

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020719\
 Data File : VF061546.D
 Acq On : 7 Feb 2019 15:46
 Operator : VA/AP
 Sample : K1401-01
 Misc : 6.15g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 RBR-200050

Quant Time: Feb 09 04:34:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	1514	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	5.59	114	1616	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	1813	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	416	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.85	65	288	15.41	ug/l	0.01
Spiked Amount	50.000		Recovery	=	30.82%	
35) Dibromofluoromethane	4.12	113	427	33.49	ug/l	0.01
Spiked Amount	50.000		Recovery	=	66.98%	
50) Toluene-d8	7.55	98	2034	58.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.44%	
62) 4-Bromofluorobenzene	11.42	95	585	35.84	ug/l	0.01
Spiked Amount	50.000		Recovery	=	71.68%	

Target Compounds

						Qvalue
3) Chloromethane	1.07	50	296	13.570	ug/l #	44
5) Bromomethane	1.36	94	188	14.859	ug/l #	2
6) Chloroethane	1.37	64	69	8.025	ug/l #	1
8) Diethyl Ether	1.71	74	83	17.173	ug/l	94
10) Methyl Iodide	2.00	142	60	2.135	ug/l #	27
11) Tert butyl alcohol	2.51	59	60	75.833	ug/l #	1
12) 1,1-Dichloroethene	1.83	96	94	6.981	ug/l #	1
13) Acrolein	1.98	56	471	672.880	ug/l #	1
14) Allyl chloride	2.10	41	332	18.165	ug/l #	65
15) Acrylonitrile	2.92	53	808	398.681	ug/l #	19
16) Acetone	2.09	43	490	130.670	ug/l	97
17) Carbon Disulfide	1.80	76	82	1.953	ug/l #	1
18) Methyl Acetate	2.26	43	402	54.057	ug/l #	61
19) Methyl tert-butyl Ether	2.41	73	208	6.891	ug/l #	1
20) Methylene Chloride	2.19	84	127	8.519	ug/l #	7
21) trans-1,2-Dichloroethene	2.31	96	75	5.062	ug/l #	1
22) Diisopropyl ether	2.82	45	172	3.589	ug/l #	1
23) Vinyl Acetate	3.16	43	299	17.199	ug/l #	78
24) 1,1-Dichloroethane	2.88	63	100	3.325	ug/l #	1
25) 2-Butanone	4.33	43	172	27.582	ug/l #	57
26) 2,2-Dichloropropane	3.58	77	80	4.329	ug/l #	61
27) cis-1,2-Dichloroethene	3.56	96	67	3.064	ug/l	1
29) Tetrahydrofuran	4.06	42	255	94.967	ug/l #	38
31) Cyclohexane	3.69	56	69	2.297	ug/l #	13
36) 1,1-Dichloropropene	4.28	75	60	3.202	ug/l #	44
37) Ethyl Acetate	4.10	43	140	18.692	ug/l #	5
38) Carbon Tetrachloride	3.90	117	61	3.724	ug/l #	11
40) Benzene	4.56	78	82	1.967	ug/l #	52
41) Methacrylonitrile	4.71	41	73	18.317	ug/l #	29
42) 1,2-Dichloroethane	5.01	62	62	4.173	ug/l	76
43) Isopropyl Acetate	6.96	43	60	6.383	ug/l #	51
45) 1,2-Dichloropropane	6.33	63	63	5.757	ug/l #	44
48) Methyl methacrylate	6.71	41	435	68.914	ug/l #	19
51) 4-Methyl-2-Pentanone	8.24	43	215	31.112	ug/l #	39

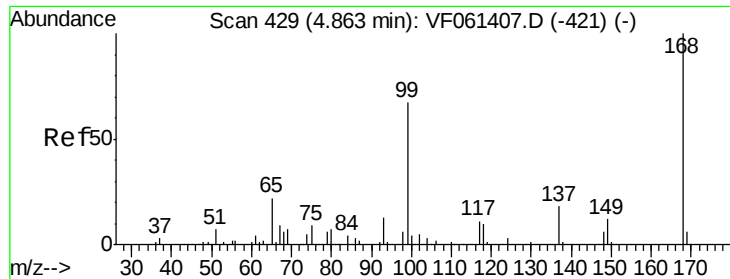
Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF020719\
 Data File : VF061546.D
 Acq On : 7 Feb 2019 15:46
 Operator : VA/AP
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 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) t-1,3-Dichloropropene	8.17	75	60	4.197	ug/l #	44
54) cis-1,3-Dichloropropene	7.23	75	62	3.470	ug/l #	28
56) Ethyl methacrylate	8.61	69	81	8.930	ug/l #	62
59) 2-Hexanone	9.48	43	421	87.365	ug/l #	26
73) Isopropylbenzene	11.15	105	62	1.832	ug/l #	50
74) N-amyl acetate	11.38	43	149	18.624	ug/l #	47
76) 1,2,3-Trichloropropane	11.62	75	79	18.241	ug/l #	42
78) n-propylbenzene	11.65	91	72	1.775	ug/l #	54
79) 2-Chlorotoluene	11.65	91	72	3.067	ug/l #	45
80) 1,3,5-Trimethylbenzene	11.89	105	80	2.930	ug/l #	28
83) tert-Butylbenzene	12.12	119	69	2.442	ug/l #	28
87) 1,3-Dichlorobenzene	12.48	146	75	5.145	ug/l #	24
88) 1,4-Dichlorobenzene	12.48	146	75	5.555	ug/l #	24
89) n-Butylbenzene	12.84	91	64	1.970	ug/l #	45
93) 1,2,4-Trichlorobenzene	14.20	180	98	10.466	ug/l #	64
95) Naphthalene	14.46	128	287	16.132	ug/l #	71

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Instrument :

MSVOA_F

ClientSampleId :

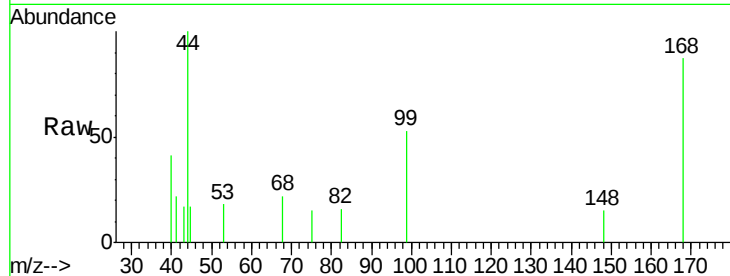
RBR-200050

Tot Ion:168 Resp: 1514

Ion Ratio Lower Upper

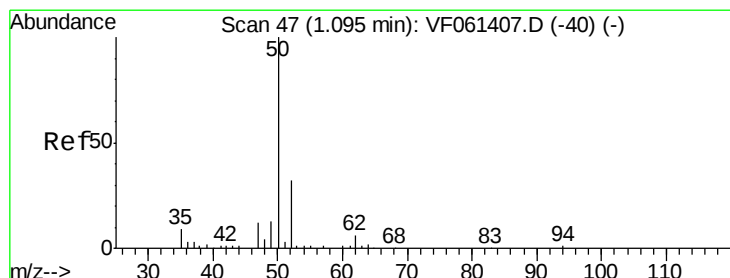
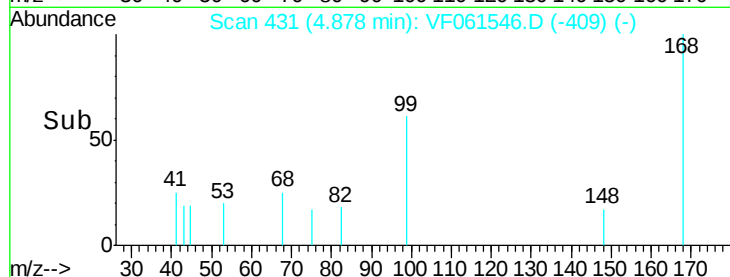
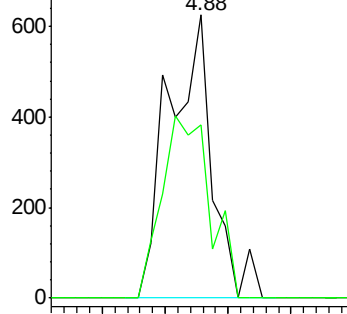
168 100

99 61.3 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 13.570 ug/l

RT: 1.07 min Scan# 45

Delta R.T. -0.02 min

Lab File: VF061546.D

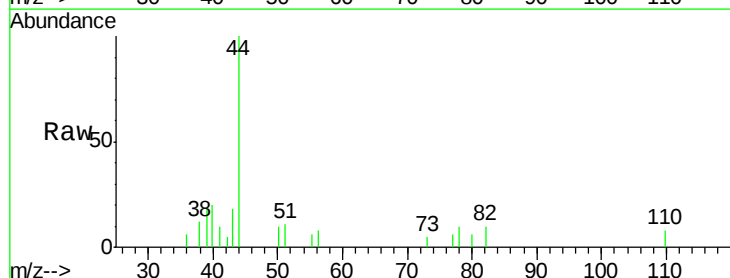
Acq: 7 Feb 2019 15:46

Tgt Ion: 50 Resp: 296

Ion Ratio Lower Upper

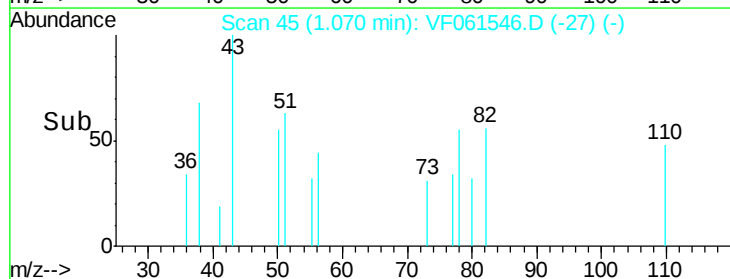
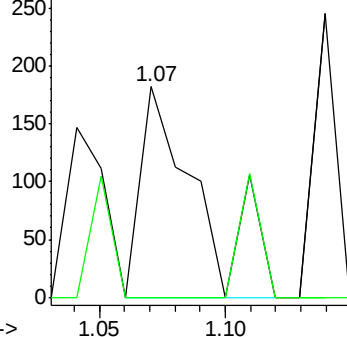
50 100

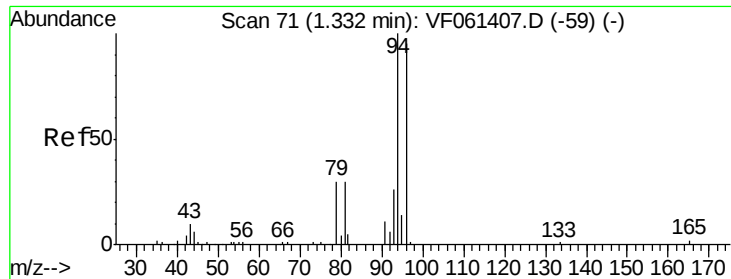
52 0.0 24.6 36.8#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#5

Bromomethane

Concen: 14.859 ug/l

RT: 1.36 min Scan# 74

Delta R.T. 0.02 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Instrument :

MSVOA_F

ClientSampleId :

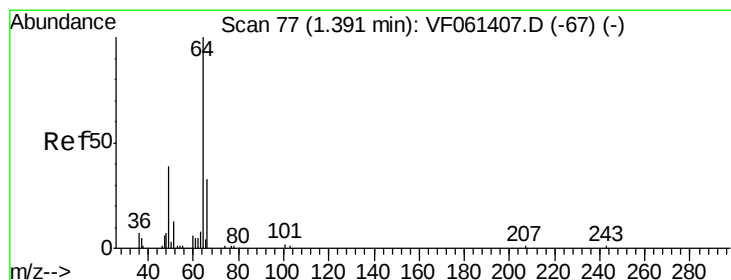
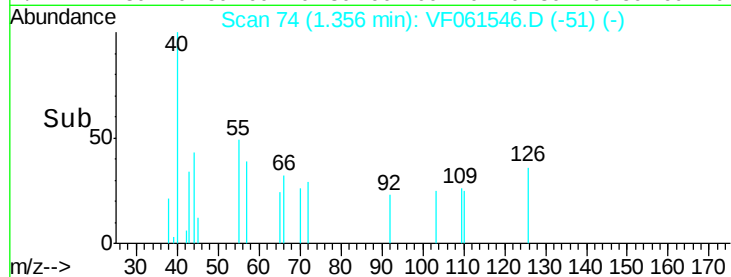
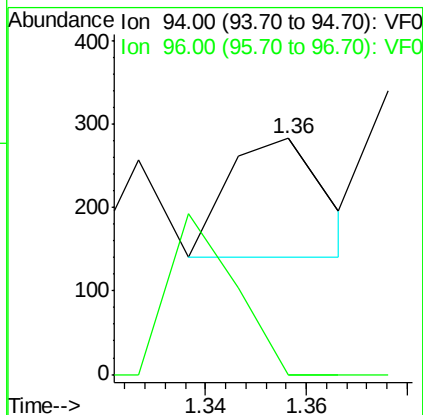
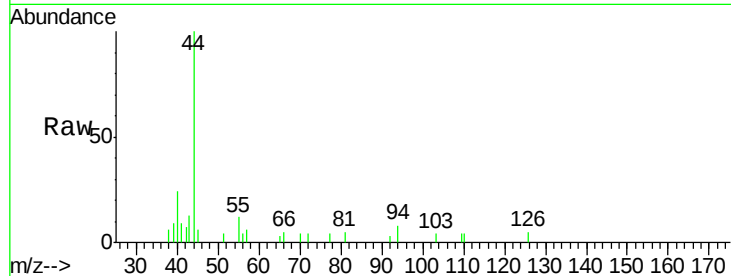
RBR-200050

Tot Ion: 94 Resp: 188

Ion Ratio Lower Upper

94 100

96 0.0 76.0 114.0#



#6

Chloroethane

Concen: 8.025 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.02 min

Lab File: VF061546.D

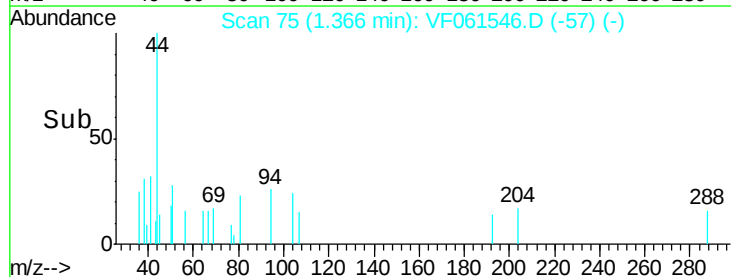
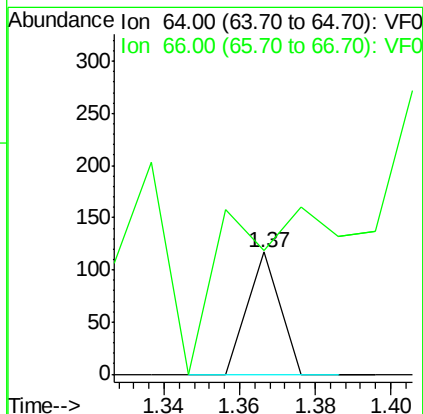
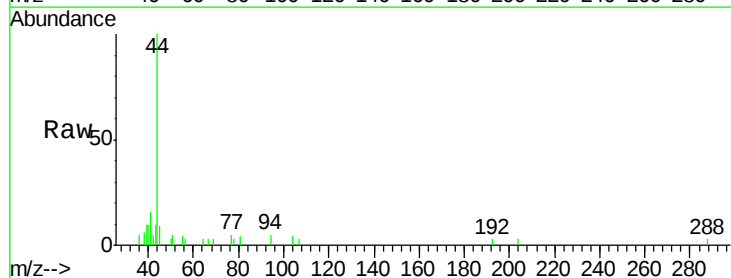
Acq: 7 Feb 2019 15:46

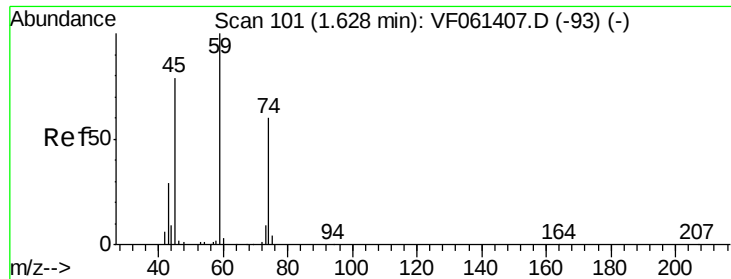
Tgt Ion: 64 Resp: 69

Ion Ratio Lower Upper

64 100

66 100.9 26.6 40.0#





#8

Diethyl Ether

Concen: 17.173 ug/l

RT: 1.71 min Scan# 110

Delta R.T. 0.08 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Instrument :

MSVOA_F

ClientSampleId :

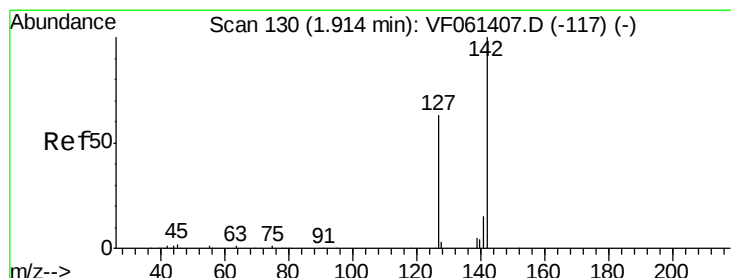
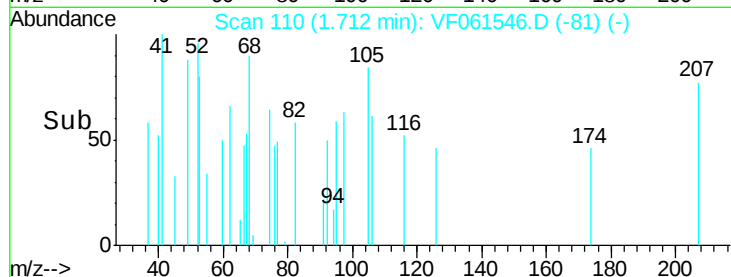
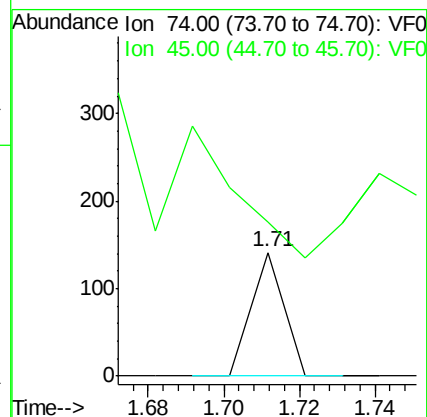
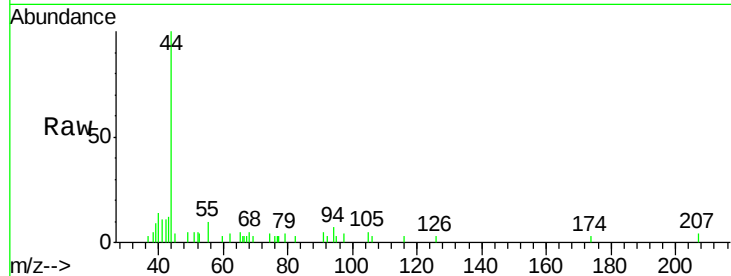
RBR-200050

Tot Ion: 74 Resp: 83

Ion Ratio Lower Upper

74 100

45 124.8 65.8 197.5



#10

Methyl Iodide

Concen: 2.135 ug/l

RT: 2.00 min Scan# 139

Delta R.T. 0.08 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

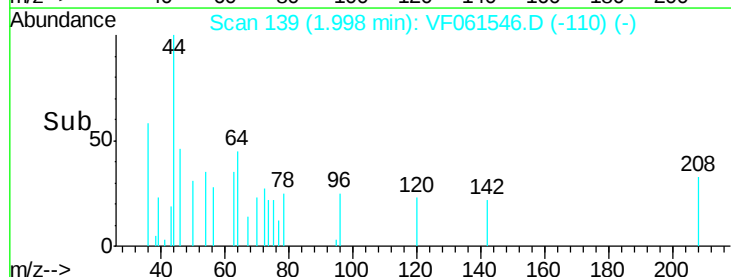
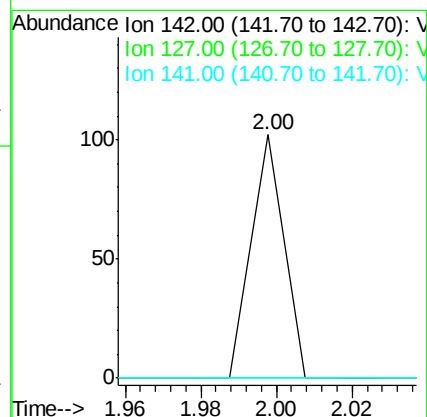
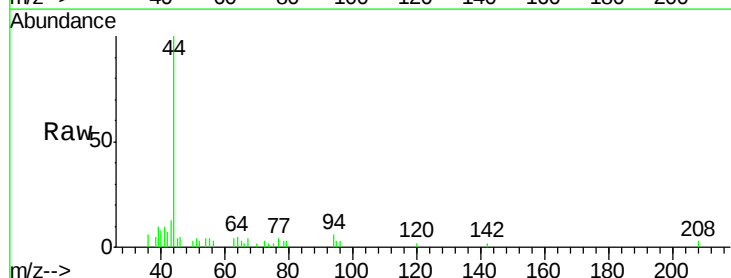
Tgt Ion: 142 Resp: 60

