

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF051319\
 Data File : VF062548.D
 Acq On : 13 May 2019 18:15
 Operator : FY/SY
 Sample : K2734-07RE
 Misc : 5.87g/5mL/MSVOA F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 P026-SS012-0206-01RE

Quant Time: May 14 07:03:49 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	5.08	168	309437	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.80	114	371290	50.00	ug/l	0.03
63) Chlorobenzene-d5	9.93	117	222154	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	12.62	152	57045	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	137603	47.05	ug/l	0.03
Spiked Amount			Recovery	=	94.10%	
35) Dibromofluoromethane	4.33	113	161786	54.69	ug/l	0.03
Spiked Amount			Recovery	=	109.38%	
50) Toluene-d8	7.73	98	260921	36.44	ug/l	0.03
Spiked Amount			Recovery	=	72.88%	
62) 4-Bromofluorobenzene	11.51	95	66478	20.58	ug/l	0.02
Spiked Amount			Recovery	=	41.16%	

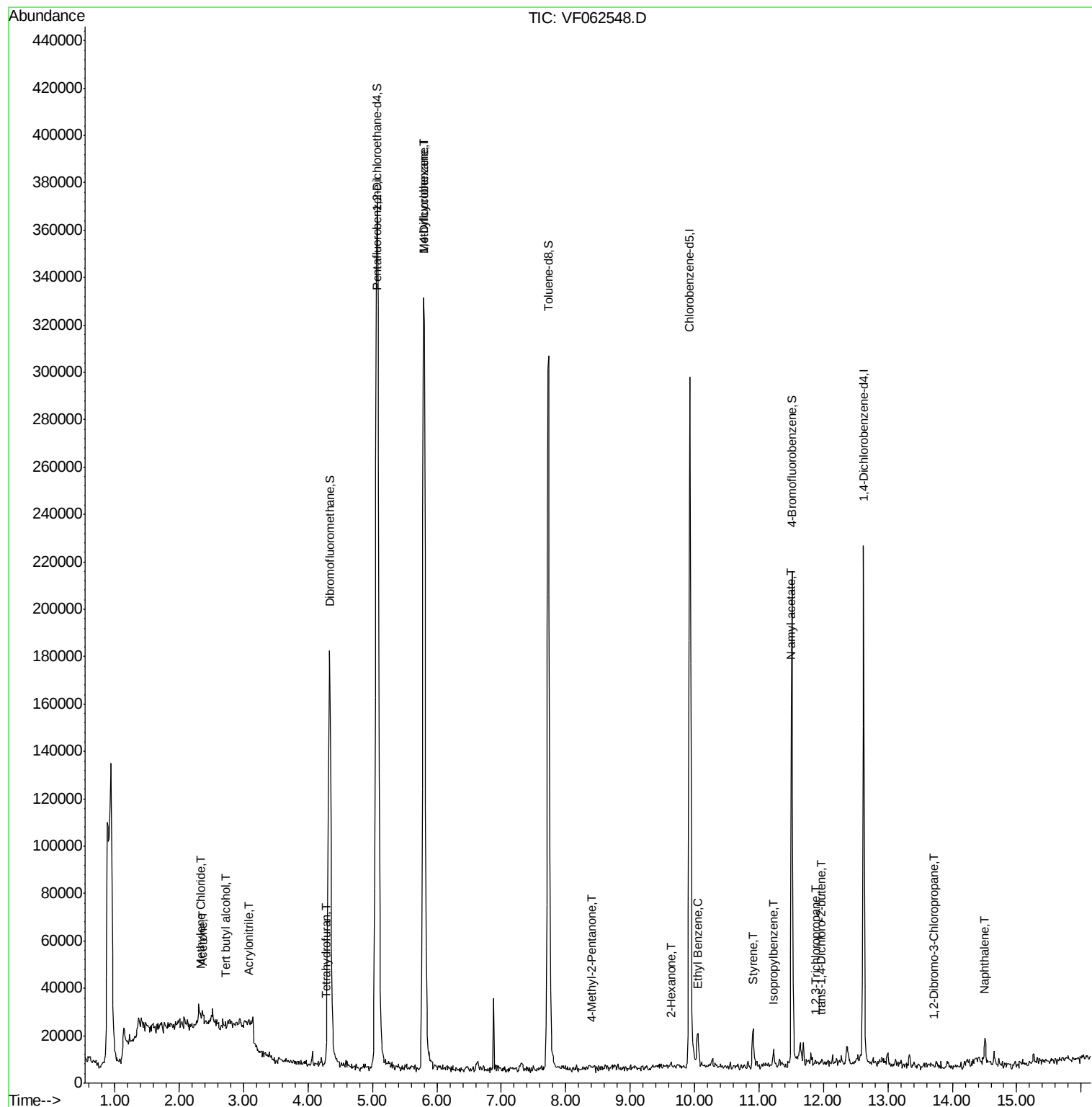
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.42	94	926	Below Cal	#	28
11) Tert butyl alcohol	2.71	59	1331	8.053	ug/l	97
13) Acrolein	2.15	56	559	Below Cal	#	1
15) Acrylonitrile	3.09	53	486	1.552	ug/l #	26
16) Acetone	2.36	43	2897	4.897	ug/l #	89
18) Methyl Acetate	2.51	43	2329	Below Cal	#	86
20) Methylene Chloride	2.33	84	3236	1.512	ug/l #	80
29) Tetrahydrofuran	4.27	42	546	1.598	ug/l #	49
37) Ethyl Acetate	4.32	43	852	Below Cal	#	94
38) Carbon Tetrachloride	4.16	117	75	Below Cal	#	49
39) Methylcyclohexane	5.80	83	6503	2.033	ug/l #	39
49) 1,4-Dioxane	7.11	88	62	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.41	43	1187	1.080	ug/l #	84
59) 2-Hexanone	9.63	43	1097	1.443	ug/l	70
67) Ethyl Benzene	10.05	91	11199	1.740	ug/l #	84
70) Styrene	10.91	104	7976	2.074	ug/l	98
73) Isopropylbenzene	11.23	105	3911	1.156	ug/l	91
74) N-amyl acetate	11.49	43	1499	2.065	ug/l #	69
76) 1,2,3-Trichloropropane	11.87	75	488	1.208	ug/l #	100
81) trans-1,4-Dichloro-2-buten	11.96	75	314	2.068	ug/l #	5
92) 1,2-Dibromo-3-Chloropropan	13.72	75	226	1.905	ug/l #	1
95) Naphthalene	14.51	128	2618	1.237	ug/l #	93

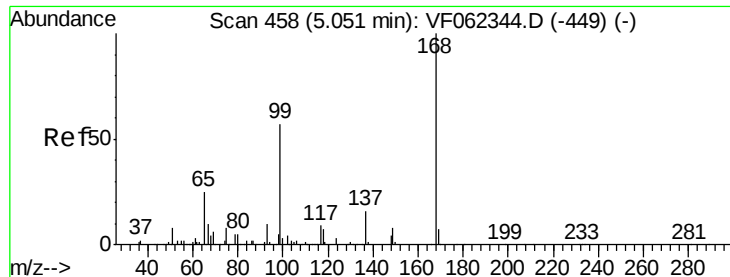
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.08 min Scan# 462

Delta R.T. 0.03 min

Lab File: VF062548.D

Acq: 13 May 2019 18:15

Instrument :

MSVOA_F

ClientSampleId :

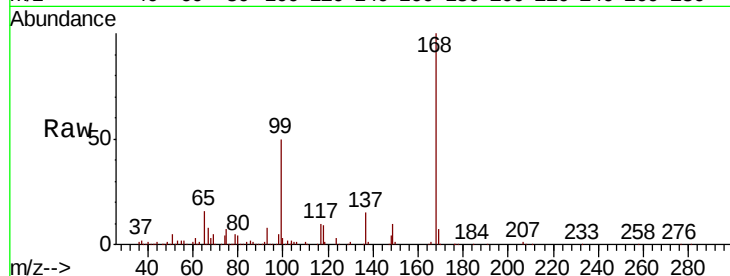
P026-SS012-0206-01RE

Tot Ion:168 Resp: 309437

Ion Ratio Lower Upper

168 100

99 50.2 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.08

120000

100000

80000

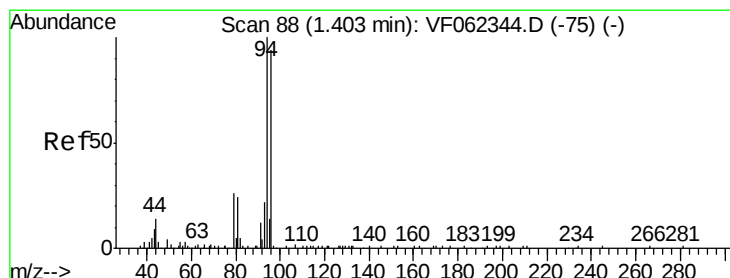
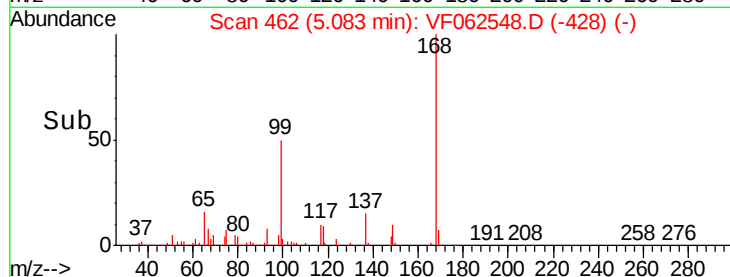
60000

