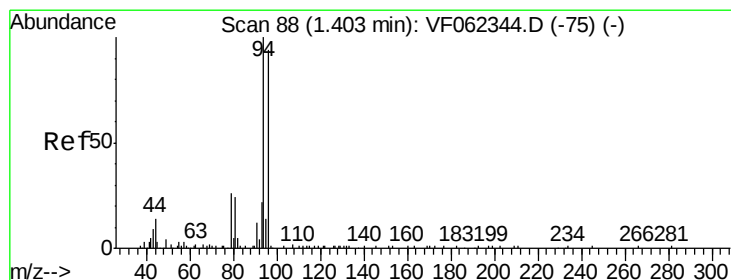
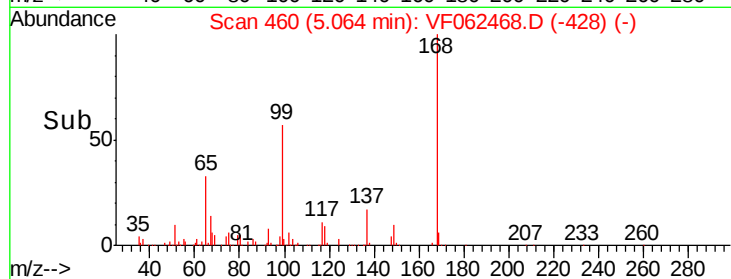
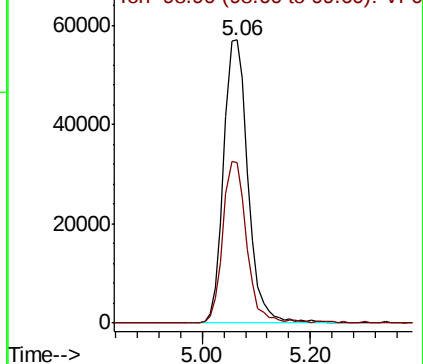
Ion Ratio Lower Upper

168 100

99 56.6 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0



#5

Bromomethane

Concen: Below Cal

RT: 1.46 min Scan# 94

Delta R.T. 0.05 min

Lab File: VF062468.D

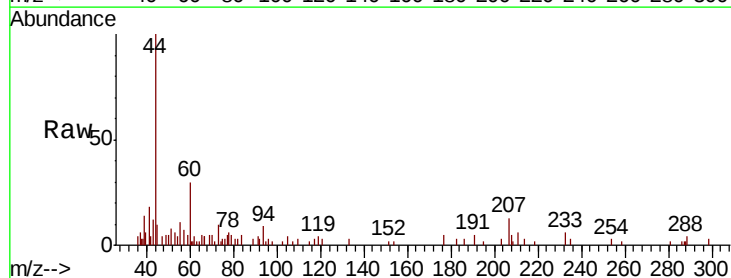
Acq: 11 May 2019 19:00

Tgt Ion: 94 Resp: 391

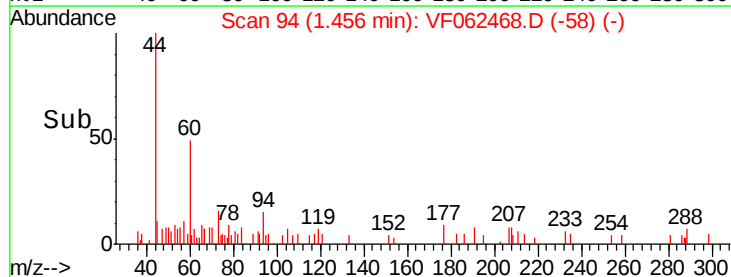
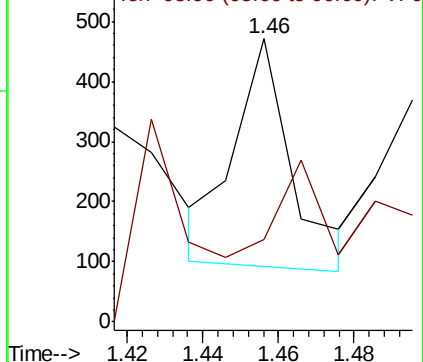
Ion Ratio Lower Upper

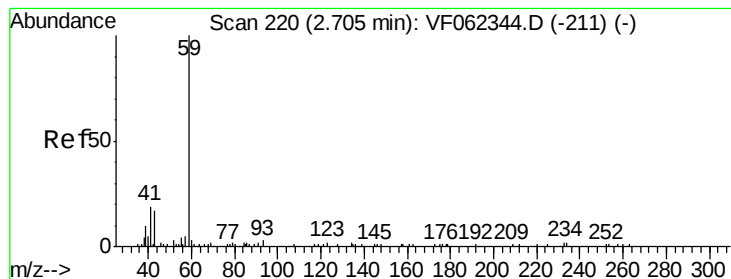
94 100

96 8.2 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0



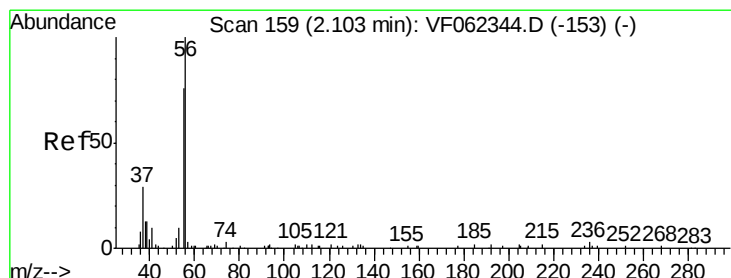
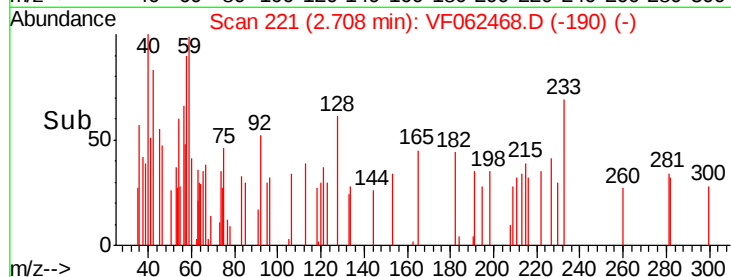
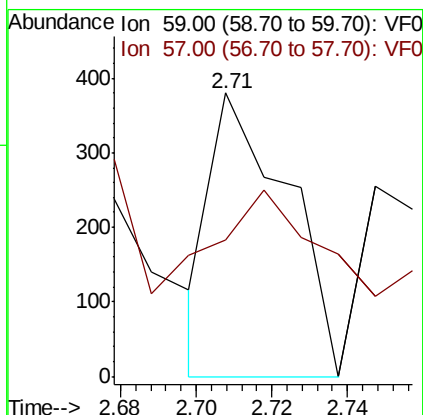
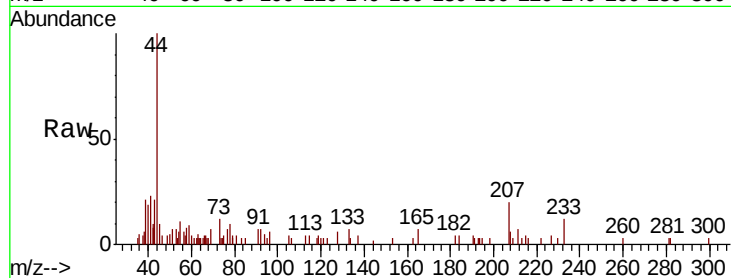


