

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF122218\
 Data File : VF061153.D
 Acq On : 22 Dec 2018 19:21
 Operator : VA/AP
 Sample : J6482-01RE
 Misc : 5.04g/5mL/MSVOA-F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 R20-OSRE

Quant Time: Dec 24 02:58:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	144222	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.62	114	274887	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.79	117	161132	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.56	152	41126	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.86	65	113946	61.43	ug/l	0.01
Spiked Amount	50.000		Recovery	=	122.86%	
35) Dibromofluoromethane	4.13	113	118275	53.71	ug/l	0.01
Spiked Amount	50.000		Recovery	=	107.42%	
50) Toluene-d8	7.57	98	201175	32.24	ug/l	0.01
Spiked Amount	50.000		Recovery	=	64.48%	
62) 4-Bromofluorobenzene	11.42	95	58922	20.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.96%	

Target Compounds

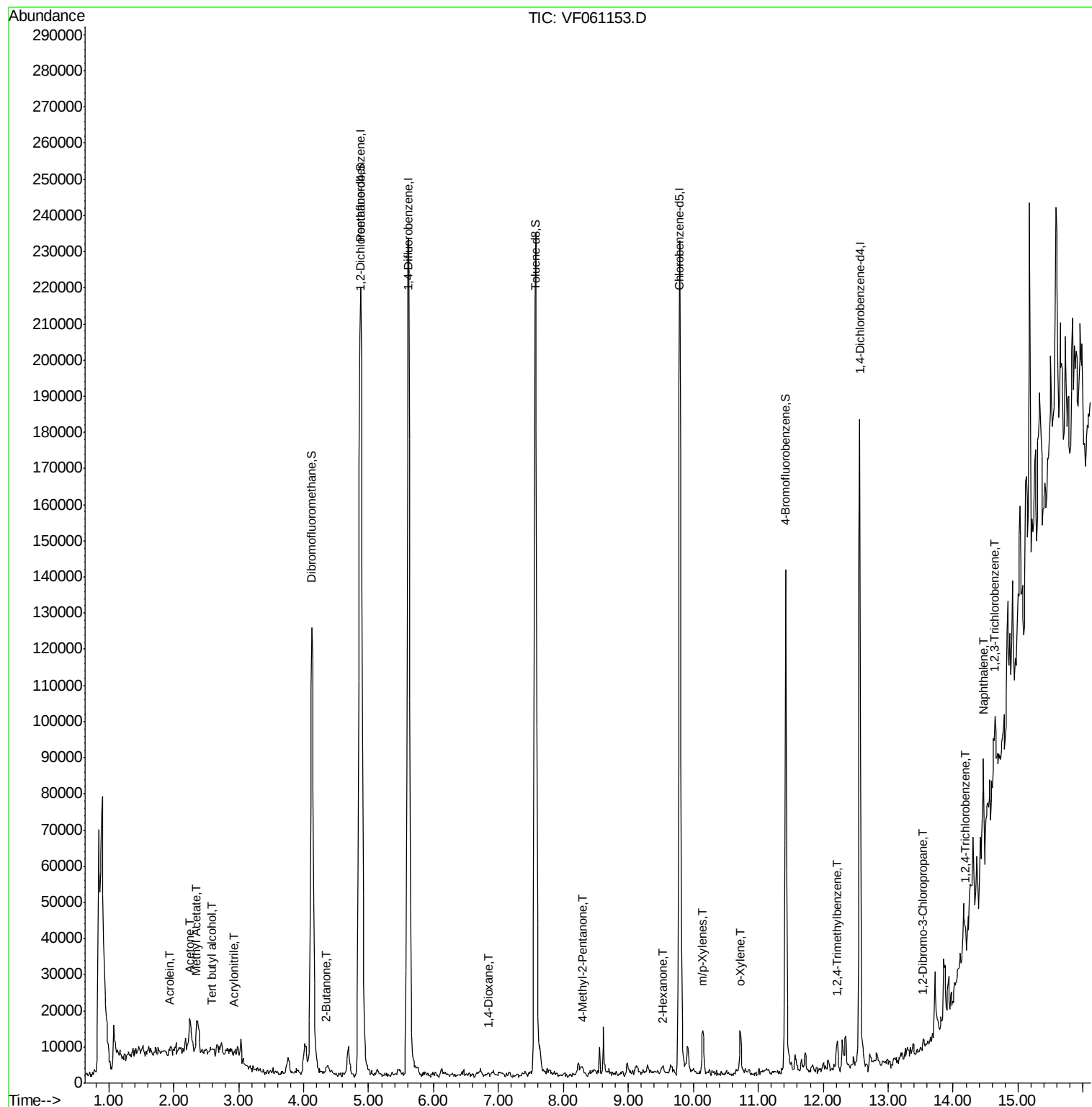
						Qvalue
11) Tert butyl alcohol	2.58	59	377	5.036	ug/l #	1
13) Acrolein	1.93	56	581	10.741	ug/l	88
15) Acrylonitrile	2.91	53	430	2.484	ug/l #	14
16) Acetone	2.24	43	13944	37.603	ug/l #	91
18) Methyl Acetate	2.35	43	11103	14.472	ug/l #	89
20) Methylene Chloride	2.27	84	2606	Below Cal	#	65
25) 2-Butanone	4.34	43	4570	7.599	ug/l	92
49) 1,4-Dioxane	6.85	88	60	7.393	ug/l #	1
51) 4-Methyl-2-Pentanone	8.28	43	3047	2.773	ug/l	95
59) 2-Hexanone	9.51	43	2312	2.910	ug/l	73
68) m/p-Xylenes	10.15	106	4731	2.217	ug/l	80
69) o-Xylene	10.73	106	3089	1.305	ug/l	70
70) Styrene	10.81	104	362	Below Cal	#	69
84) 1,2,4-Trimethylbenzene	12.22	105	3131	1.076	ug/l	93
87) 1,3-Dichlorobenzene	12.49	146	69	Below Cal	#	17
92) 1,2-Dibromo-3-Chloropropan	13.53	75	132	1.223	ug/l #	2
93) 1,2,4-Trichlorobenzene	14.20	180	1108	1.146	ug/l #	29
95) Naphthalene	14.47	128	3309	1.873	ug/l #	88
96) 1,2,3-Trichlorobenzene	14.64	180	3850	4.306	ug/l #	14

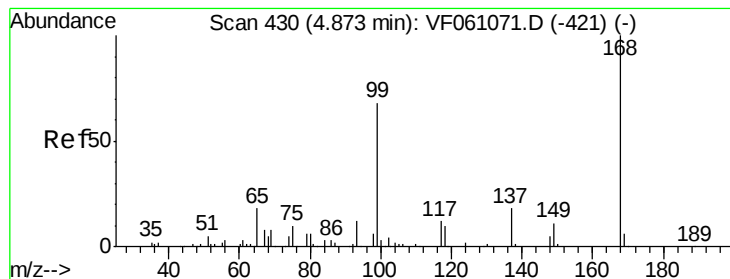
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.01 min

Lab File: VF061153.D

Acq: 22 Dec 2018 19:21

Instrument :

MSVOA_F

ClientSampleId :

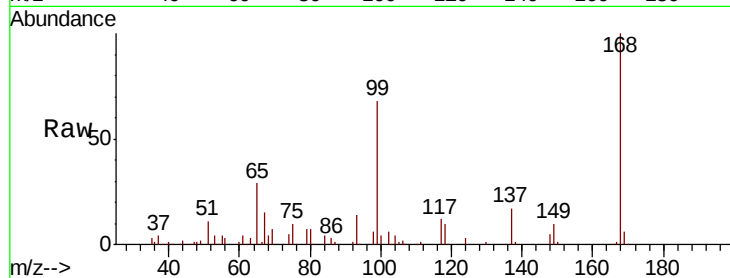
R20-OSRE

Tot Ion:168 Resp: 144222

Ion Ratio Lower Upper

168 100

99 68.5 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

50000

40000

30000

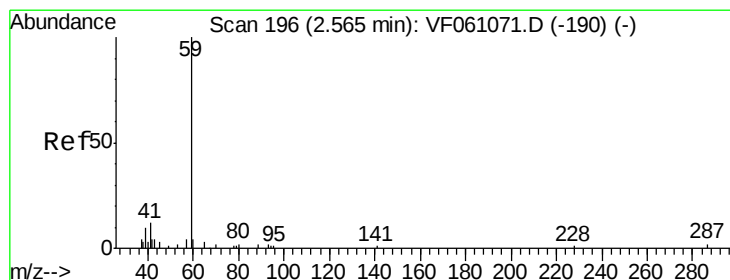
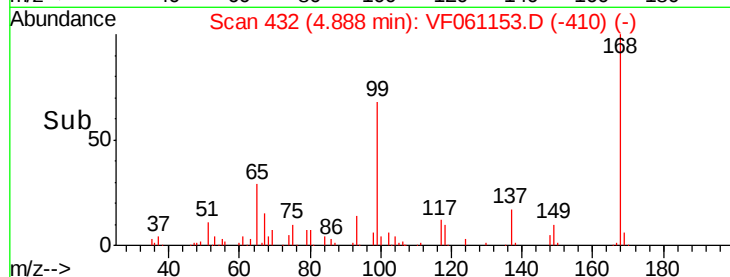
20000