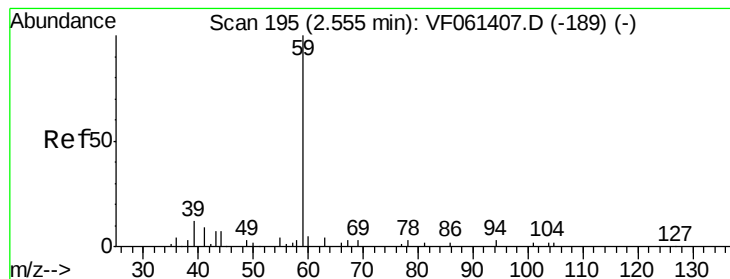
Ion Ratio Lower Upper

142 100

127 0.0 50.7 76.1#

141 0.0 11.8 17.6#



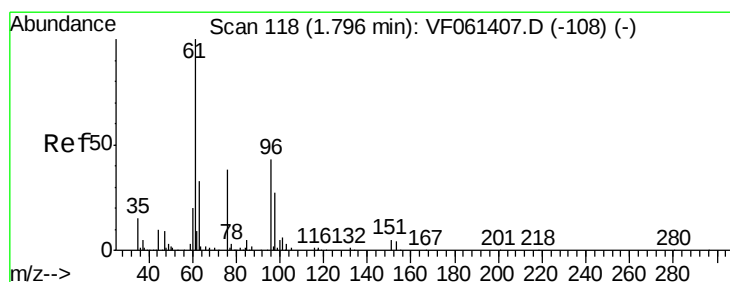
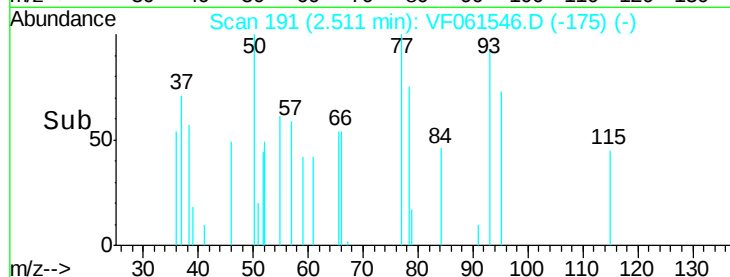
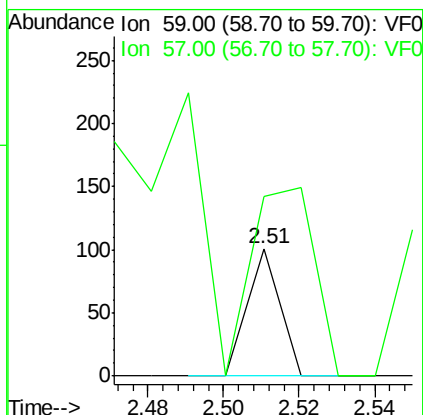
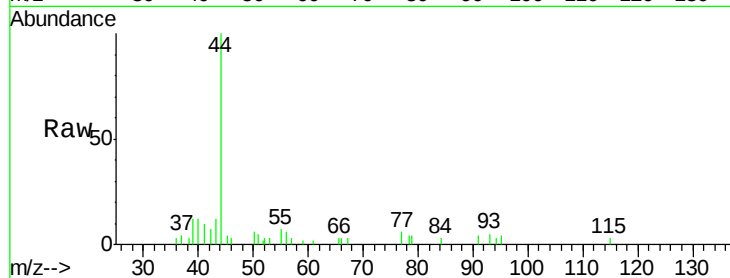


#11

Tert butyl alcohol
Concen: 75.833 ug/l
RT: 2.51 min Scan# 191
Delta R.T. -0.04 min
Lab File: VF061546.D
Acq: 7 Feb 2019 15:46

Instrument :
MSVOA_F
ClientSampled :
RBR-200050

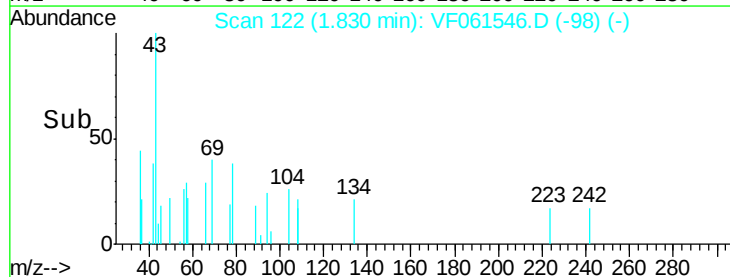
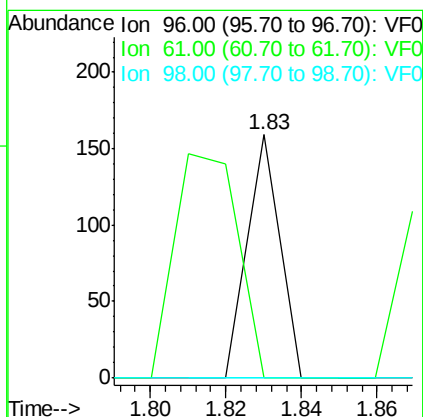
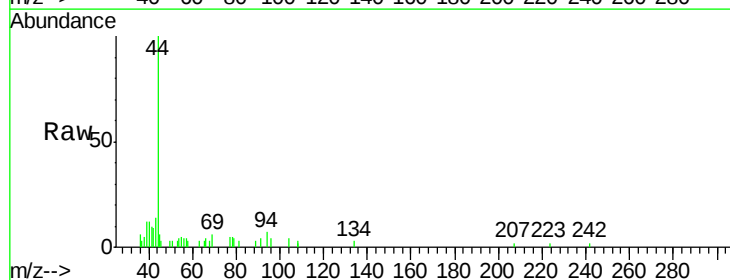
Tot Ion: 59 Resp: 60
Ion Ratio Lower Upper
59 100
57 140.6 11.9 17.9#

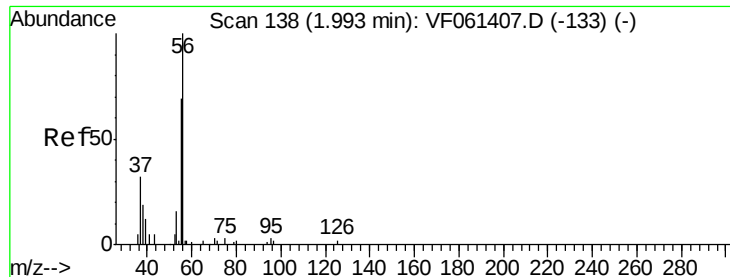


#12

1,1-Dichloroethene
Concen: 6.981 ug/l
RT: 1.83 min Scan# 122
Delta R.T. 0.03 min
Lab File: VF061546.D
Acq: 7 Feb 2019 15:46

Tgt Ion: 96 Resp: 94
Ion Ratio Lower Upper
96 100
61 0.0 186.9 280.3#
98 0.0 53.0 79.4#





#13

Acrolein

Concen: 672.880 ug/l

RT: 1.98 min Scan# 137

Delta R.T. -0.01 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Instrument :

MSVOA_F

ClientSampled :

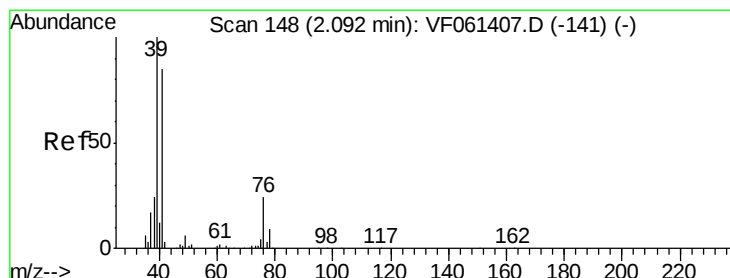
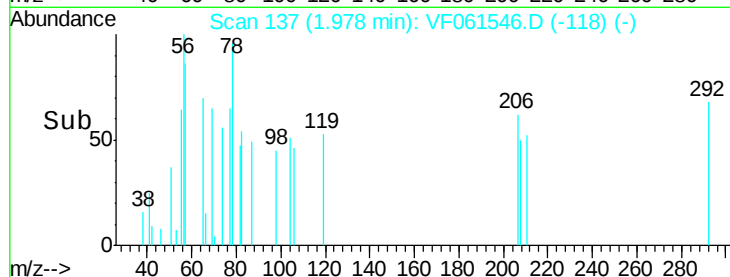
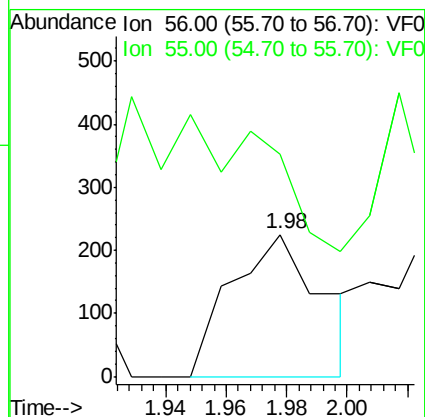
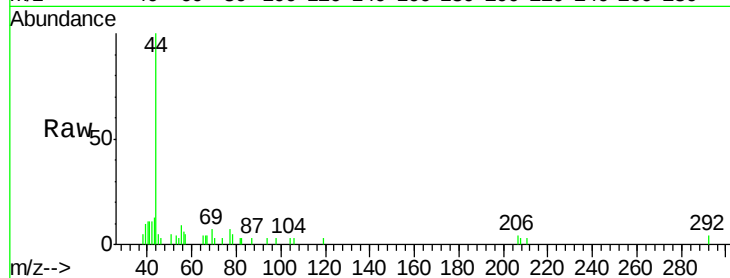
RBR-200050

Tot Ion: 56 Resp: 471

Ion Ratio Lower Upper

56 100

55 156.9 57.5 86.3#



#14

Allyl chloride

Concen: 18.165 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.01 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

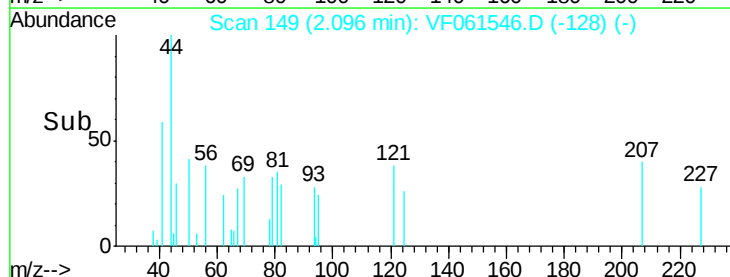
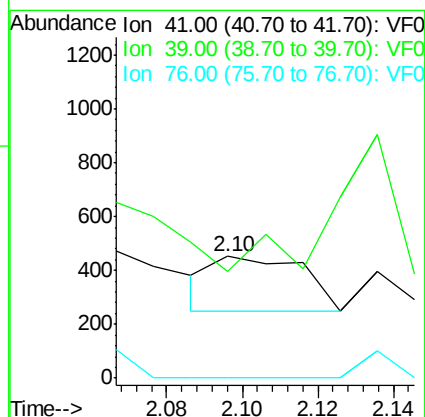
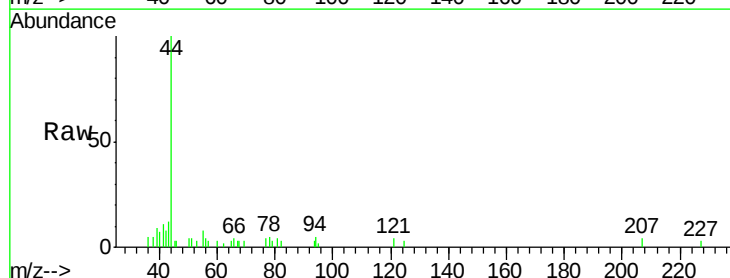
Tgt Ion: 41 Resp: 332

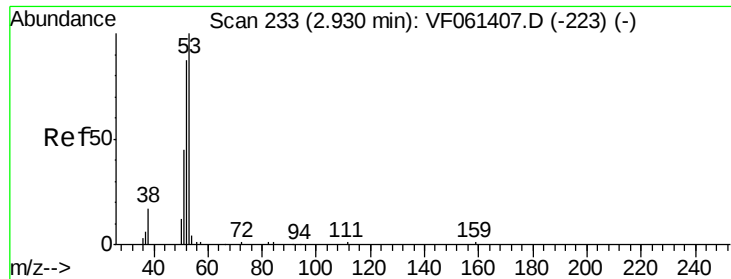
Ion Ratio Lower Upper

41 100

39 87.2 94.6 141.8#

76 0.0 25.9 38.9#





#15

Acrylonitrile

Concen: 398.681 ug/l

RT: 2.92 min Scan# 233

Delta R.T. -0.01 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Instrument :

MSVOA_F

ClientSampleId :

RBR-200050

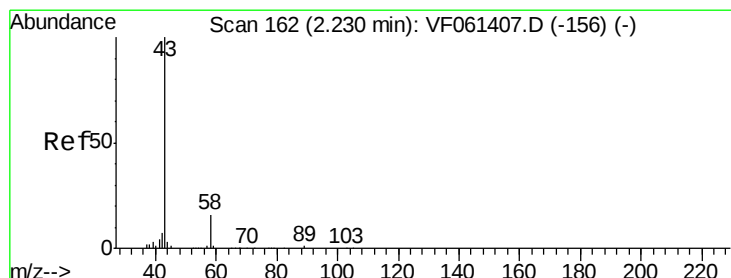
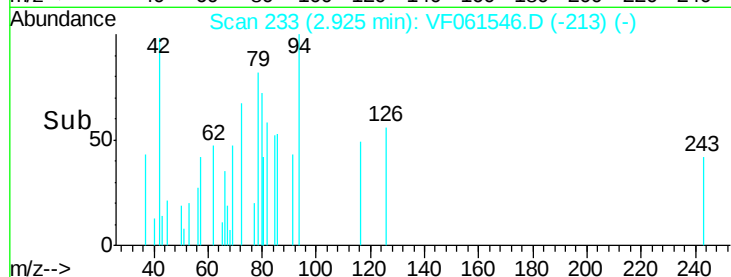
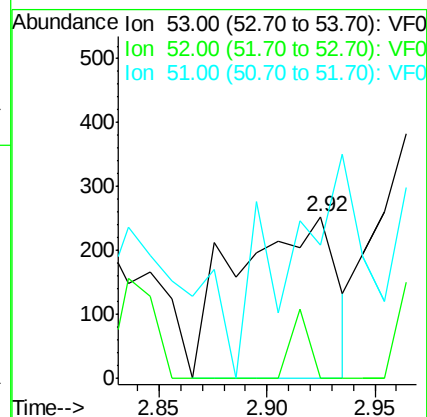
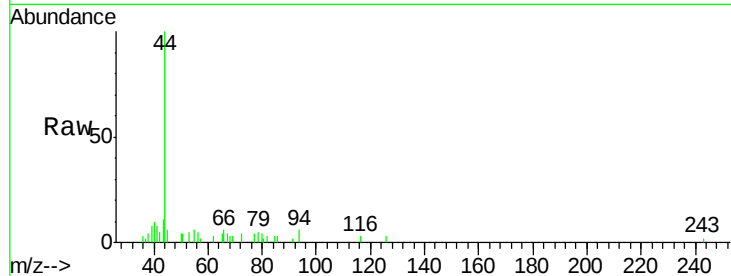
Tot Ion: 53 Resp: 808

Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

51 82.5 36.8 55.2#



#16

Acetone

Concen: 130.670 ug/l

RT: 2.09 min Scan# 148

Delta R.T. -0.14 min

Lab File: VF061546.D

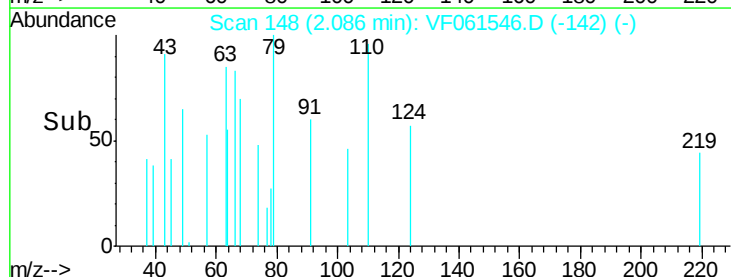
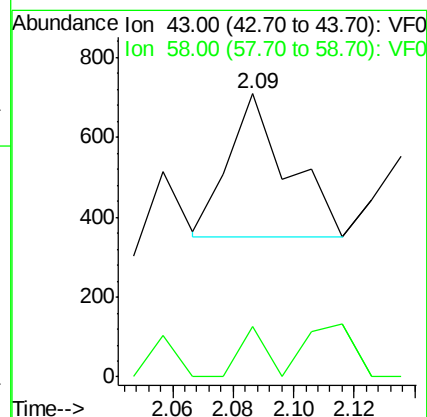
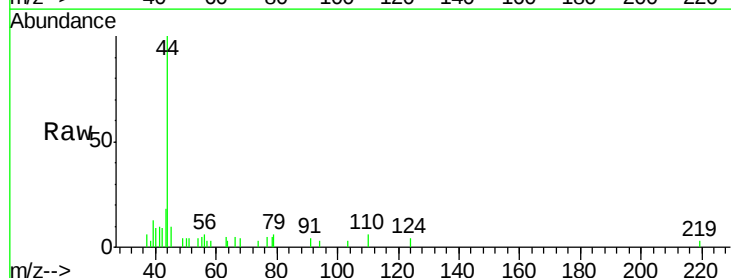
Acq: 7 Feb 2019 15:46

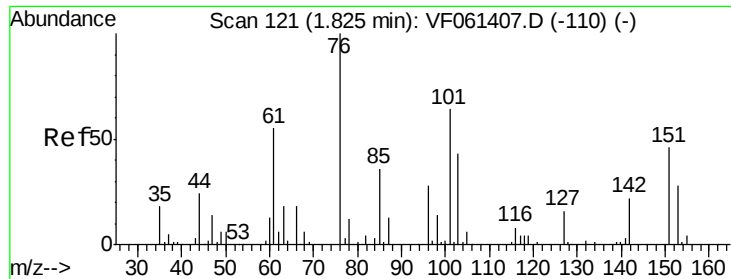
Tgt Ion: 43 Resp: 490

Ion Ratio Lower Upper

43 100

58 17.8 13.3 19.9

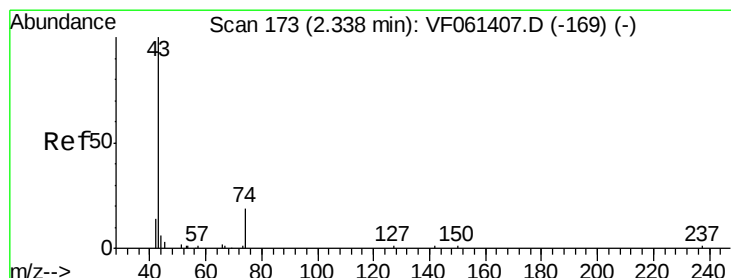
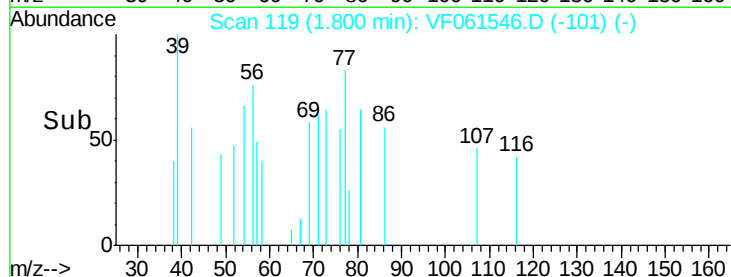
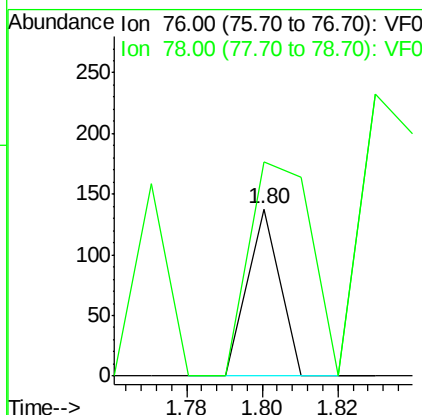
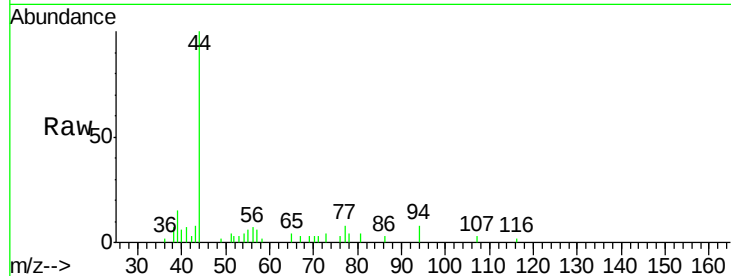