#11

Tert butyl alcohol
Concen: 5.597 ug/l
RT: 2.71 min Scan# 221
Delta R.T. 0.00 min
Lab File: VF062468.D
Acq: 11 May 2019 19:00

Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-0002-01

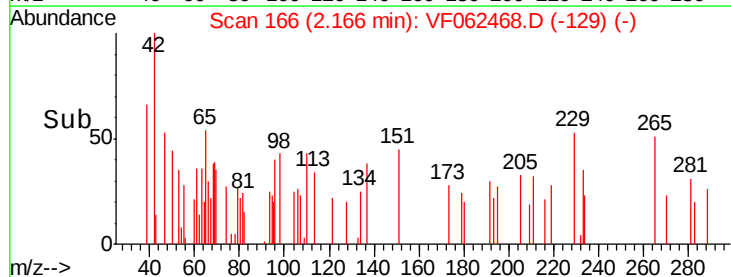
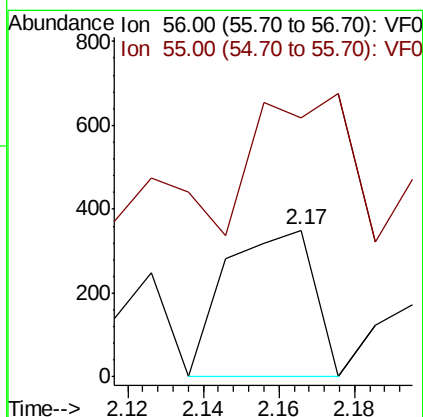
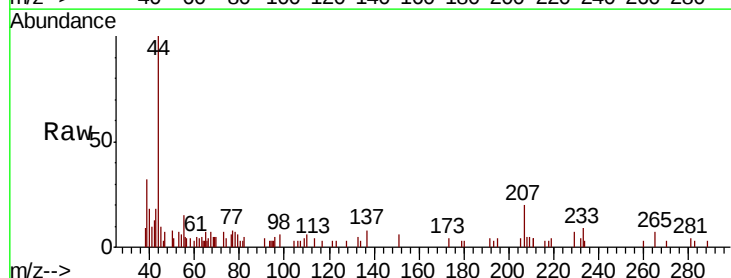
Tot Ion: 59 Resp: 534
Ion Ratio Lower Upper
59 100
57 39.0 9.3 13.9#

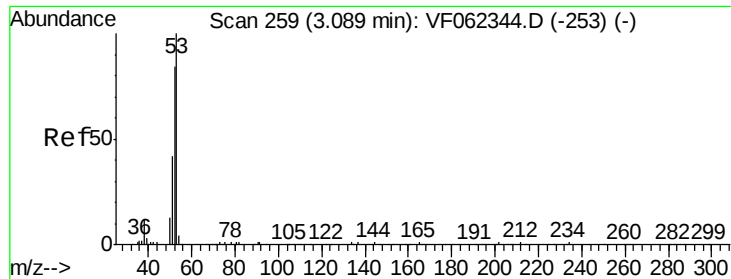


#13

Acrolein
Concen: Below Cal
RT: 2.17 min Scan# 166
Delta R.T. 0.06 min
Lab File: VF062468.D
Acq: 11 May 2019 19:00

Tgt Ion: 56 Resp: 562
Ion Ratio Lower Upper
56 100
55 162.3 58.4 87.6#





#15

Acrylonitrile

Concen: 3.563 ug/l

RT: 3.12 min Scan# 263

Delta R.T. 0.03 min

Lab File: VF062468.D

Acq: 11 May 2019 19:00

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-0002-01

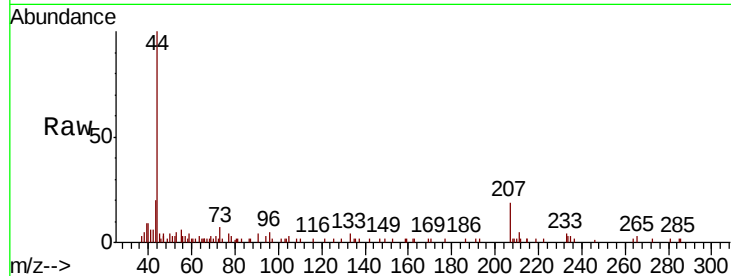
Tot Ion: 53 Resp: 644

Ion Ratio Lower Upper

53 100

52 88.5 77.2 115.8

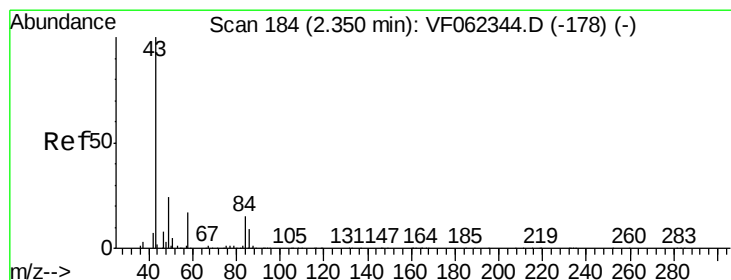
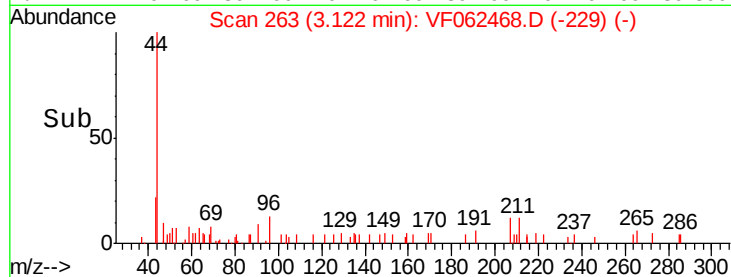
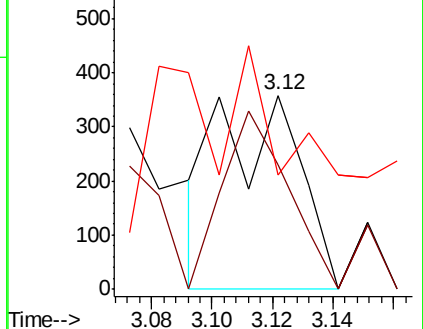
51 0.0 40.6 61.0#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 112.895 ug/l