10000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 5.036 ug/l

RT: 2.58 min Scan# 198

Delta R.T. 0.01 min

Lab File: VF061153.D

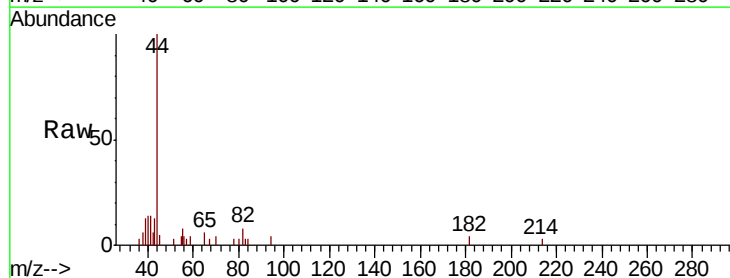
Acq: 22 Dec 2018 19:21

Tgt Ion: 59 Resp: 377

Ion Ratio Lower Upper

59 100

57 69.9 11.5 17.3#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.58

200

150

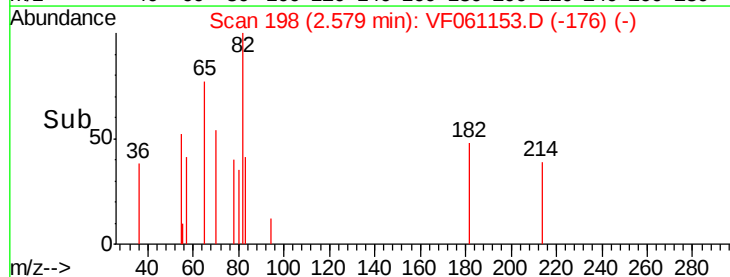
100

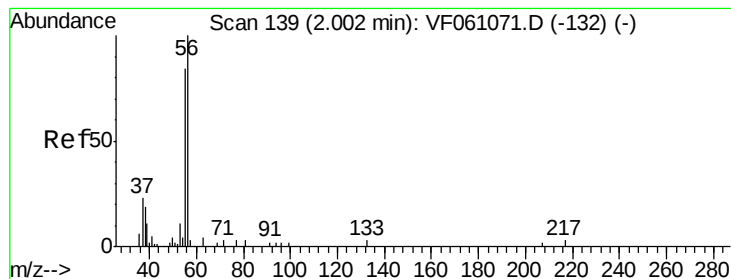
50

0

Time-->

2.50 2.55 2.60





#13

Acrolein

Concen: 10.741 ug/l

RT: 1.93 min Scan# 132

Delta R.T. -0.07 min

Lab File: VF061153.D

Acq: 22 Dec 2018 19:21

Instrument :

MSVOA_F

ClientSampleId :

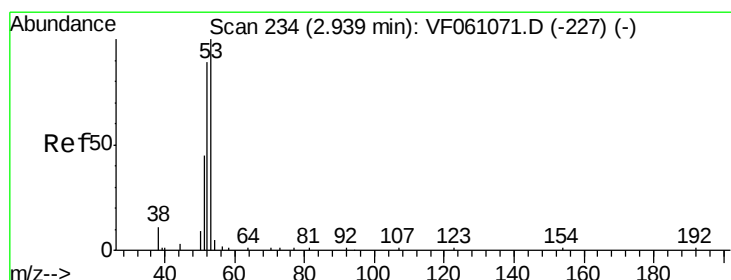
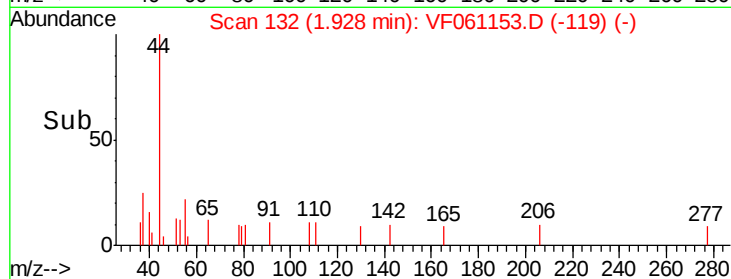
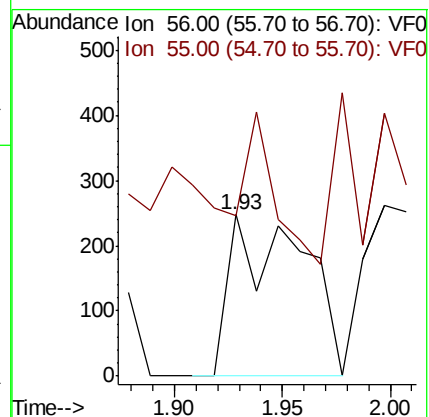
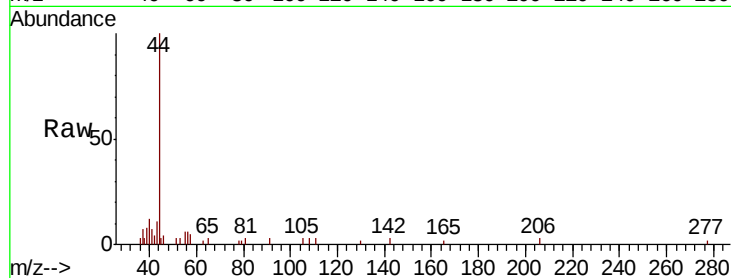
R20-OSRE

Tot Ion: 56 Resp: 581

Ion Ratio Lower Upper

56 100

55 99.2 70.2 105.2



#15

Acrylonitrile

Concen: 2.484 ug/l

RT: 2.91 min Scan# 232

Delta R.T. -0.02 min

Lab File: VF061153.D

Acq: 22 Dec 2018 19:21

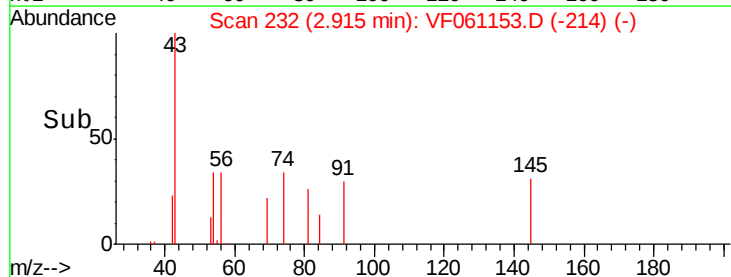
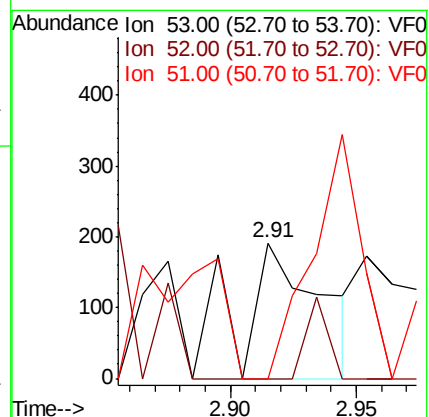
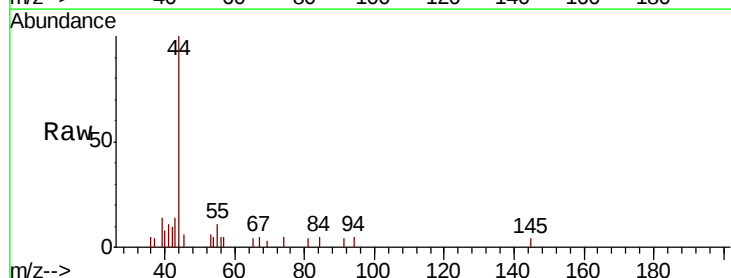
Tgt Ion: 53 Resp: 430

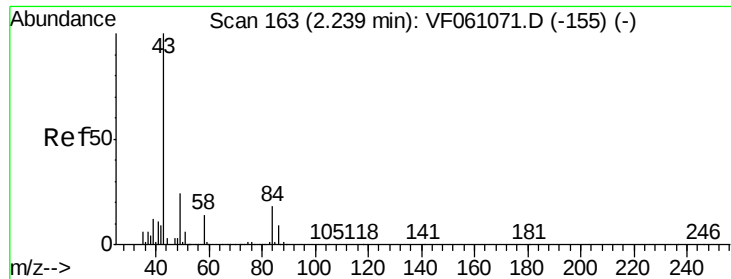
Ion Ratio Lower Upper

53 100

52 0.0 71.3 106.9#

51 0.0 36.8 55.2#





#16

Acetone

Concen: 37.603 ug/l

RT: 2.24 min Scan# 164

Delta R.T. 0.00 min

Lab File: VF061153.D

Acq: 22 Dec 2018 19:21

Instrument :

MSVOA_F

ClientSampleId :

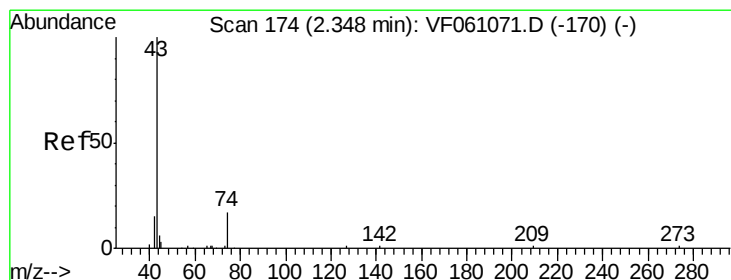
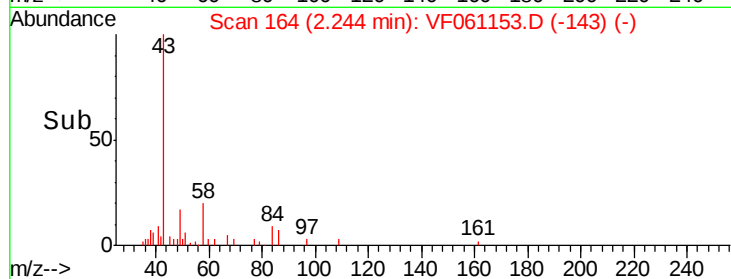
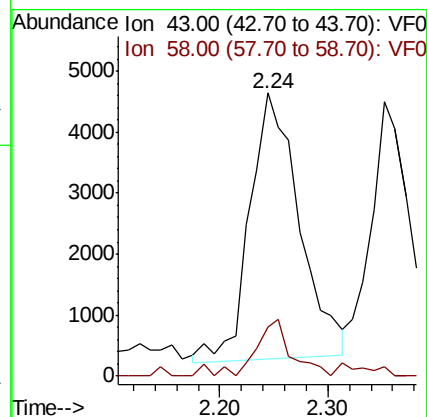
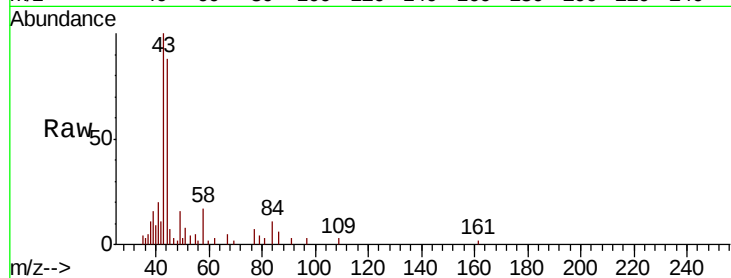
R20-OSRE