40000

20000

0

Time--> 4.90 5.00 5.10 5.20 5.30



#5

Bromomethane

Concen: Below Cal

RT: 1.42 min Scan# 90

Delta R.T. 0.01 min

Lab File: VF062548.D

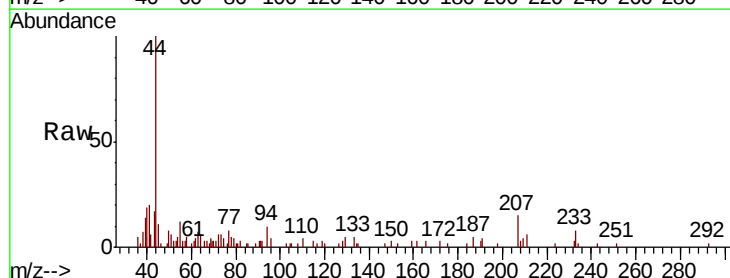
Acq: 13 May 2019 18:15

Tgt Ion: 94 Resp: 926

Ion Ratio Lower Upper

94 100

96 24.9 75.4 113.2#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.42

600

500

400

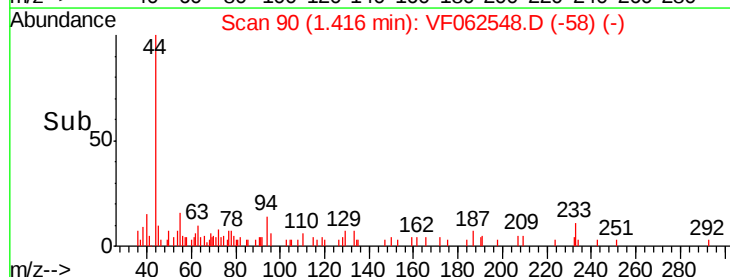
300

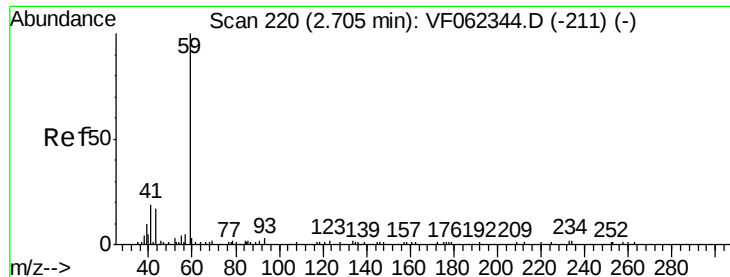
200

100

0

Time--> 1.35 1.40 1.45

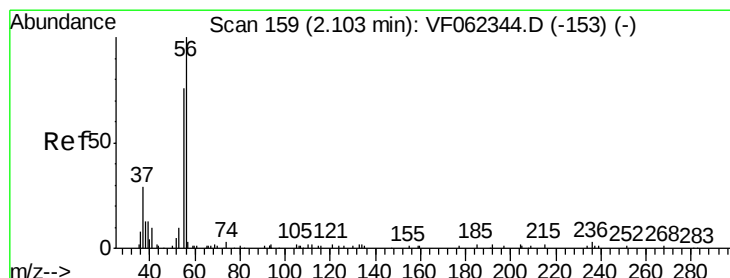
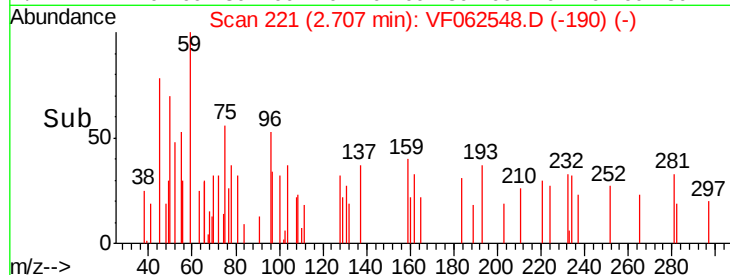
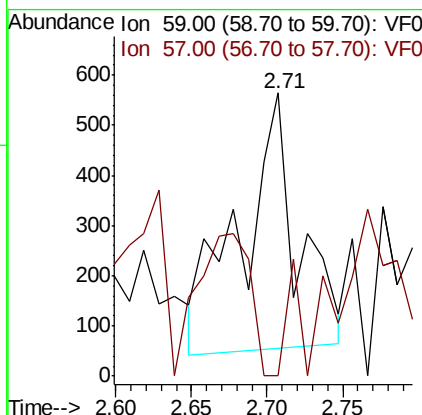
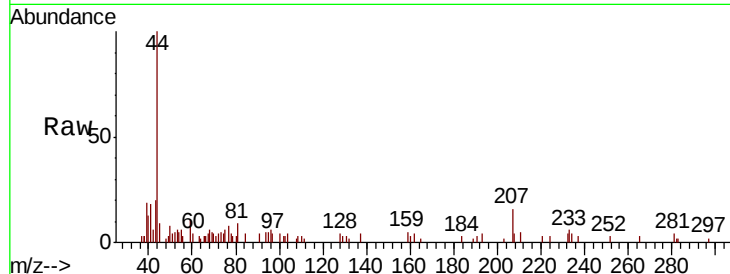




#11
Tert butyl alcohol
Concen: 8.053 ug/l
RT: 2.71 min Scan# 221
Delta R.T. 0.00 min
Lab File: VF062548.D
Acq: 13 May 2019 18:15

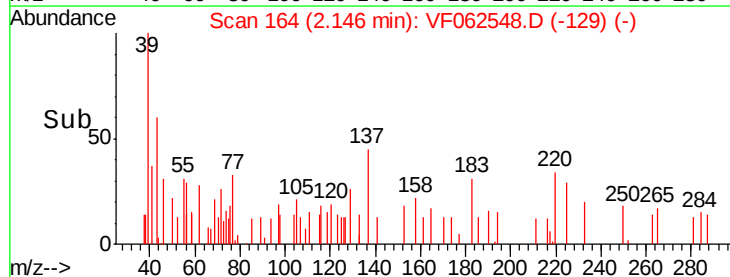
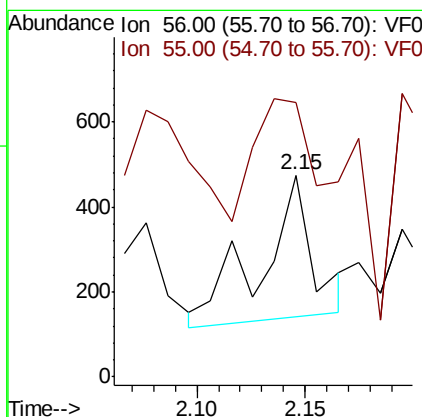
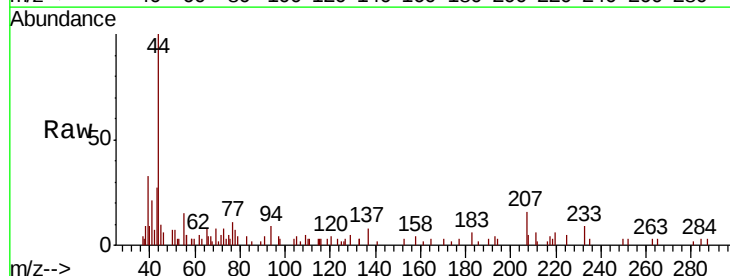
Instrument :
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ClientSampleId :
P026-SS012-0206-01RE

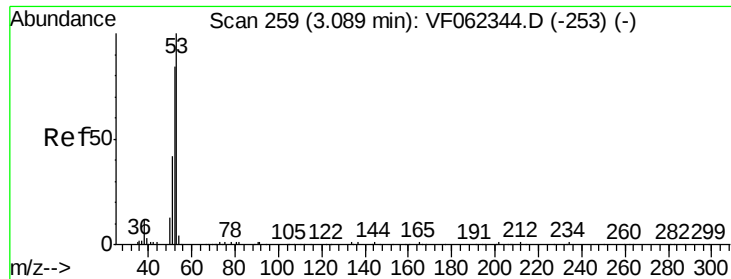
Tot Ion: 59 Resp: 1331
Ion Ratio Lower Upper
59 100
57 10.3 9.3 13.9



#13
Acrolein
Concen: Below Cal
RT: 2.15 min Scan# 164
Delta R.T. 0.04 min
Lab File: VF062548.D
Acq: 13 May 2019 18:15

Tgt Ion: 56 Resp: 559
Ion Ratio Lower Upper
56 100
55 266.0 58.4 87.6#





#15

Acrylonitrile

Concen: 1.552 ug/l

RT: 3.09 min Scan# 260

Delta R.T. 0.00 min

Lab File: VF062548.D

Acq: 13 May 2019 18:15

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-0206-01RE

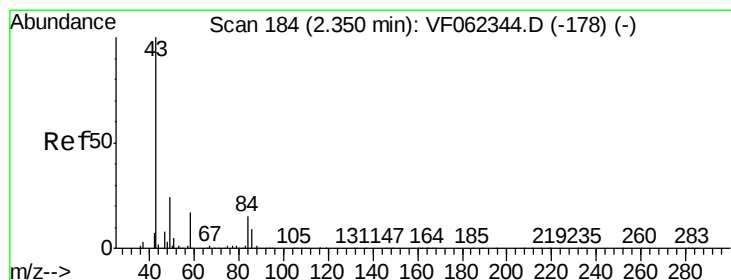
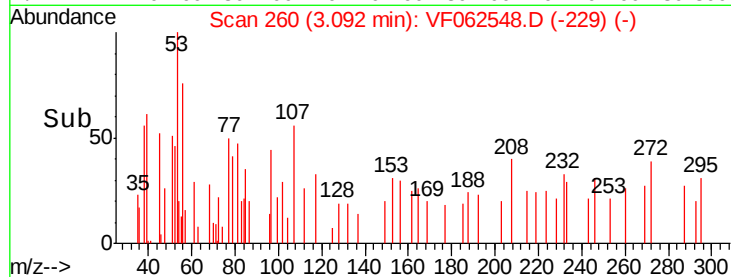
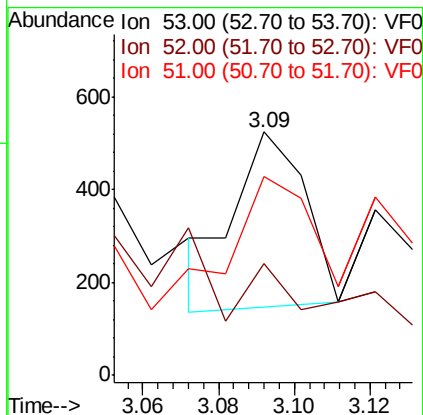
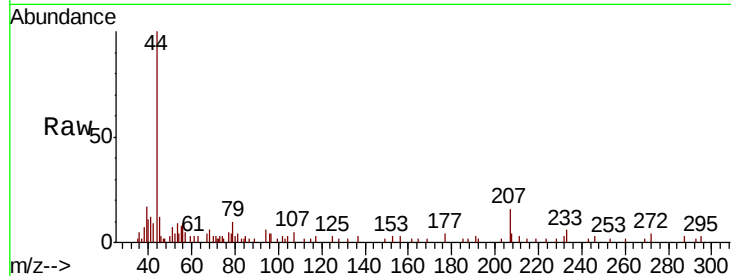
Tot Ion: 53 Resp: 486

Ion Ratio Lower Upper

53 100

52 178.2 77.2 115.8#

51 89.7 40.6 61.0#



#16

Acetone

Concen: 4.897 ug/l

RT: 2.36 min Scan# 186

Delta R.T. 0.01 min

Lab File: VF062548.D

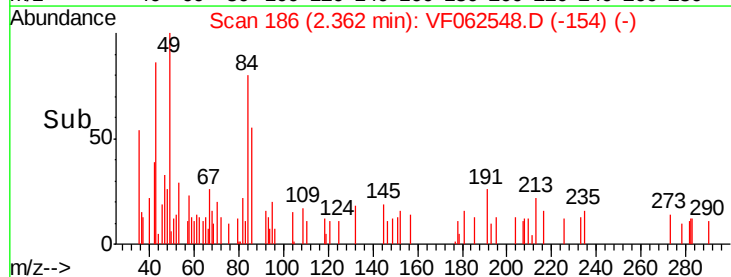
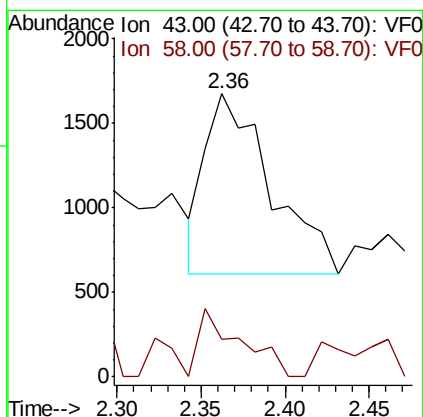
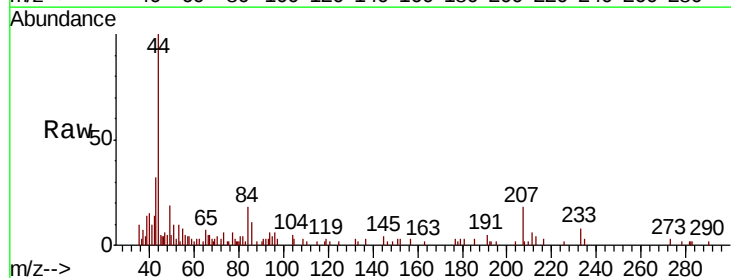
Acq: 13 May 2019 18:15