RT: 2.35 min Scan# 185

Delta R.T. 0.00 min

Lab File: VF062468.D

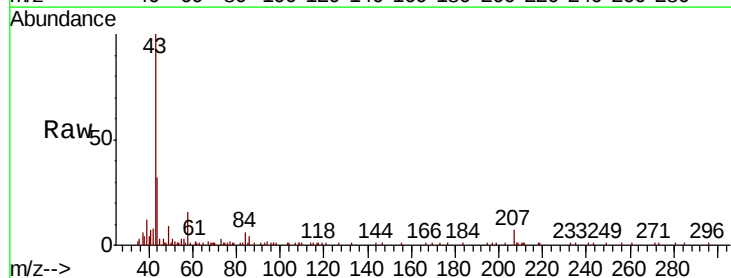
Acq: 11 May 2019 19:00

Tgt Ion: 43 Resp: 38555

Ion Ratio Lower Upper

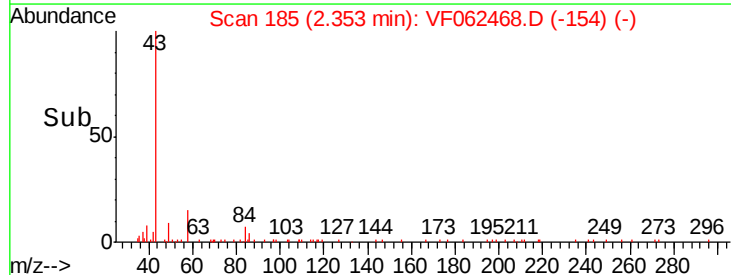
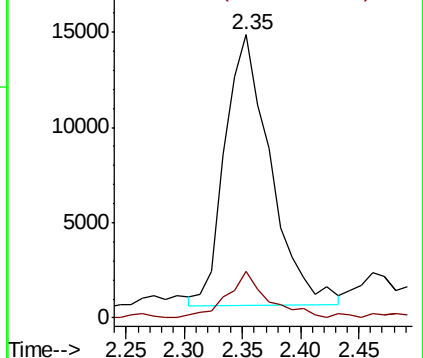
43 100

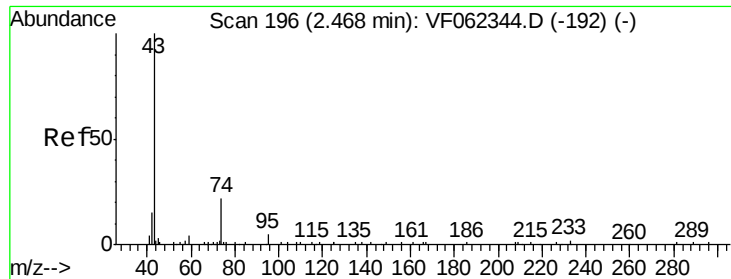
58 16.6 13.1 19.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

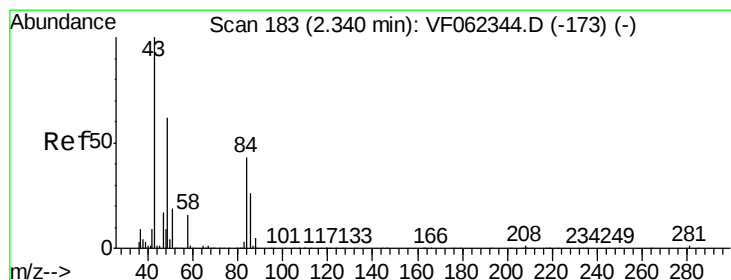
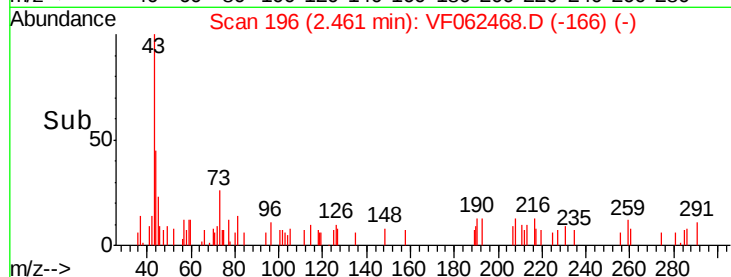
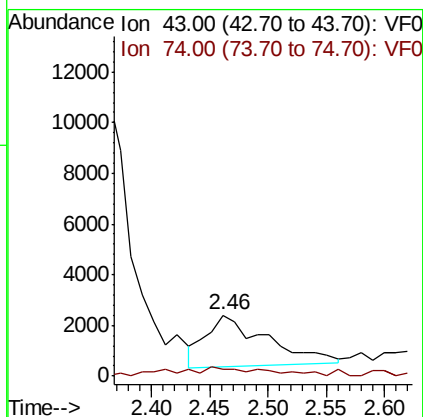
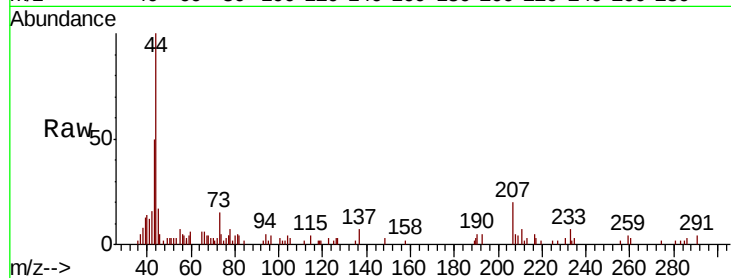




#18
Methyl Acetate
Concen: 9.381 ug/l
RT: 2.46 min Scan# 196
Delta R.T. -0.01 min
Lab File: VF062468.D
Acq: 11 May 2019 19:00

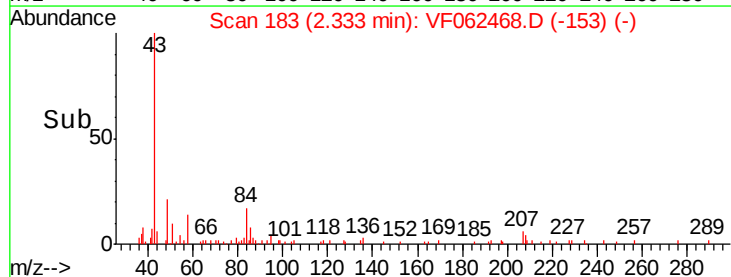
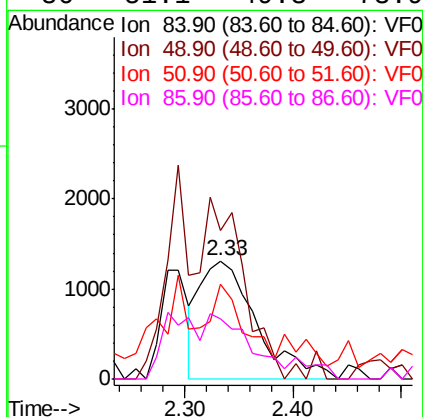
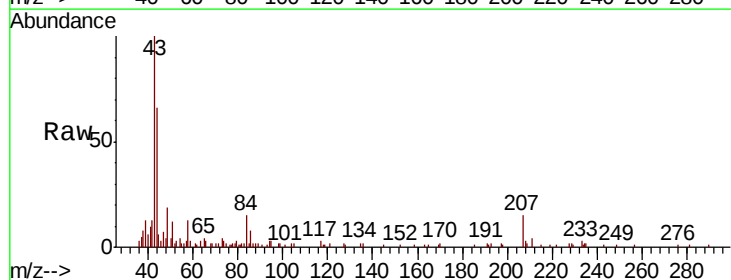
Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-0002-01