#17
Carbon Disulfide
Concen: 1.953 ug/l
RT: 1.80 min Scan# 119
Delta R.T. -0.02 min
Lab File: VF061546.D
Acq: 7 Feb 2019 15:46

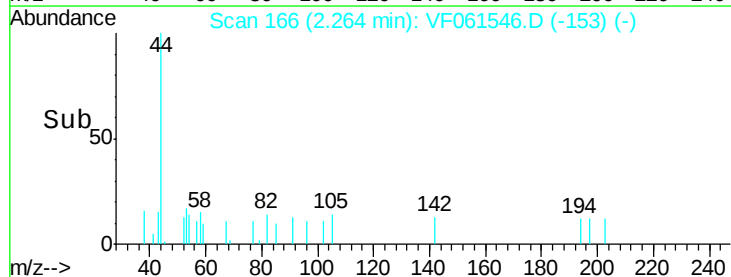
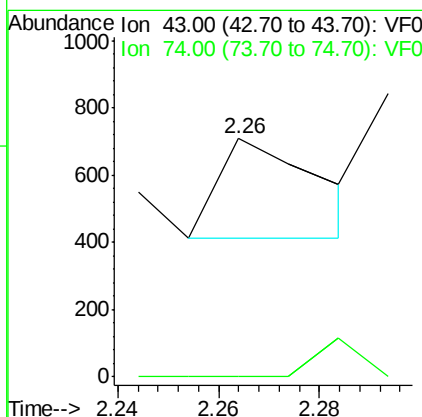
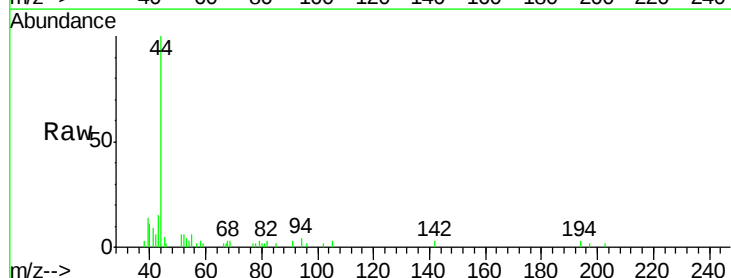
Instrument :
MSVOA_F
ClientSampled :
RBR-200050

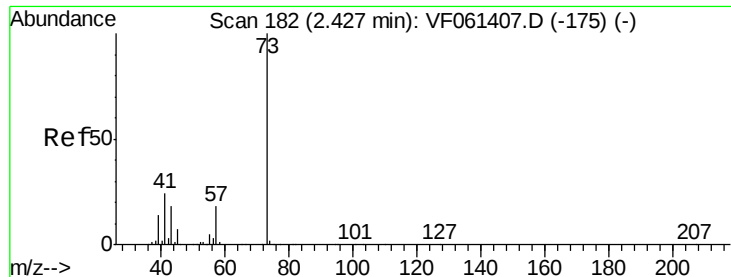
Tot Ion: 76 Resp: 82
Ion Ratio Lower Upper
76 100
78 128.3 9.6 14.4#



#18
Methyl Acetate
Concen: 54.057 ug/l
RT: 2.26 min Scan# 166
Delta R.T. -0.07 min
Lab File: VF061546.D
Acq: 7 Feb 2019 15:46

Tgt Ion: 43 Resp: 402
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#



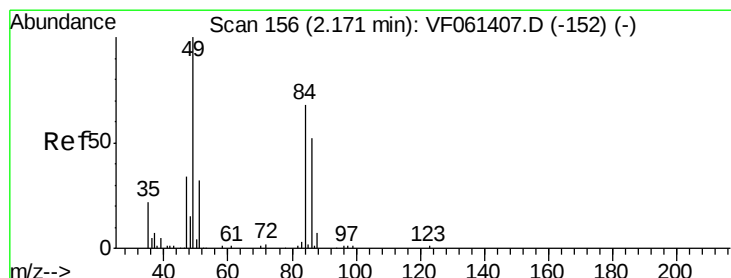
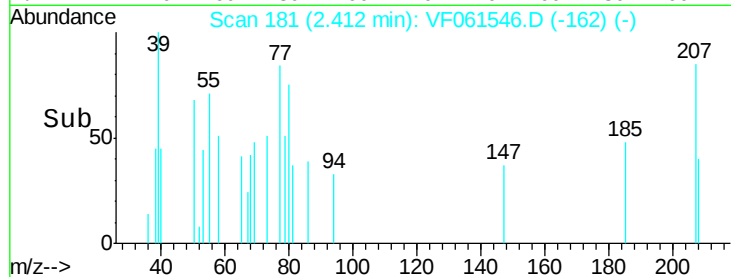
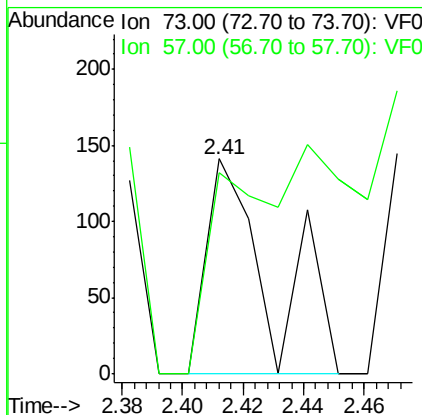
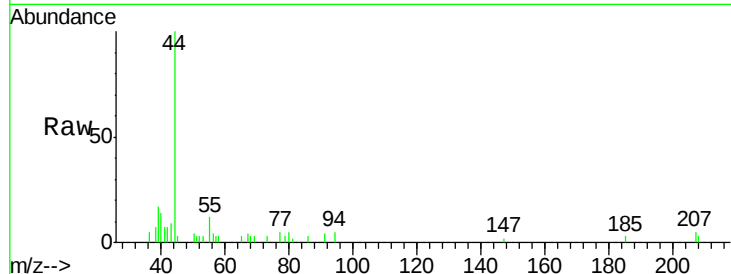


#19

Methyl tert-butyl Ether
 Concen: 6.891 ug/l
 RT: 2.41 min Scan# 181
 Delta R.T. -0.02 min
 Lab File: VF061546.D
 Acq: 7 Feb 2019 15:46

Instrument :
 MSVOA_F
 ClientSampleId :
 RBR-200050

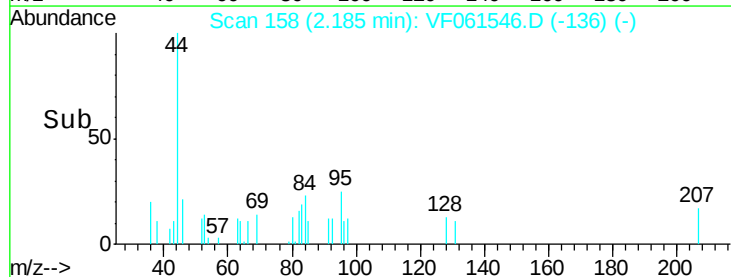
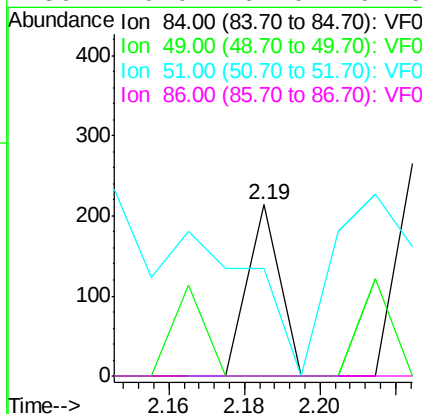
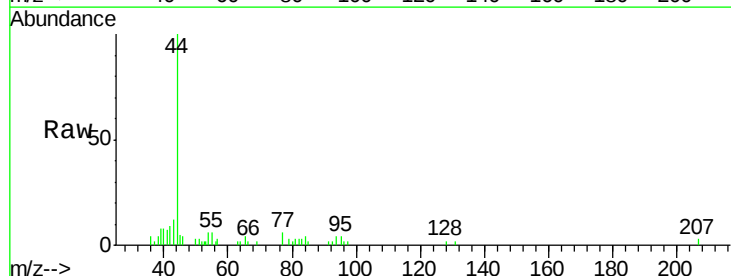
Tot Ion: 73 Resp: 208
 Ion Ratio Lower Upper
 73 100
 57 93.6 14.8 22.2#

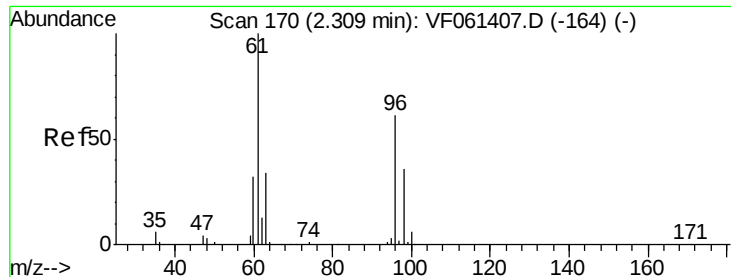


#20

Methylene Chloride
 Concen: 8.519 ug/l
 RT: 2.19 min Scan# 158
 Delta R.T. 0.02 min
 Lab File: VF061546.D
 Acq: 7 Feb 2019 15:46

Tgt Ion: 84 Resp: 127
 Ion Ratio Lower Upper
 84 100
 49 0.0 120.0 180.0#
 51 62.6 38.6 58.0#
 86 0.0 61.0 91.6#





#21

trans-1,2-Dichloroethene

Concen: 5.062 ug/l

RT: 2.31 min Scan# 171

Delta R.T. 0.00 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Instrument :

MSVOA_F

ClientSampleId :

RBR-200050

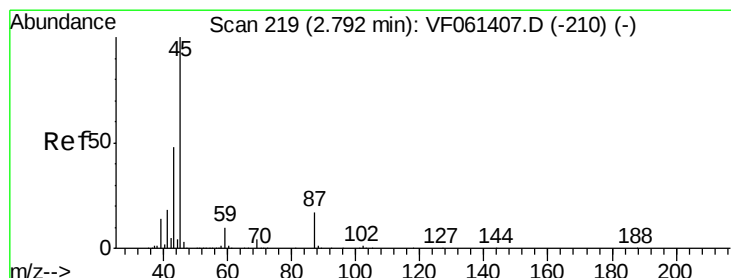
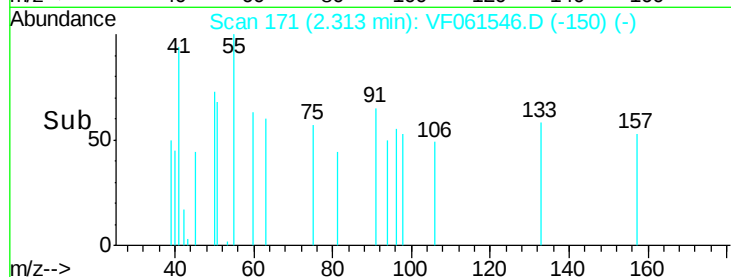
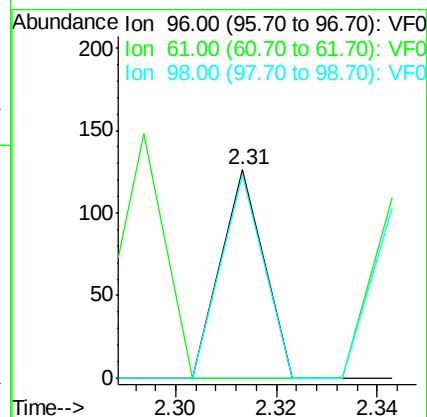
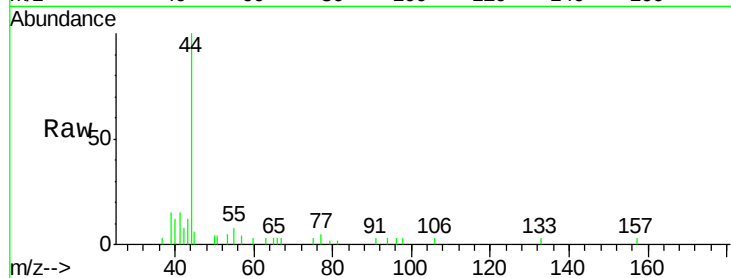
Tot Ion: 96 Resp: 75

Ion Ratio Lower Upper

96 100

61 0.0 131.8 197.8#

98 97.6 47.4 71.0#



#22

Diisopropyl ether

Concen: 3.589 ug/l

RT: 2.82 min Scan# 222

Delta R.T. 0.02 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Tgt Ion: 45 Resp: 172

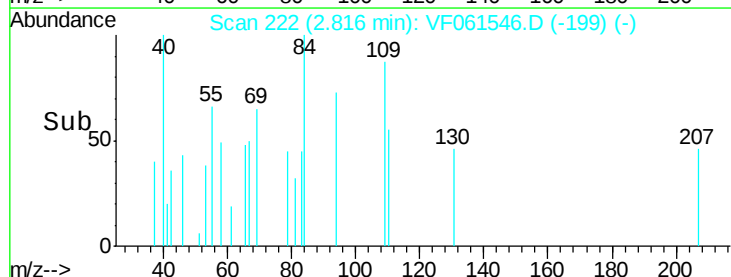
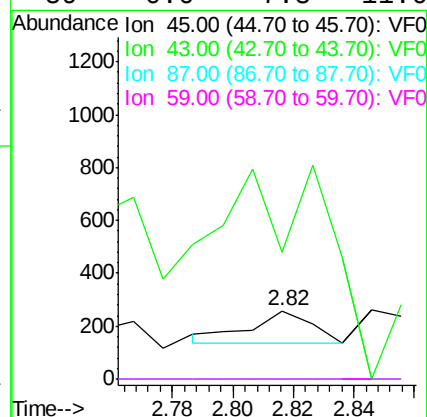
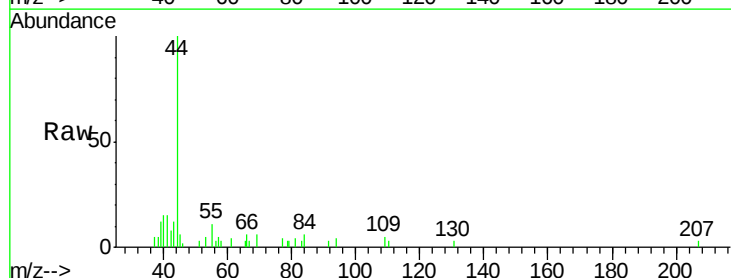
Ion Ratio Lower Upper

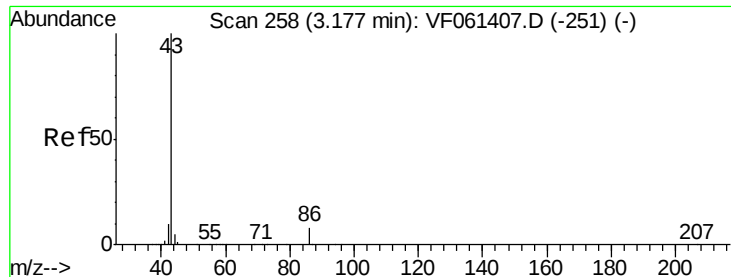
45 100

43 185.7 39.0 58.6#

87 0.0 13.9 20.9#

59 0.0 7.8 11.6#





#23

Vinyl Acetate

Concen: 17.199 ug/l

RT: 3.16 min Scan# 257

Delta R.T. -0.01 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Instrument :

MSVOA_F

ClientSampleId :

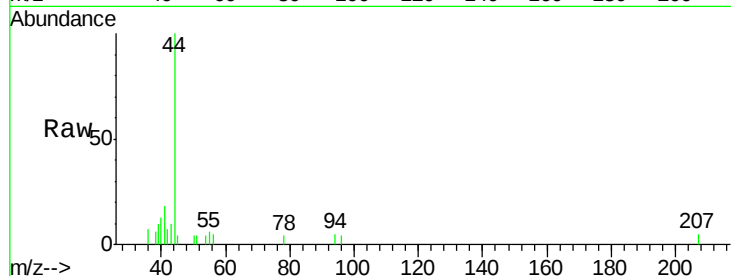
RBR-200050

Tot Ion: 43 Resp: 299

Ion Ratio Lower Upper

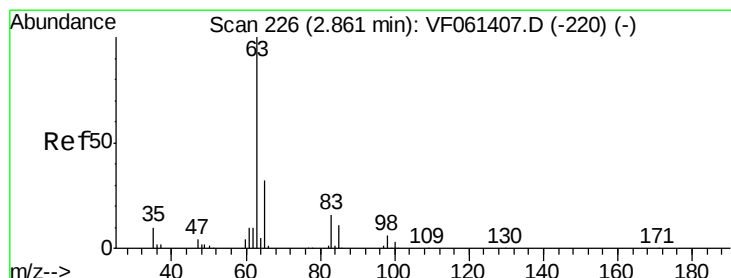
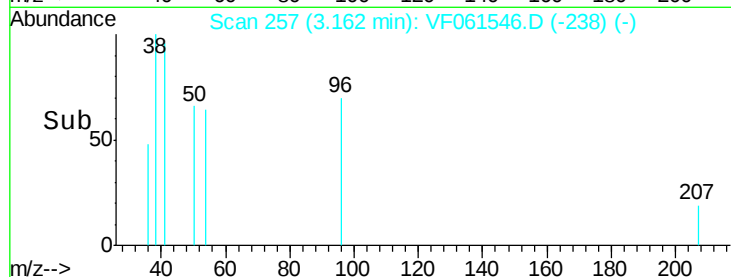
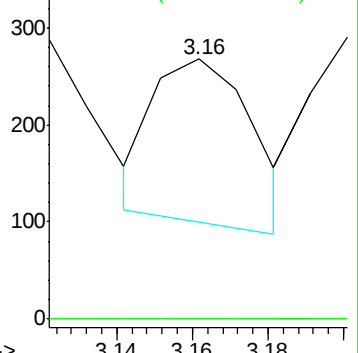
43 100

86 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#24

1,1-Dichloroethane

Concen: 3.325 ug/l

RT: 2.88 min Scan# 228

Delta R.T. 0.01 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

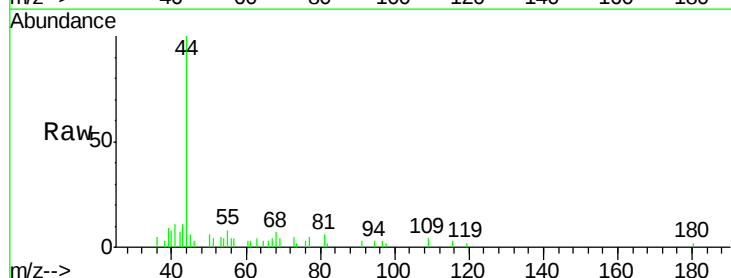
Tgt Ion: 63 Resp: 100

Ion Ratio Lower Upper

63 100

98 61.5 2.9 8.8#

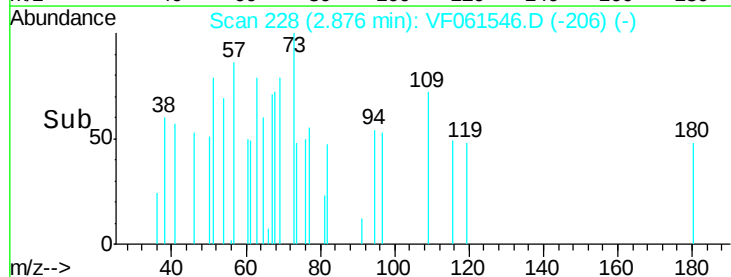
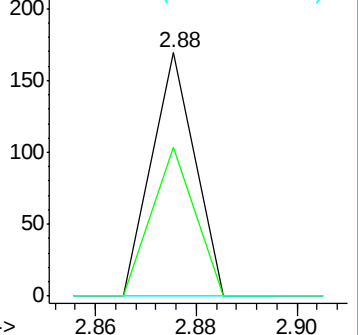
100 0.0 1.6 4.8#