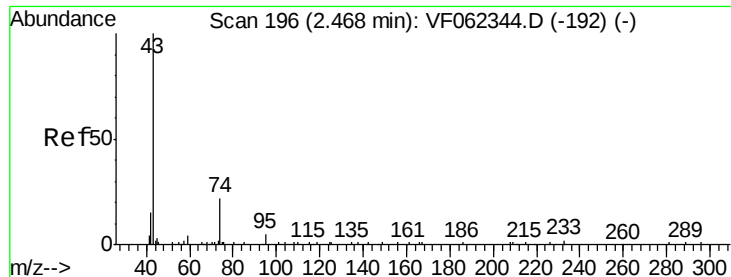
Tgt Ion: 43 Resp: 2897

Ion Ratio Lower Upper

43 100

58 21.2 13.1 19.7#

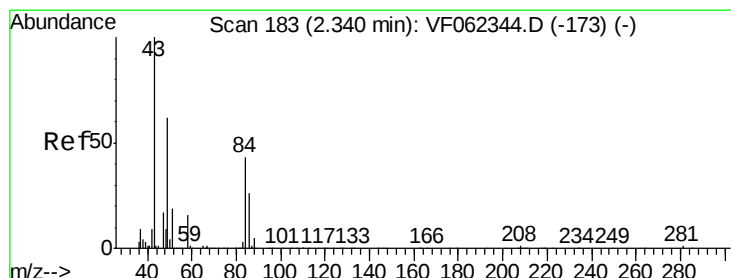
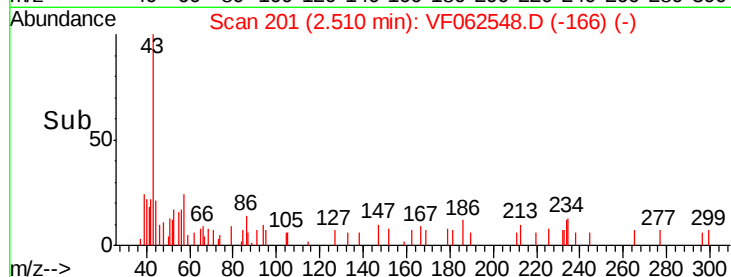
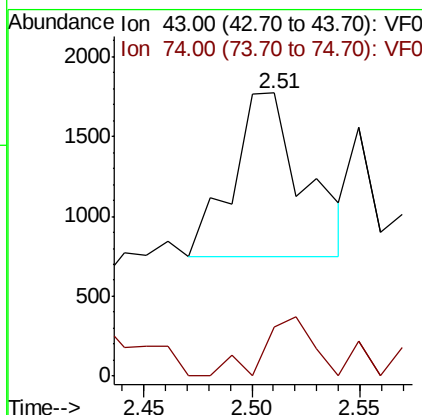
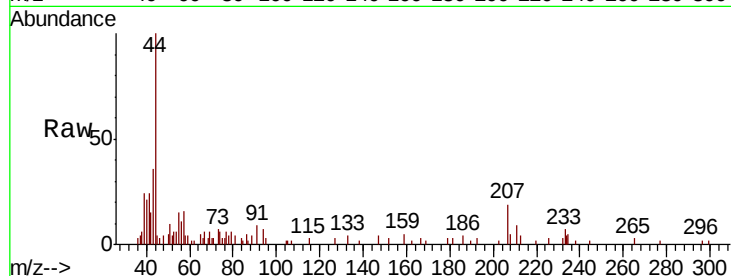




#18
Methyl Acetate
Concen: Below Cal
RT: 2.51 min Scan# 201
Delta R.T. 0.04 min
Lab File: VF062548.D
Acq: 13 May 2019 18:15

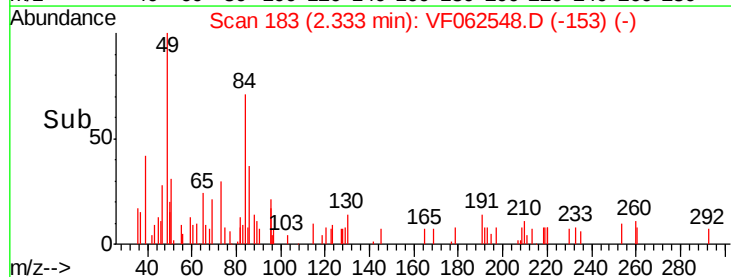
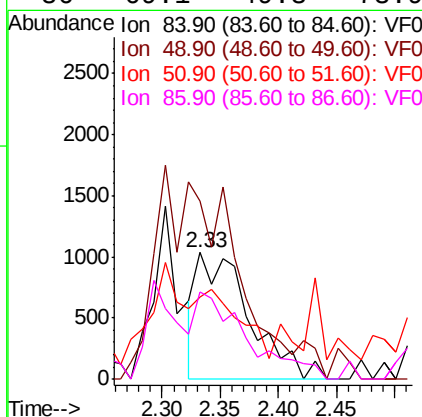
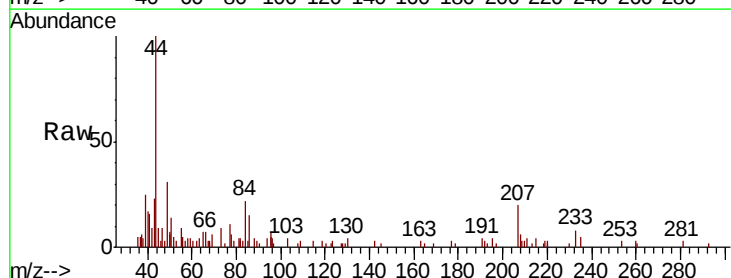
Instrument :
MSVOA_F
ClientSampleId :
P026-SS012-0206-01RE

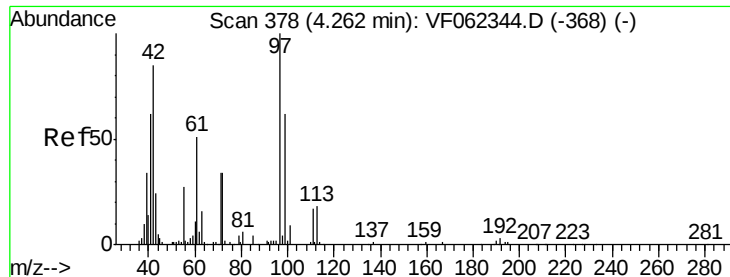
Tot Ion: 43 Resp: 2329
Ion Ratio Lower Upper
43 100
74 24.8 15.0 22.4#



#20
Methylene Chloride
Concen: 1.512 ug/l
RT: 2.33 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF062548.D
Acq: 13 May 2019 18:15

Tgt Ion: 84 Resp: 3236
Ion Ratio Lower Upper
84 100
49 116.0 117.5 176.3#
51 32.3 37.0 55.4#
86 69.1 49.3 73.9





#29

Tetrahydrofuran

Concen: 1.598 ug/l

RT: 4.27 min Scan# 380

Delta R.T. 0.01 min

Lab File: VF062548.D

Acq: 13 May 2019 18:15

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-0206-01RE

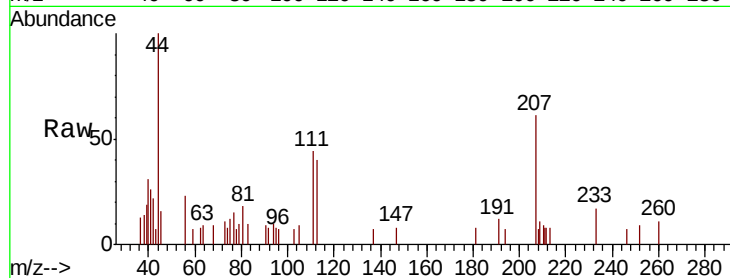
Tot Ion: 42 Resp: 546

Ion Ratio Lower Upper

42 100

72 16.8 31.4 47.0#

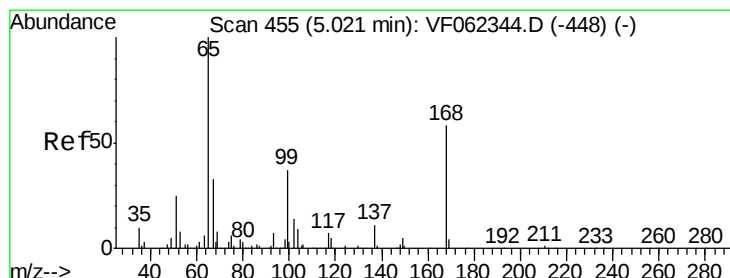
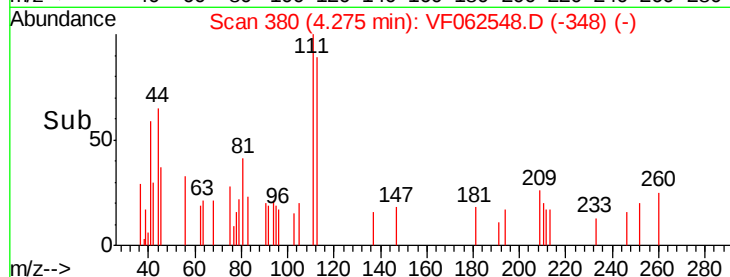
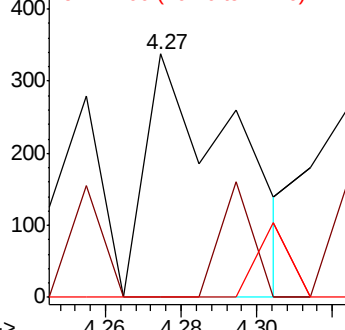
71 0.0 31.7 47.5#