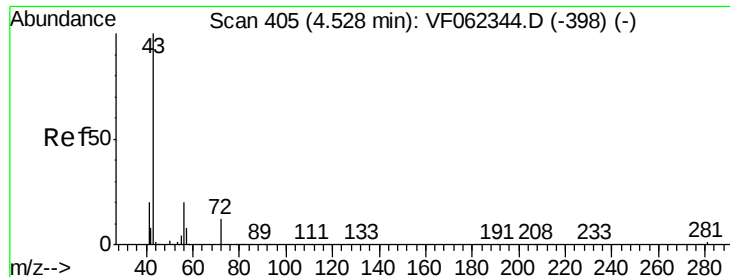
Tot Ion: 43 Resp: 7427
Ion Ratio Lower Upper
43 100
74 10.6 15.0 22.4#



#20
Methylene Chloride
Concen: 3.850 ug/l
RT: 2.33 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF062468.D
Acq: 11 May 2019 19:00

Tgt Ion: 84 Resp: 4757
Ion Ratio Lower Upper
84 100
49 126.0 117.5 176.3
51 63.5 37.0 55.4#
86 51.1 49.3 73.9





#25

2-Butanone

Concen: 8.784 ug/l

RT: 4.54 min Scan# 407

Delta R.T. 0.01 min

Lab File: VF062468.D

Acq: 11 May 2019 19:00

Instrument :

MSVOA_F

ClientSampleId :

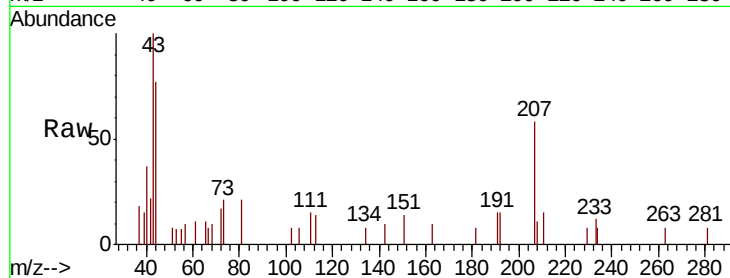
P026-SS014-0002-01

Tot Ion: 43 Resp: 3769

Ion Ratio Lower Upper

43 100

72 20.2 14.2 21.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

1500

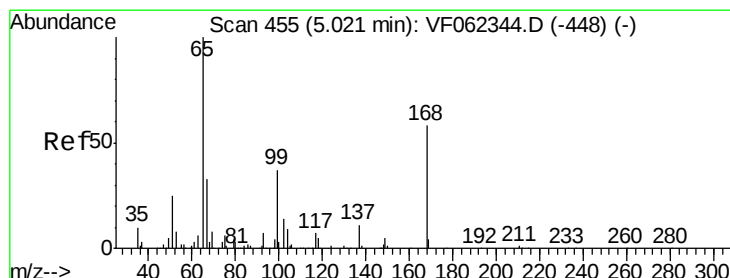
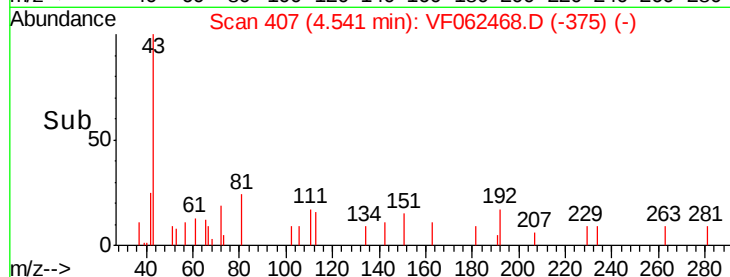
1000

