

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121818\
 Data File : VF061062.D
 Acq On : 18 Dec 2018 14:58
 Operator : VA/AP
 Sample : J6464-04RE
 Misc : 5.1g/5mL/MSVOA-F/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VB16202RE

Quant Time: Dec 19 00:51:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	4648	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	6245	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.78	117	4303	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	1235	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	983	17.95	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	35.90%	
35) Dibromofluoromethane	4.11	113	1500	30.28	ug/l	-0.04
Spiked Amount				50.000		
			Recovery	=	60.56%	
50) Toluene-d8	7.56	98	5587	38.28	ug/l	-0.04
Spiked Amount				50.000		
			Recovery	=	76.56%	
62) 4-Bromofluorobenzene	11.41	95	1489	22.45	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	44.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.08	50	151	3.339	ug/l #	41
4) Vinyl Chloride	1.05	62	98	2.323	ug/l #	42
5) Bromomethane	1.30	94	164	5.514	ug/l	87
6) Chloroethane	1.35	64	88	4.826	ug/l #	1
8) Diethyl Ether	1.61	74	183	14.061	ug/l #	28
11) Tert butyl alcohol	2.45	59	62	27.623	ug/l #	62
12) 1,1-Dichloroethene	1.80	96	131	3.559	ug/l #	1
13) Acrolein	2.02	56	278	130.723	ug/l	96
14) Allyl chloride	2.10	41	462	10.072	ug/l #	59
15) Acrylonitrile	2.94	53	215	42.726	ug/l #	1
16) Acetone	2.24	43	994	98.444	ug/l #	65
18) Methyl Acetate	2.44	43	583	33.884	ug/l	93
19) Methyl tert-butyl Ether	2.45	73	144	1.737	ug/l #	58
20) Methylene Chloride	2.24	84	63	1.701	ug/l #	1
21) trans-1,2-Dichloroethene	2.34	96	272	7.666	ug/l #	1
22) Diisopropyl ether	2.79	45	254	2.034	ug/l #	10
23) Vinyl Acetate	3.18	43	657	11.511	ug/l #	80
24) 1,1-Dichloroethane	2.92	63	283	3.809	ug/l #	16
25) 2-Butanone	4.31	43	266	15.231	ug/l #	57
26) 2,2-Dichloropropane	3.59	77	122	2.533	ug/l #	60
27) cis-1,2-Dichloroethene	3.44	96	65	1.125	ug/l	1
28) Bromochloromethane	3.61	49	66	1.851	ug/l #	11
29) Tetrahydrofuran	4.08	42	382	51.601	ug/l #	55
37) Ethyl Acetate	4.12	43	575	20.427	ug/l #	14
41) Methacrylonitrile	4.73	41	417	26.814	ug/l #	40
43) Isopropyl Acetate	6.96	43	61	Below Cal	#	49
48) Methyl methacrylate	6.67	41	215	8.438	ug/l #	7
49) 1,4-Dioxane	6.26	88	65	348.572	ug/l #	20
51) 4-Methyl-2-Pentanone	8.23	43	172	6.626	ug/l #	38
52) Toluene	7.63	92	813	7.564	ug/l #	30
53) t-1,3-Dichloropropene	8.31	75	78	1.339	ug/l #	40
55) 1,1,2-Trichloroethane	8.59	97	76	2.427	ug/l #	15
56) Ethyl methacrylate	8.65	69	79	2.271	ug/l #	17
58) 2-Chloroethyl Vinyl ether	7.17	63	91	25.570	ug/l #	46

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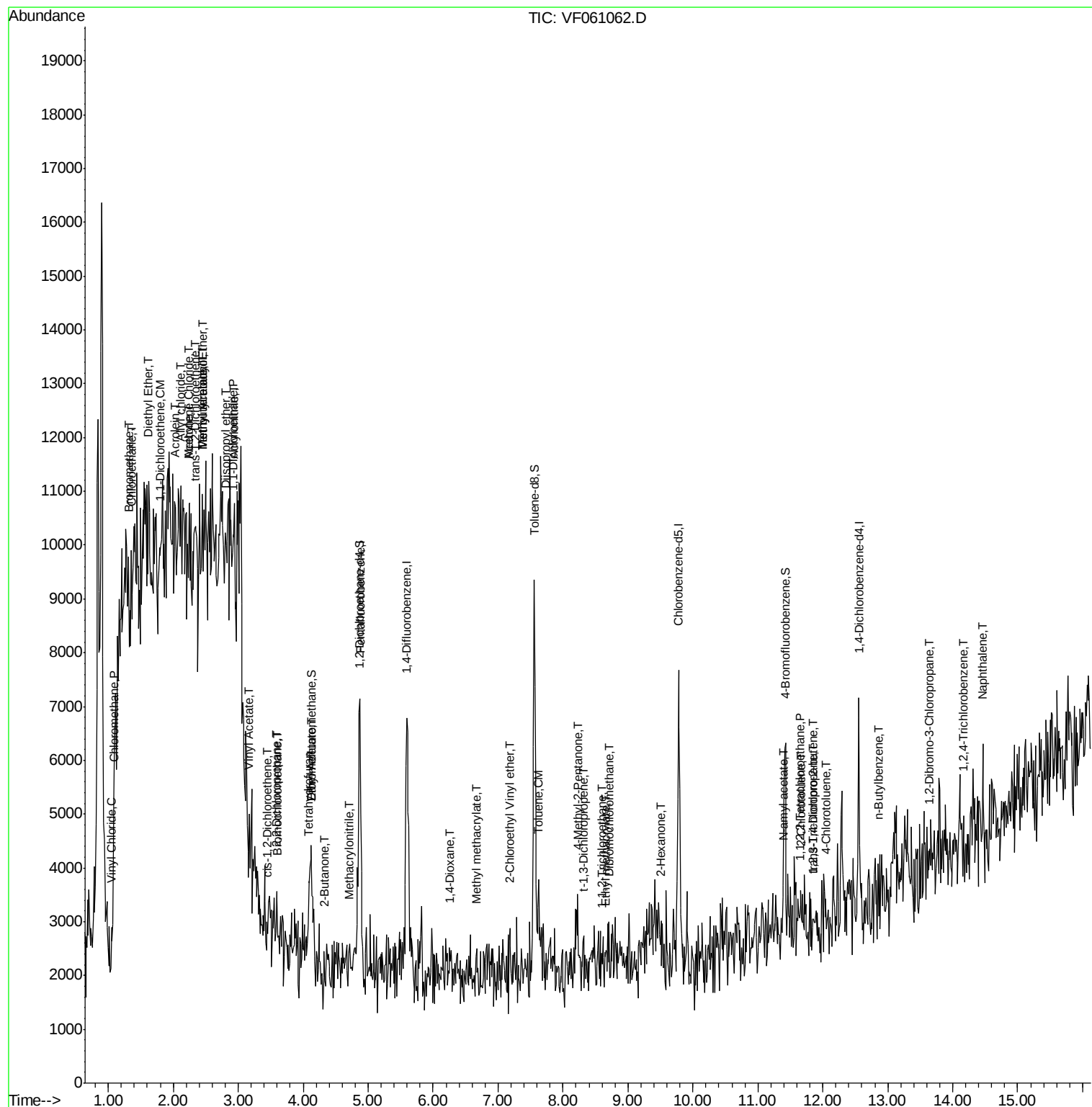
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 2-Hexanone	9.51	43	185	10.159	uq/l	84
60) Dibromochloromethane	8.72	129	66	1.414	uq/l #	12
74) N-amyl acetate	11.38	43	385	17.083	uq/l #	45
75) 1,1,2,2-Tetrachloroethane	11.64	83	82	5.105	uq/l #	25
76) 1,2,3-Trichloropropane	11.86	75	98	8.394	uq/l #	38
79) 2-Chlorotoluene	11.66	91	107	1.633	uq/l #	43
81) trans-1,4-Dichloro-2-buten	11.86	75	98	17.132	uq/l #	16
82) 4-Chlorotoluene	12.06	91	70	1.015	uq/l #	45
89) n-Butylbenzene	12.84	91	178	1.900	uq/l #	27
92) 1,2-Dibromo-3-Chloropropan	13.63	75	77	24.795	uq/l #	1
93) 1,2,4-Trichlorobenzene	14.17	180	80	2.971	uq/l #	11
95) Naphthalene	14.46	128	837	13.456	uq/l #	69