Tot Ion: 43 Resp: 13944

Ion Ratio Lower Upper

43 100

58 17.5 11.1 16.7#



#18

Methyl Acetate

Concen: 14.472 ug/l

RT: 2.35 min Scan# 175

Delta R.T. 0.00 min

Lab File: VF061153.D

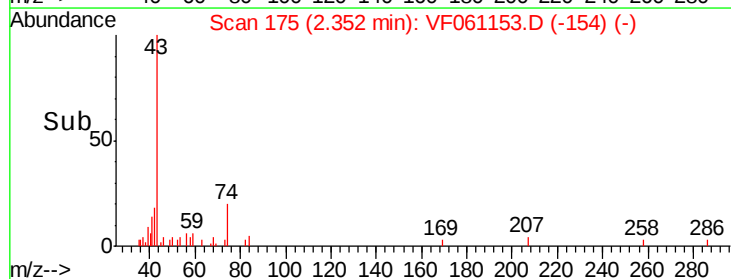
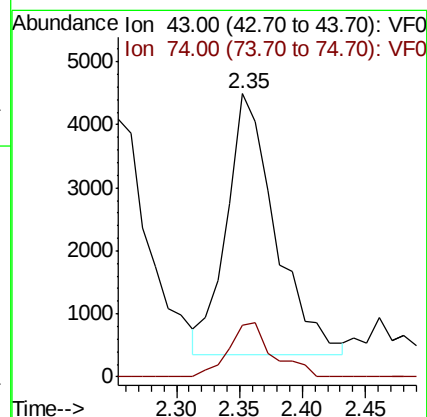
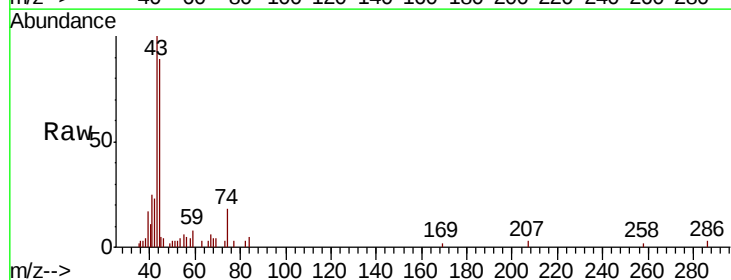
Acq: 22 Dec 2018 19:21

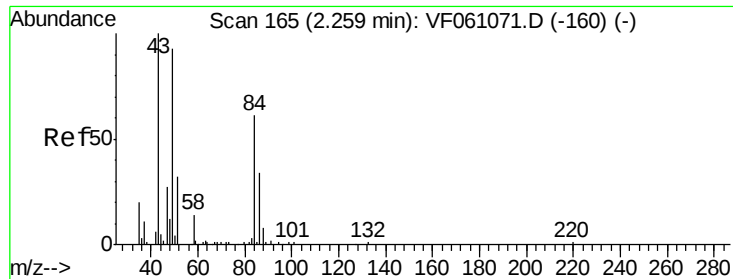
Tgt Ion: 43 Resp: 11103

Ion Ratio Lower Upper

43 100

74 18.3 11.0 16.6#

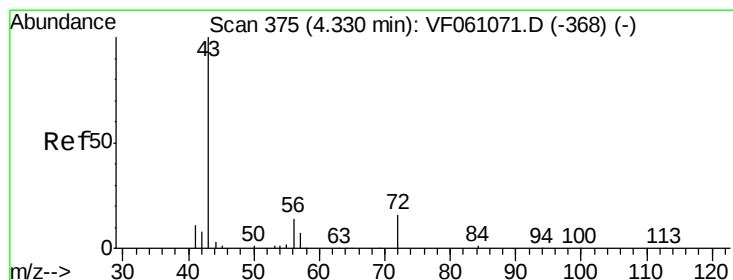
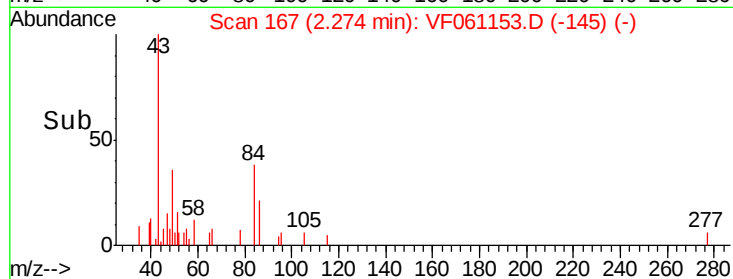
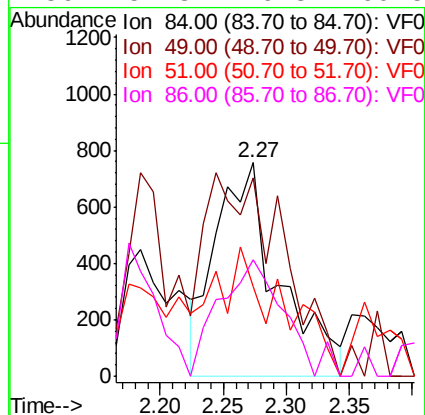
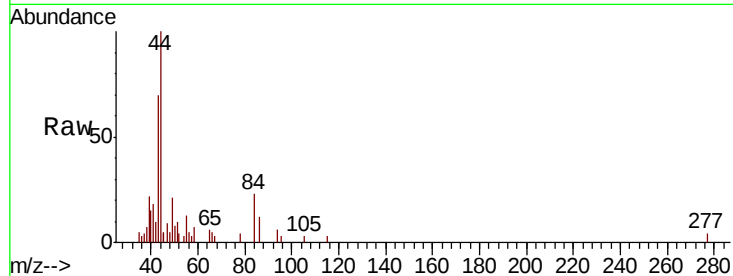




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 167
Delta R.T. 0.02 min
Lab File: VF061153.D
Acq: 22 Dec 2018 19:21

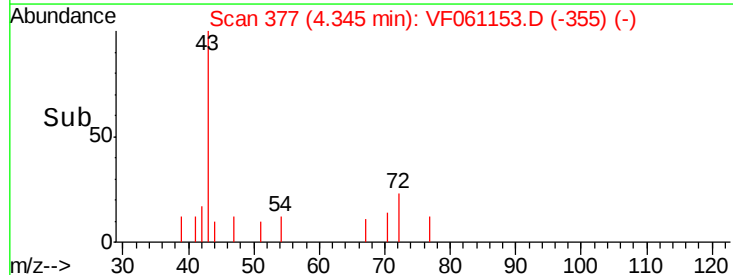
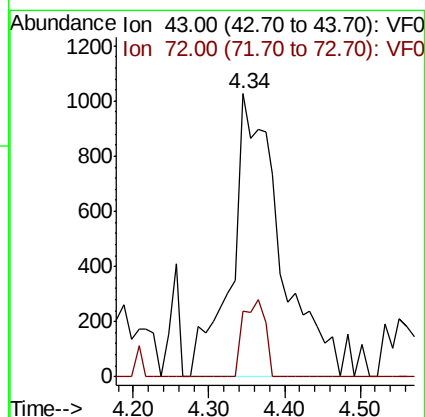
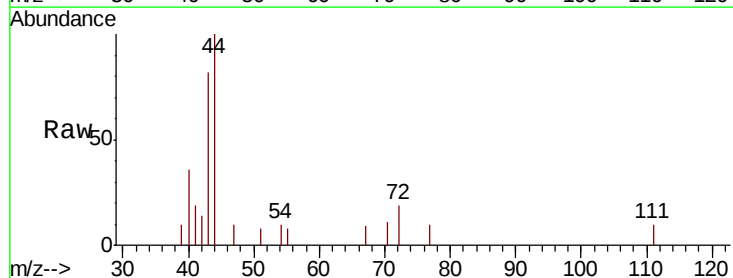
Instrument :
MSVOA_F
ClientSampleId :
R20-OSRE

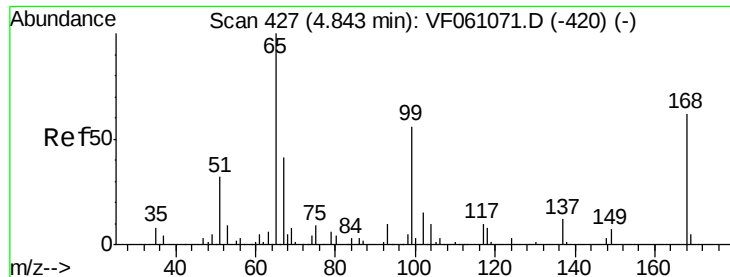
Tot Ion: 84 Resp: 2606
Ion Ratio Lower Upper
84 100
49 93.1 129.4 194.2#
51 42.1 44.0 66.0#
86 54.3 46.3 69.5



#25
2-Butanone
Concen: 7.599 ug/l
RT: 4.34 min Scan# 377
Delta R.T. 0.01 min
Lab File: VF061153.D
Acq: 22 Dec 2018 19:21

Tgt Ion: 43 Resp: 4570
Ion Ratio Lower Upper
43 100
72 23.1 15.6 23.4





#33

1,2-Dichloroethane-d4

Concen: 61.428 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.01 min

Lab File: VF061153.D

Acq: 22 Dec 2018 19:21

Instrument :

MSVOA_F

ClientSampleId :

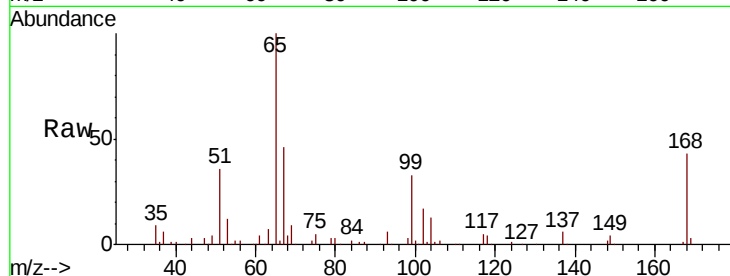
R20-OSRE

Tot Ion: 65 Resp: 113946

Ion Ratio Lower Upper

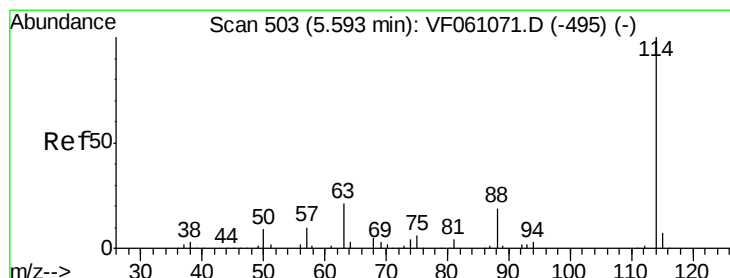
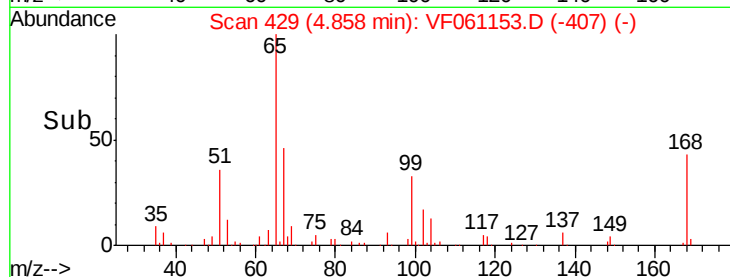
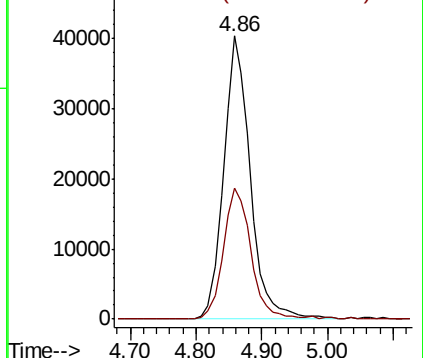
65 100