500

0

4.45 4.50 4.55 4.60

Time-->



#33

1,2-Dichloroethane-d4

Concen: 76.868 ug/l

RT: 5.04 min Scan# 458

Delta R.T. 0.02 min

Lab File: VF062468.D

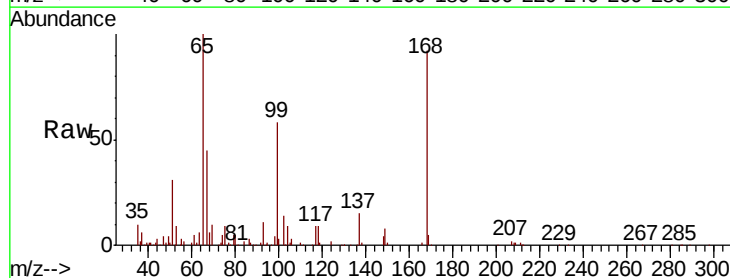
Acq: 11 May 2019 19:00

Tgt Ion: 65 Resp: 129769

Ion Ratio Lower Upper

65 100

67 45.1 0.0 85.8



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0

50000

40000

30000

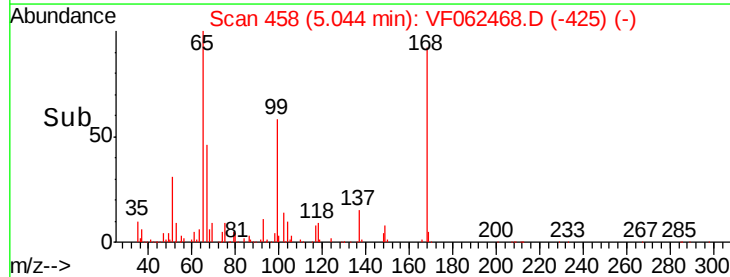
20000

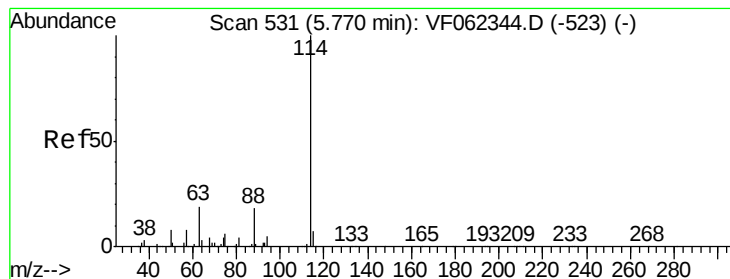
10000

0

4.90 5.00 5.10

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 533

Delta R.T. 0.01 min

Lab File: VF062468.D

Acq: 11 May 2019 19:00

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-0002-01

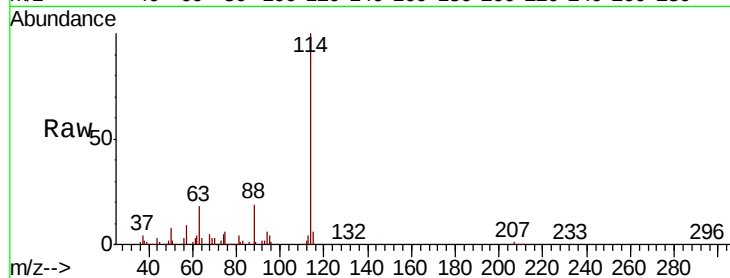
Tot Ion:114 Resp: 240670

Ion Ratio Lower Upper

114 100

63 18.3 0.0 37.4

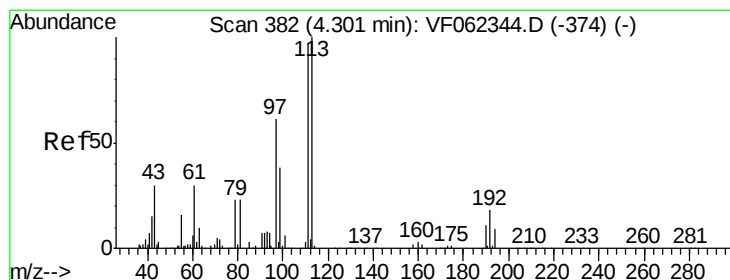
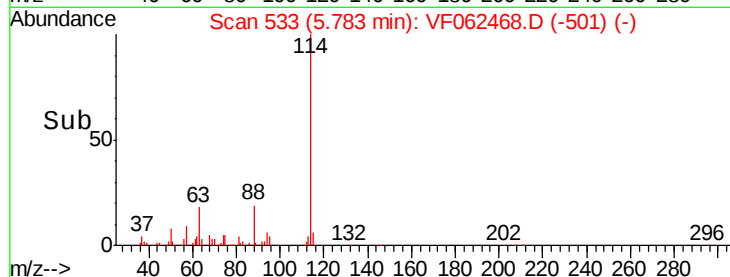
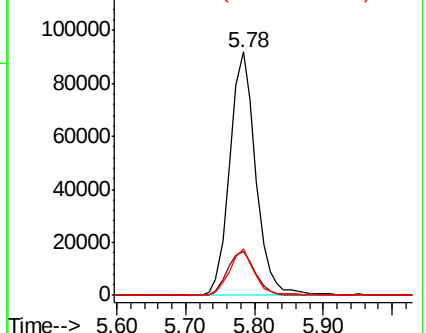
88 19.1 0.0 36.4



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: 74.125 ug/l

RT: 4.31 min Scan# 384

Delta R.T. 0.01 min

Lab File: VF062468.D

Acq: 11 May 2019 19:00

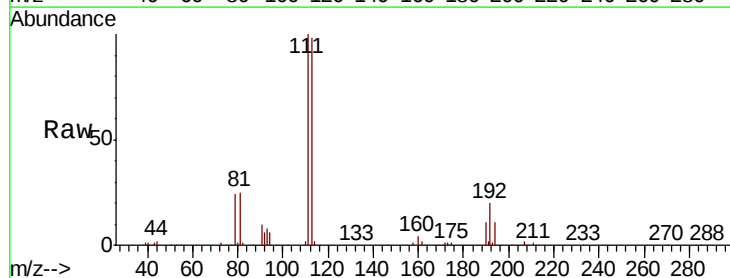
Tgt Ion:113 Resp: 142125

Ion Ratio Lower Upper

113 100

111 100.5 79.4 119.0

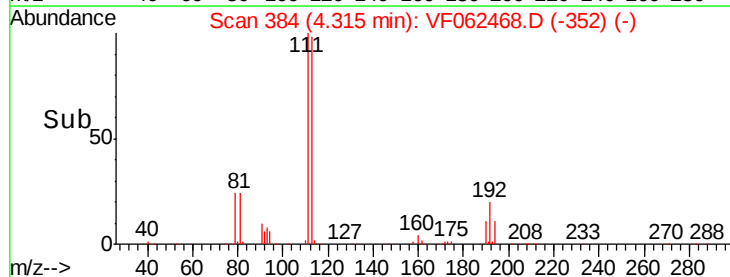
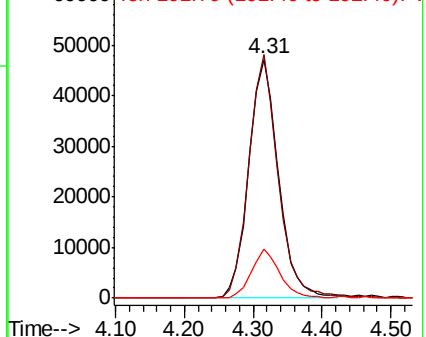
192 19.4 16.0 24.0

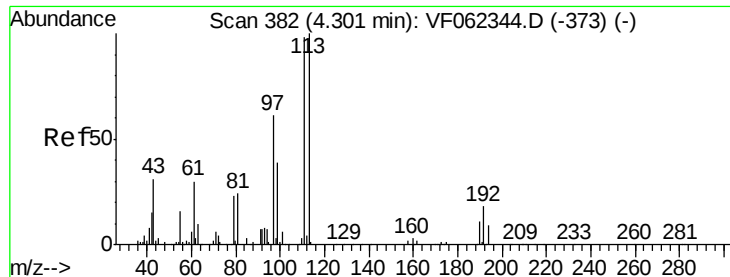


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

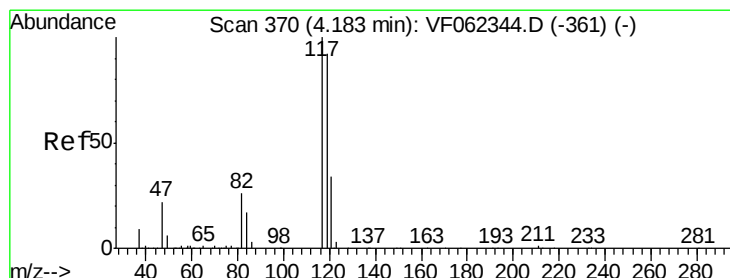
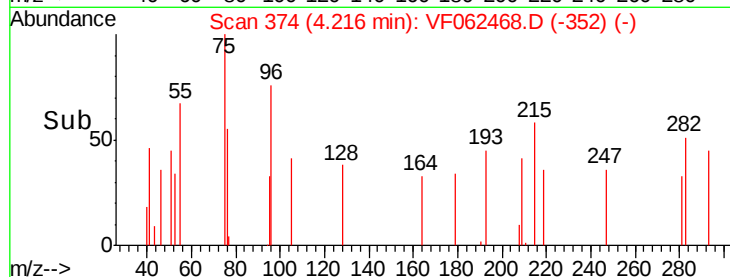
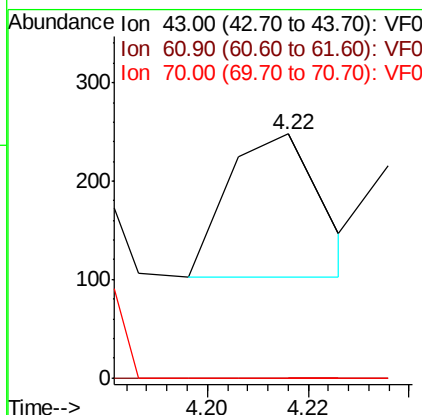
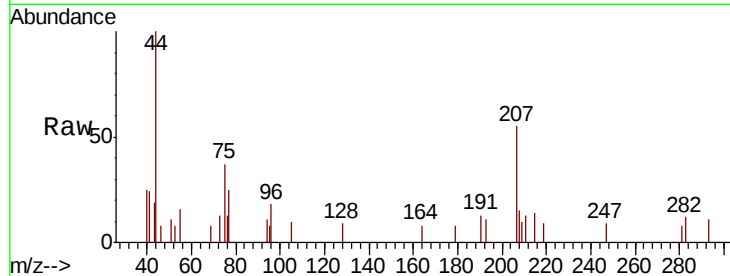




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.22 min Scan# 374
Delta R.T. -0.08 min
Lab File: VF062468.D
Acq: 11 May 2019 19:00