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: 47.055 ug/l

RT: 5.05 min Scan# 459

Delta R.T. 0.03 min

Lab File: VF062548.D

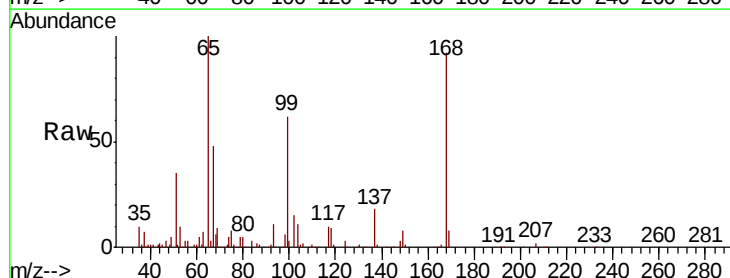
Acq: 13 May 2019 18:15

Tgt Ion: 65 Resp: 137603

Ion Ratio Lower Upper

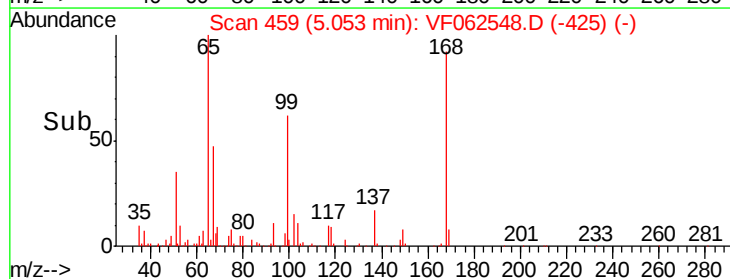
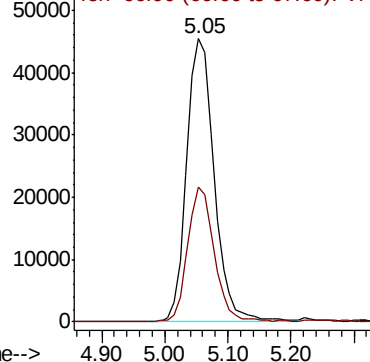
65 100

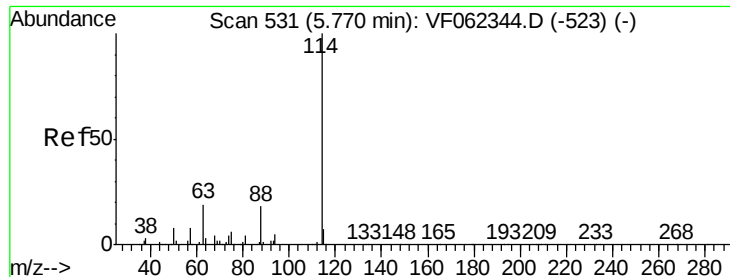
67 46.2 0.0 85.8



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: 5.80 min Scan# 535

Delta R.T. 0.03 min

Lab File: VF062548.D

Acq: 13 May 2019 18:15

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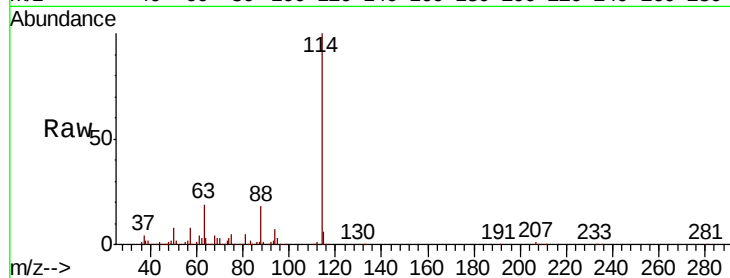
Tot Ion:114 Resp: 371290

Ion Ratio Lower Upper

114 100

63 18.7 0.0 37.4

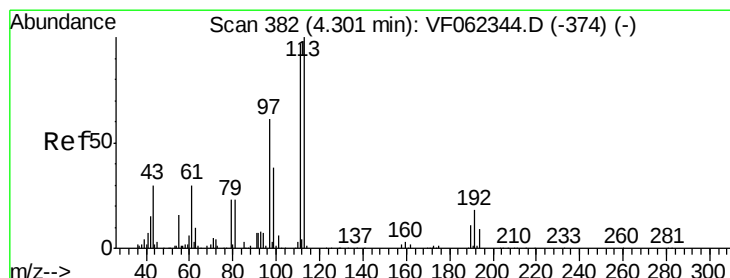
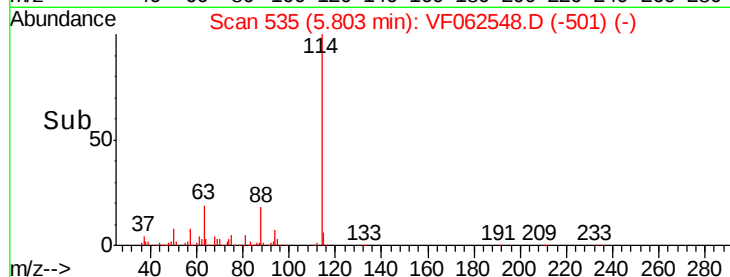
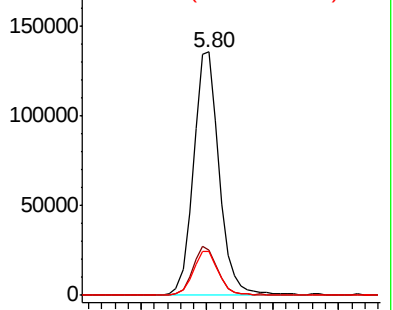
88 17.9 0.0 36.4



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: 54.694 ug/l

RT: 4.33 min Scan# 386

Delta R.T. 0.03 min

Lab File: VF062548.D

Acq: 13 May 2019 18:15

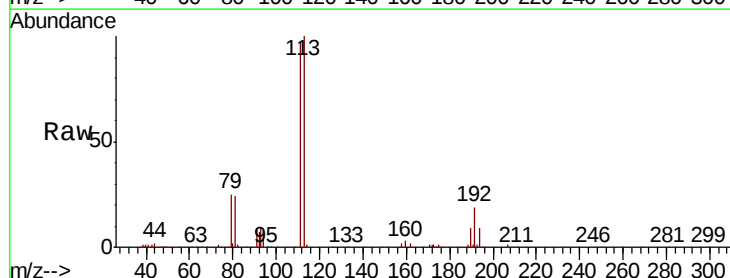
Tgt Ion:113 Resp: 161786

Ion Ratio Lower Upper

113 100

111 100.2 79.4 119.0

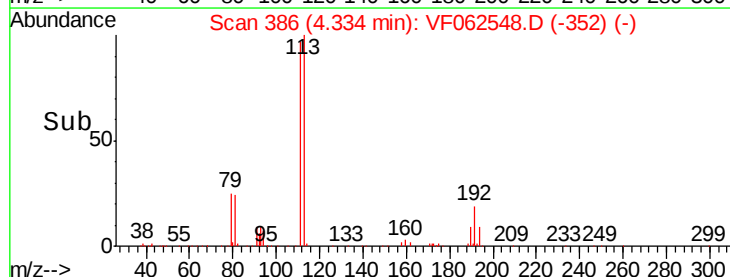
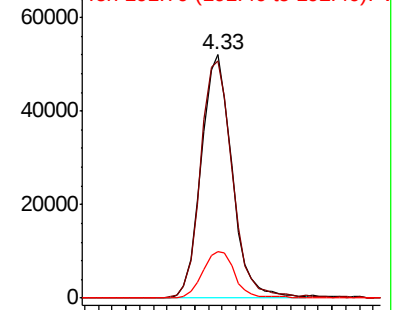
192 20.1 16.0 24.0

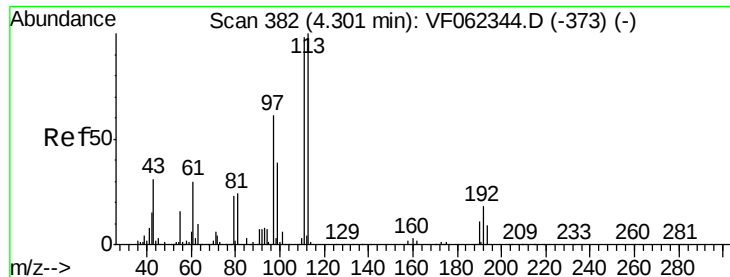


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

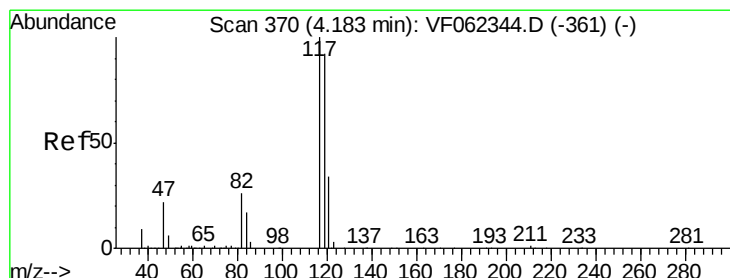
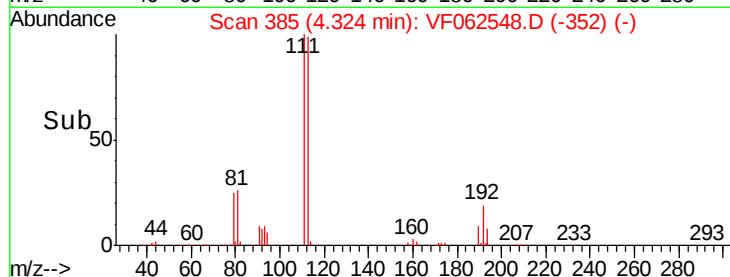
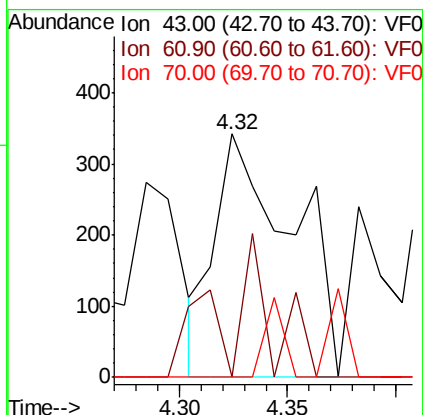
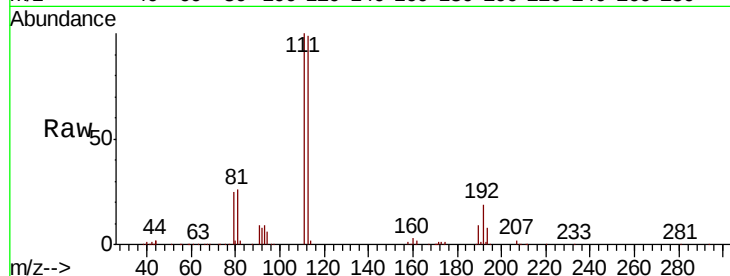




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.32 min Scan# 385
Delta R.T. 0.02 min
Lab File: VF062548.D
Acq: 13 May 2019 18:15

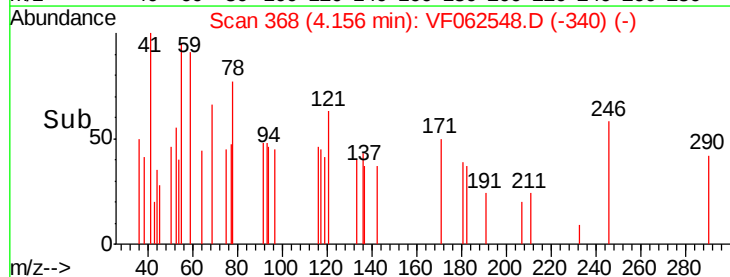
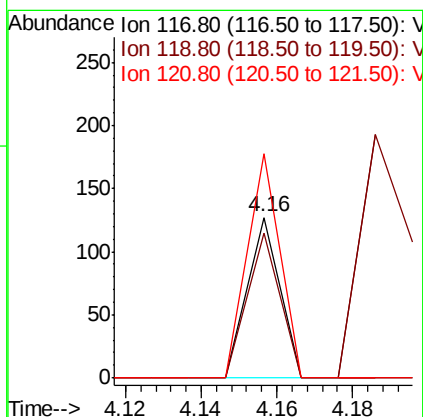
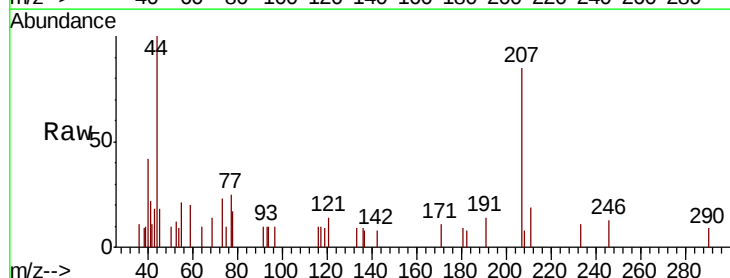
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MSVOA_F
ClientSampleId :
P026-SS012-0206-01RE