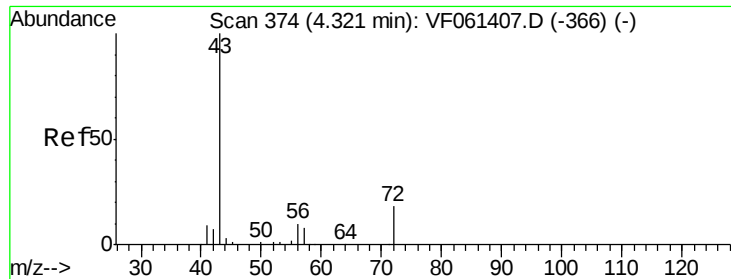


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#25

2-Butanone

Concen: 27.582 ug/l

RT: 4.33 min Scan# 375

Delta R.T. 0.00 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Instrument :

MSVOA_F

ClientSampleId :

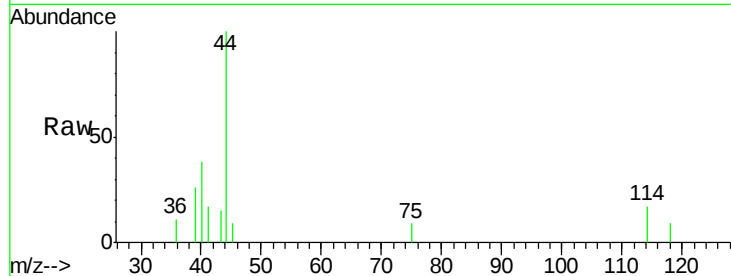
RBR-200050

Tot Ion: 43 Resp: 172

Ion Ratio Lower Upper

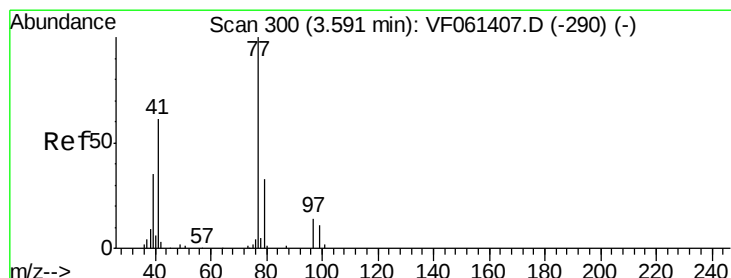
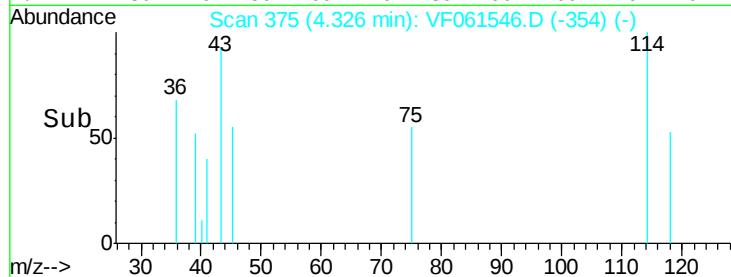
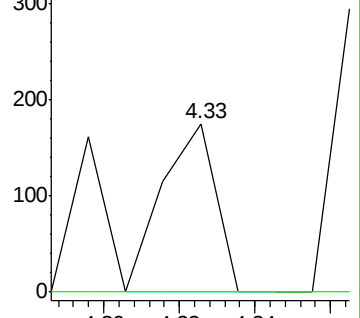
43 100

72 0.0 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 4.329 ug/l

RT: 3.58 min Scan# 299

Delta R.T. -0.01 min

Lab File: VF061546.D

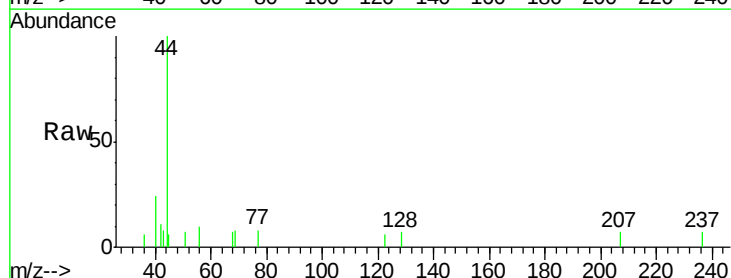
Acq: 7 Feb 2019 15:46

Tgt Ion: 77 Resp: 80

Ion Ratio Lower Upper

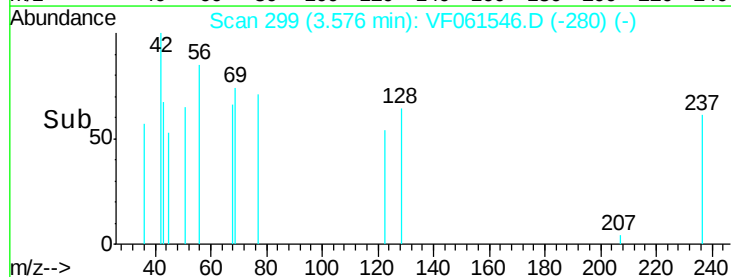
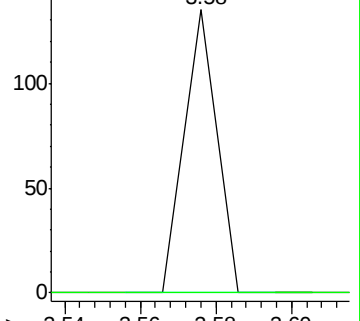
77 100

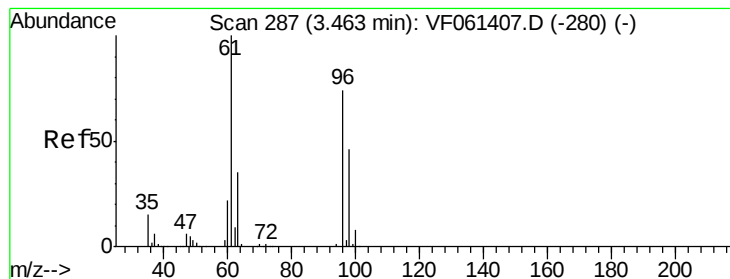
97 0.0 8.5 25.5#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



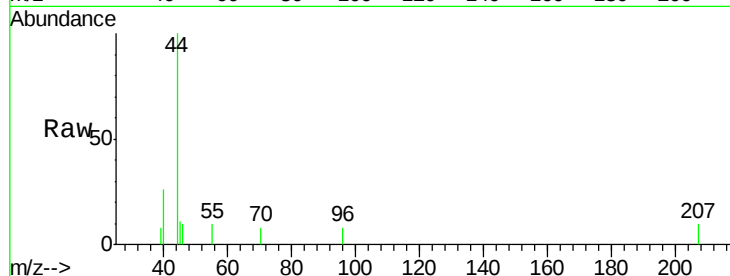


#27

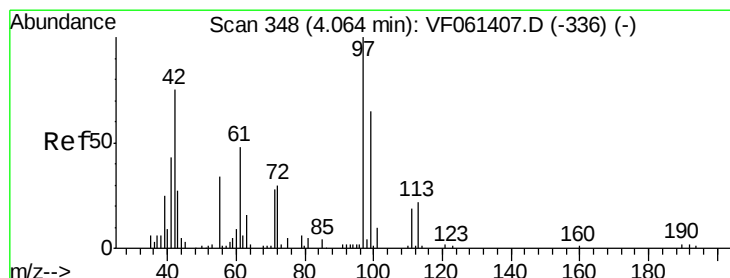
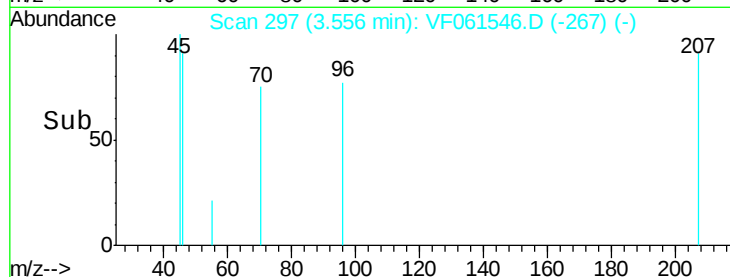
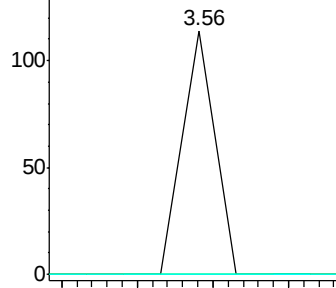
cis-1,2-Dichloroethene
 Concen: 3.064 ug/l
 RT: 3.56 min Scan# 297
 Delta R.T. 0.09 min
 Lab File: VF061546.D
 Acq: 7 Feb 2019 15:46

Instrument :
 MSVOA_F
 ClientSampleId :
 RBR-200050

Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	270.2
98	0.0	0.0	124.0



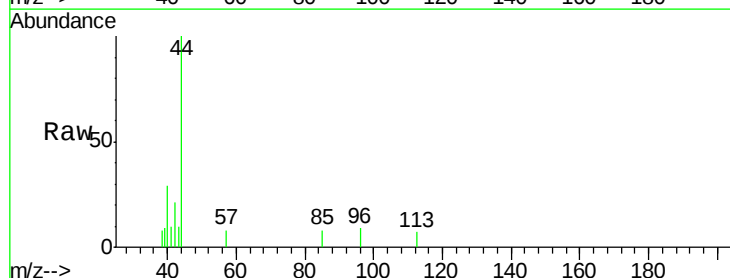
Abundance Ion 96.00 (95.70 to 96.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 98.00 (97.70 to 98.70): VF0



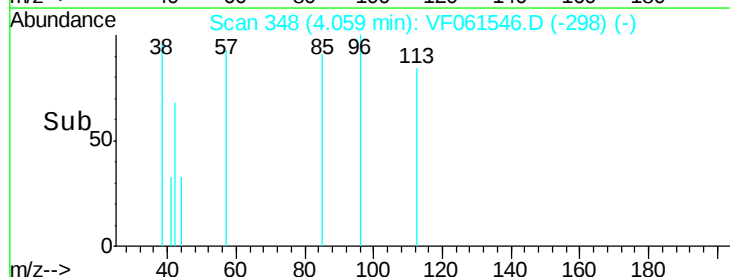
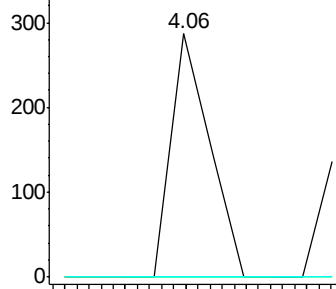
#29

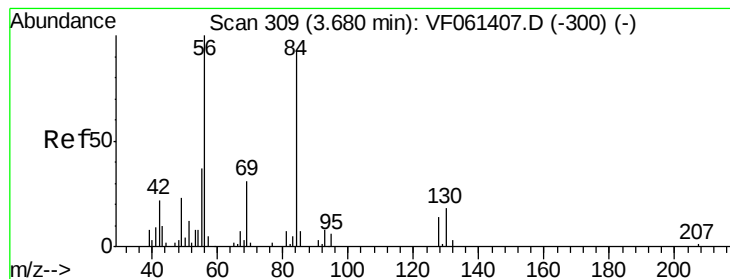
Tetrahydrofuran
 Concen: 94.967 ug/l
 RT: 4.06 min Scan# 348
 Delta R.T. -0.01 min
 Lab File: VF061546.D
 Acq: 7 Feb 2019 15:46

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	28.9	43.3#
71	0.0	29.6	44.4#



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





#31

Cyclohexane

Concen: 2.297 ug/l

RT: 3.69 min Scan# 311

Delta R.T. 0.01 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Instrument :

MSVOA_F

ClientSampleId :

RBR-200050

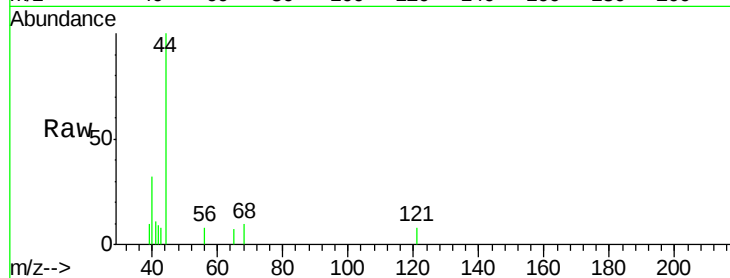
Tot Ion: 56 Resp: 69

Ion Ratio Lower Upper

56 100

69 0.0 24.6 36.8#

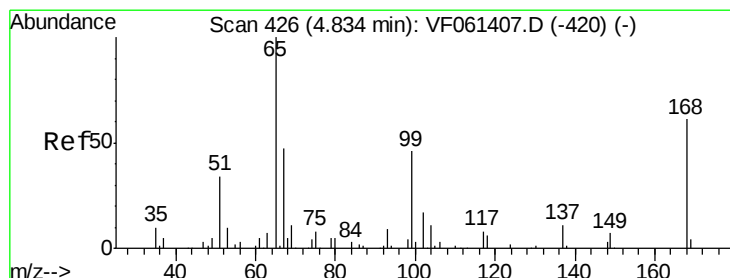
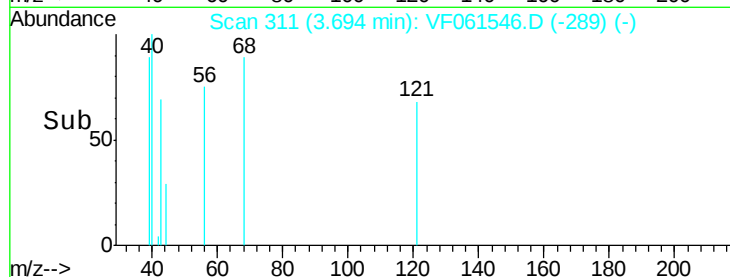
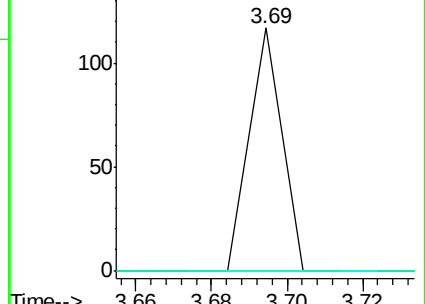
84 0.0 74.2 111.2#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 15.407 ug/l

RT: 4.85 min Scan# 428

Delta R.T. 0.01 min

Lab File: VF061546.D

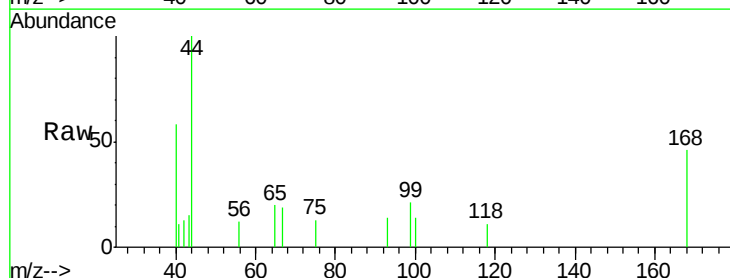
Acq: 7 Feb 2019 15:46

Tgt Ion: 65 Resp: 288

Ion Ratio Lower Upper

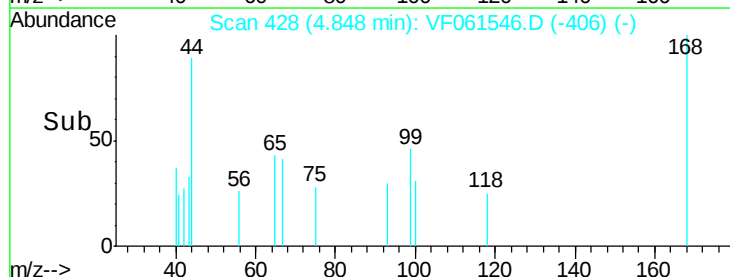
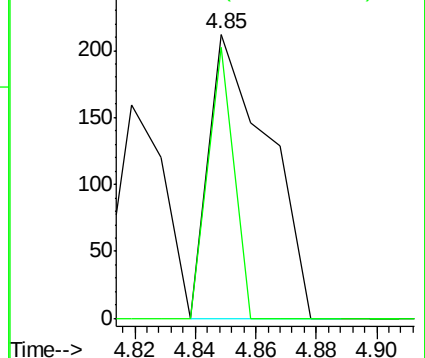
65 100

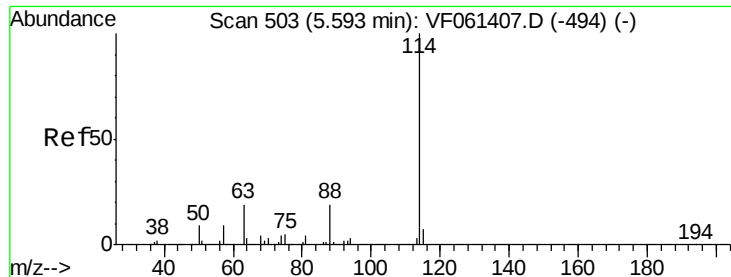
67 95.3 0.0 99.8



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: 5.59 min Scan# 503

Delta R.T. -0.01 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Instrument :

MSVOA_F

ClientSampleId :

RBR-200050

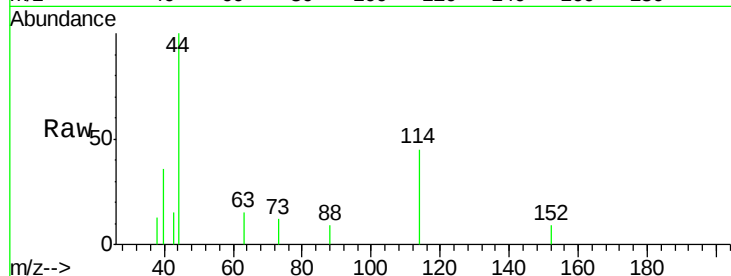
Tot Ion:114 Resp: 1616

Ion Ratio Lower Upper

114 100

63 33.4 0.0 39.0

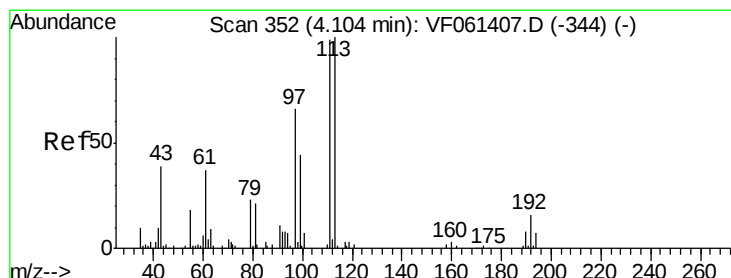
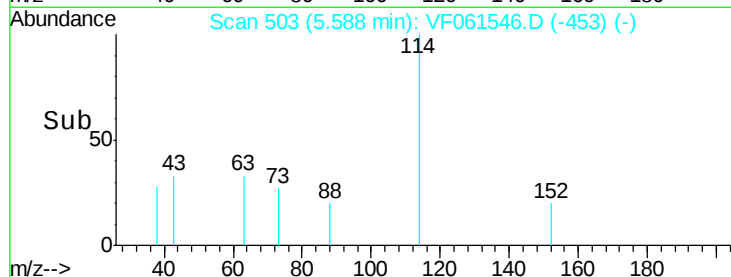
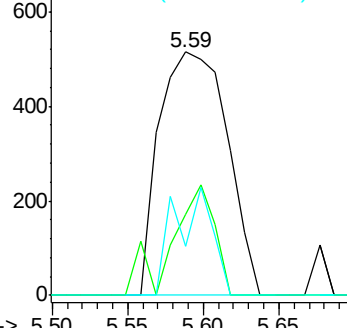
88 20.2 0.0 37.4



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: 33.486 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