67 46.2 0.0 94.6



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 506

Delta R.T. 0.02 min

Lab File: VF061153.D

Acq: 22 Dec 2018 19:21

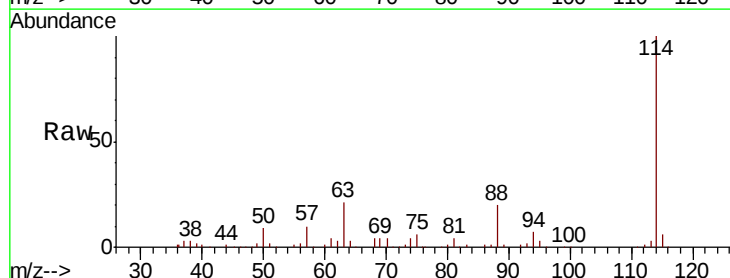
Tgt Ion: 114 Resp: 274887

Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.6

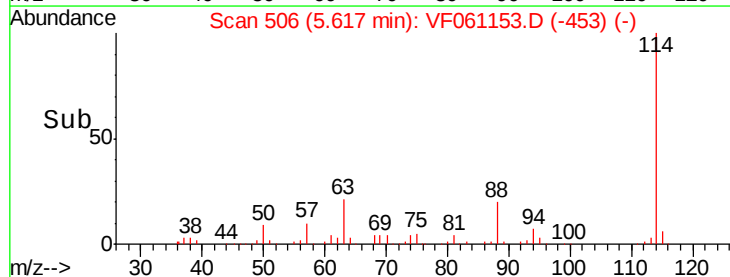
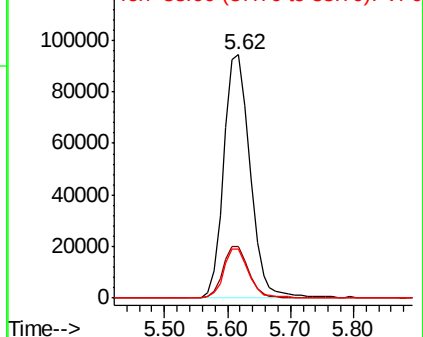
88 20.1 0.0 38.0

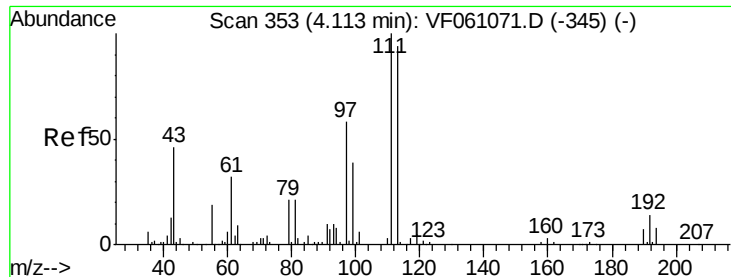


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

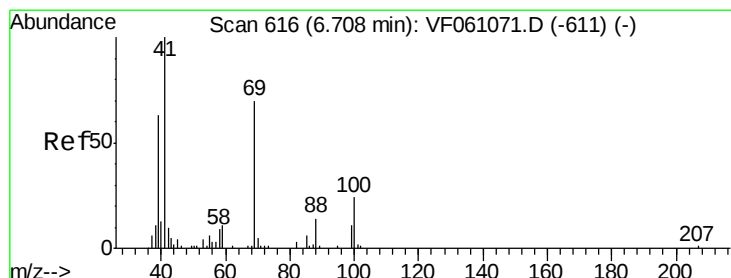
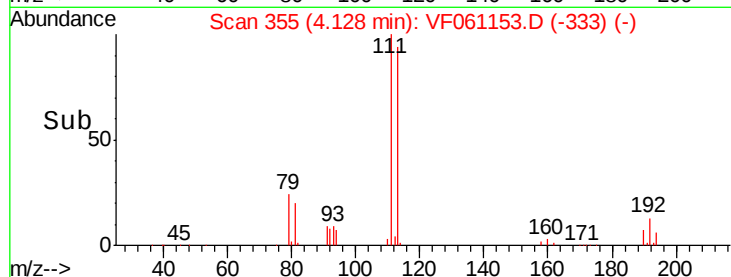
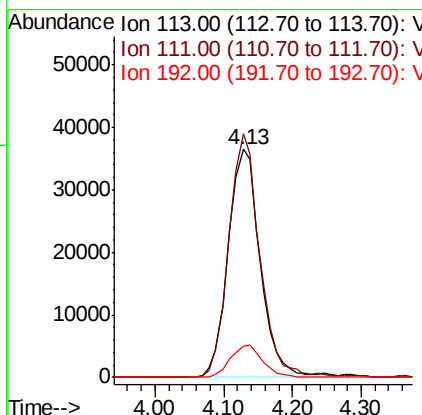
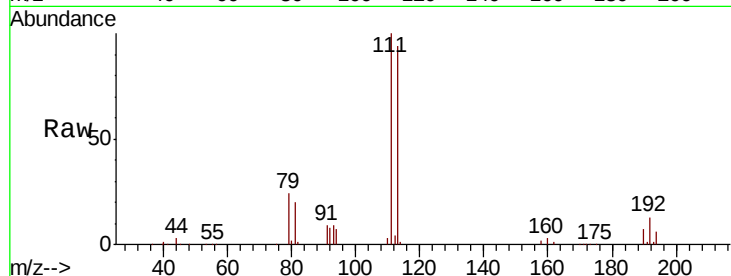




#35
 Dibromofluoromethane
 Concen: 53.712 ug/l
 RT: 4.13 min Scan# 355
 Delta R.T. 0.01 min
 Lab File: VF061153.D
 Acq: 22 Dec 2018 19:21

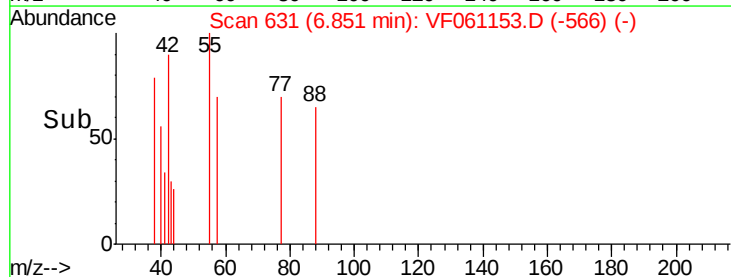
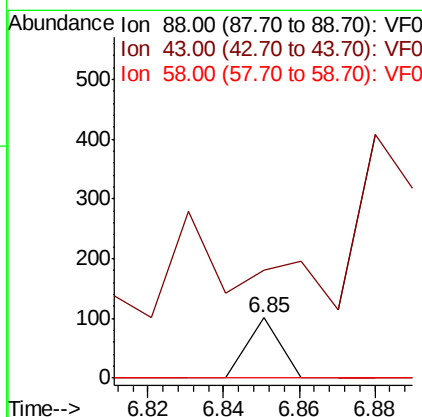
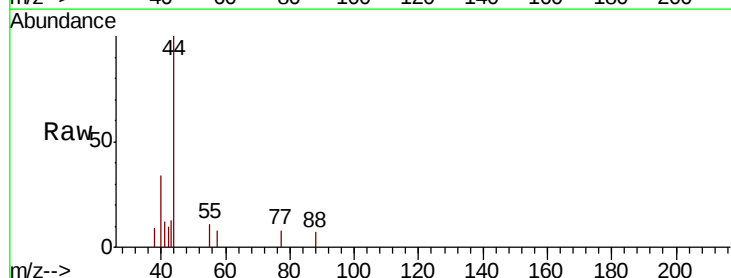
Instrument :
 MSVOA_F
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 R20-OSRE

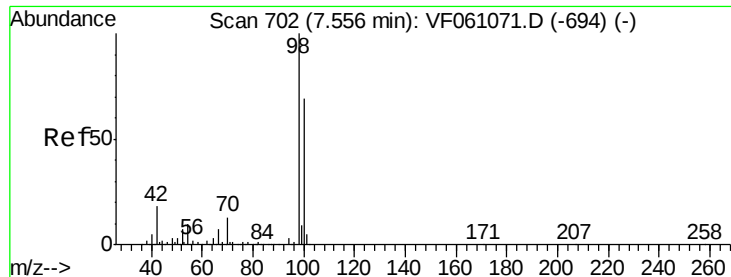
Tot Ion	Ratio	Lower	Upper
113	100		
111	106.7	85.2	127.8
192	13.6	12.8	19.2



#49
 1,4-Dioxane
 Concen: 7.393 ug/l
 RT: 6.85 min Scan# 631
 Delta R.T. 0.14 min
 Lab File: VF061153.D
 Acq: 22 Dec 2018 19:21