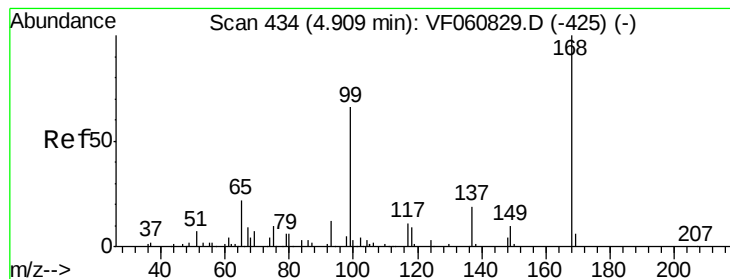
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

Instrument :

MSVOA_F

ClientSampleId :

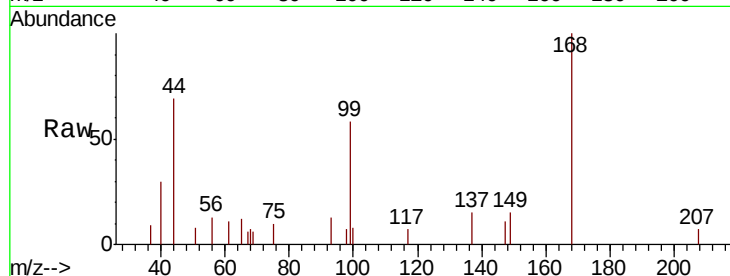
VB16202RE

Tot Ion:168 Resp: 4648

Ion Ratio Lower Upper

168 100

99 58.0 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

1500

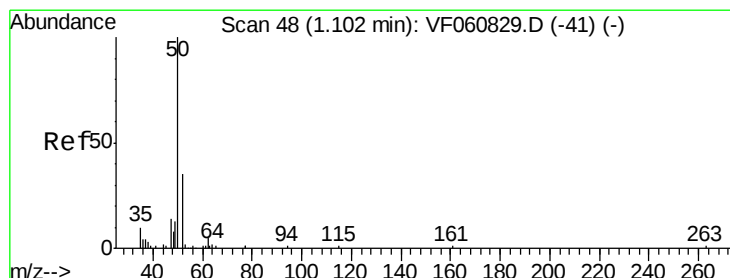
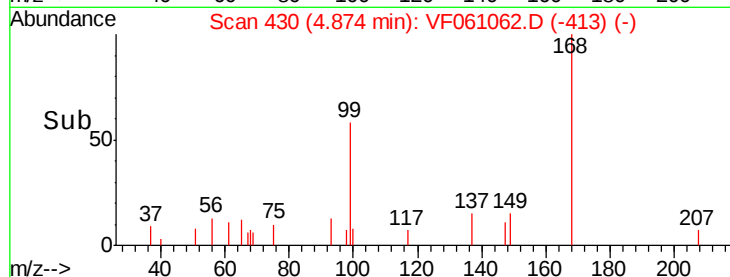
1000

500

0

4.80 4.90 5.00

Time-->



#3

Chloromethane

Concen: 3.339 ug/l

RT: 1.08 min Scan# 45

Delta R.T. -0.03 min

Lab File: VF061062.D

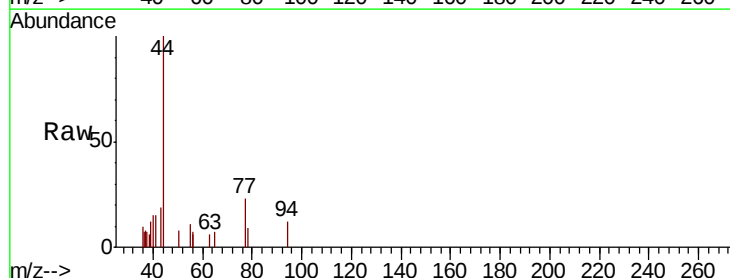
Acq: 18 Dec 2018 14:58

Tgt Ion: 50 Resp: 151

Ion Ratio Lower Upper

50 100

52 0.0 27.0 40.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.08

150

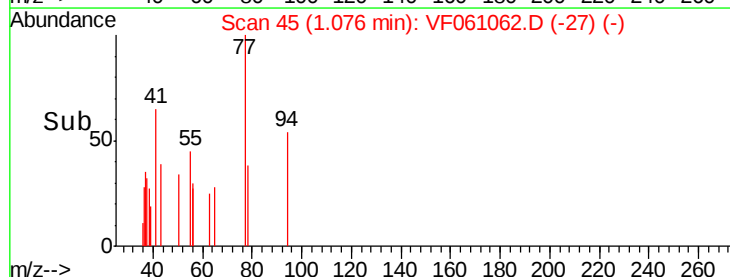
100

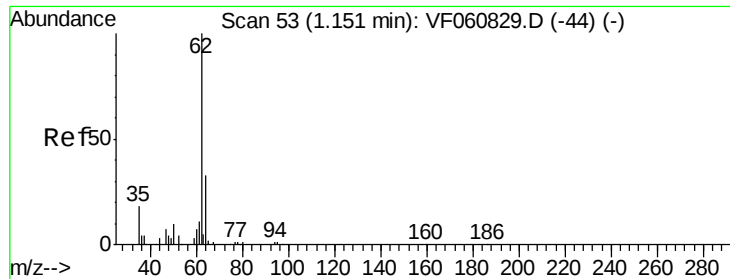
50

0

1.04 1.06 1.08 1.10

Time-->





#4

Vinyl Chloride

Concen: 2.323 ug/l

RT: 1.05 min Scan# 42

Delta R.T. -0.10 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

Instrument :