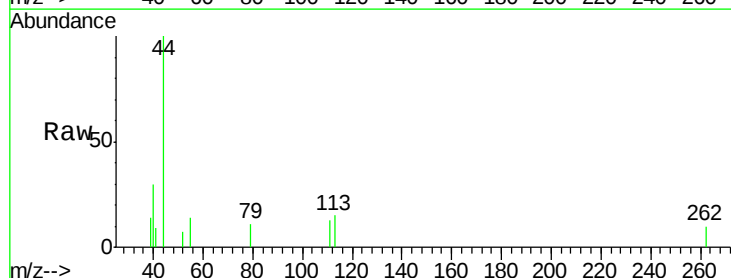
Tgt Ion:113 Resp: 427

Ion Ratio Lower Upper

113 100

111 82.8 79.4 119.0

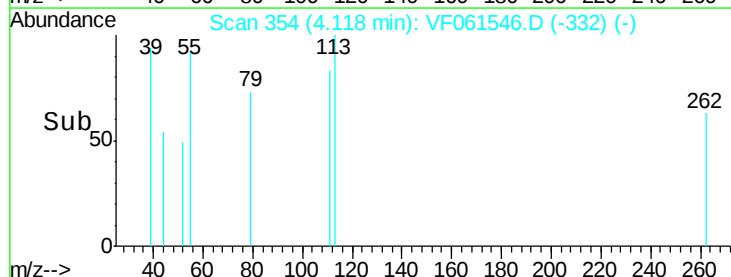
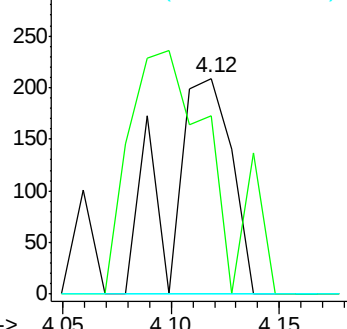
192 0.0 12.4 18.6#

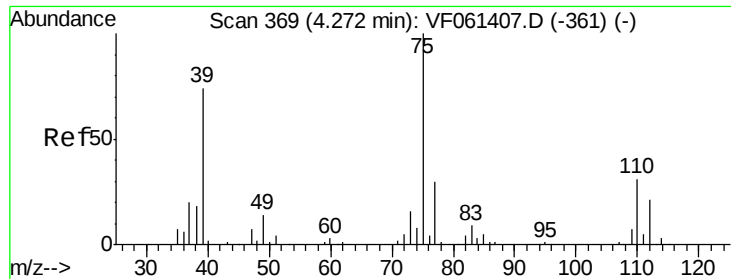


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#36

1,1-Dichloropropene

Concen: 3.202 ug/l

RT: 4.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Instrument :

MSVOA_F

ClientSampleId :

RBR-200050

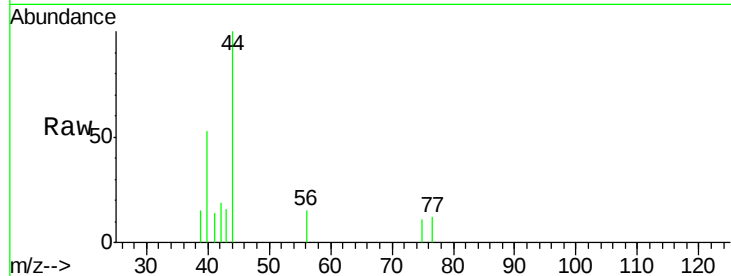
Tot Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

110 0.0 15.8 47.3#

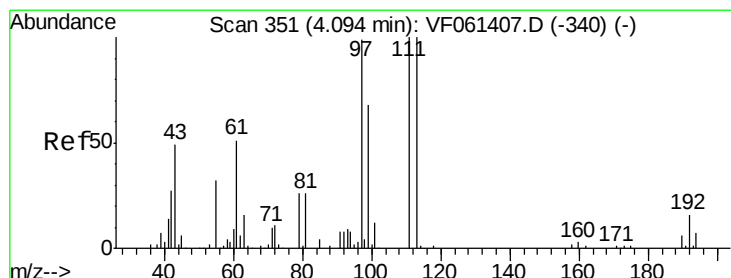
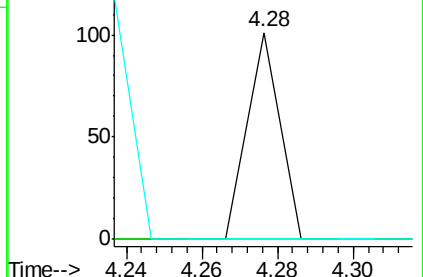
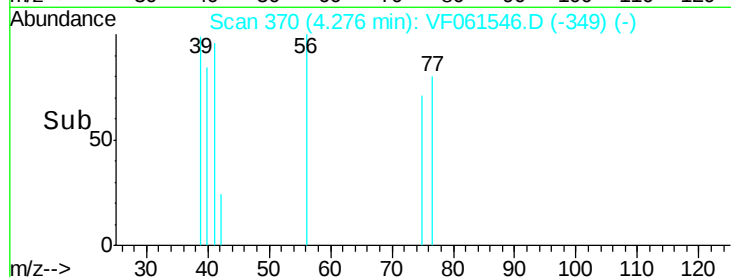
77 0.0 24.0 36.0#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#37

Ethyl Acetate

Concen: 18.692 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.00 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

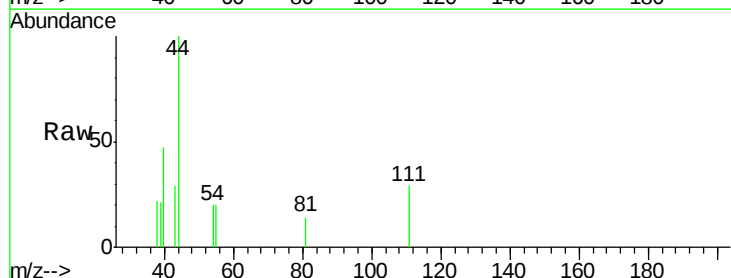
Tgt Ion: 43 Resp: 140

Ion Ratio Lower Upper

43 100

61 0.0 81.7 122.5#

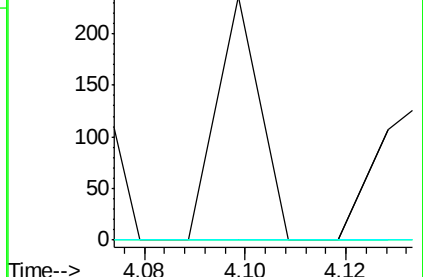
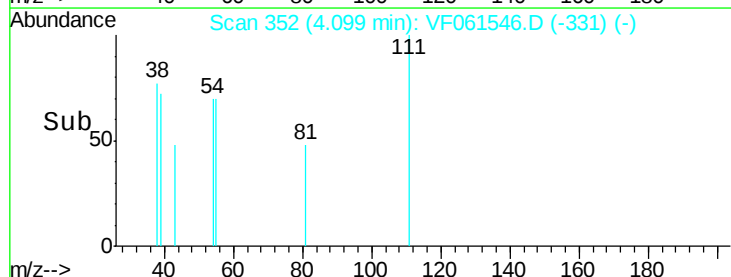
70 0.0 6.2 9.2#

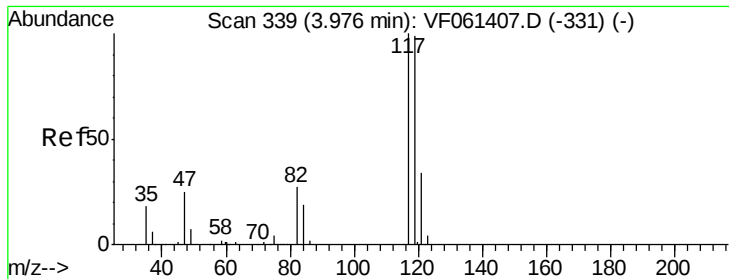


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0





#38

Carbon Tetrachloride

Concen: 3.724 ug/l

RT: 3.90 min Scan# 332

Delta R.T. -0.07 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Instrument :

MSVOA_F

ClientSampled :

RBR-200050

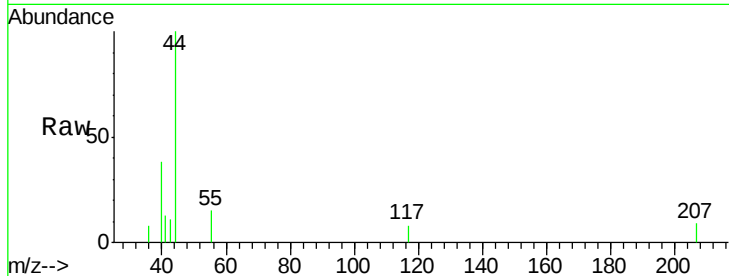
Tot Ion:117 Resp: 61

Ion Ratio Lower Upper

117 100

119 0.0 79.0 118.6#

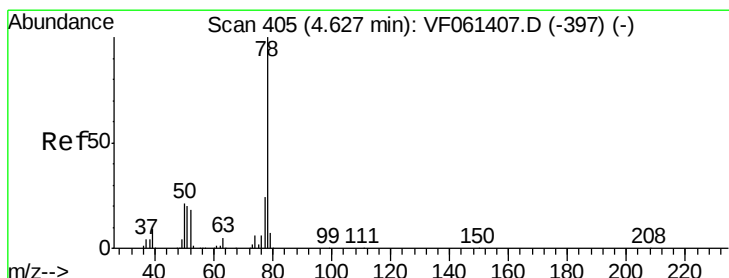
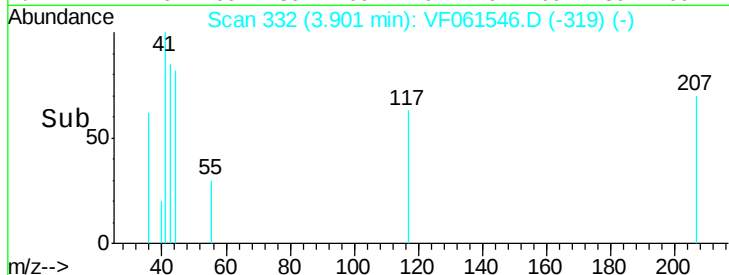
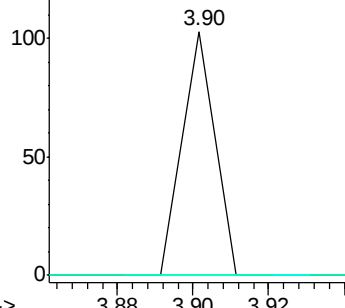
121 0.0 27.0 40.6#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#40

Benzene

Concen: 1.967 ug/l

RT: 4.56 min Scan# 399

Delta R.T. -0.06 min

Lab File: VF061546.D

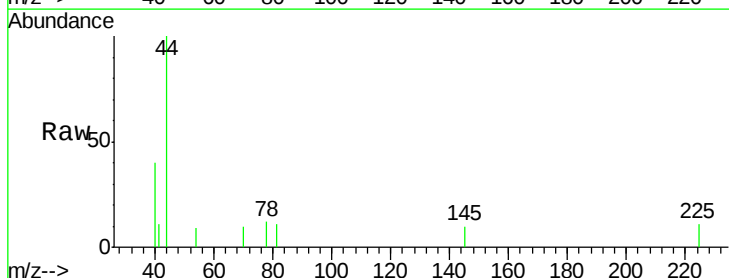
Acq: 7 Feb 2019 15:46

Tgt Ion: 78 Resp: 82

Ion Ratio Lower Upper

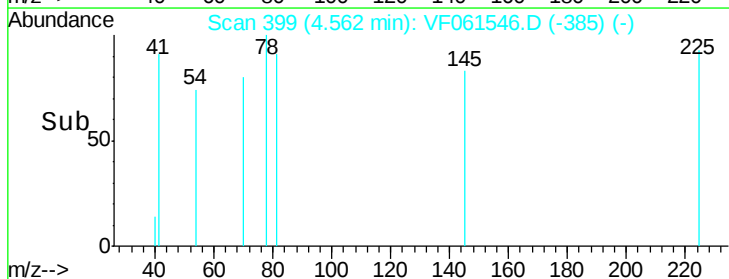
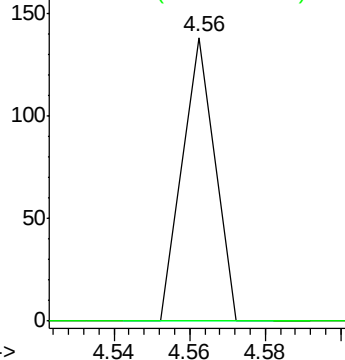
78 100

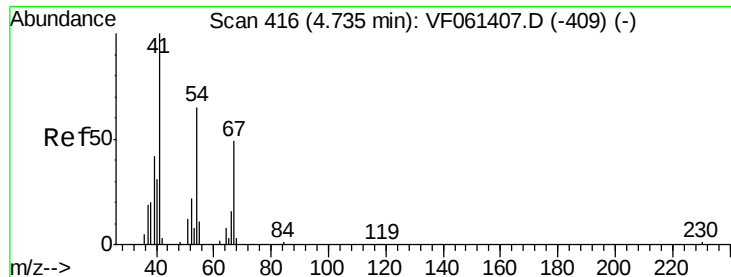
77 0.0 19.0 28.6#



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0

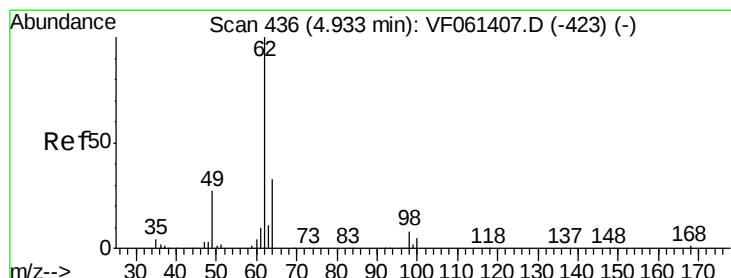
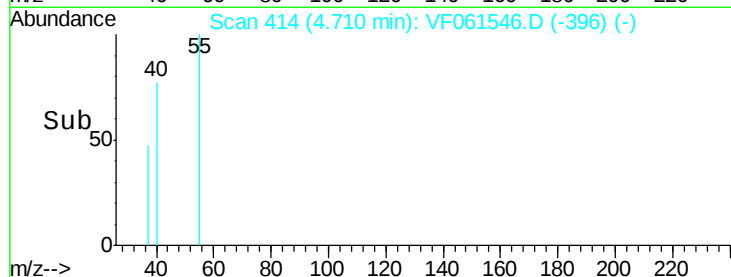
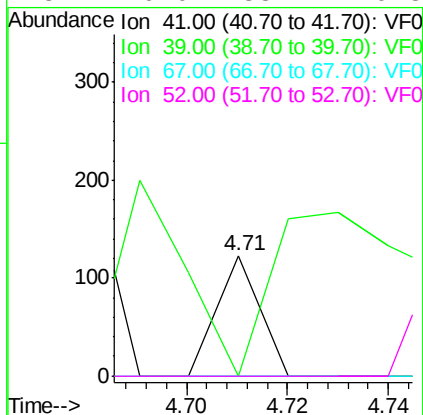
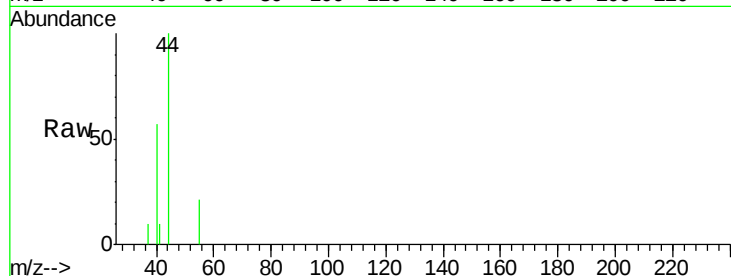




#41
Methacrylonitrile
Concen: 18.317 ug/l
RT: 4.71 min Scan# 414
Delta R.T. -0.02 min
Lab File: VF061546.D
Acq: 7 Feb 2019 15:46

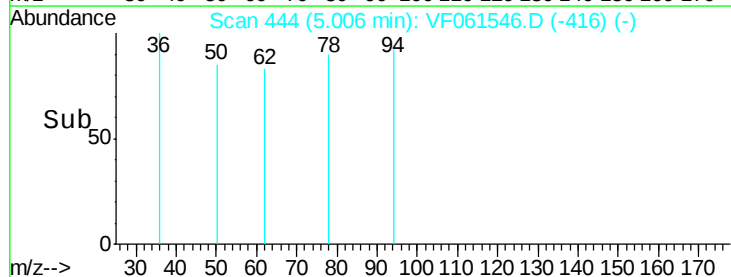
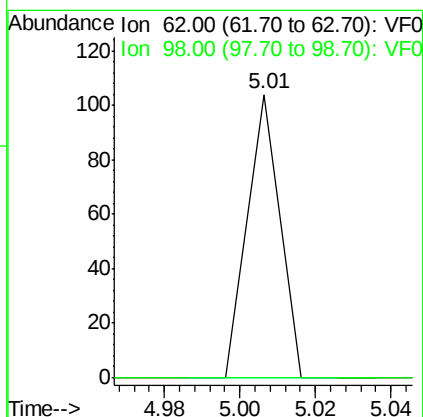
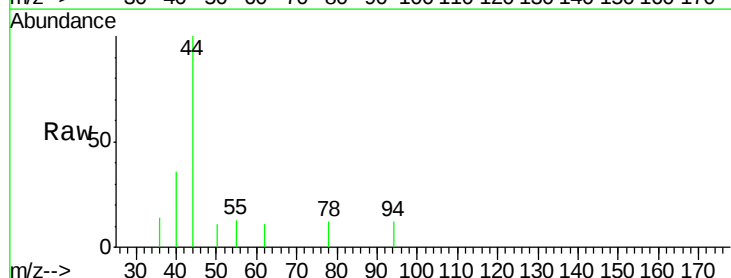
Instrument :
MSVOA_F
ClientSampleId :
RBR-200050

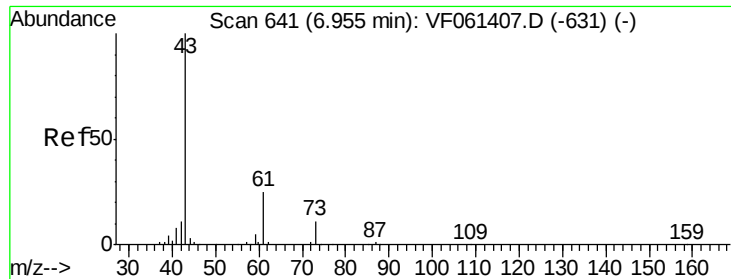
Tot Ion:	41	Resp:	73
Ion	Ratio	Lower	Upper
41	100		
39	0.0	43.1	64.7#
67	0.0	38.8	58.2#
52	0.0	33.2	49.8#



#42
1,2-Dichloroethane
Concen: 4.173 ug/l
RT: 5.01 min Scan# 444
Delta R.T. 0.07 min
Lab File: VF061546.D
Acq: 7 Feb 2019 15:46

Tgt Ion:	62	Resp:	62
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	17.0





#43

Isopropyl Acetate

Concen: 6.383 ug/l

RT: 6.96 min Scan# 642

Delta R.T. 0.00 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Instrument :

MSVOA_F

ClientSampleId :

RBR-200050

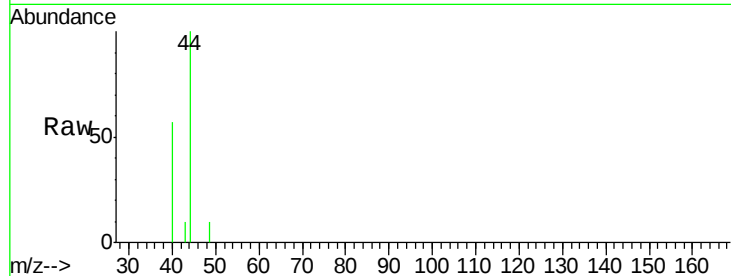
Tot Ion: 43 Resp: 60

Ion Ratio Lower Upper

43 100

61 0.0 20.3 30.5#

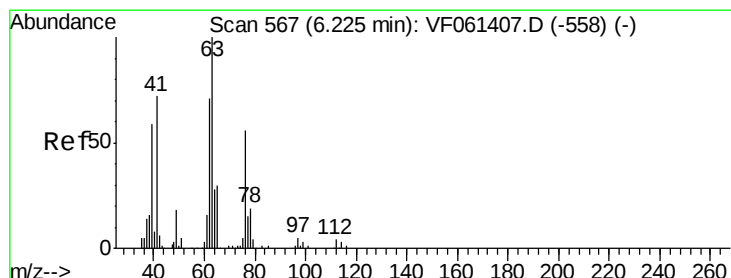
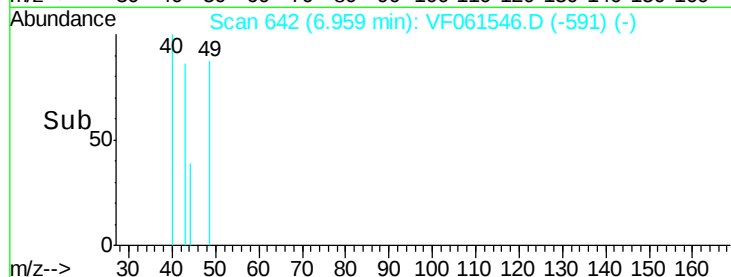
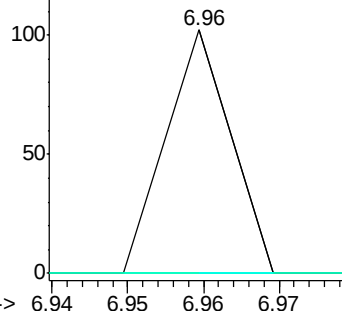
87 0.0 0.5 0.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#45