Tgt Ion	Ratio	Lower	Upper
88	100		
43	179.2	33.3	49.9#
58	0.0	53.2	79.8#

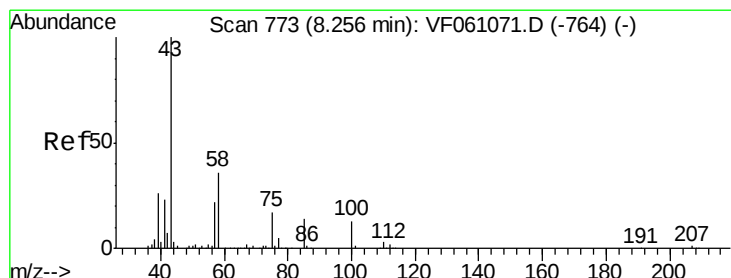
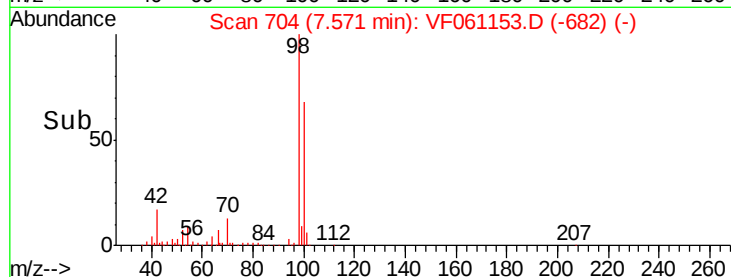
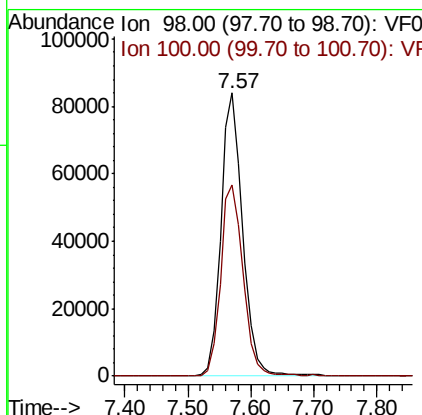
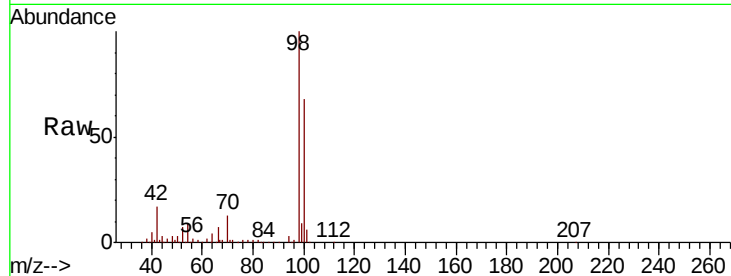




#50
Toluene-d8
Concen: 32.239 ug/l
RT: 7.57 min Scan# 704
Delta R.T. 0.01 min
Lab File: VF061153.D
Acq: 22 Dec 2018 19:21

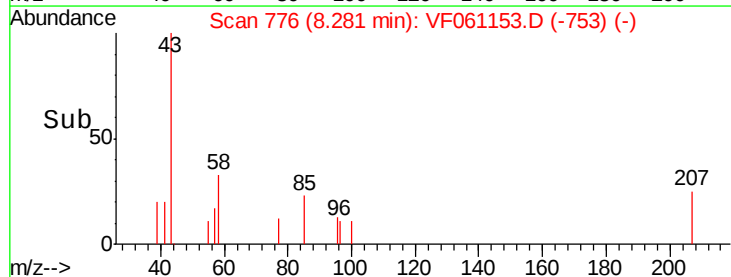
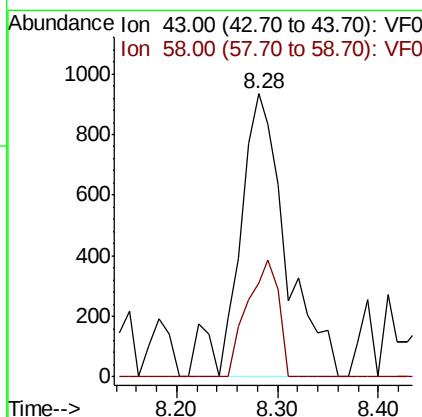
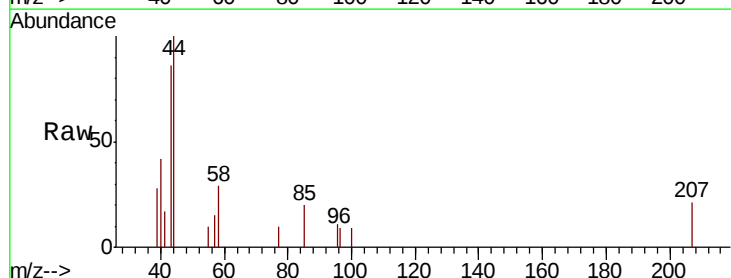
Instrument :
MSVOA_F
ClientSampleId :
R20-OSRE

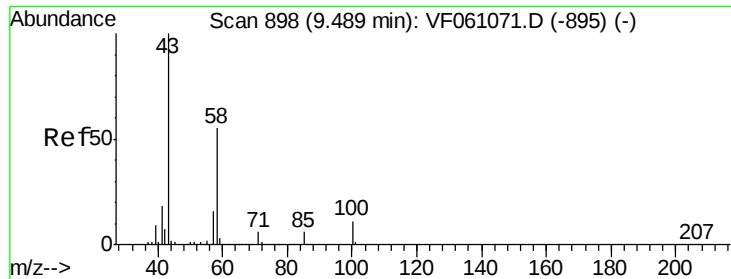
Tot Ion: 98 Resp: 201175
Ion Ratio Lower Upper
98 100
100 67.8 55.3 82.9



#51
4-Methyl-2-Pentanone
Concen: 2.773 ug/l
RT: 8.28 min Scan# 776
Delta R.T. 0.02 min
Lab File: VF061153.D
Acq: 22 Dec 2018 19:21

Tgt Ion: 43 Resp: 3047
Ion Ratio Lower Upper
43 100
58 33.2 29.1 43.7

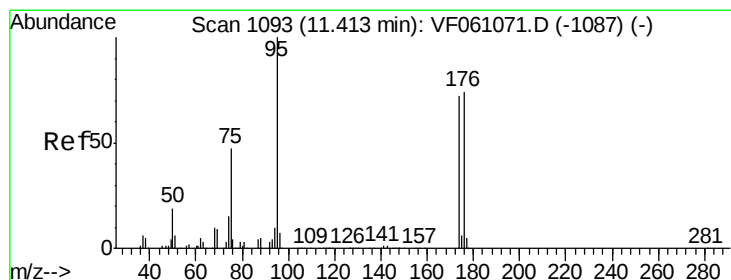
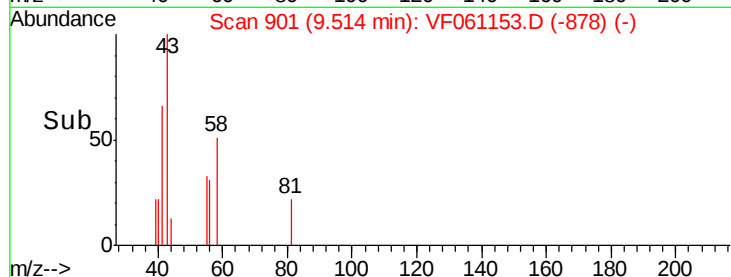
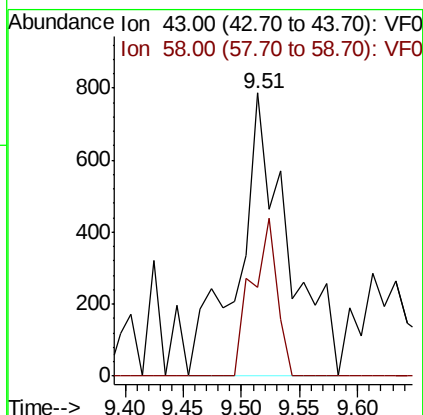
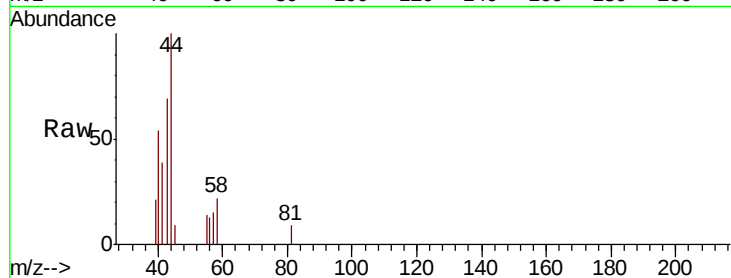




#59
2-Hexanone
Concen: 2.910 ug/l
RT: 9.51 min Scan# 901
Delta R.T. 0.02 min
Lab File: VF061153.D
Acq: 22 Dec 2018 19:21

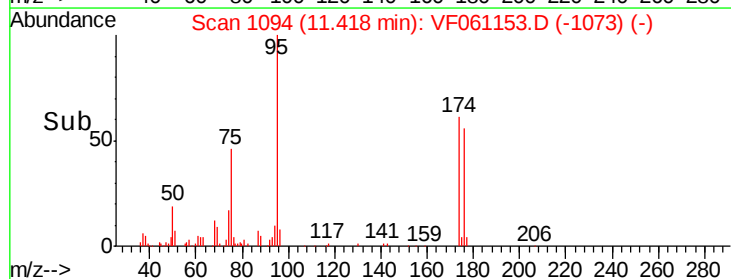
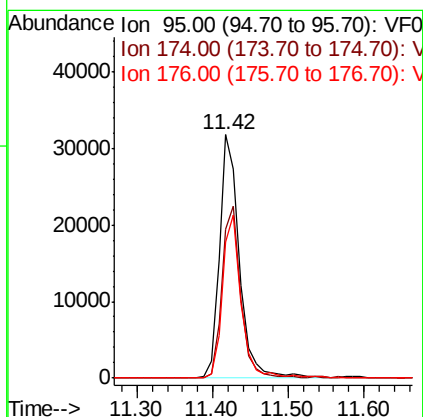
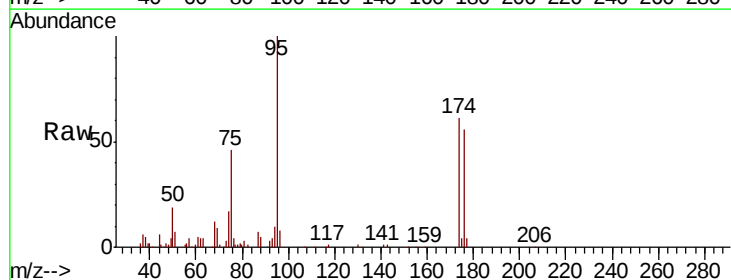
Instrument :
MSVOA_F
ClientSampleId :
R20-OSRE