MSVOA_F

ClientSampleId :

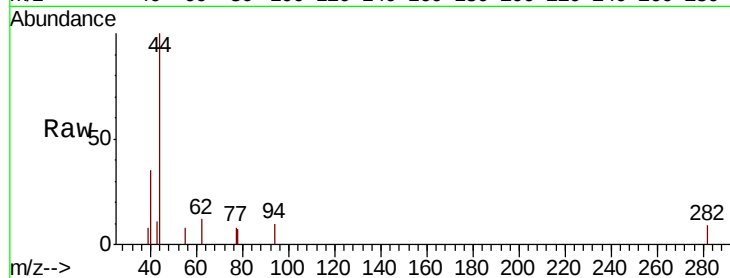
VB16202RE

Tot Ion: 62 Resp: 98

Ion Ratio Lower Upper

62 100

64 0.0 26.4 39.6#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

1.05

150

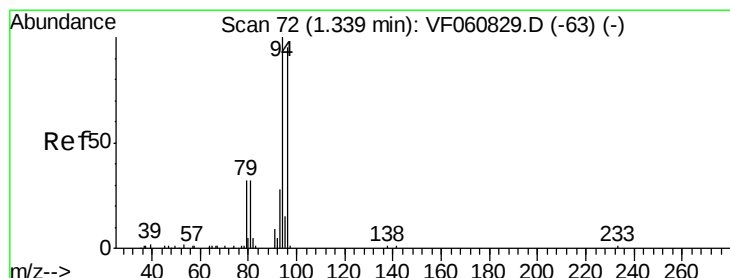
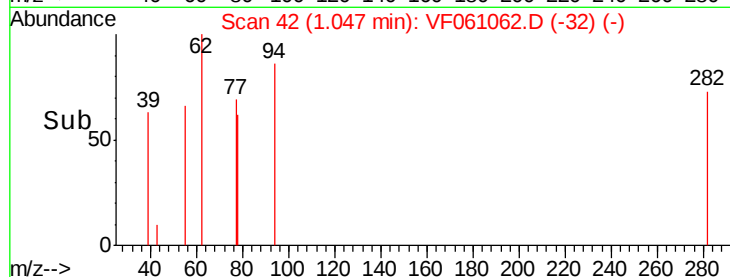
100

50

0

1.02 1.04 1.06 1.08

Time-->



#5

Bromomethane

Concen: 5.514 ug/l

RT: 1.30 min Scan# 68

Delta R.T. -0.04 min

Lab File: VF061062.D

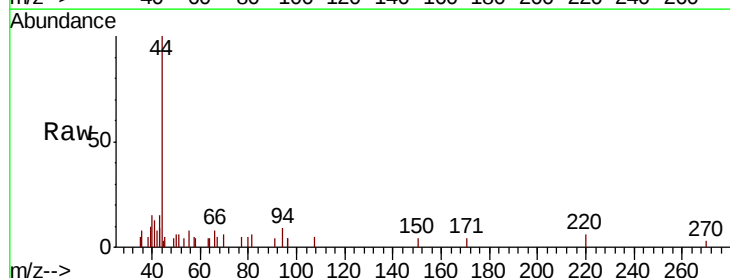
Acq: 18 Dec 2018 14:58

Tgt Ion: 94 Resp: 164

Ion Ratio Lower Upper

94 100

96 82.7 75.9 113.9



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.30

300

250

200

150

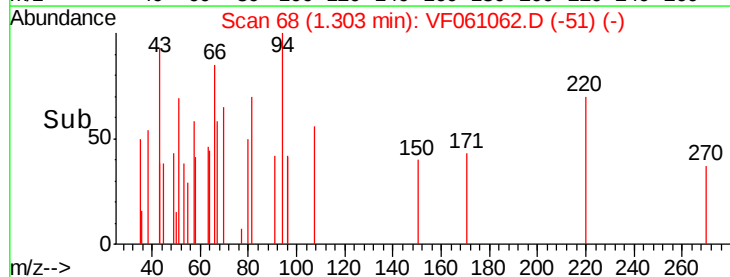
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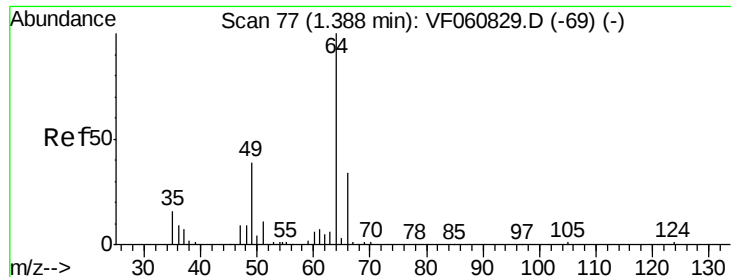
50

0

1.29 1.30 1.31 1.32

Time-->





#6

Chloroethane

Concen: 4.826 ug/l

RT: 1.35 min Scan# 73

Delta R.T. -0.04 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

Instrument :

MSVOA_F

ClientSampleId :

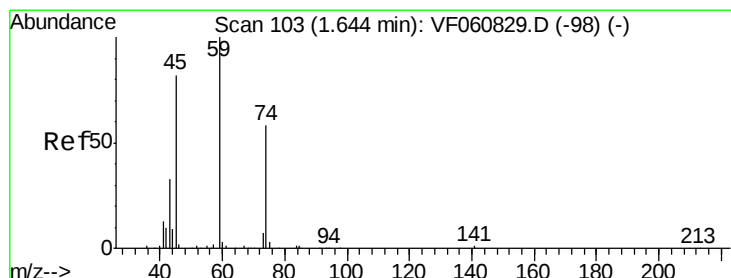
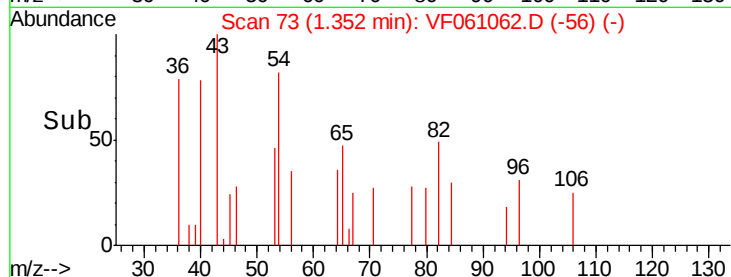
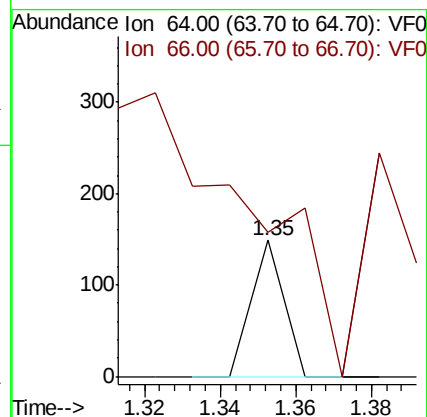
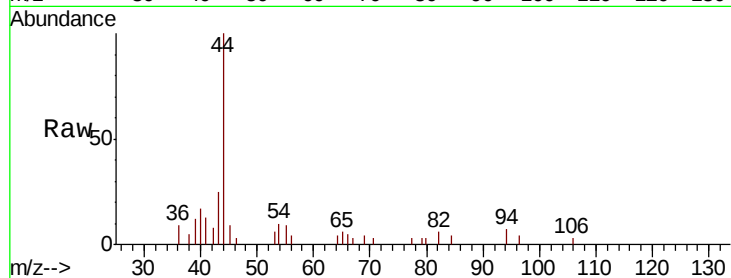
VB16202RE