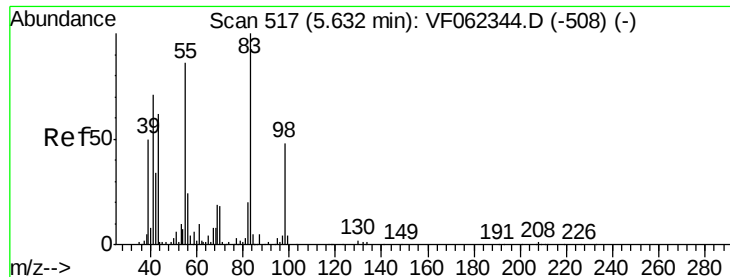
Tot Ion: 43 Resp: 852
Ion Ratio Lower Upper
43 100
61 22.3 0.0 0.0#
70 7.9 8.2 12.2#



#38
Carbon Tetrachloride
Concen: Below Cal
RT: 4.16 min Scan# 368
Delta R.T. -0.03 min
Lab File: VF062548.D
Acq: 13 May 2019 18:15

Tgt Ion: 117 Resp: 75
Ion Ratio Lower Upper
117 100
119 90.6 73.4 110.2
121 140.2 27.4 41.0#





#39

Methylcyclohexane

Concen: 2.033 ug/l

RT: 5.80 min Scan# 535

Delta R.T. 0.17 min

Lab File: VF062548.D

Acq: 13 May 2019 18:15

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-0206-01RE

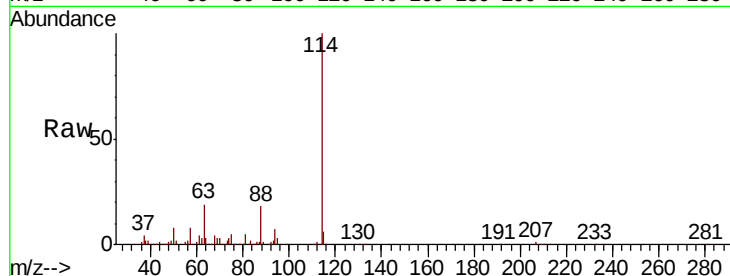
Tot Ion: 83 Resp: 6503

Ion Ratio Lower Upper

83 100

55 36.0 69.0 103.6#

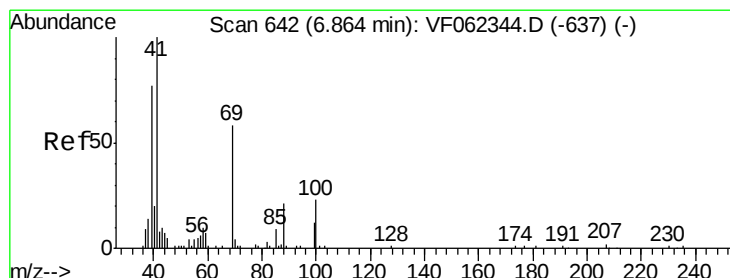
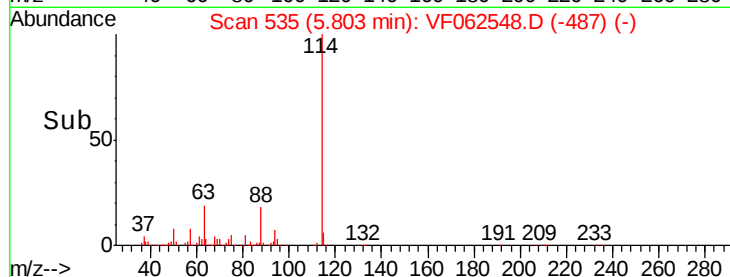
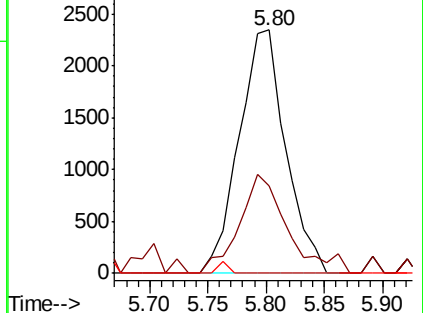
98 0.0 38.6 58.0#



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: Below Cal

RT: 7.11 min Scan# 668

Delta R.T. 0.25 min

Lab File: VF062548.D

Acq: 13 May 2019 18:15

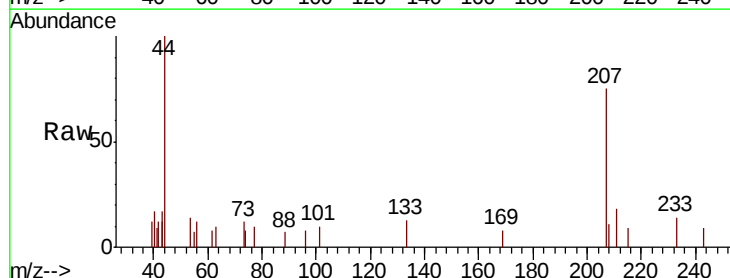
Tgt Ion: 88 Resp: 62

Ion Ratio Lower Upper

88 100

43 380.6 55.6 83.4#

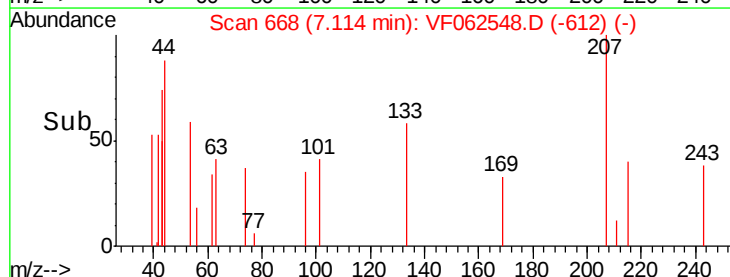
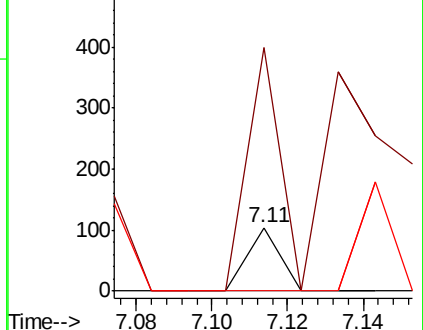
58 0.0 52.8 79.2#

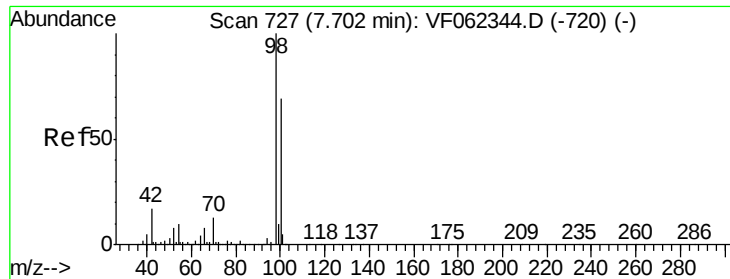


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 36.440 ug/l

RT: 7.73 min Scan# 731

Delta R.T. 0.03 min

Lab File: VF062548.D

Acq: 13 May 2019 18:15

Instrument :

MSVOA_F

ClientSampleId :

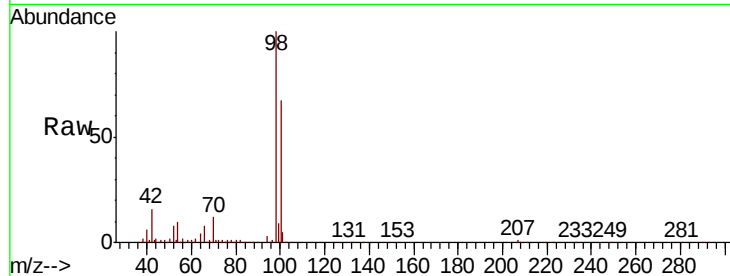
P026-SS012-0206-01RE

Tot Ion: 98 Resp: 260921

Ion Ratio Lower Upper

98 100

100 66.1 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

7.73

120000

100000

80000

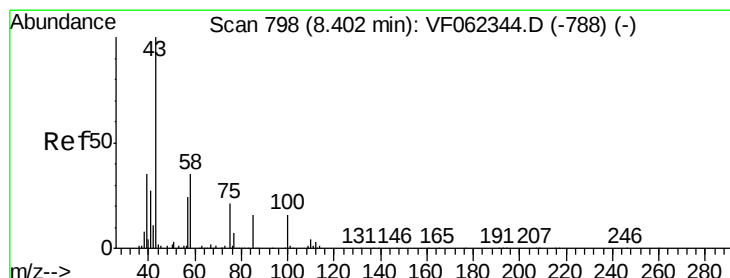
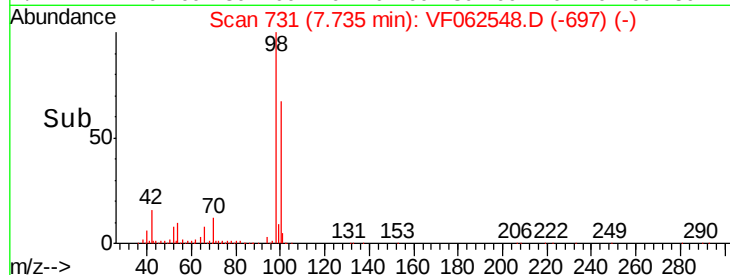
60000