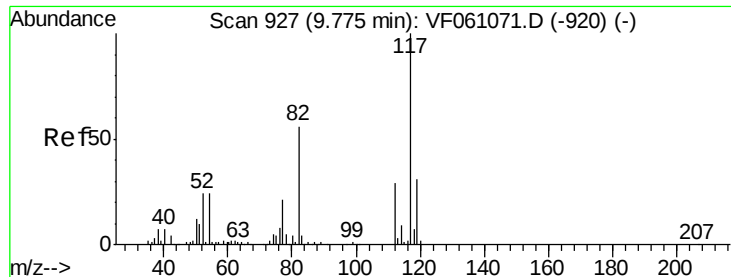
Tot Ion: 43 Resp: 2312
Ion Ratio Lower Upper
43 100
58 31.3 25.1 75.2



#62
4-Bromofluorobenzene
Concen: 20.482 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VF061153.D
Acq: 22 Dec 2018 19:21

Tgt Ion: 95 Resp: 58922
Ion Ratio Lower Upper
95 100
174 61.1 0.0 143.8
176 56.0 0.0 147.6

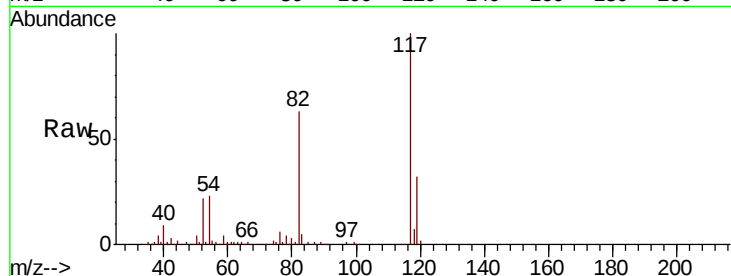




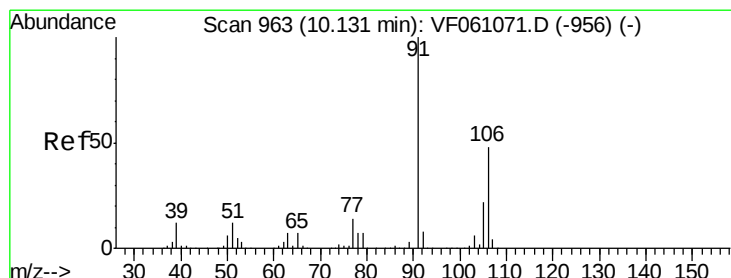
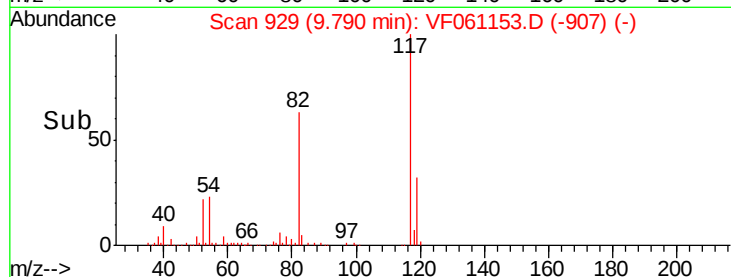
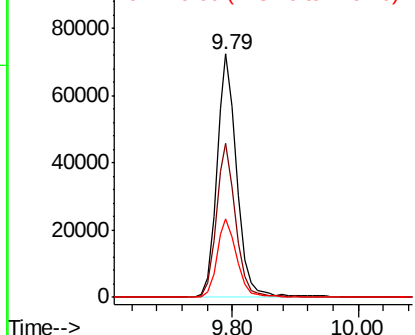
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.01 min
Lab File: VF061153.D
Acq: 22 Dec 2018 19:21

Instrument :
MSVOA_F
ClientSampleId :
R20-OSRE

Tot Ion:117 Resp: 161132
Ion Ratio Lower Upper
117 100
82 63.3 45.0 67.4
119 32.0 24.8 37.2

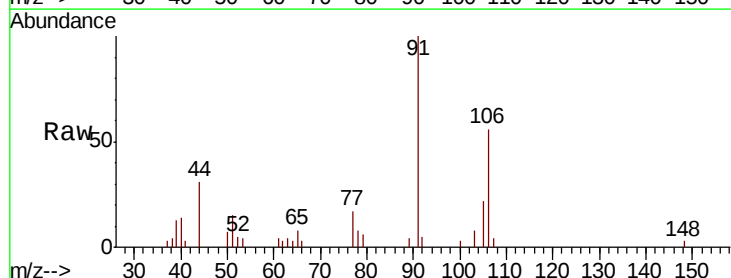


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

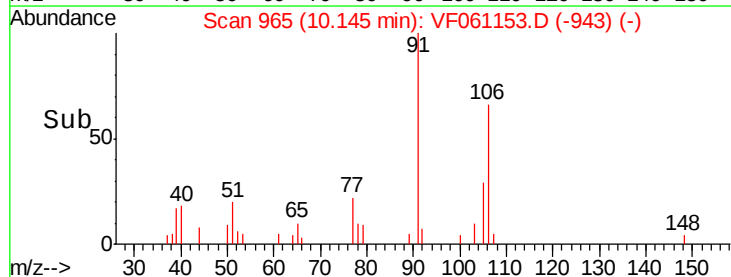
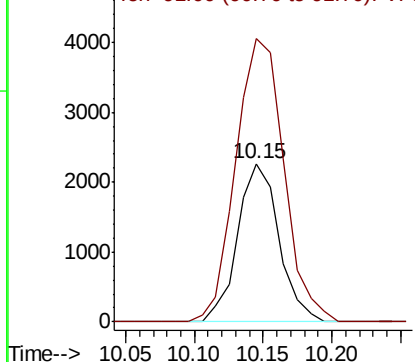


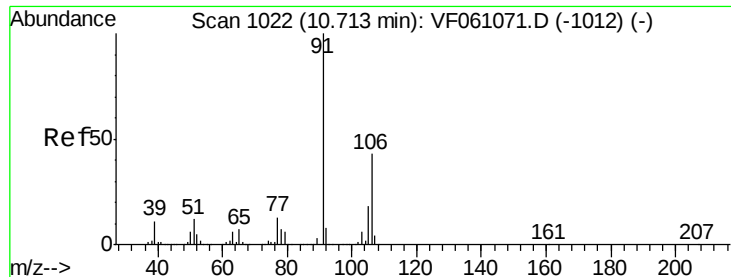
#68
m/p-Xylenes
Concen: 2.217 ug/l
RT: 10.15 min Scan# 965
Delta R.T. 0.01 min
Lab File: VF061153.D
Acq: 22 Dec 2018 19:21

Tgt Ion:106 Resp: 4731
Ion Ratio Lower Upper
106 100
91 178.8 168.2 252.2



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

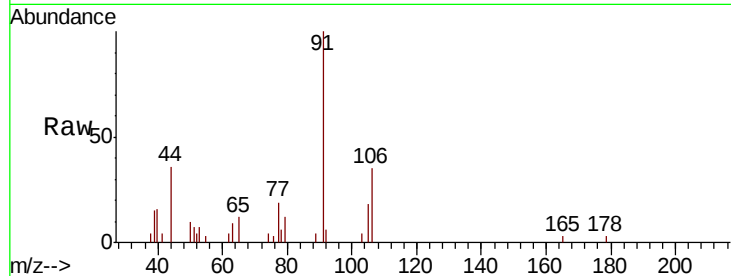




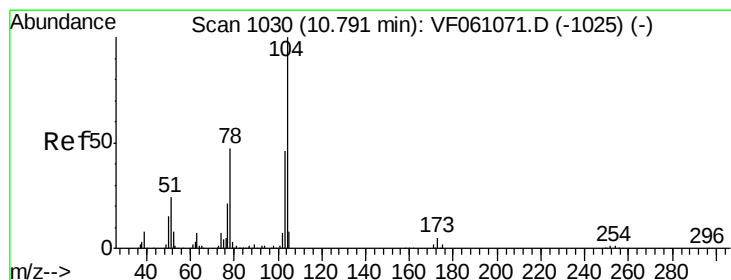
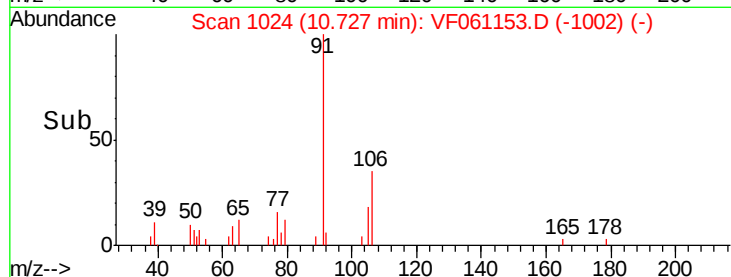
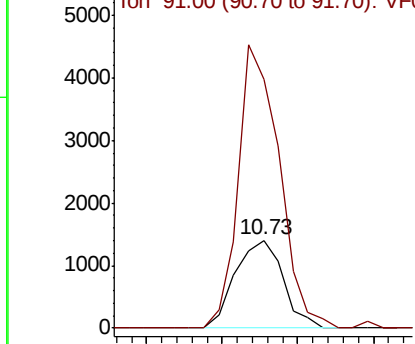
#69
o-Xylene
Concen: 1.305 ug/l
RT: 10.73 min Scan# 1024
Delta R.T. 0.01 min
Lab File: VF061153.D
Acq: 22 Dec 2018 19:21

Instrument :
MSVOA_F
ClientSampled :
R20-OSRE

Tot Ion:106 Resp: 3089
Ion Ratio Lower Upper
106 100
91 282.2 115.9 347.7

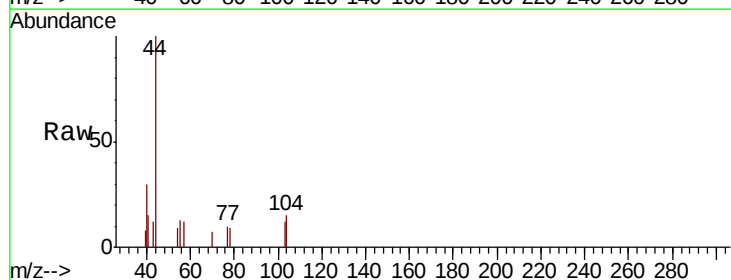


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

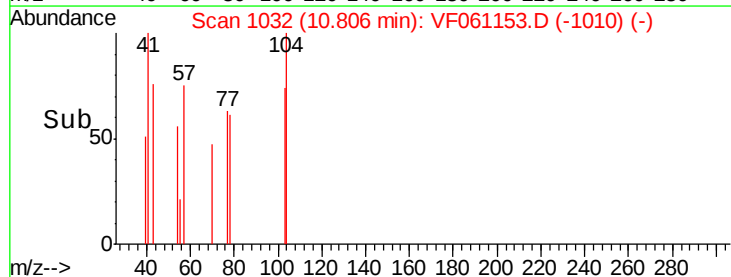
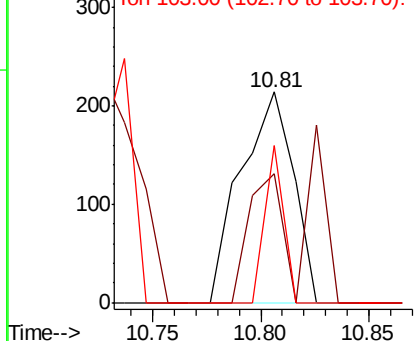