Tot Ion: 64 Resp: 88

Ion Ratio Lower Upper

64 100

66 106.0 28.1 42.1#



#8

Diethyl Ether

Concen: 14.061 ug/l

RT: 1.61 min Scan# 99

Delta R.T. -0.04 min

Lab File: VF061062.D

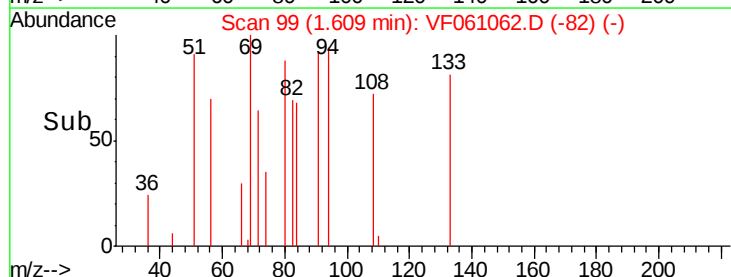
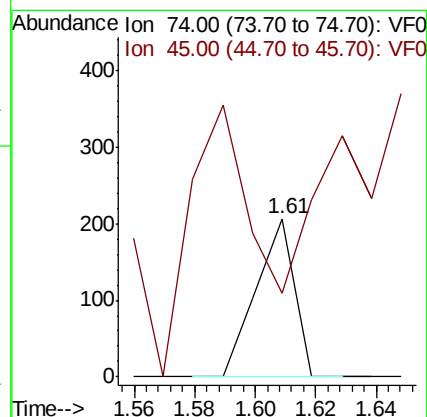
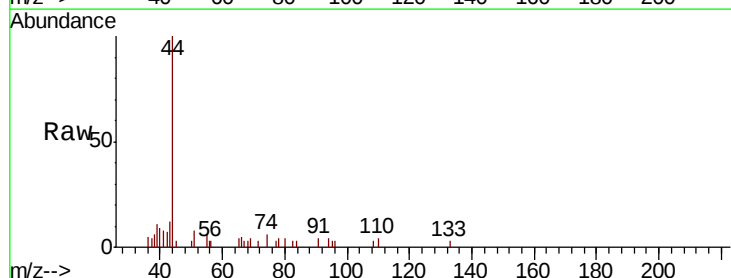
Acq: 18 Dec 2018 14:58

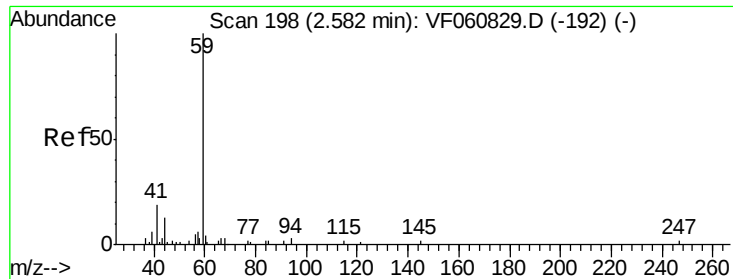
Tgt Ion: 74 Resp: 183

Ion Ratio Lower Upper

74 100

45 52.9 71.0 212.8#



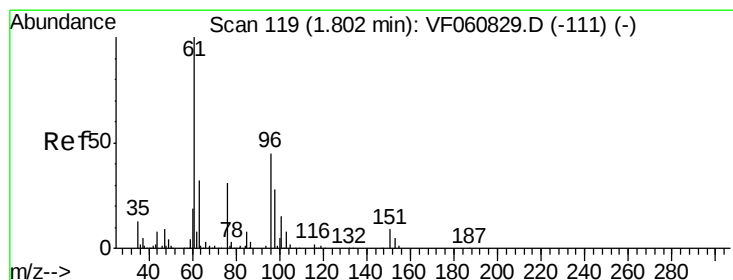
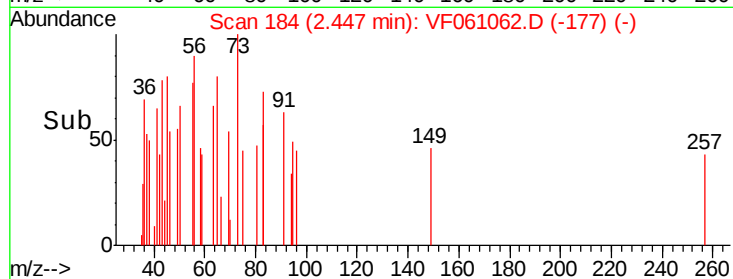
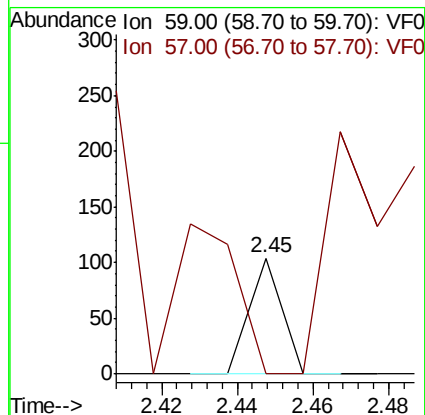
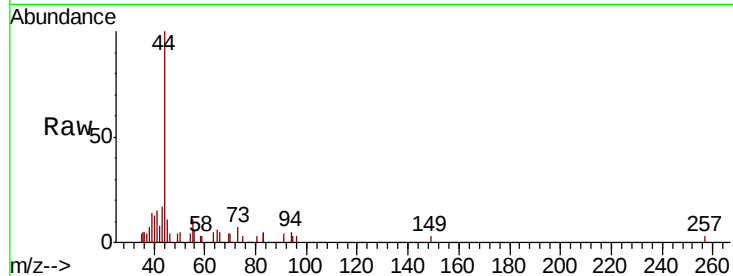