40000

20000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.080 ug/l

RT: 8.41 min Scan# 800

Delta R.T. 0.01 min

Lab File: VF062548.D

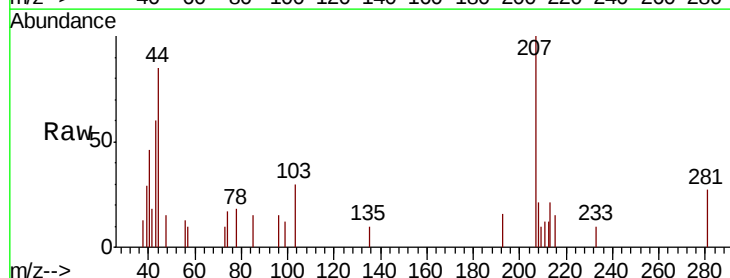
Acq: 13 May 2019 18:15

Tgt Ion: 43 Resp: 1187

Ion Ratio Lower Upper

43 100

58 25.2 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.41

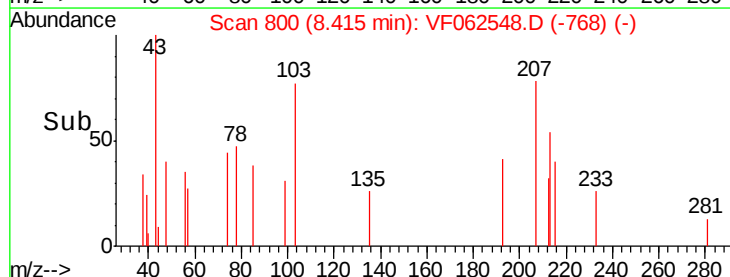
600

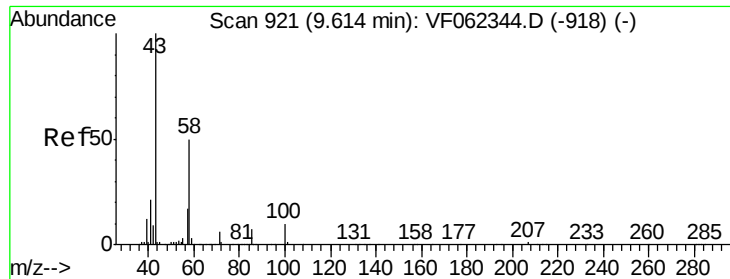
400

200

0

Time-->

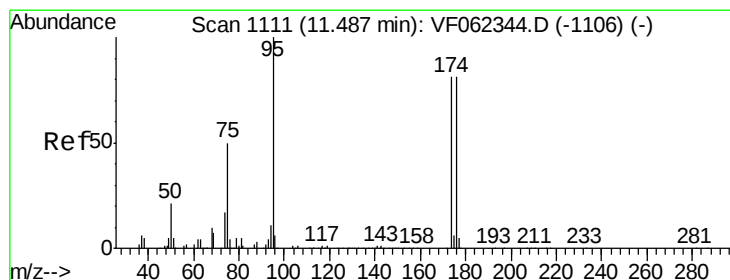
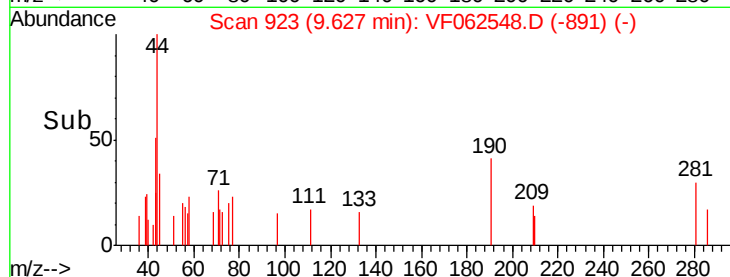
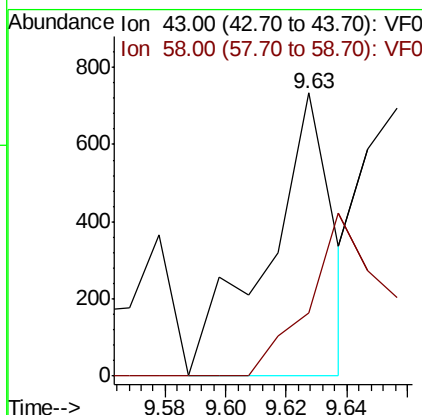
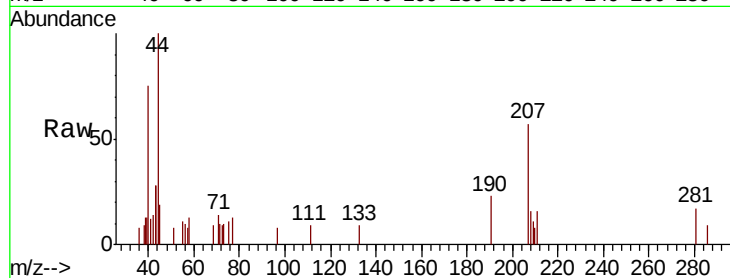




#59
2-Hexanone
Concen: 1.443 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.01 min
Lab File: VF062548.D
Acq: 13 May 2019 18:15

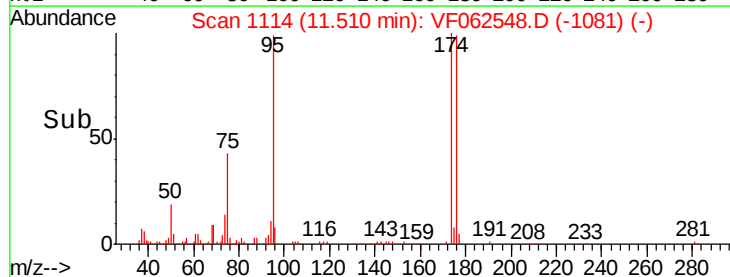
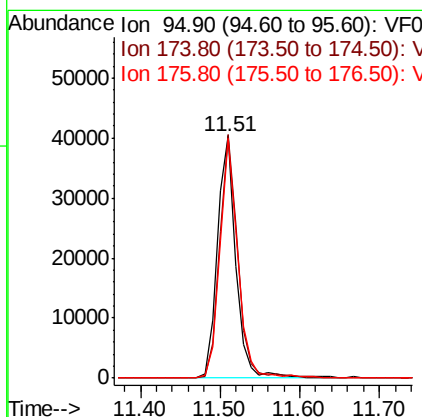
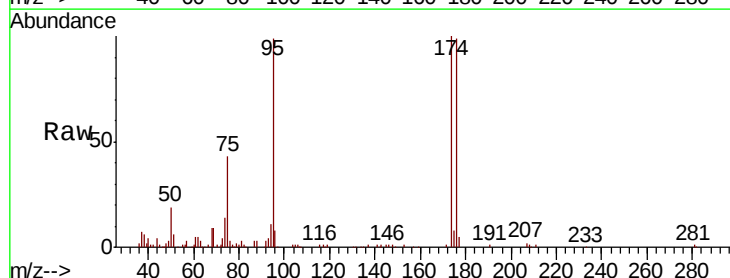
Instrument :
MSVOA_F
ClientSampleId :
P026-SS012-0206-01RE

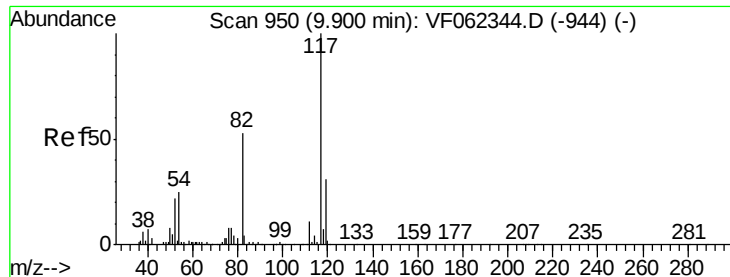
Tot Ion: 43 Resp: 1097
Ion Ratio Lower Upper
43 100
58 69.4 24.3 73.0



#62
4-Bromofluorobenzene
Concen: 20.578 ug/l
RT: 11.51 min Scan# 1114
Delta R.T. 0.02 min
Lab File: VF062548.D
Acq: 13 May 2019 18:15

Tgt Ion: 95 Resp: 66478
Ion Ratio Lower Upper
95 100
174 98.8 0.0 191.8
176 96.2 0.0 193.2

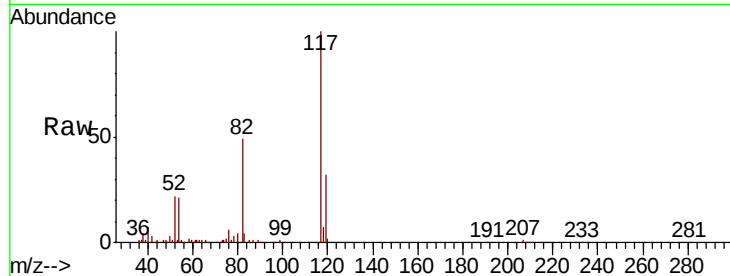




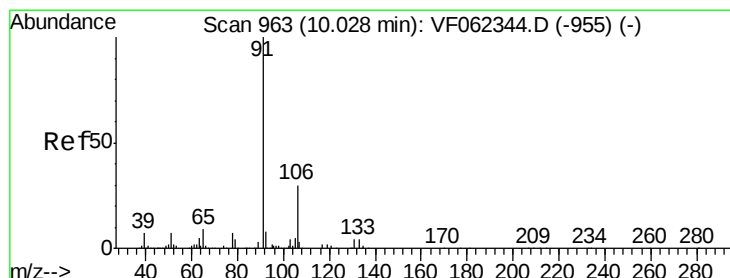
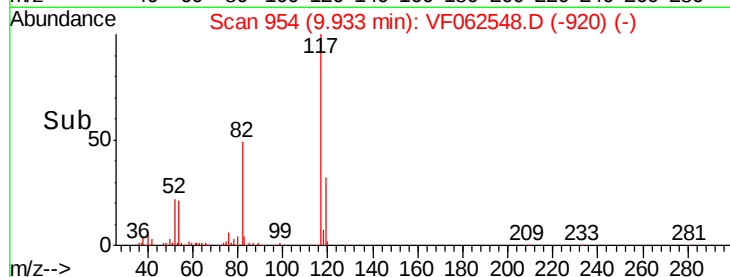
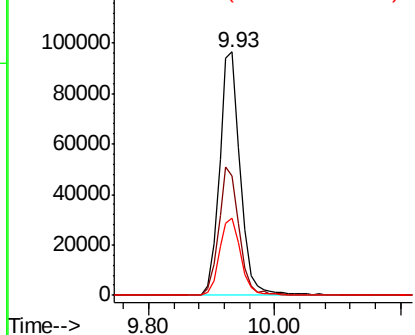
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.93 min Scan# 954
Delta R.T. 0.03 min
Lab File: VF062548.D
Acq: 13 May 2019 18:15

Instrument :
MSVOA_F
ClientSampleId :
P026-SS012-0206-01RE

Tot Ion:117 Resp: 222154
Ion Ratio Lower Upper
117 100
82 49.2 42.2 63.2
119 31.7 25.0 37.4

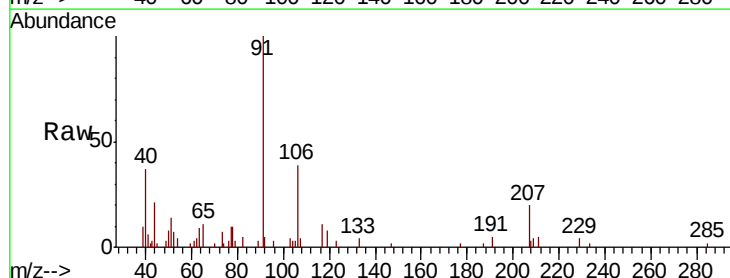


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 118.90 (118.60 to 119.60): V