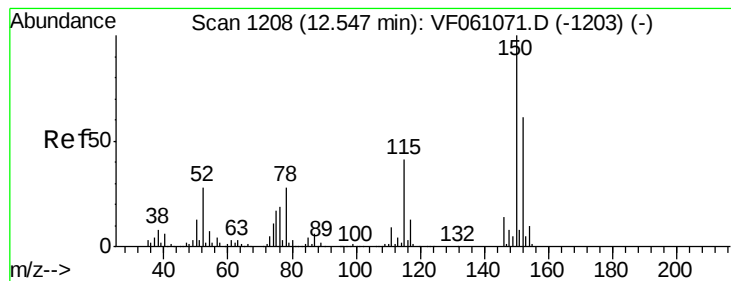
#70
Styrene
Concen: Below Cal
RT: 10.81 min Scan# 1032
Delta R.T. 0.02 min
Lab File: VF061153.D
Acq: 22 Dec 2018 19:21

Tgt Ion:104 Resp: 362
Ion Ratio Lower Upper
104 100
78 61.2 38.4 57.6#
103 74.8 37.0 55.6#



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: 12.56 min Scan# 1210

Delta R.T. 0.01 min

Lab File: VF061153.D

Acq: 22 Dec 2018 19:21

Instrument :

MSVOA_F

ClientSampleId :

R20-OSRE

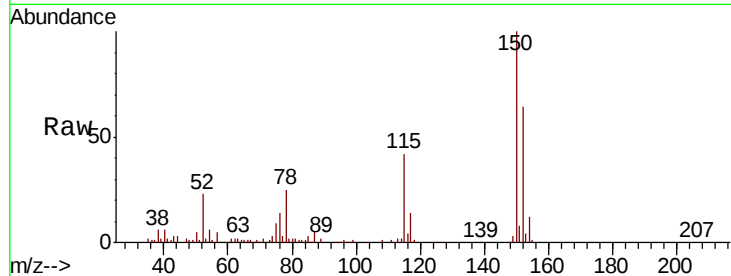
Tot Ion:152 Resp: 41126

Ion Ratio Lower Upper

152 100

115 64.7 33.3 99.9

150 155.9 0.0 328.2

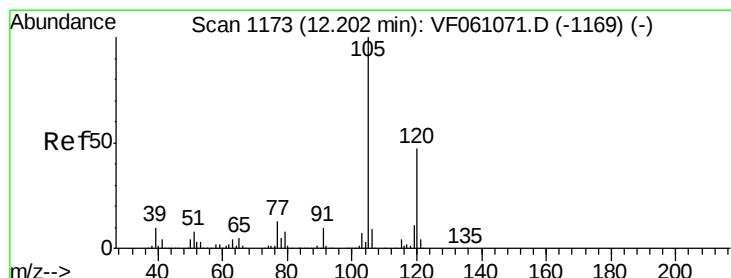
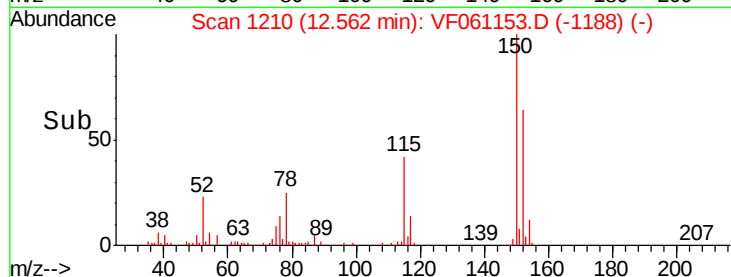
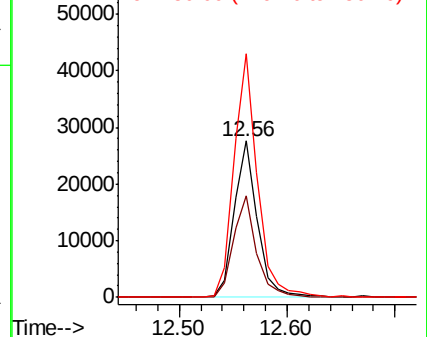


Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#84

1,2,4-Trimethylbenzene

Concen: 1.076 ug/l

RT: 12.22 min Scan# 1175

Delta R.T. 0.01 min

Lab File: VF061153.D

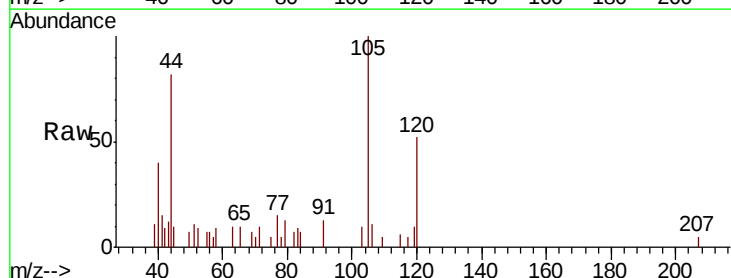
Acq: 22 Dec 2018 19:21

Tgt Ion:105 Resp: 3131

Ion Ratio Lower Upper

105 100

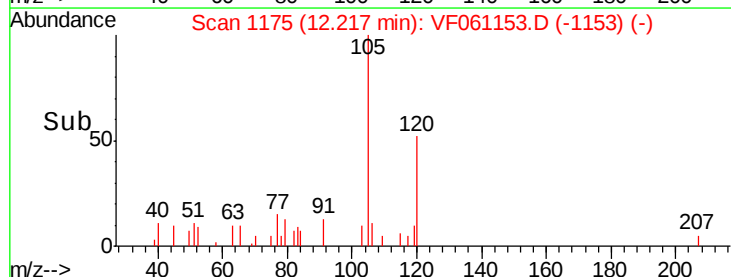
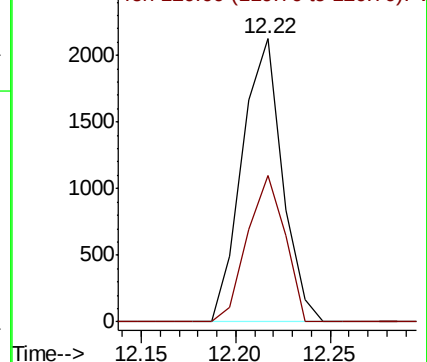
120 51.8 23.6 71.0

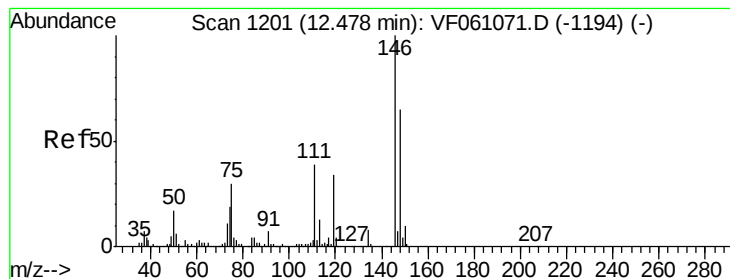


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.49 min Scan# 1203

Delta R.T. 0.01 min

Lab File: VF061153.D

Acq: 22 Dec 2018 19:21

Instrument :

MSVOA_F

ClientSampleId :

R20-OSRE

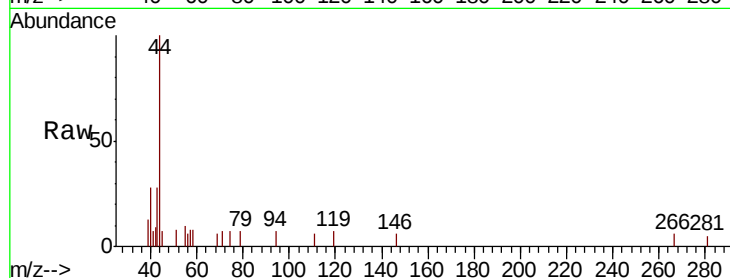
Tot Ion:146 Resp: 69

Ion Ratio Lower Upper

146 100

111 89.7 19.3 57.9#

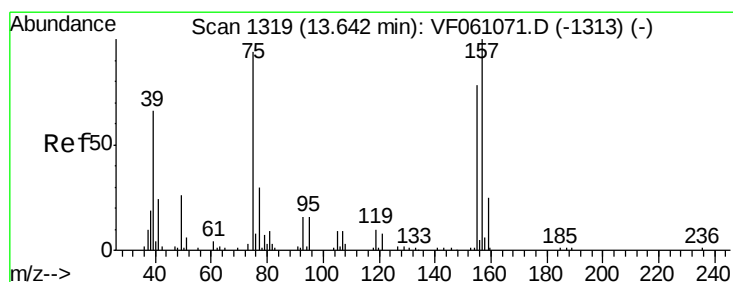
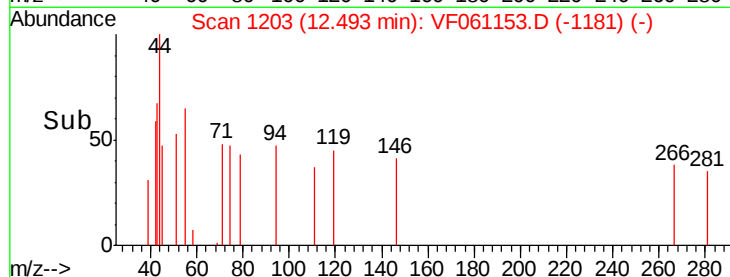
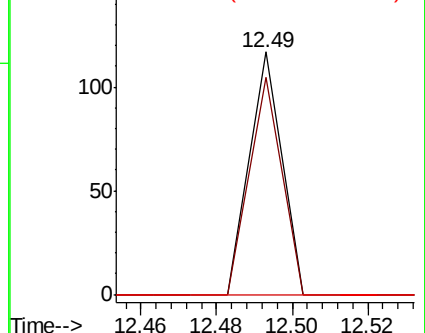
148 0.0 32.4 97.2#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.223 ug/l