#11

Tert butyl alcohol
Concen: 27.623 ug/l
RT: 2.45 min Scan# 184
Delta R.T. -0.13 min
Lab File: VF061062.D
Acq: 18 Dec 2018 14:58

Instrument :
MSVOA_F
ClientSampleId :
VB16202RE

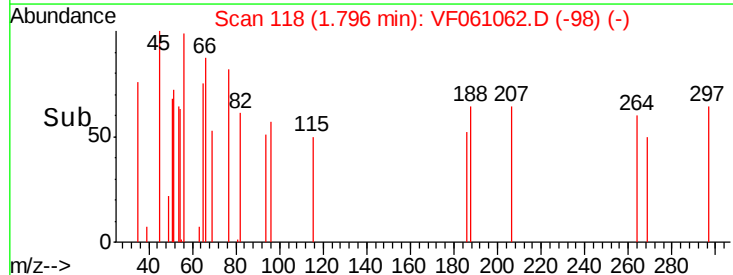
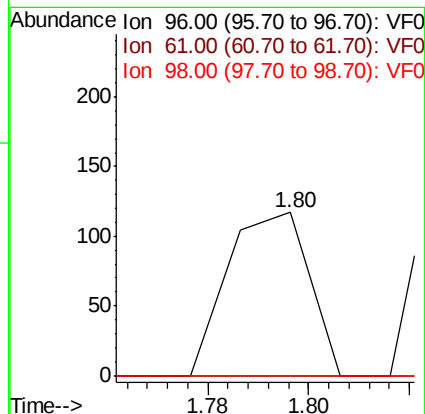
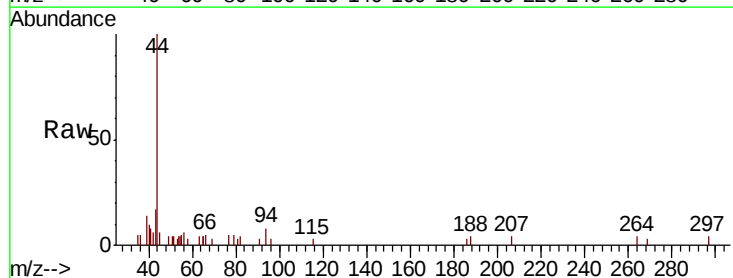
Tot Ion: 59 Resp: 62
Ion Ratio Lower Upper
59 100
57 0.0 12.7 19.1#

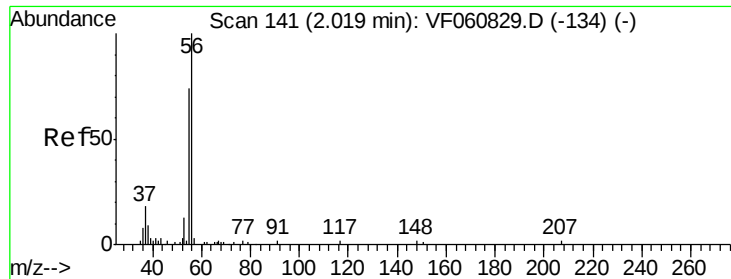


#12

1,1-Dichloroethene
Concen: 3.559 ug/l
RT: 1.80 min Scan# 118
Delta R.T. -0.01 min
Lab File: VF061062.D
Acq: 18 Dec 2018 14:58

Tgt Ion: 96 Resp: 131
Ion Ratio Lower Upper
96 100
61 0.0 177.3 265.9#
98 0.0 49.6 74.4#

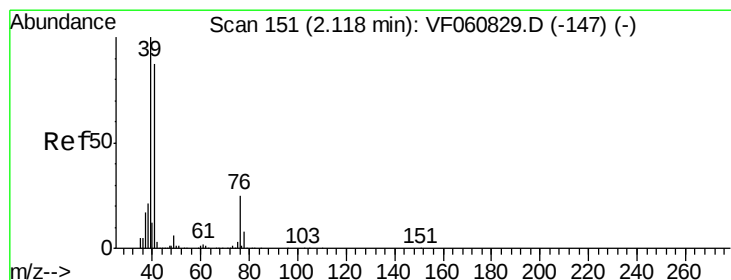
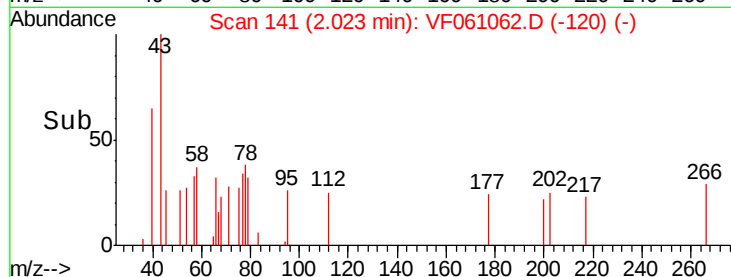
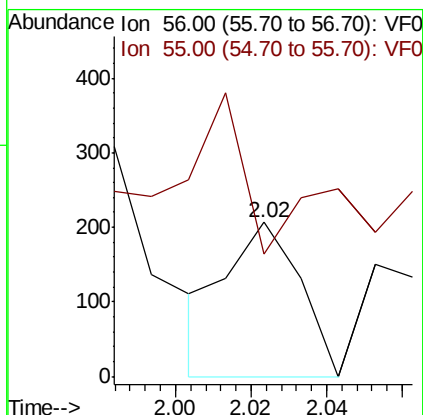
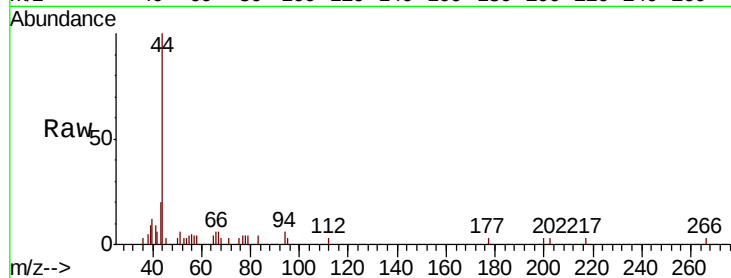




#13
Acrolein
Concen: 130.723 ug/l
RT: 2.02 min Scan# 141
Delta R.T. 0.00 min
Lab File: VF061062.D
Acq: 18 Dec 2018 14:58