1,2-Dichloropropane

Concen: 5.757 ug/l

RT: 6.33 min Scan# 578

Delta R.T. 0.10 min

Lab File: VF061546.D

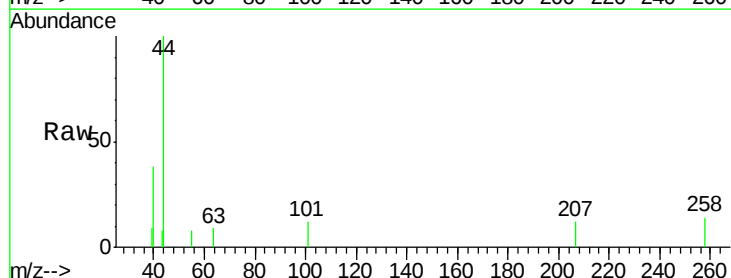
Acq: 7 Feb 2019 15:46

Tgt Ion: 63 Resp: 63

Ion Ratio Lower Upper

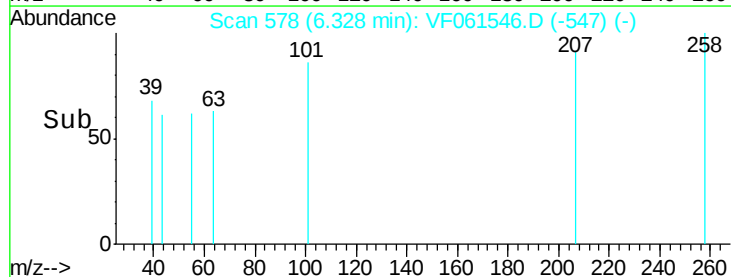
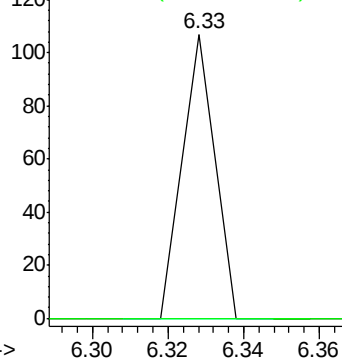
63 100

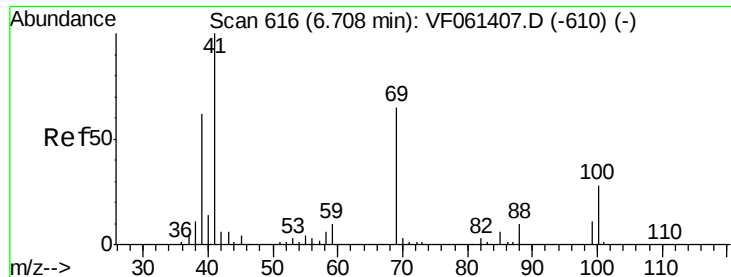
65 0.0 24.4 36.6#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0





#48

Methyl methacrylate

Concen: 68.914 ug/l

RT: 6.71 min Scan# 617

Delta R.T. 0.00 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Instrument :

MSVOA_F

ClientSampled :

RBR-200050

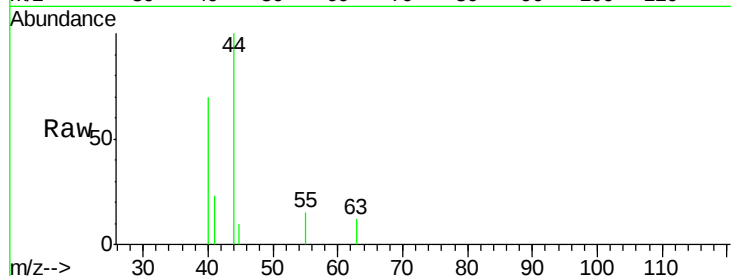
Tot Ion: 41 Resp: 435

Ion Ratio Lower Upper

41 100

69 0.0 51.7 77.5#

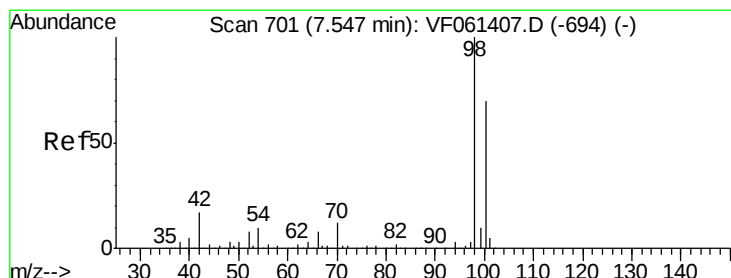
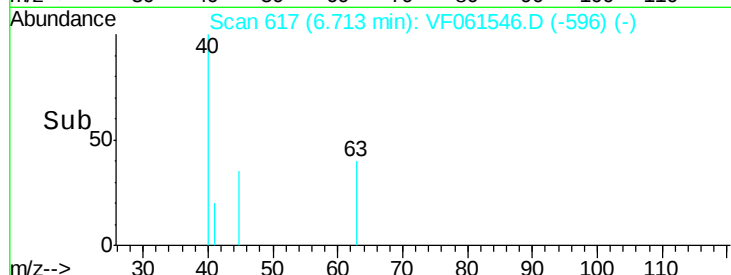
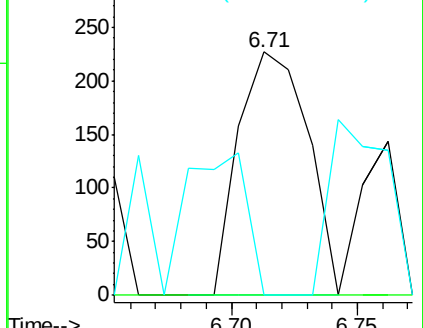
39 0.0 49.2 73.8#



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#50

Toluene-d8

Concen: 58.219 ug/l

RT: 7.55 min Scan# 702

Delta R.T. 0.00 min

Lab File: VF061546.D

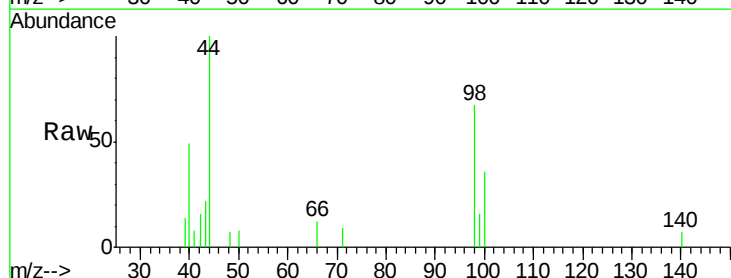
Acq: 7 Feb 2019 15:46

Tgt Ion: 98 Resp: 2034

Ion Ratio Lower Upper

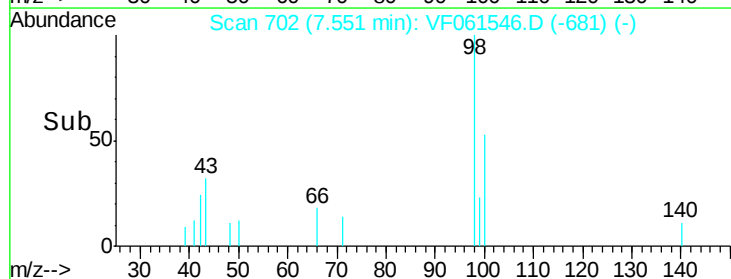
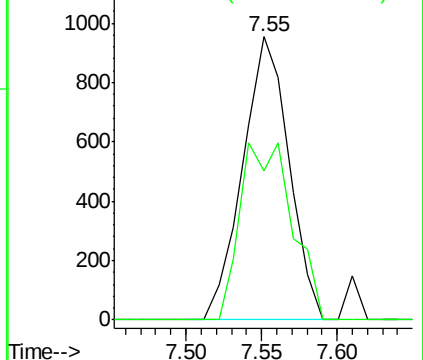
98 100

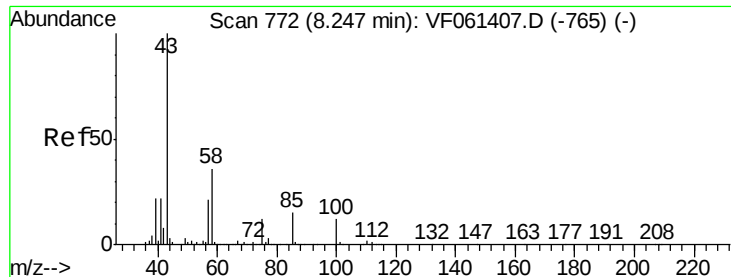
100 52.8 55.6 83.4#



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: 31.112 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.01 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Instrument :

MSVOA_F

ClientSampleId :

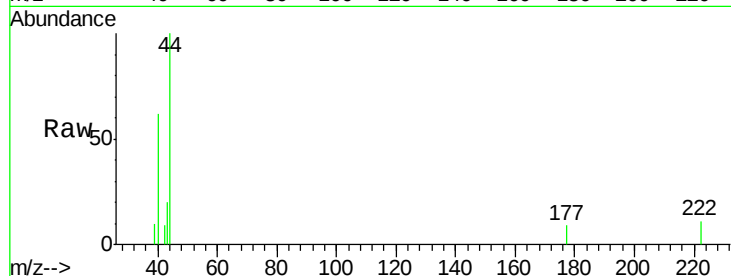
RBR-200050

Tot Ion: 43 Resp: 215

Ion Ratio Lower Upper

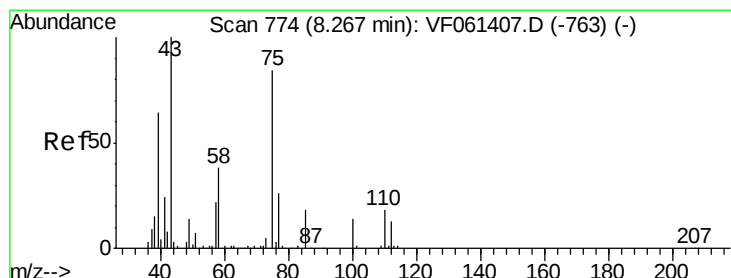
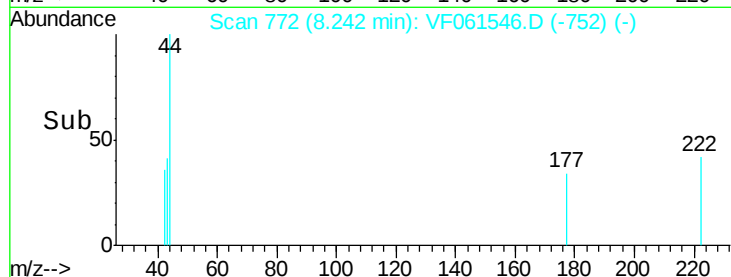
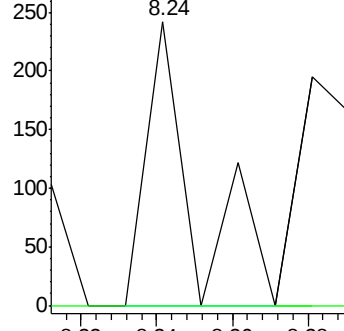
43 100

58 0.0 28.8 43.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#53

t-1,3-Dichloropropene

Concen: 4.197 ug/l

RT: 8.17 min Scan# 765

Delta R.T. -0.09 min

Lab File: VF061546.D

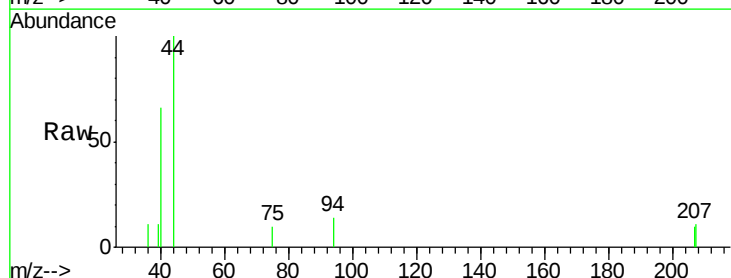
Acq: 7 Feb 2019 15:46

Tgt Ion: 75 Resp: 60

Ion Ratio Lower Upper

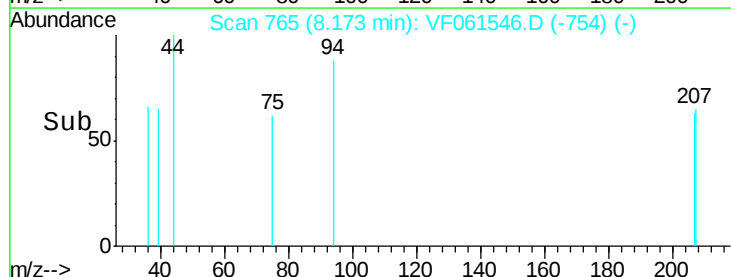
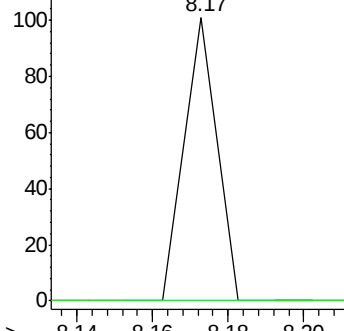
75 100

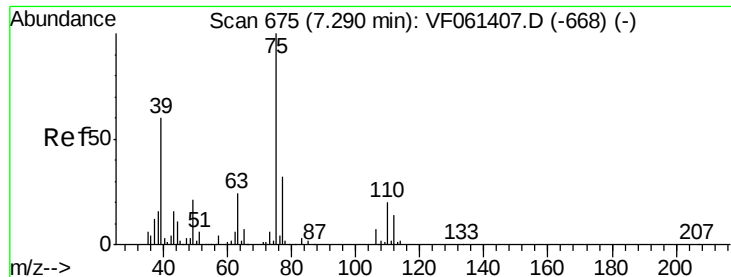
77 0.0 24.4 36.6#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#54

cis-1,3-Dichloropropene

Concen: 3.470 ug/l

RT: 7.23 min Scan# 669

Delta R.T. -0.06 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Instrument :

MSVOA_F

ClientSampleId :

RBR-200050

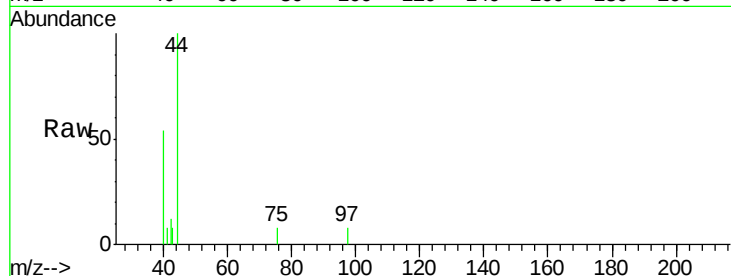
Tot Ion: 75 Resp: 62

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

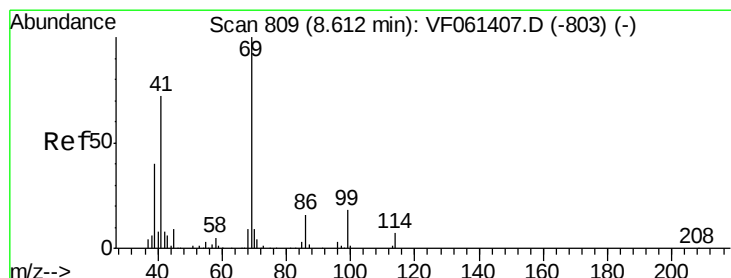
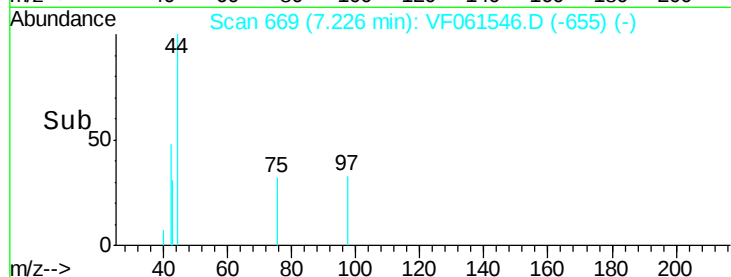
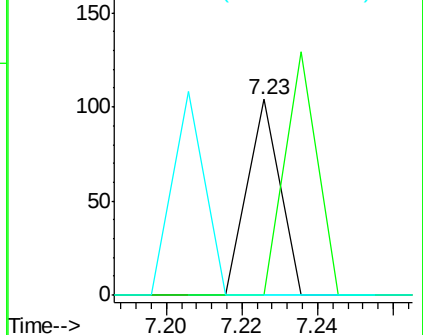
39 0.0 47.8 71.8#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#56

Ethyl methacrylate

Concen: 8.930 ug/l

RT: 8.61 min Scan# 809

Delta R.T. -0.01 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

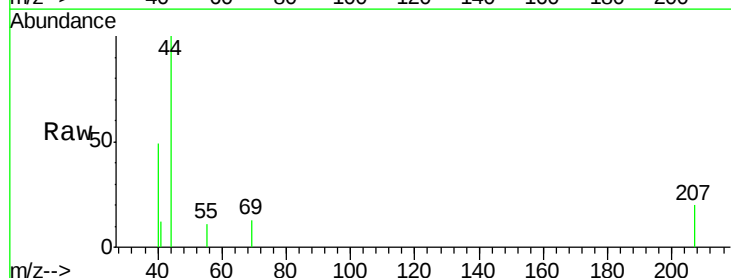
Tgt Ion: 69 Resp: 81

Ion Ratio Lower Upper

69 100

41 91.2 57.5 86.3#

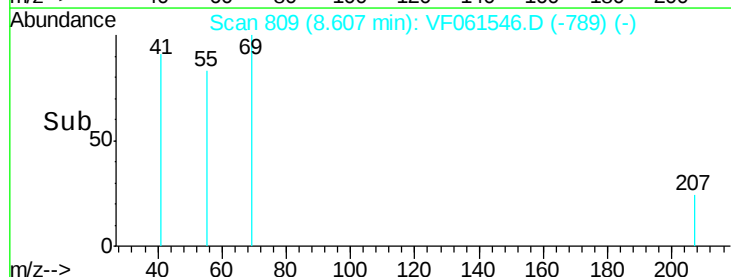
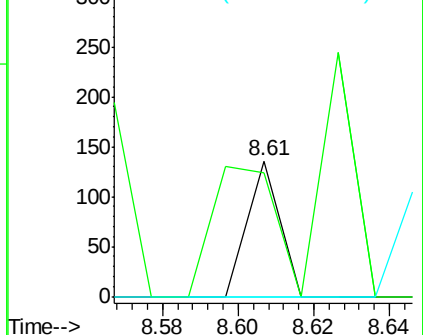
39 0.0 32.0 48.0#

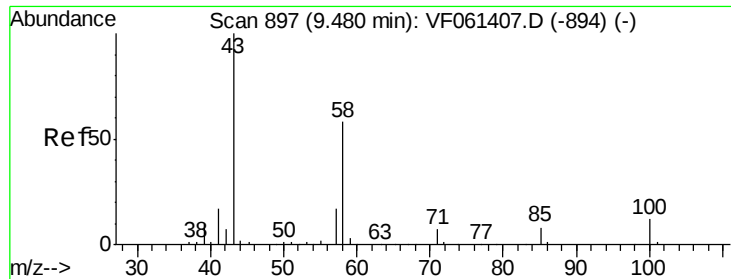


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

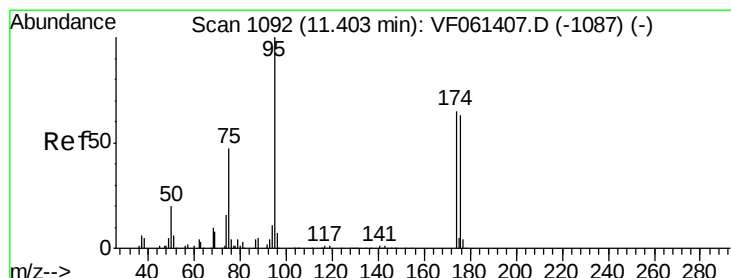
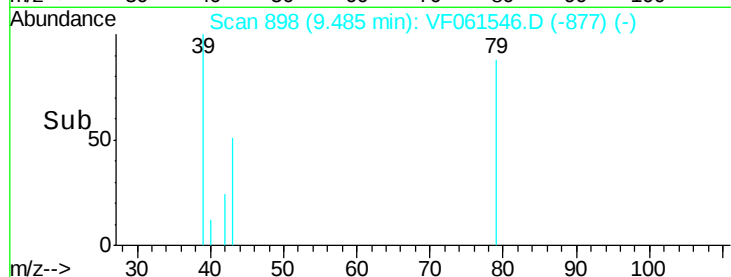
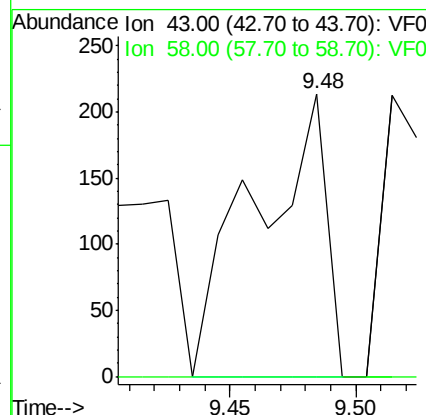
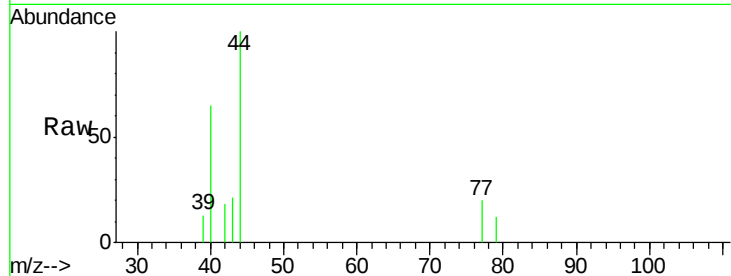