RT: 13.53 min Scan# 1308

Delta R.T. -0.11 min

Lab File: VF061153.D

Acq: 22 Dec 2018 19:21

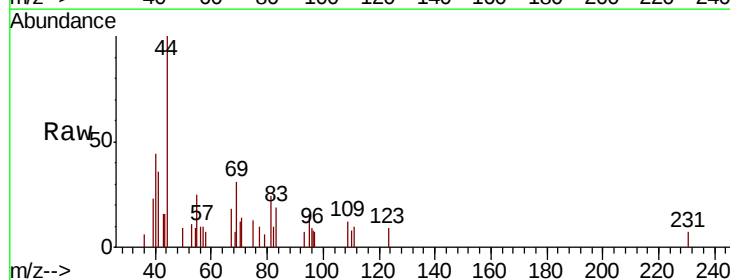
Tgt Ion: 75 Resp: 132

Ion Ratio Lower Upper

75 100

155 0.0 41.5 124.5#

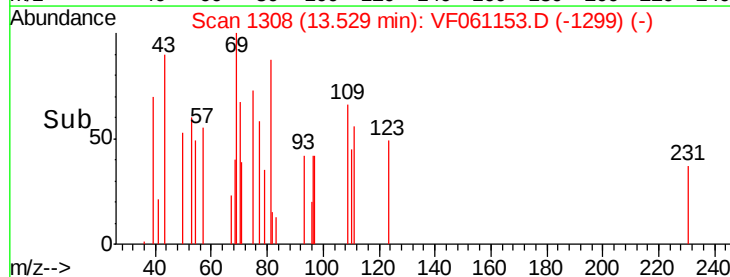
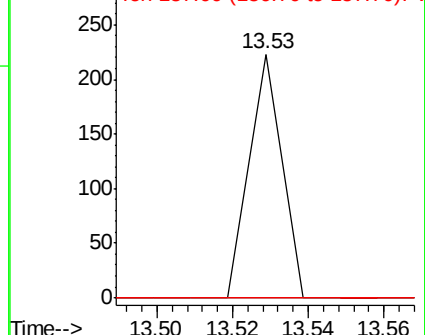
157 0.0 53.2 159.6#

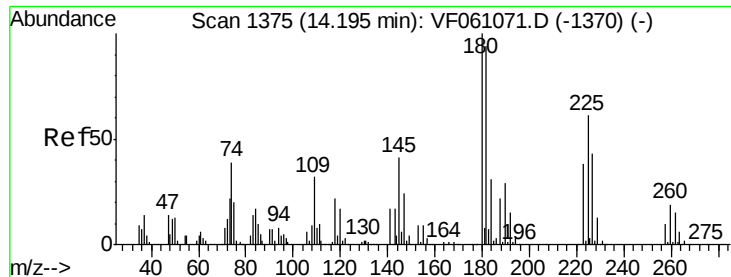


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

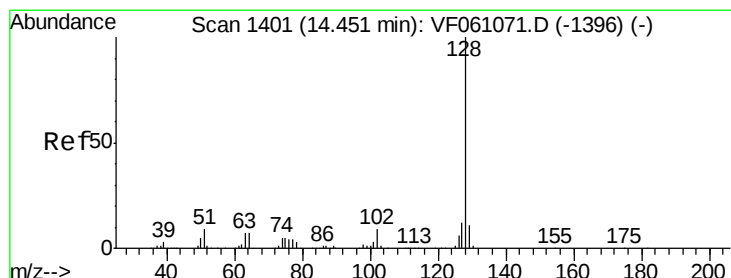
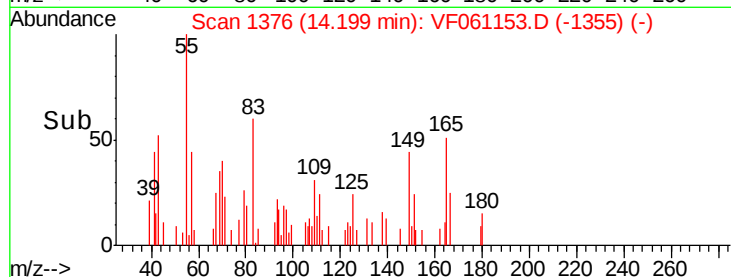
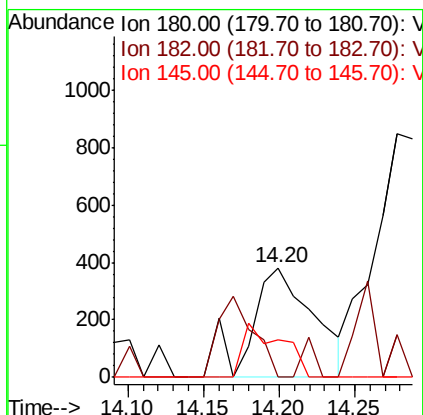
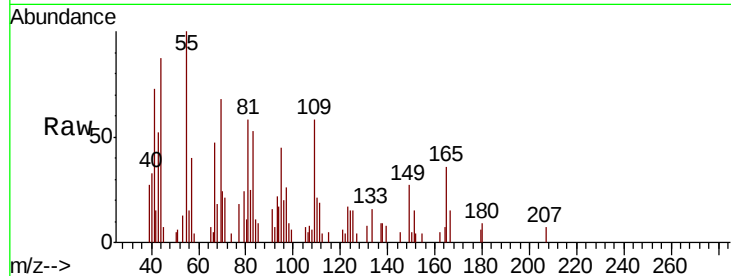




#93
 1,2,4-Trichlorobenzene
 Concen: 1.146 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.00 min
 Lab File: VF061153.D
 Acq: 22 Dec 2018 19:21

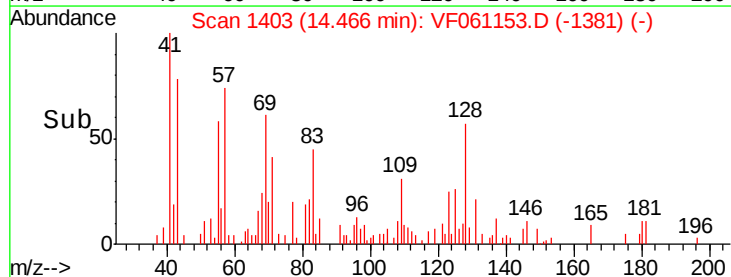
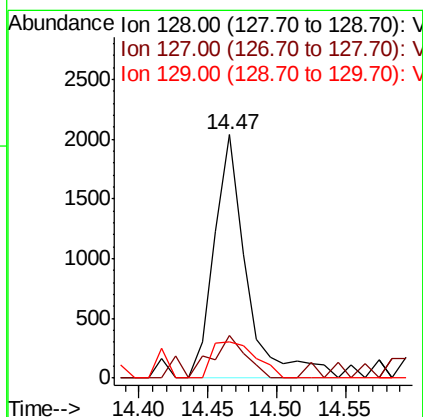
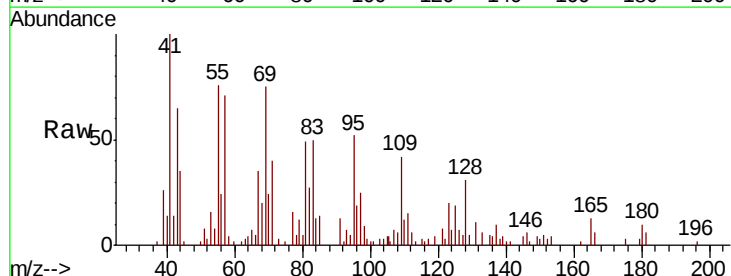
Instrument :
 MSVOA_F
 ClientSampled :
 R20-OSRE

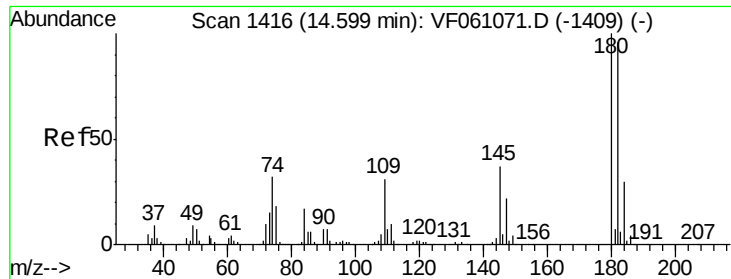
Tot Ion:180 Resp: 1108
 Ion Ratio Lower Upper
 180 100
 182 0.0 46.9 140.6#
 145 33.8 20.5 61.6



#95
 Naphthalene
 Concen: 1.873 ug/l
 RT: 14.47 min Scan# 1403
 Delta R.T. 0.01 min
 Lab File: VF061153.D
 Acq: 22 Dec 2018 19:21

Tgt Ion:128 Resp: 3309
 Ion Ratio Lower Upper
 128 100
 127 17.5 9.4 14.2#
 129 14.7 8.8 13.2#

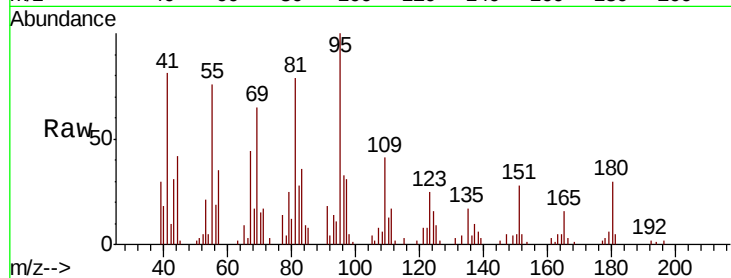




#96
 1,2,3-Trichlorobenzene
 Concen: 4.306 ug/l
 RT: 14.64 min Scan# 1421
 Delta R.T. 0.04 min
 Lab File: VF061153.D
 Acq: 22 Dec 2018 19:21

Instrument :
 MSVOA_F
 ClientSampleId :
 R20-OSRE

Tot Ion:180 Resp: 3850
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.9 143.8#
 145 5.3 18.6 55.8#



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