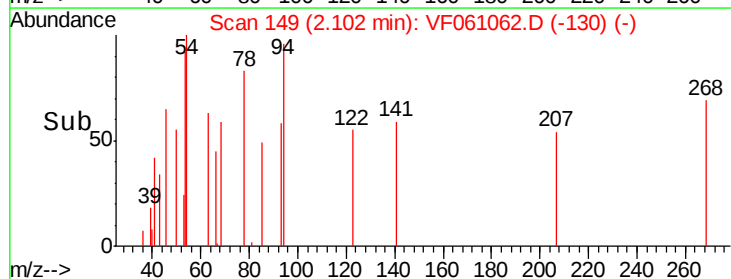
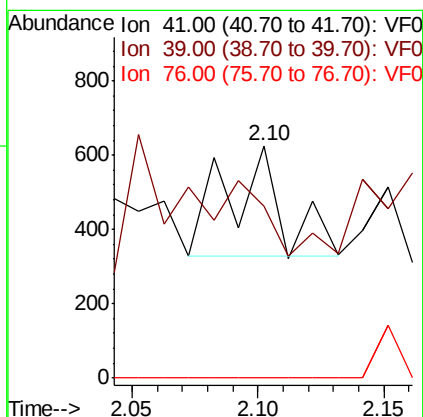
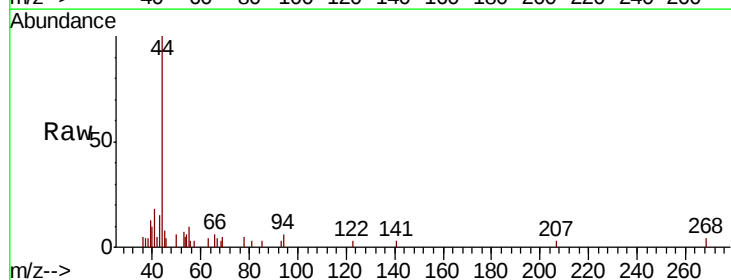
Instrument :
MSVOA_F
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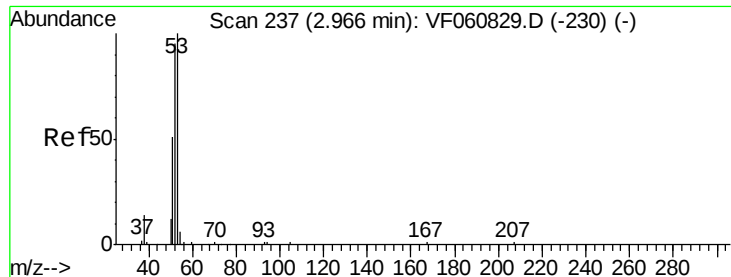
Tot Ion: 56 Resp: 278
Ion Ratio Lower Upper
56 100
55 79.7 61.2 91.8



#14
Allyl chloride
Concen: 10.072 ug/l
RT: 2.10 min Scan# 149
Delta R.T. -0.02 min
Lab File: VF061062.D
Acq: 18 Dec 2018 14:58

Tgt Ion: 41 Resp: 462
Ion Ratio Lower Upper
41 100
39 73.8 91.7 137.5#
76 0.0 23.5 35.3#





#15

Acrylonitrile

Concen: 42.726 ug/l

RT: 2.94 min Scan# 234

Delta R.T. -0.03 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

Instrument :

MSVOA_F

ClientSampleId :

VB16202RE

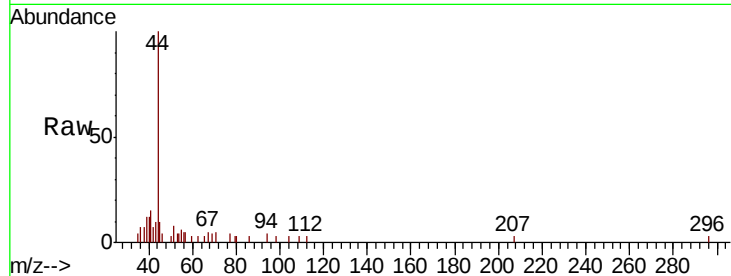
Tot Ion: 53 Resp: 215

Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

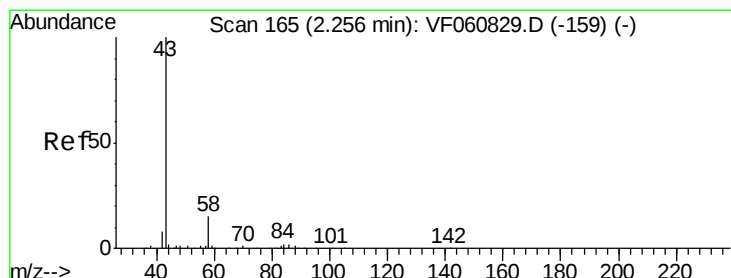
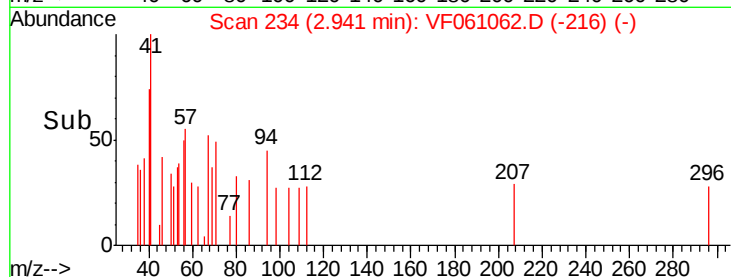
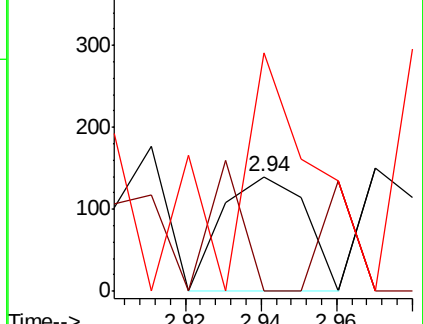
51 207.9 40.7 61.1#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 98.444 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF061062.D