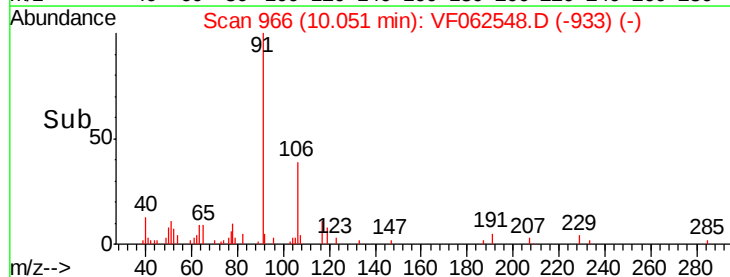
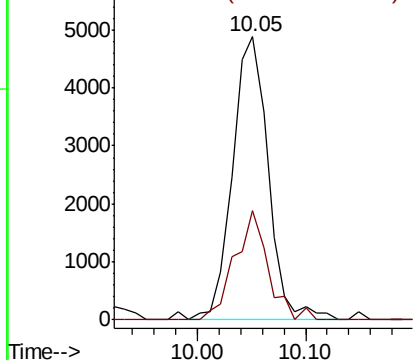


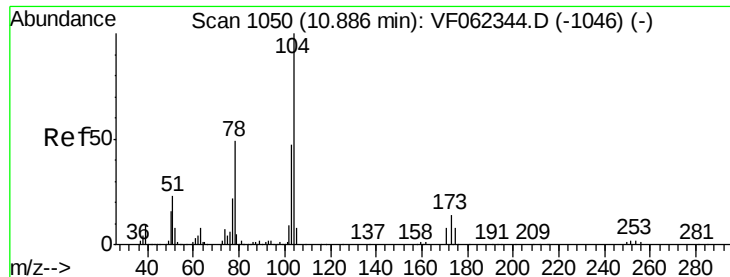
#67
Ethyl Benzene
Concen: 1.740 ug/l
RT: 10.05 min Scan# 966
Delta R.T. 0.02 min
Lab File: VF062548.D
Acq: 13 May 2019 18:15

Tgt Ion: 91 Resp: 11199
Ion Ratio Lower Upper
91 100
106 38.8 24.1 36.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 106.00 (105.70 to 106.70): V





#70

Stvrene

Concen: 2.074 ug/l

RT: 10.91 min Scan# 1053

Delta R.T. 0.02 min

Lab File: VF062548.D

Acq: 13 May 2019 18:15

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-0206-01RE

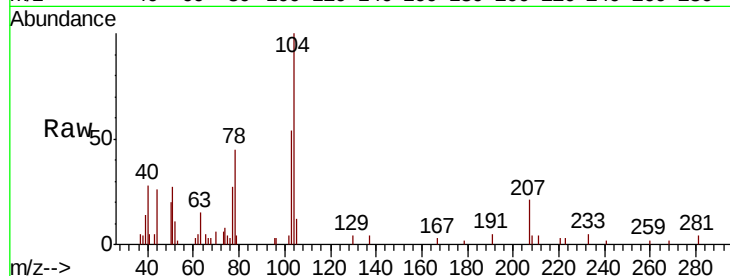
Tot Ion:104 Resp: 7976

Ion Ratio Lower Upper

104 100

78 47.9 39.5 59.3

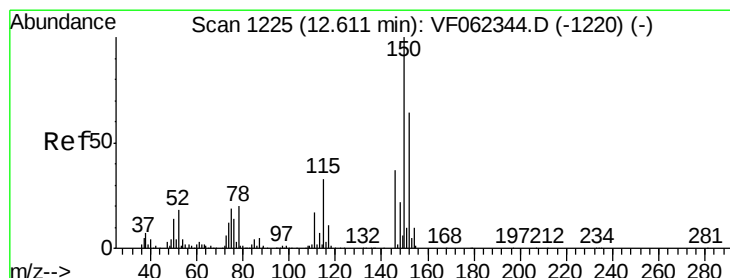
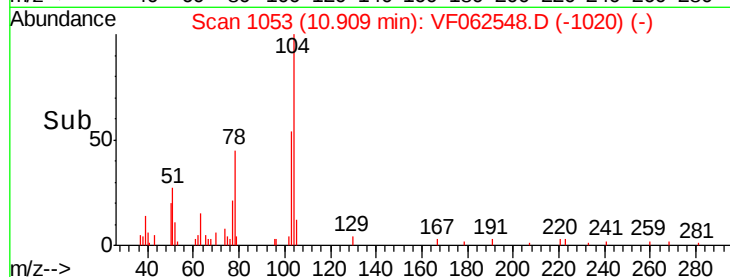
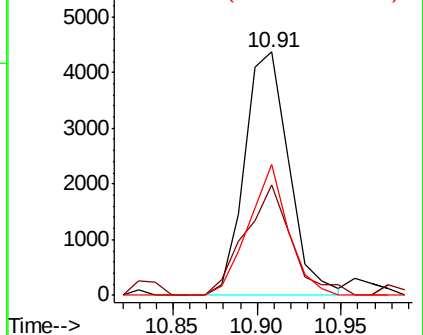
103 48.6 38.4 57.6



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): 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: VF062548.D

Acq: 13 May 2019 18:15

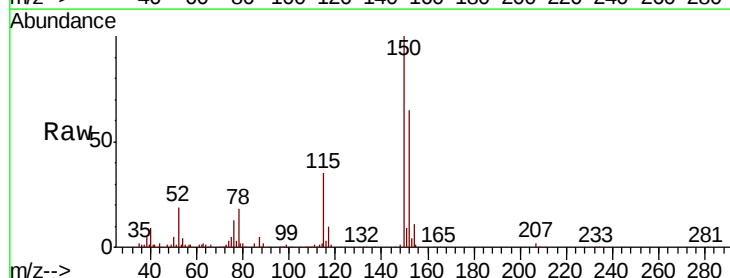
Tgt Ion:152 Resp: 57045

Ion Ratio Lower Upper

152 100

115 54.7 26.4 79.2

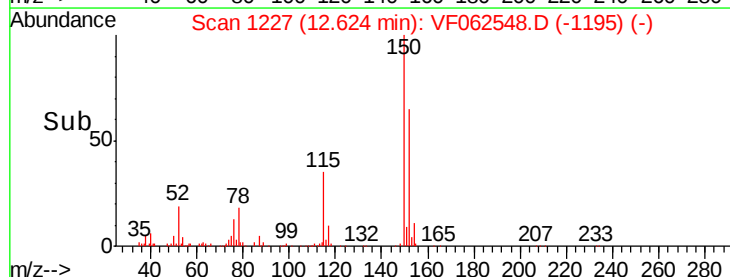
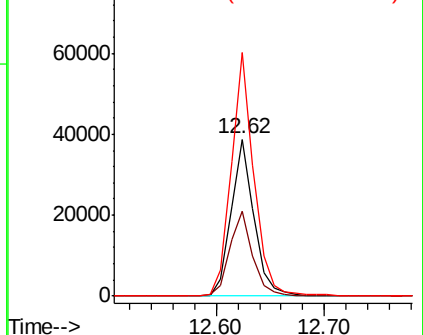
150 154.1 0.0 335.0

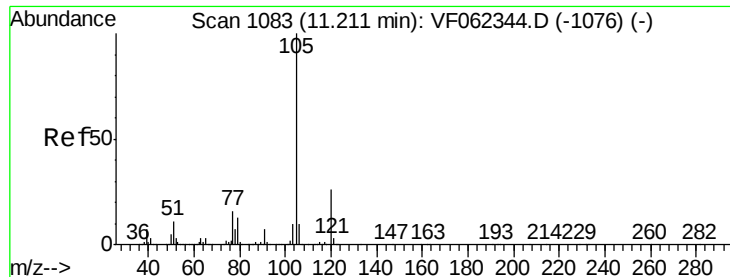


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 1.156 ug/l

RT: 11.23 min Scan# 1086

Delta R.T. 0.02 min

Lab File: VF062548.D

Acq: 13 May 2019 18:15

Instrument :

MSVOA_F

ClientSampleId :

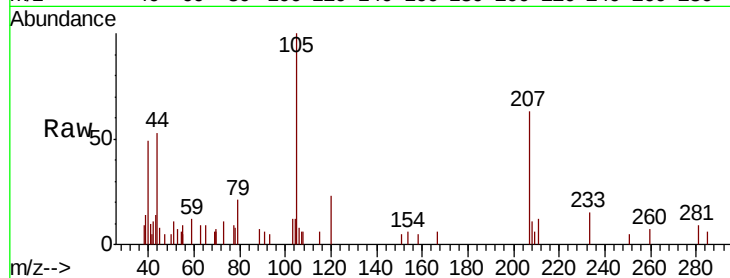
P026-SS012-0206-01RE

Tot Ion:105 Resp: 3911

Ion Ratio Lower Upper

105 100

120 29.8 12.7 38.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.23

2000

1500

1000

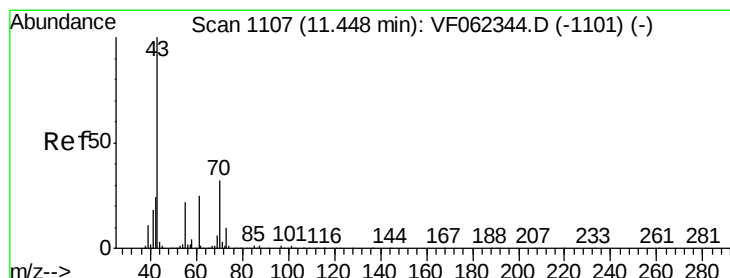
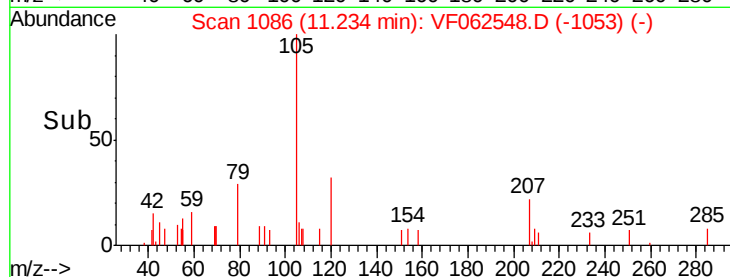
500