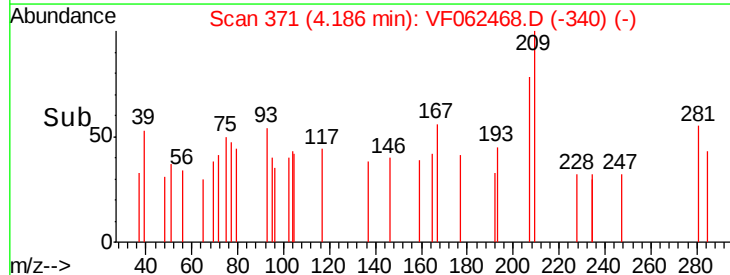
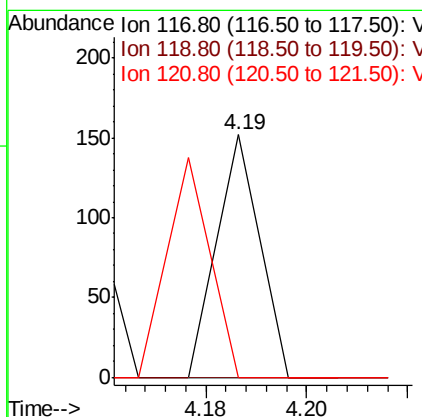
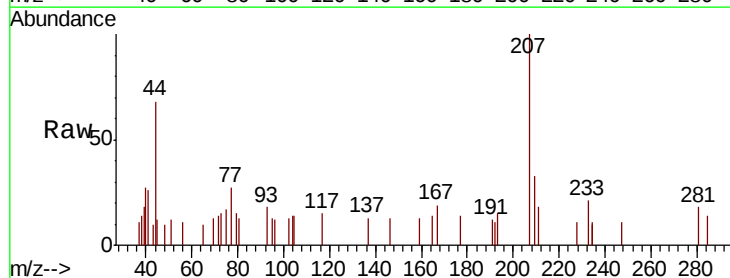
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P026-SS014-0002-01

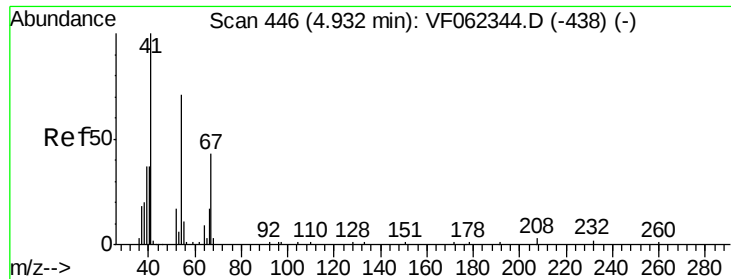
Tot Ion: 43 Resp: 183
Ion Ratio Lower Upper
43 100
61 0.0 0.0 0.0
70 0.0 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.19 min Scan# 371
Delta R.T. 0.00 min
Lab File: VF062468.D
Acq: 11 May 2019 19:00

Tgt Ion: 117 Resp: 90
Ion Ratio Lower Upper
117 100
119 0.0 73.4 110.2#
121 0.0 27.4 41.0#

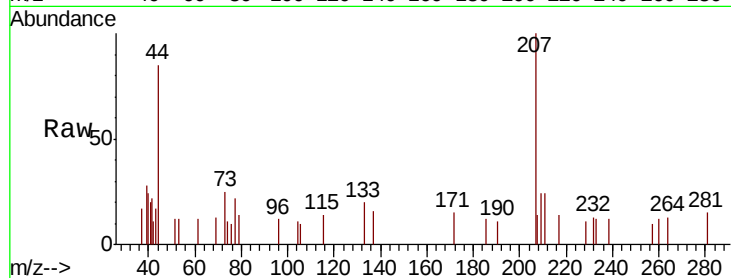




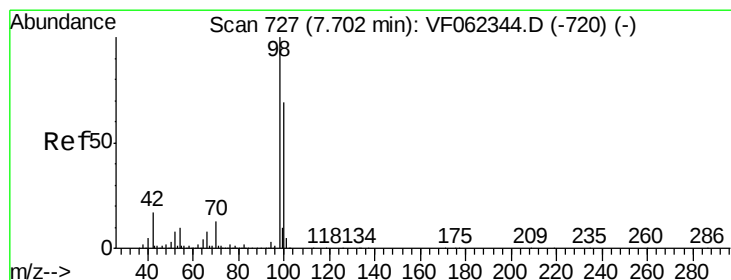
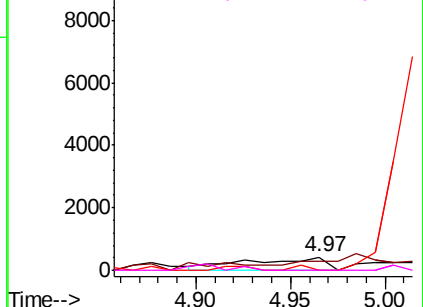
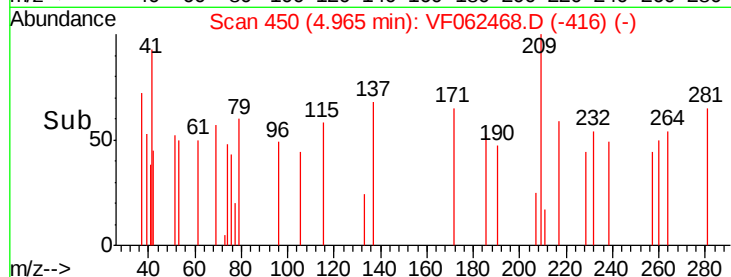
#41
Methacrylonitrile
Concen: 2.419 ug/l
RT: 4.97 min Scan# 450
Delta R.T. 0.03 min
Lab File: VF062468.D
Acq: 11 May 2019 19:00

Instrument :
MSVOA_F
ClientSampleId :
P026-SS014-0002-01

Tot Ion:	41	Resp:	1199
Ion	Ratio	Lower	Upper
41	100		
39	78.6	54.3	81.5
67	0.0	37.8	56.8#
52	0.0	58.2	87.4#

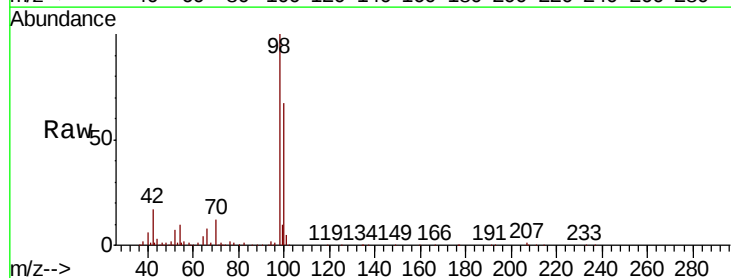


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

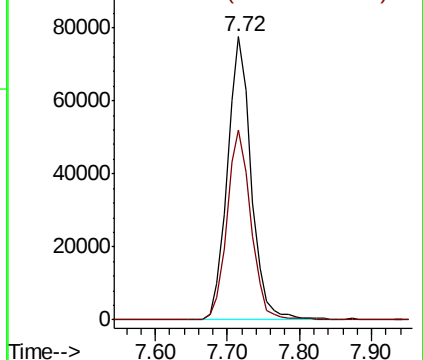
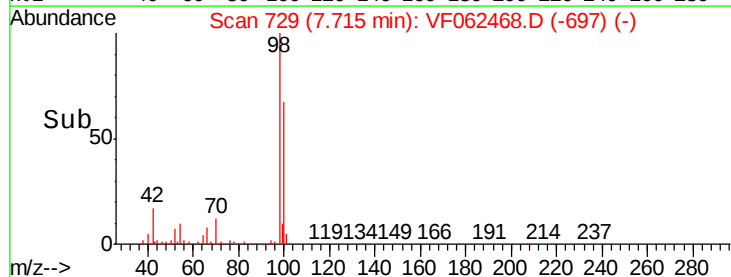