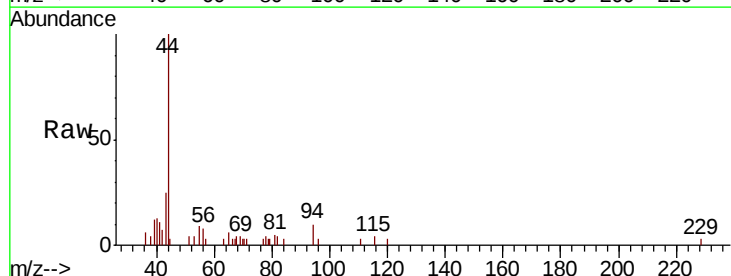
Acq: 18 Dec 2018 14:58

Tgt Ion: 43 Resp: 994

Ion Ratio Lower Upper

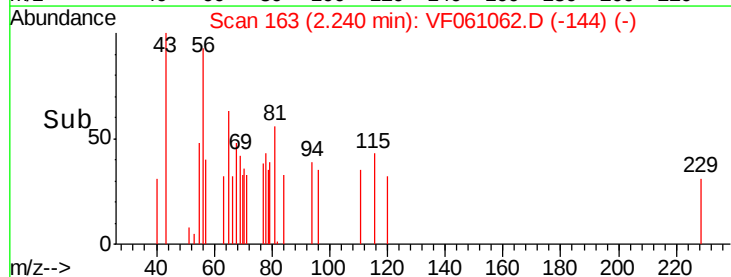
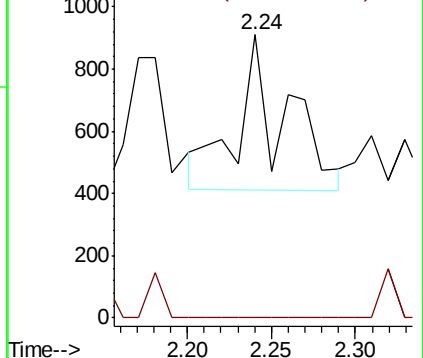
43 100

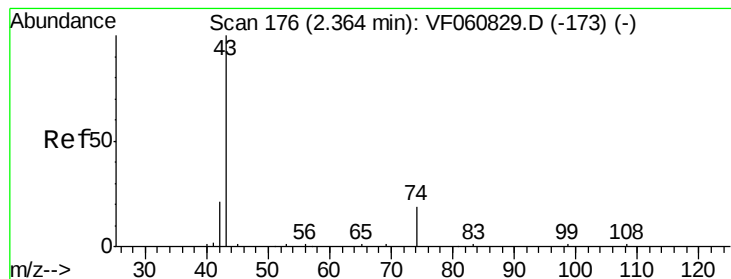
58 0.0 11.4 17.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#18

Methyl Acetate

Concen: 33.884 ug/l

RT: 2.44 min Scan# 183

Delta R.T. 0.07 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

Instrument :

MSVOA_F

ClientSampleId :

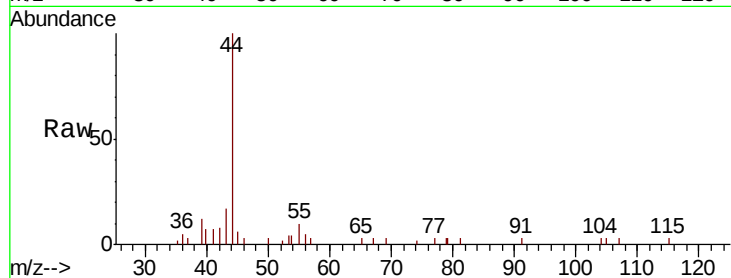
VB16202RE

Tot Ion: 43 Resp: 583

Ion Ratio Lower Upper

43 100

74 13.6 13.3 19.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

800

600

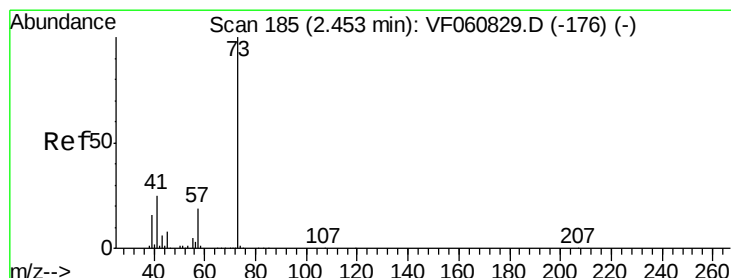
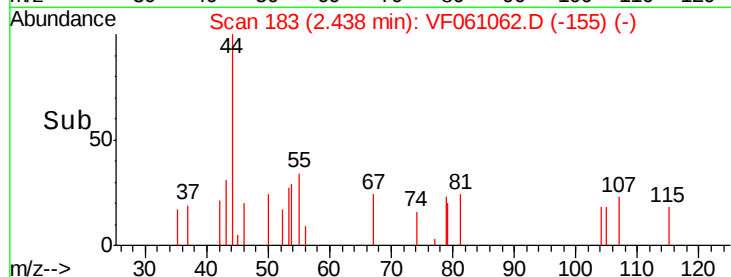
400

200

0

2.40 2.42 2.44 2.46

Time-->



#19

Methyl tert-butyl Ether

Concen: 1.737 ug/l

RT: 2.45 min Scan# 184

Delta R.T. -0.01 min

Lab File: VF061062.D

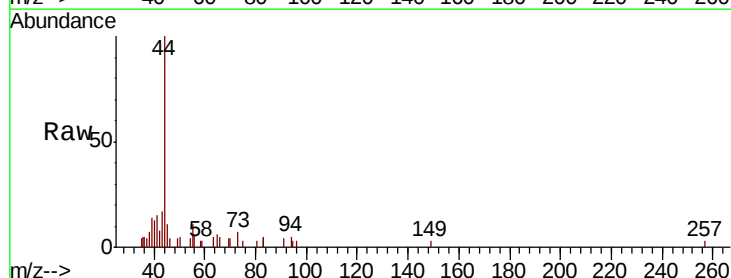
Acq: 18 Dec 2018 14:58

Tgt Ion: 73 Resp: 144

Ion Ratio Lower Upper

73 100

57 0.0 15.3 22.9#



Abundance Ion 73.00 (72.70 to 73.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

300

250

200

150

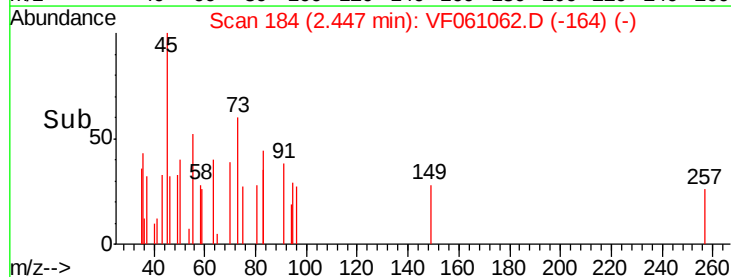
100

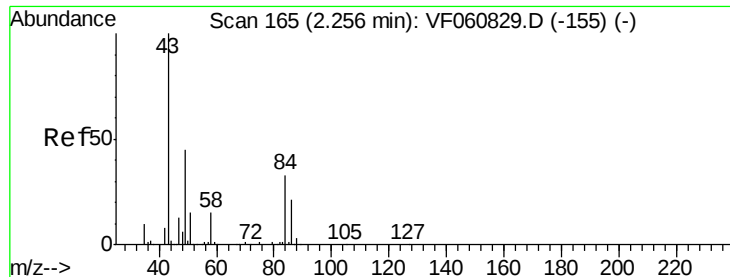
50

0

2.42 2.44 2.46 2.48

Time-->





#20

Methylene Chloride

Concen: 1.701 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

Instrument :