#59
2-Hexanone
Concen: 87.365 ug/l
RT: 9.48 min Scan# 898
Delta R.T. 0.00 min
Lab File: VF061546.D
Acq: 7 Feb 2019 15:46

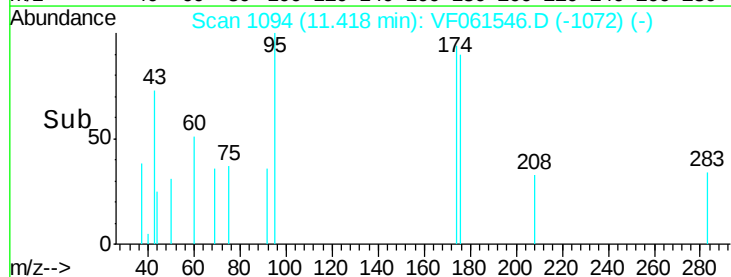
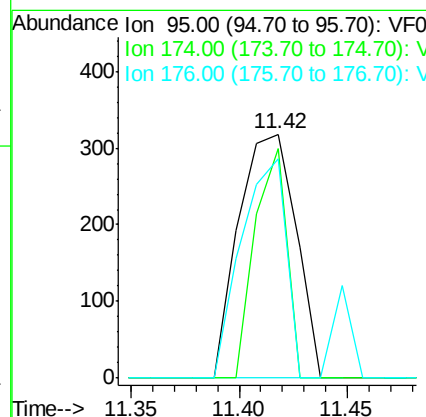
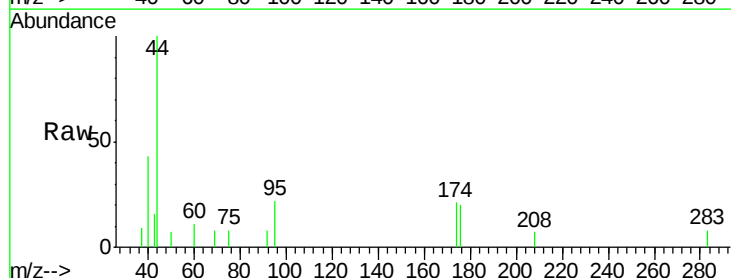
Instrument :
MSVOA_F
ClientSampleId :
RBR-200050

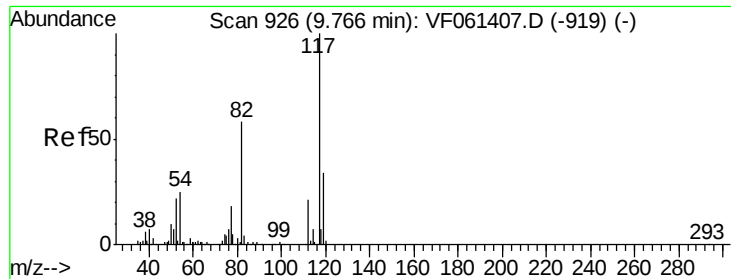
Tot Ion: 43 Resp: 421
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.6#



#62
4-Bromofluorobenzene
Concen: 35.838 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.01 min
Lab File: VF061546.D
Acq: 7 Feb 2019 15:46

Tgt Ion: 95 Resp: 585
Ion Ratio Lower Upper
95 100
174 94.3 0.0 130.4
176 89.9 0.0 126.2

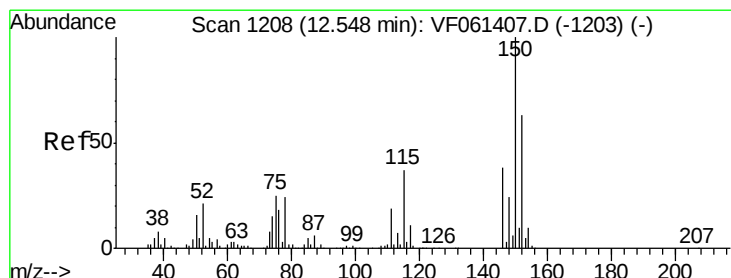
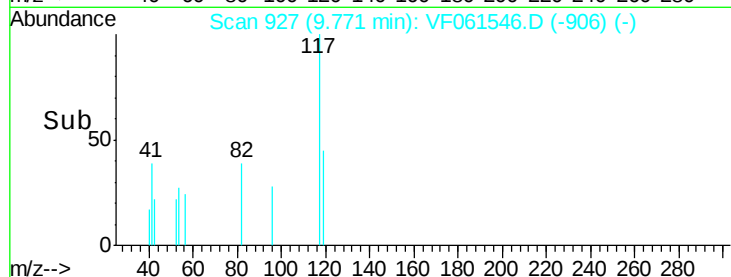
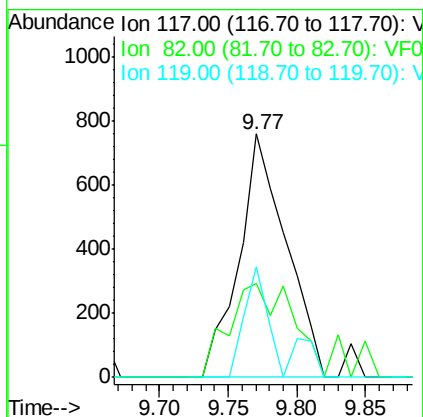
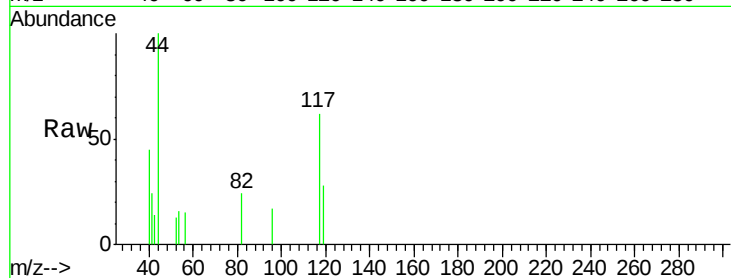




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. 0.00 min
Lab File: VF061546.D
Acq: 7 Feb 2019 15:46

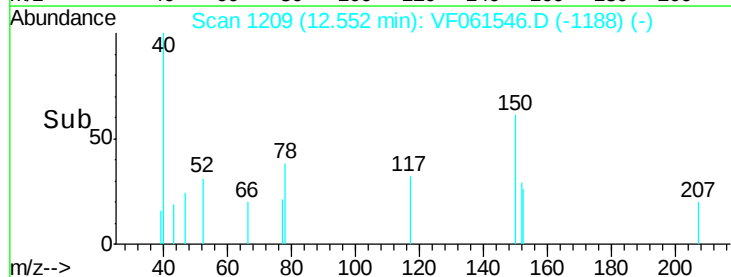
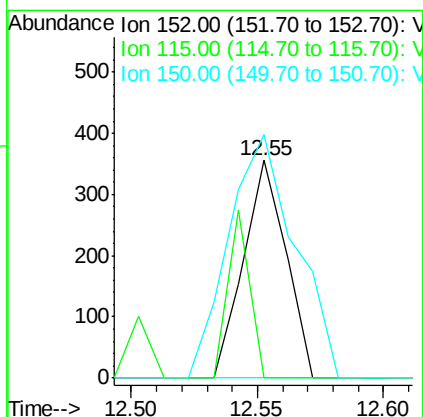
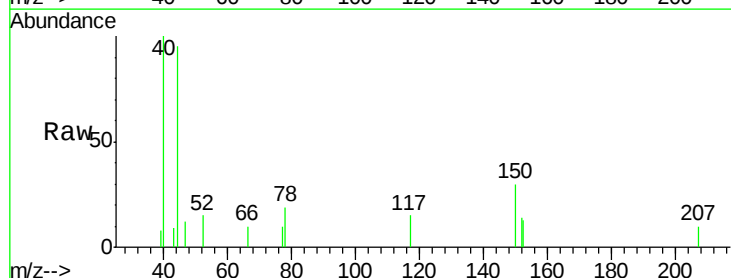
Instrument :
MSVOA_F
ClientSampleId :
RBR-200050

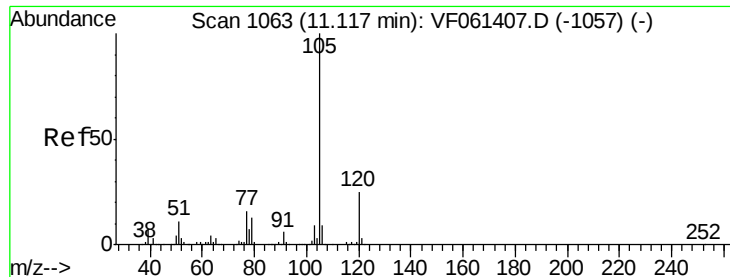
Tot Ion:117 Resp: 1813
Ion Ratio Lower Upper
117 100
82 38.7 46.4 69.6#
119 45.5 27.2 40.8#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. 0.00 min
Lab File: VF061546.D
Acq: 7 Feb 2019 15:46

Tgt Ion:152 Resp: 416
Ion Ratio Lower Upper
152 100
115 0.0 30.0 90.0#
150 111.8 0.0 321.4





#73

Isopropylbenzene

Concen: 1.832 ug/l

RT: 11.15 min Scan# 1067

Delta R.T. 0.03 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Instrument :

MSVOA_F

ClientSampleId :

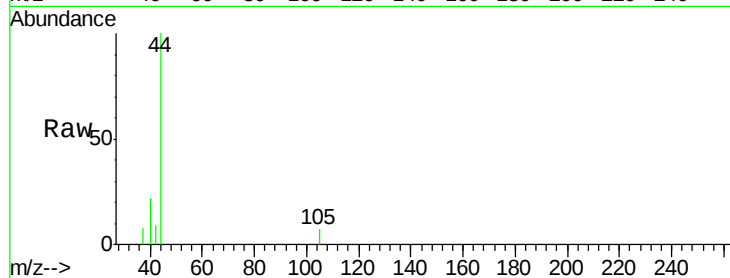
RBR-200050

Tot Ion:105 Resp: 62

Ion Ratio Lower Upper

105 100

120 0.0 12.6 37.8#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.15

120

100

80

60

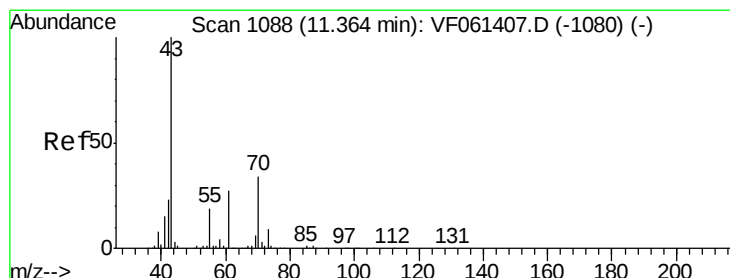
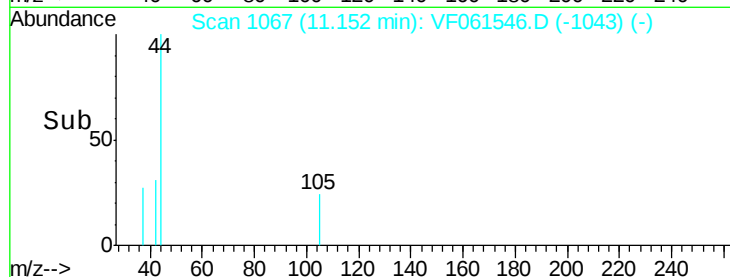
40

20

0

Time-->

11.12 11.14 11.16 11.18



#74

N-ethyl acetate

Concen: 18.624 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.01 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Tgt Ion: 43 Resp: 149

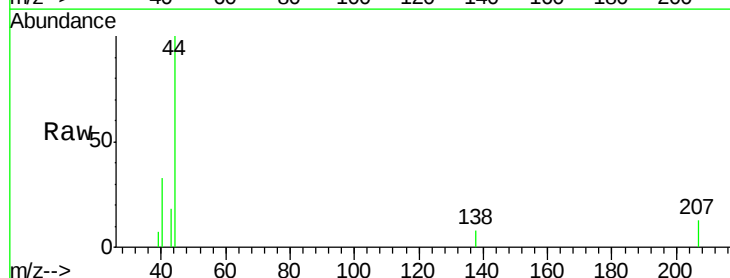
Ion Ratio Lower Upper

43 100

70 0.0 27.6 41.4#

55 0.0 15.4 23.2#

61 0.0 21.8 32.6#



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

400

300

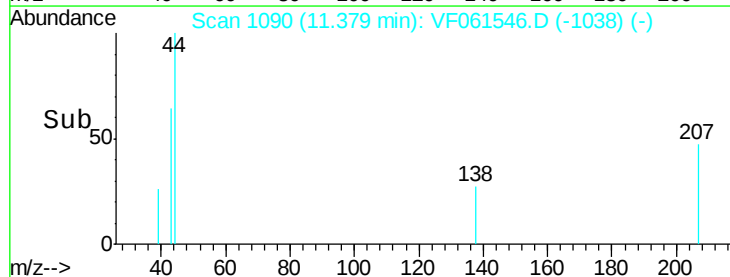
200

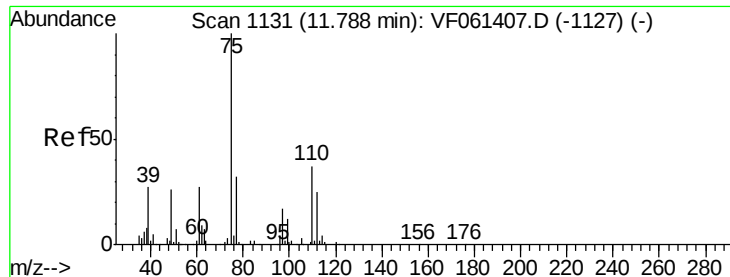
100

0

Time-->

11.34 11.36 11.38 11.40





#76

1,2,3-Trichloropropane

Concen: 18.241 ug/l

RT: 11.62 min Scan# 1114

Delta R.T. -0.17 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Instrument :

MSVOA_F

ClientSampleId :

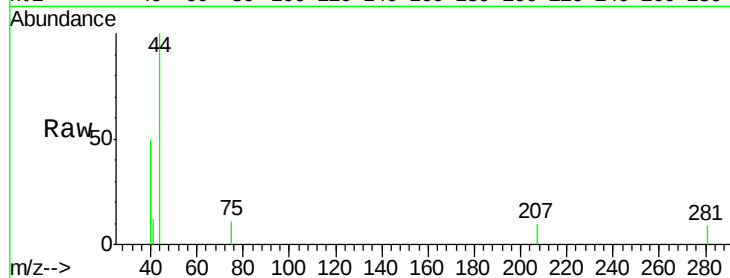
RBR-200050

Tot Ion: 75 Resp: 79

Ion Ratio Lower Upper

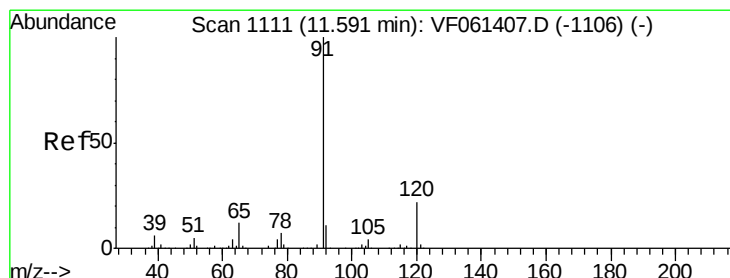
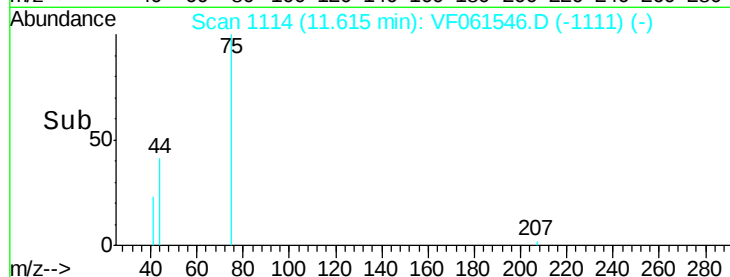
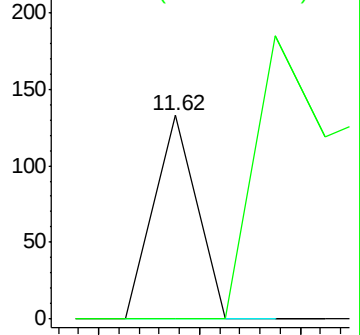
75 100

77 0.0 16.1 48.3#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#78

n-propylbenzene

Concen: 1.775 ug/l

RT: 11.65 min Scan# 1118

Delta R.T. 0.06 min

Lab File: VF061546.D

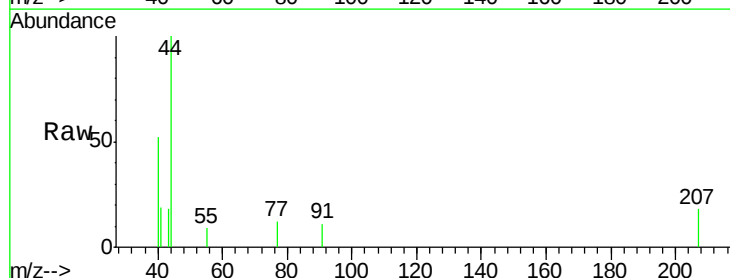
Acq: 7 Feb 2019 15:46

Tgt Ion: 91 Resp: 72

Ion Ratio Lower Upper

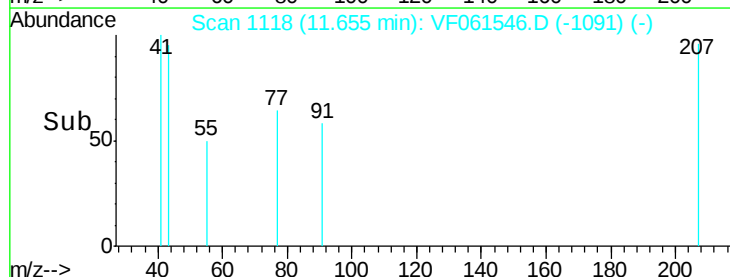
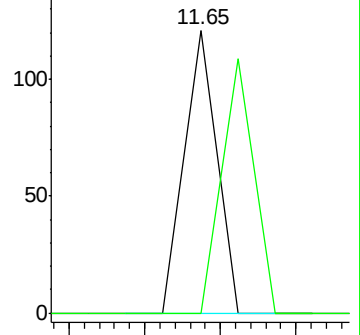
91 100

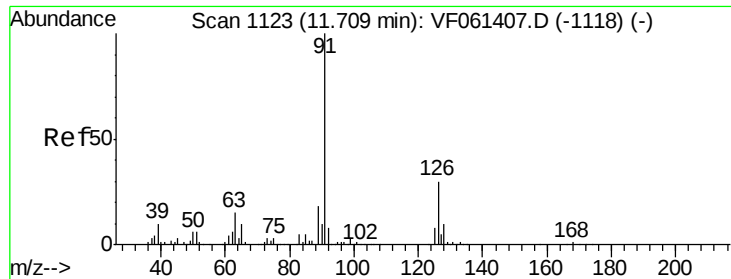
120 0.0 10.9 32.6#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