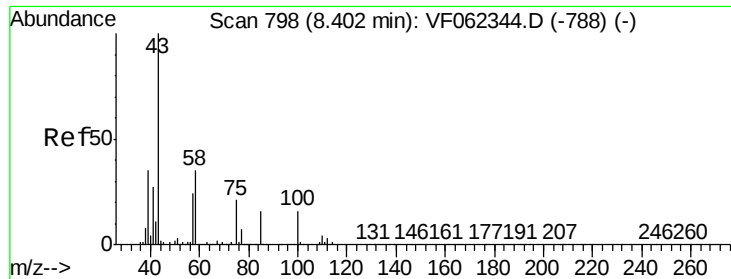
#50
Toluene-d8
Concen: 38.458 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.01 min
Lab File: VF062468.D
Acq: 11 May 2019 19:00

Tgt Ion:	98	Resp:	178496
Ion	Ratio	Lower	Upper
98	100		
100	67.1	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: 2.236 ug/l

RT: 8.43 min Scan# 802

Delta R.T. 0.03 min

Lab File: VF062468.D

Acq: 11 May 2019 19:00

Instrument :

MSVOA_F

ClientSampleId :

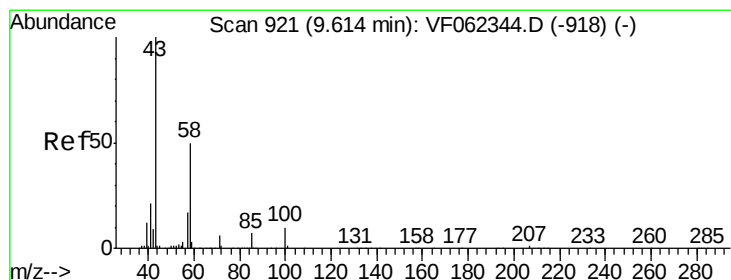
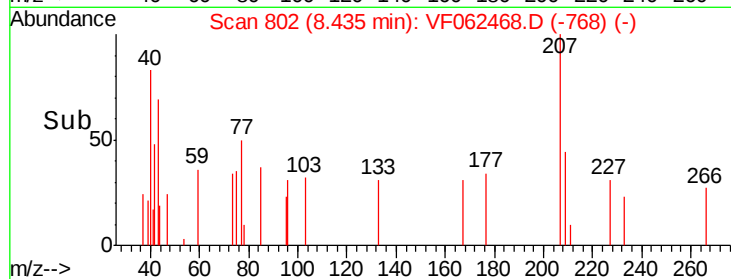
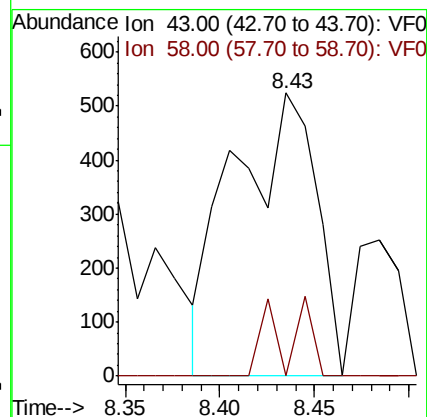
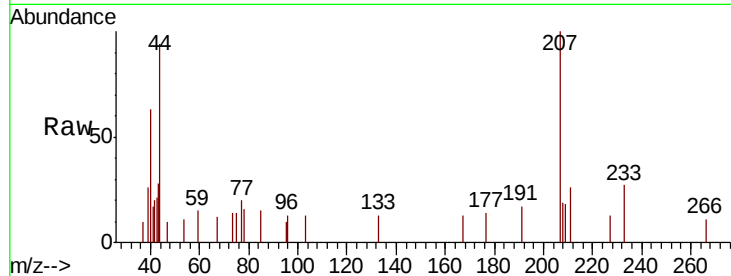
P026-SS014-0002-01

Tot Ion: 43 Resp: 1593

Ion Ratio Lower Upper

43 100

58 10.9 27.8 41.6#



#59

2-Hexanone

Concen: 1.583 ug/l

RT: 9.63 min Scan# 923

Delta R.T. 0.01 min

Lab File: VF062468.D

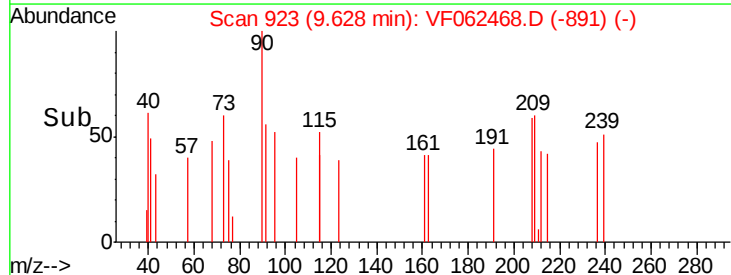
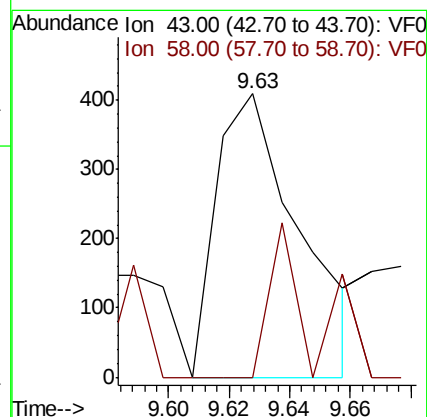
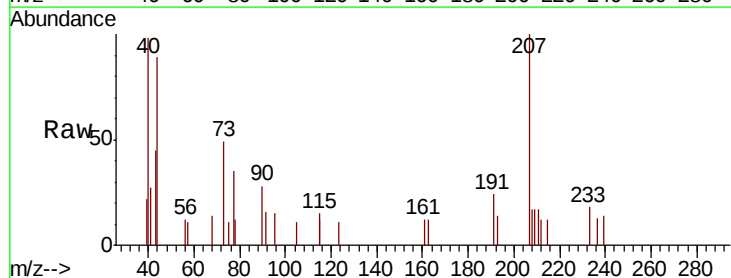
Acq: 11 May 2019 19:00