0

11.20

11.30

Time-->



#74

N-ethyl acetate

Concen: 2.065 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. 0.04 min

Lab File: VF062548.D

Acq: 13 May 2019 18:15

Tgt Ion: 43 Resp: 1499

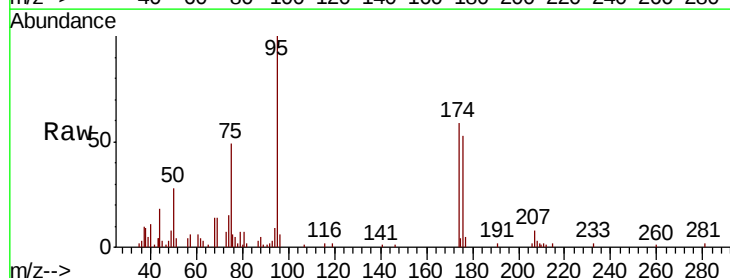
Ion Ratio Lower Upper

43 100

70 36.5 26.5 39.7

55 0.0 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

11.49

2500

2000

1500

1000

500

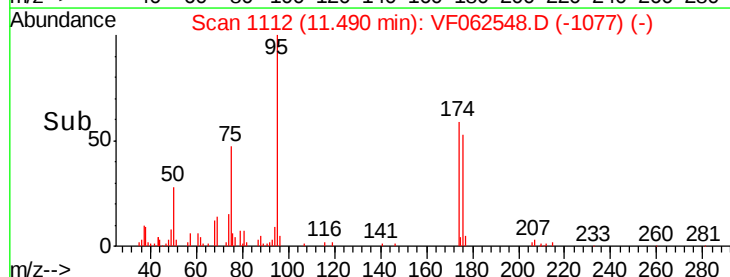
0

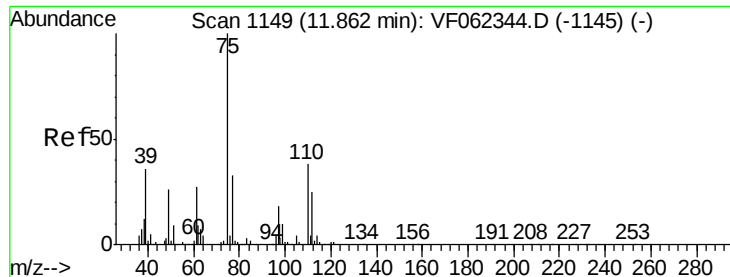
11.40

11.45

11.50

Time-->





#76

1,2,3-Trichloropropane

Concen: 1.208 ug/l

RT: 11.87 min Scan# 1151

Delta R.T. 0.01 min

Lab File: VF062548.D

Acq: 13 May 2019 18:15

Instrument :

MSVOA_F

ClientSampleId :

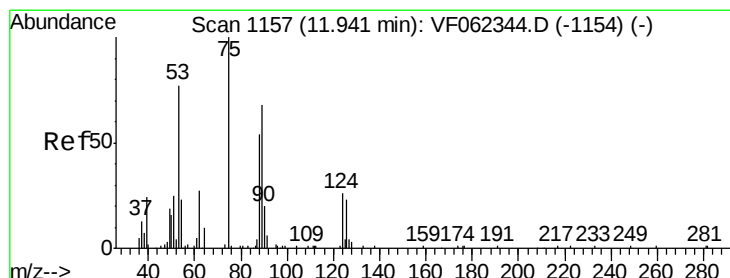
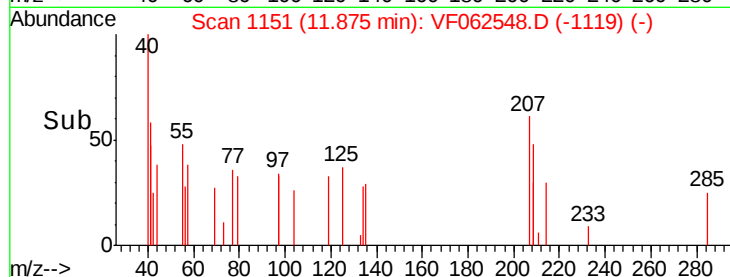
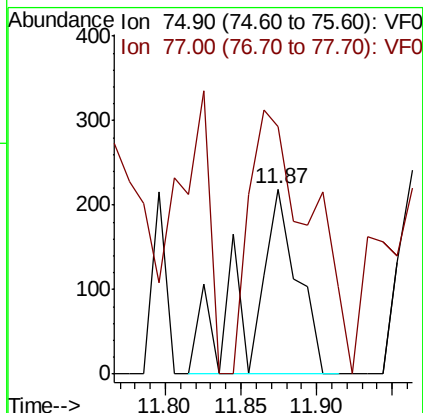
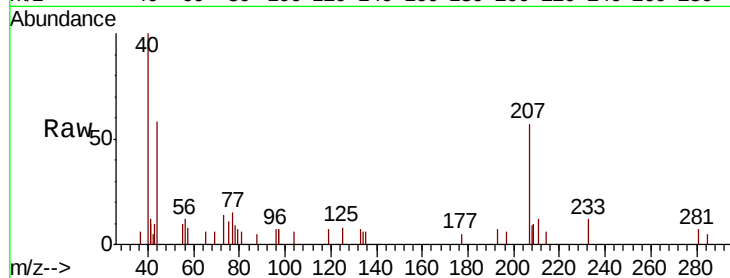
P026-SS012-0206-01RE

Tot Ion: 75 Resp: 488

Ion Ratio Lower Upper

75 100

77 181.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 2.068 ug/l

RT: 11.96 min Scan# 1160

Delta R.T. 0.02 min

Lab File: VF062548.D

Acq: 13 May 2019 18:15

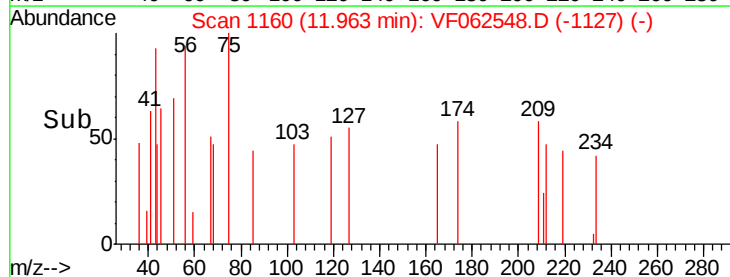
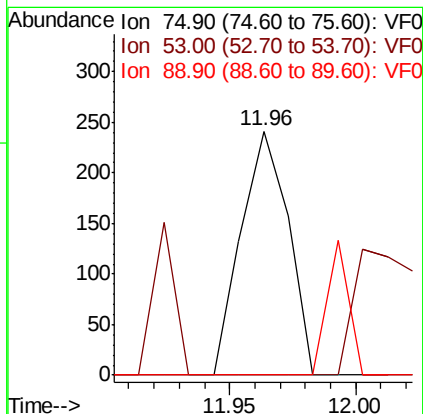
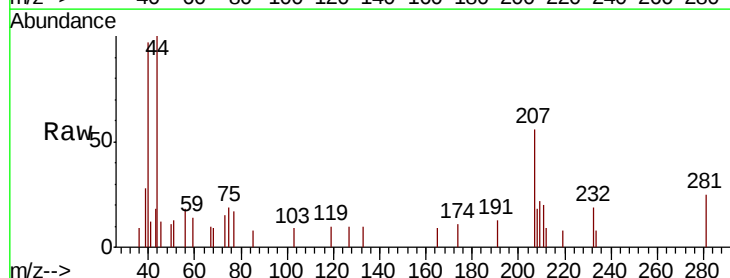
Tgt Ion: 75 Resp: 314

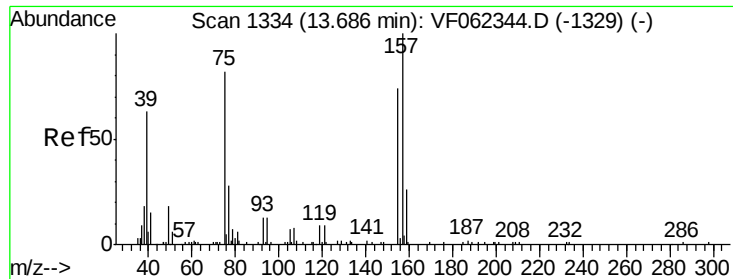
Ion Ratio Lower Upper

75 100

53 0.0 71.9 107.9#

89 0.0 0.0 0.0





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.905 ug/l

RT: 13.72 min Scan# 1338

Delta R.T. 0.03 min

Lab File: VF062548.D

Acq: 13 May 2019 18:15

Instrument :

MSVOA_F

ClientSampleId :

P026-SS012-0206-01RE

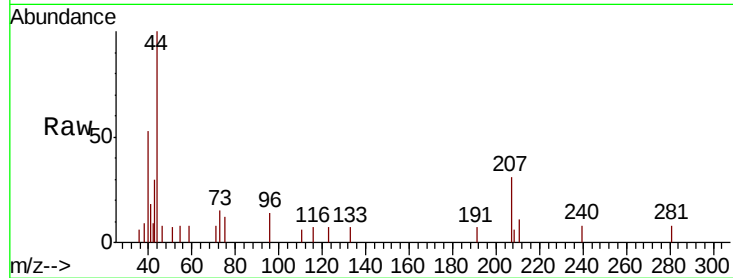
Tot Ion: 75 Resp: 226

Ion Ratio Lower Upper

75 100

155 0.0 51.8 155.4#

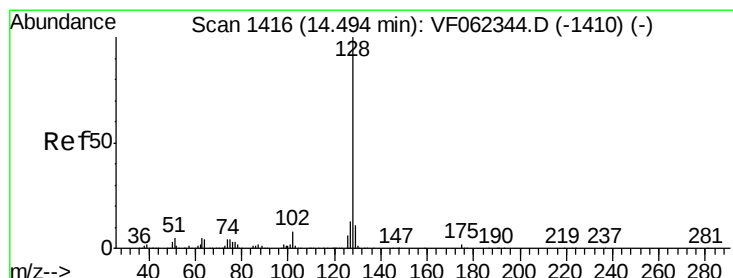
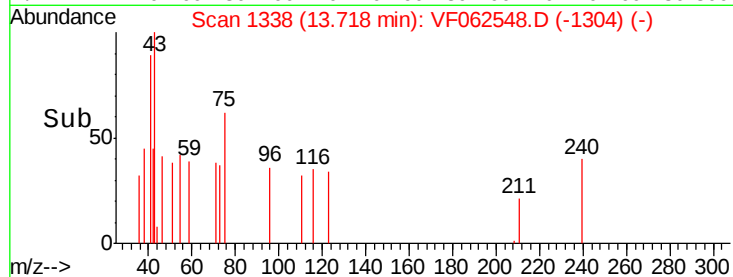
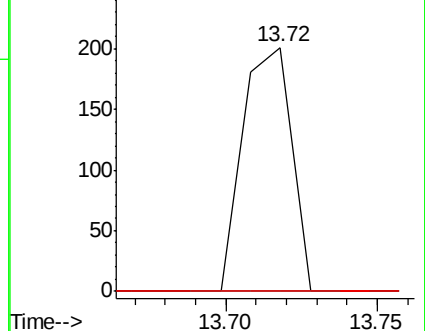
157 0.0 67.3 201.8#



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



#95

Naphthalene

Concen: 1.237 ug/l

RT: 14.51 min Scan# 1418

Delta R.T. 0.01 min

Lab File: VF062548.D

Acq: 13 May 2019 18:15

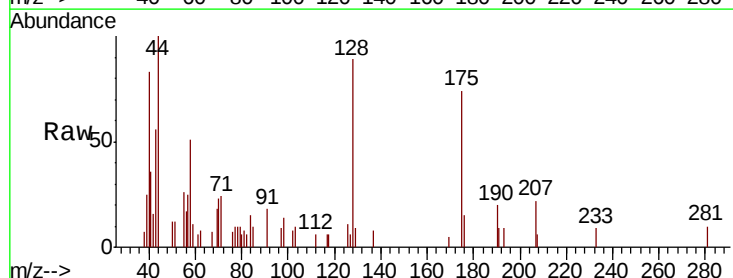
Tgt Ion: 128 Resp: 2618

Ion Ratio Lower Upper

128 100

127 8.6 10.5 15.7#

129 9.9 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