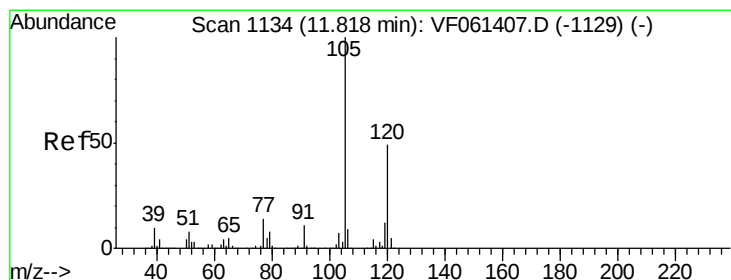
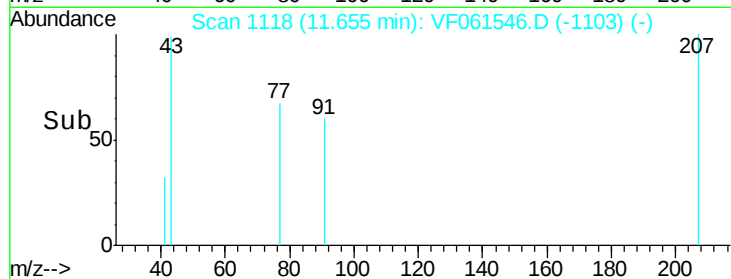
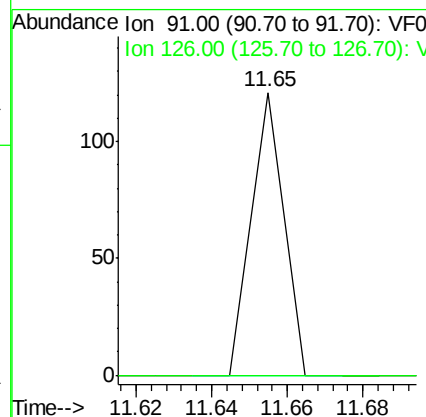
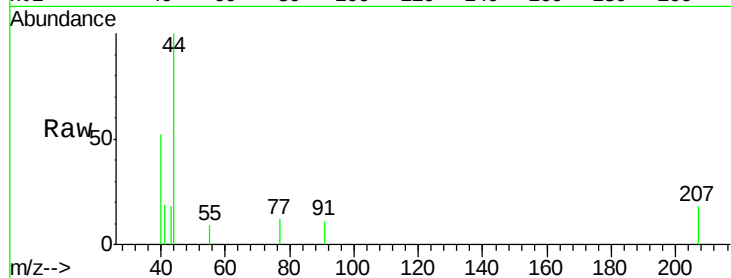




#79
 2-Chlorotoluene
 Concen: 3.067 ug/l
 RT: 11.65 min Scan# 1118
 Delta R.T. -0.05 min
 Lab File: VF061546.D
 Acq: 7 Feb 2019 15:46

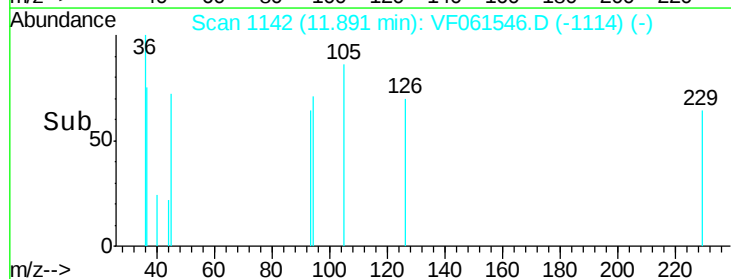
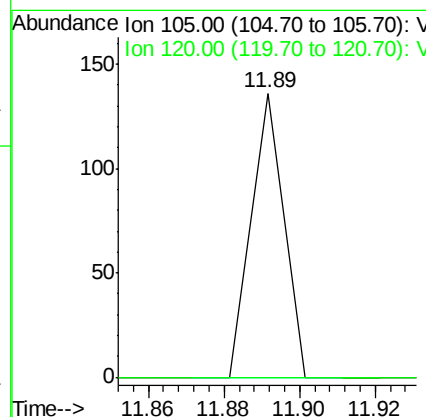
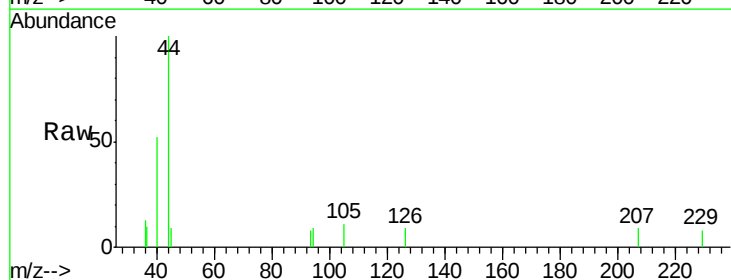
Instrument :
 MSVOA_F
 ClientSampleId :
 RBR-200050

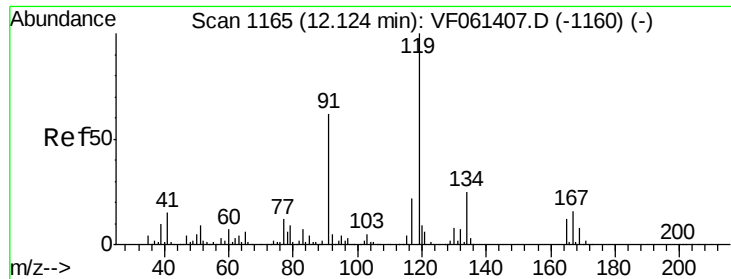
Tot Ion: 91 Resp: 72
 Ion Ratio Lower Upper
 91 100
 126 0.0 15.0 45.1#



#80
 1,3,5-Trimethylbenzene
 Concen: 2.930 ug/l
 RT: 11.89 min Scan# 1142
 Delta R.T. 0.07 min
 Lab File: VF061546.D
 Acq: 7 Feb 2019 15:46

Tgt Ion: 105 Resp: 80
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.7 74.1#





#83

tert-Butylbenzene

Concen: 2.442 ug/l

RT: 12.12 min Scan# 1165

Delta R.T. -0.01 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Instrument :

MSVOA_F

ClientSampled :

RBR-200050

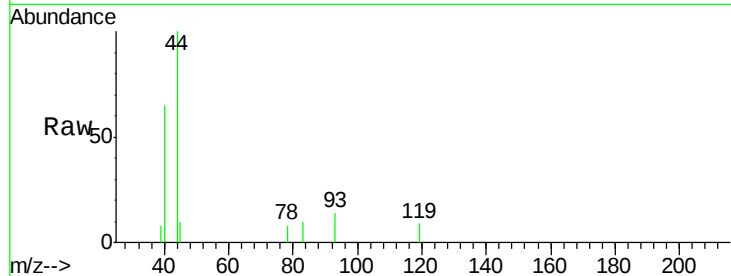
Tot Ion:119 Resp: 69

Ion Ratio Lower Upper

119 100

91 0.0 31.3 93.8#

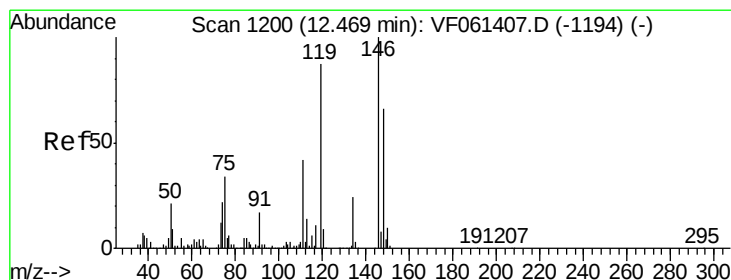
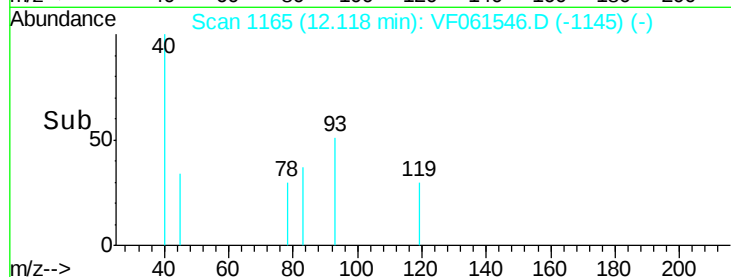
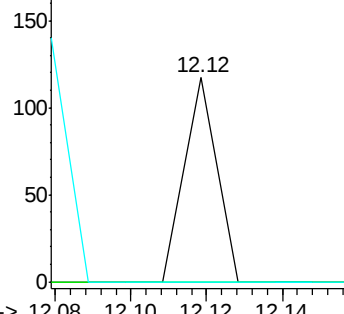
134 0.0 12.4 37.0#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#87

1,3-Dichlorobenzene

Concen: 5.145 ug/l

RT: 12.48 min Scan# 1202

Delta R.T. 0.02 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

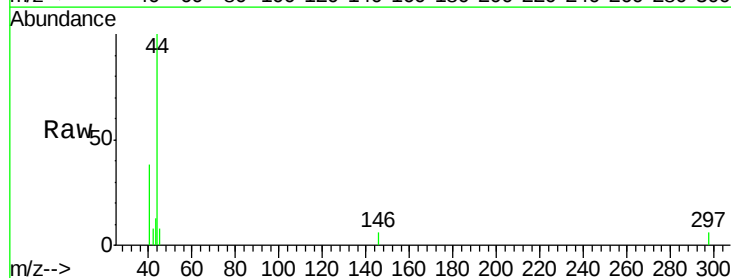
Tgt Ion:146 Resp: 75

Ion Ratio Lower Upper

146 100

111 0.0 21.1 63.4#

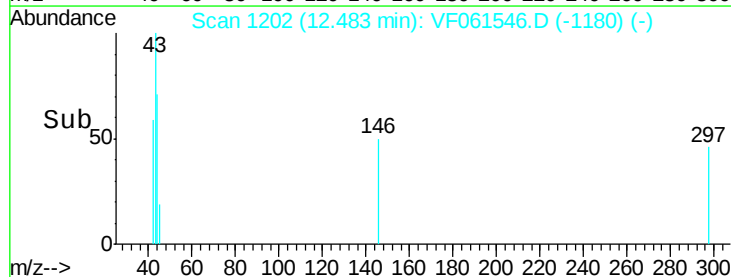
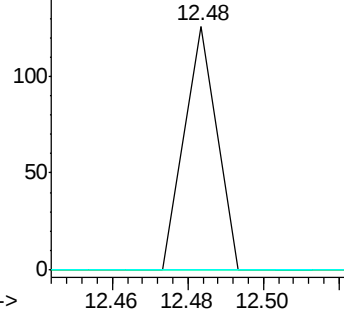
148 0.0 32.9 98.6#

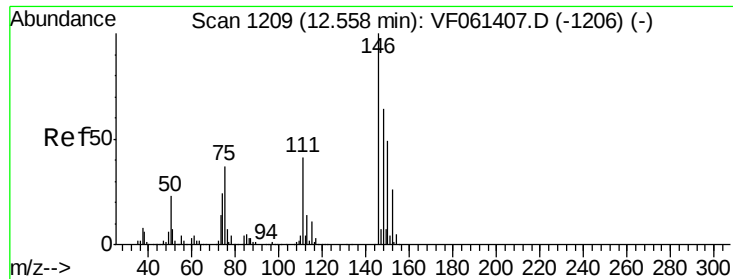


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#88

1,4-Dichlorobenzene

Concen: 5.555 ug/l

RT: 12.48 min Scan# 1202

Delta R.T. -0.07 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

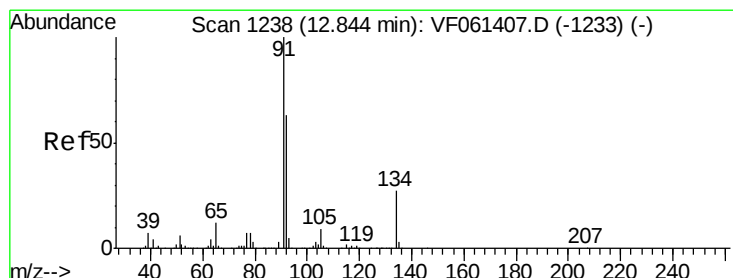
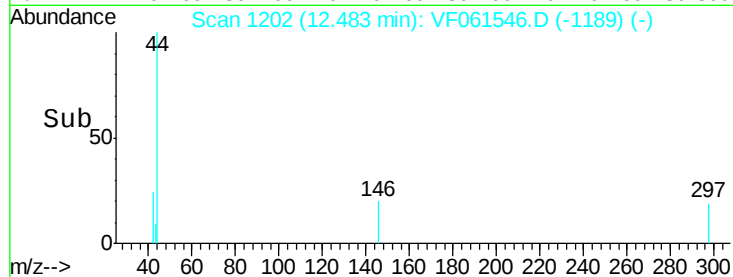
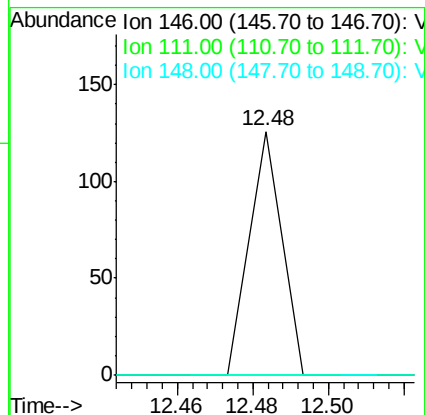
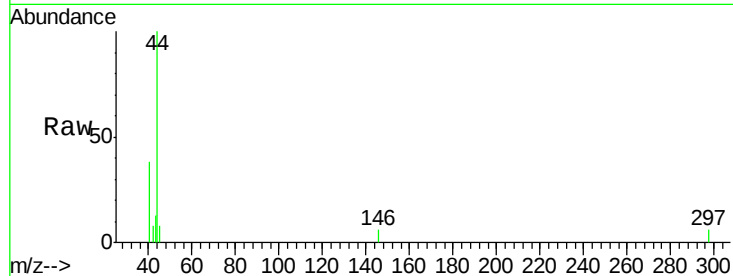
Instrument :

MSVOA_F

ClientSampleId :

RBR-200050

Tot Ion:	146	Resp:	75
Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.8	62.2#
148	0.0	32.1	96.5#



#89

n-Butylbenzene

Concen: 1.970 ug/l

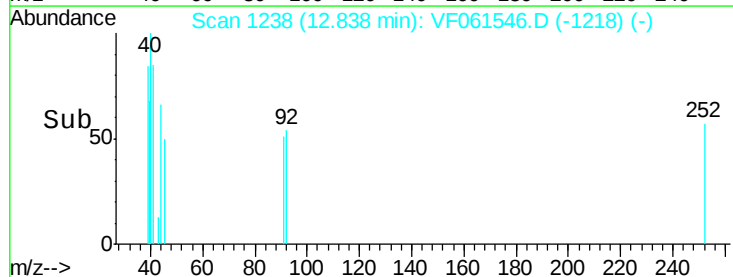
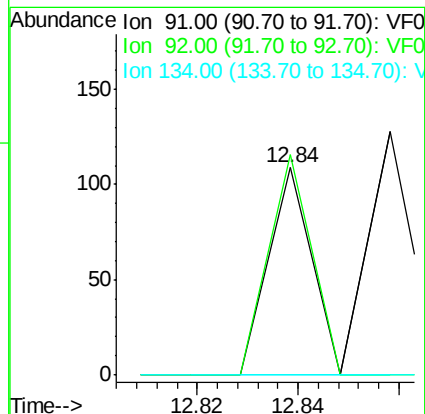
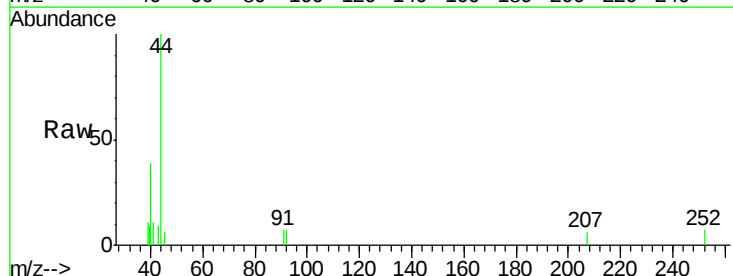
RT: 12.84 min Scan# 1238

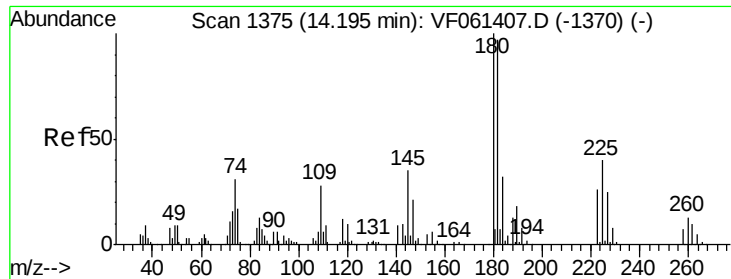
Delta R.T. -0.01 min

Lab File: VF061546.D

Acq: 7 Feb 2019 15:46

Tgt Ion:	91	Resp:	64
Ion	Ratio	Lower	Upper
91	100		
92	106.4	31.6	94.7#
134	0.0	13.6	40.8#

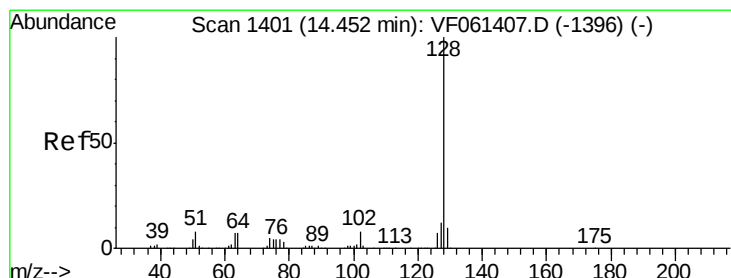
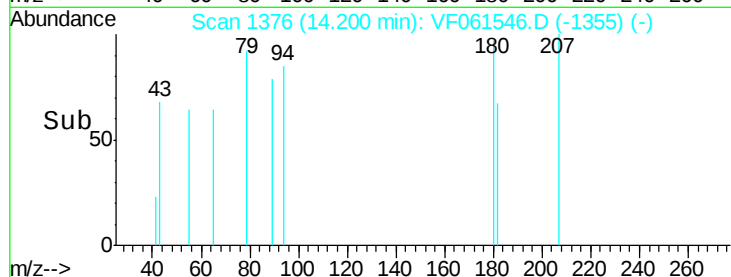
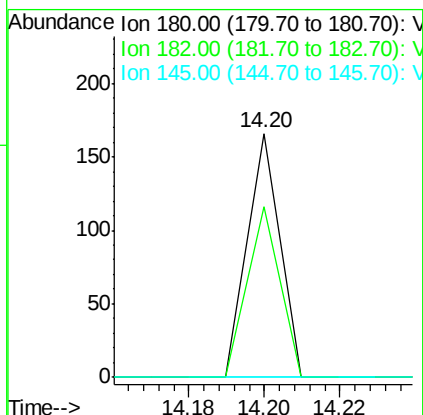
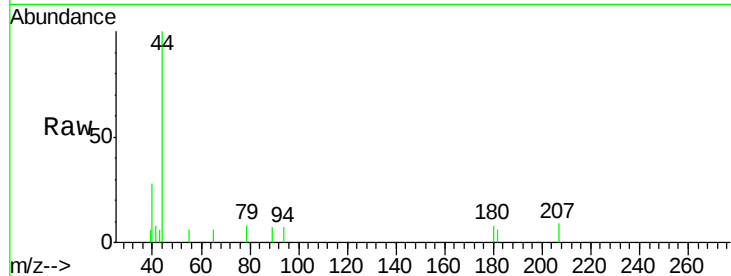




#93
 1,2,4-Trichlorobenzene
 Concen: 10.466 ug/l
 RT: 14.20 min Scan# 1376
 Delta R.T. 0.00 min
 Lab File: VF061546.D
 Acq: 7 Feb 2019 15:46

Instrument :
 MSVOA_F
 ClientSampled :
 RBR-200050

Tot Ion:180 Resp: 98
 Ion Ratio Lower Upper
 180 100
 182 69.9 48.5 145.6
 145 0.0 17.5 52.6#



#95
 Naphthalene
 Concen: 16.132 ug/l
 RT: 14.46 min Scan# 1402
 Delta R.T. 0.00 min
 Lab File: VF061546.D
 Acq: 7 Feb 2019 15:46

Tgt Ion:128 Resp: 287
 Ion Ratio Lower Upper
 128 100
 127 0.0 9.5 14.3#
 129 0.0 8.4 12.6#