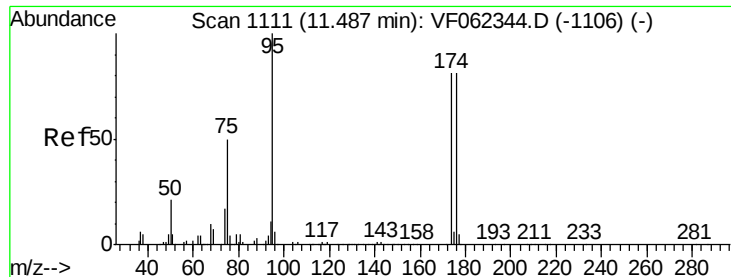
Tgt Ion: 43 Resp: 780

Ion Ratio Lower Upper

43 100

58 28.1 24.3 73.0





#62

4-Bromofluorobenzene

Concen: 39.532 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VF062468.D

Acq: 11 May 2019 19:00

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-0002-01

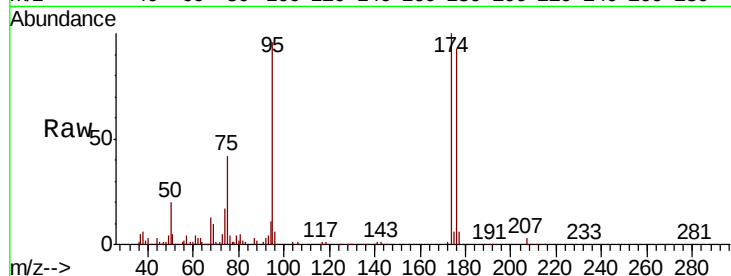
Tot Ion: 95 Resp: 82779

Ion Ratio Lower Upper

95 100

174 93.0 0.0 191.8

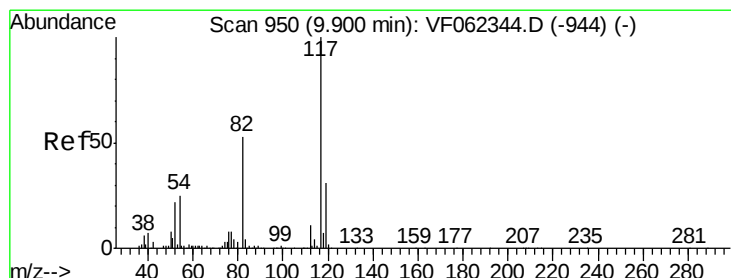
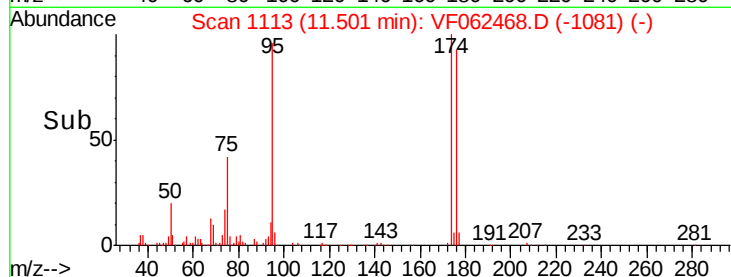
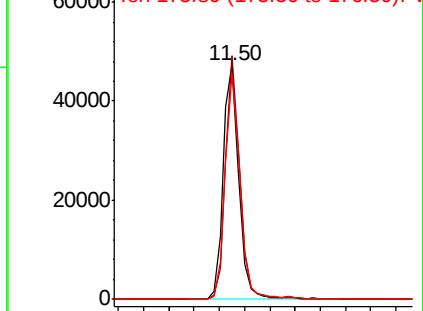
176 90.9 0.0 193.2



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: 9.91 min Scan# 952

Delta R.T. 0.01 min

Lab File: VF062468.D

Acq: 11 May 2019 19:00

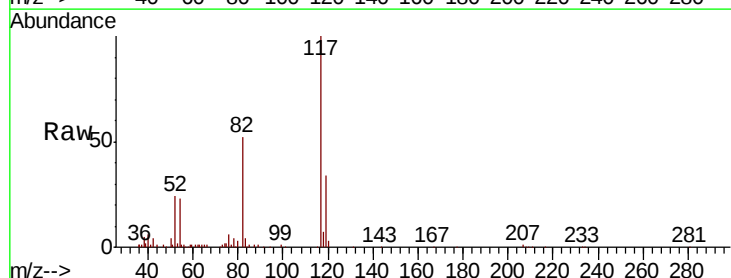
Tgt Ion: 117 Resp: 177958

Ion Ratio Lower Upper

117 100

82 52.2 42.2 63.2

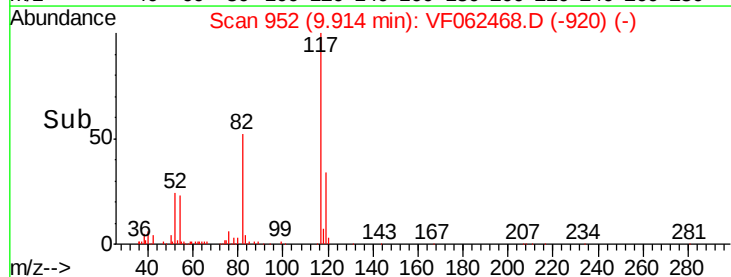
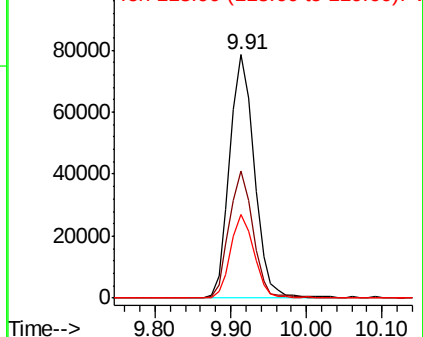
119 34.4 25.0 37.4

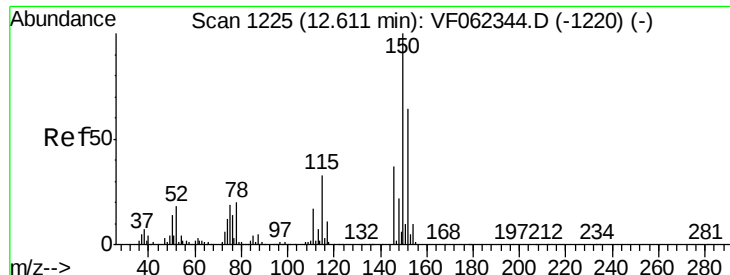


Abundance Ion 116.90 (116.60 to 117.60): V

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: VF062468.D

Acq: 11 May 2019 19:00

Instrument :

MSVOA_F

ClientSampleId :

P026-SS014-0002-01

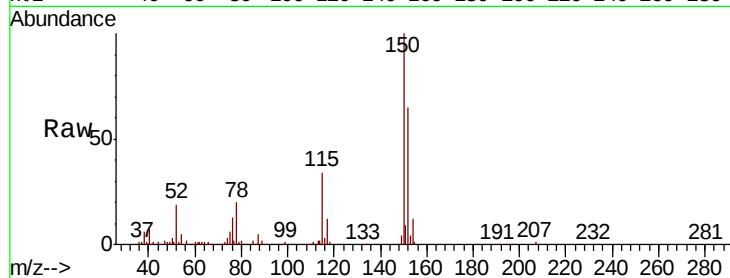
Tot Ion:152 Resp: 92524

Ion Ratio Lower Upper

152 100

115 53.1 26.4 79.2

150 152.8 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