MSVOA_F

ClientSampleId :

VB16202RE

Tot Ion: 84 Resp: 63

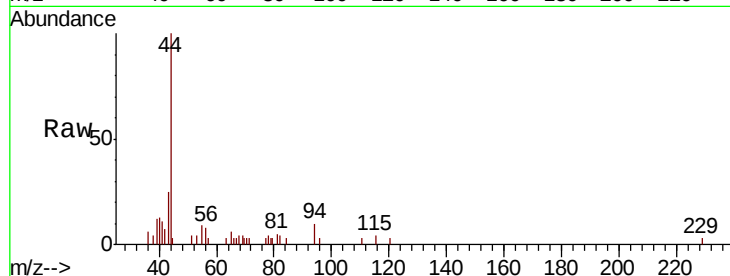
Ion Ratio Lower Upper

84 100

49 0.0 111.3 166.9#

51 145.8 38.0 57.0#

86 0.0 49.8 74.8#

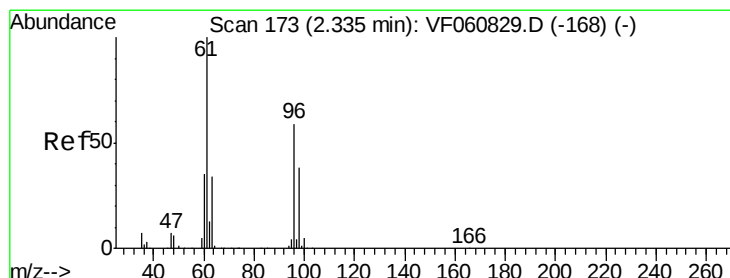
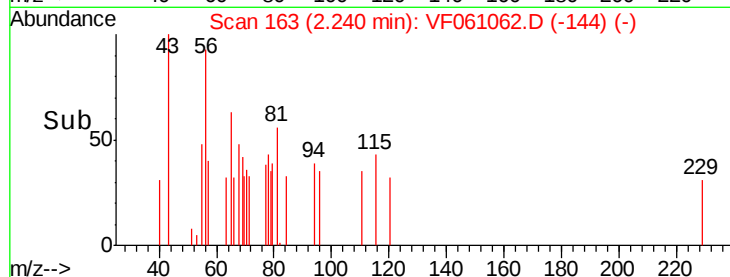
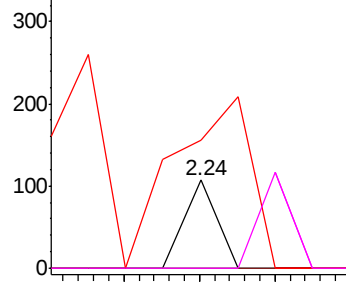


Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#21

trans-1,2-Dichloroethene

Concen: 7.666 ug/l

RT: 2.34 min Scan# 173

Delta R.T. 0.00 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

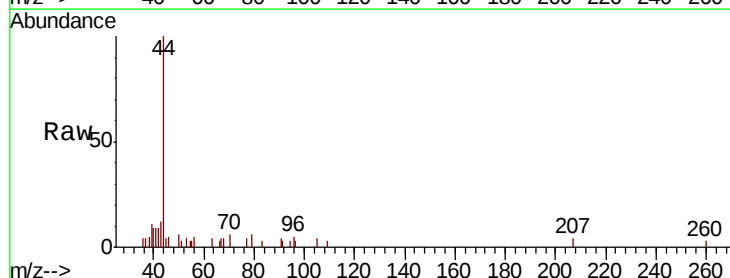
Tgt Ion: 96 Resp: 272

Ion Ratio Lower Upper

96 100

61 0.0 134.5 201.7#

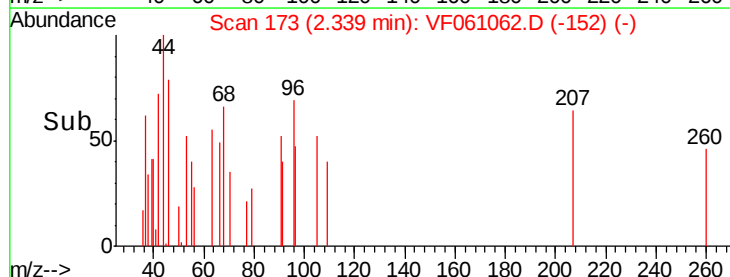
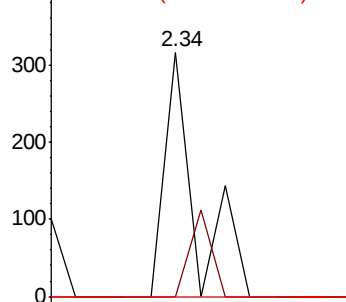
98 0.0 51.6 77.4#

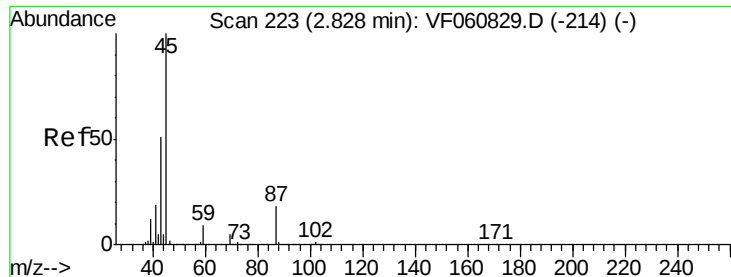


Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

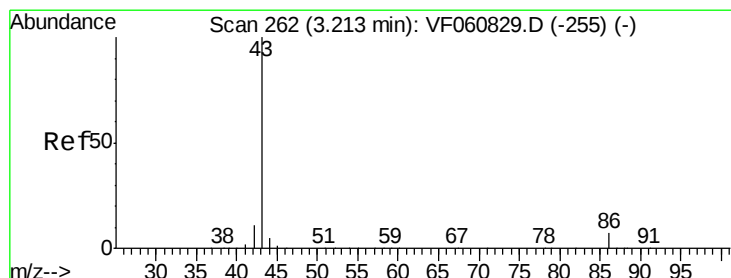
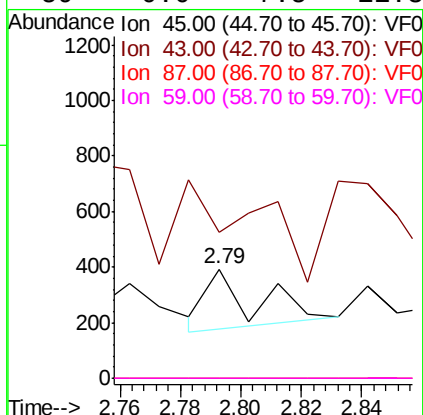
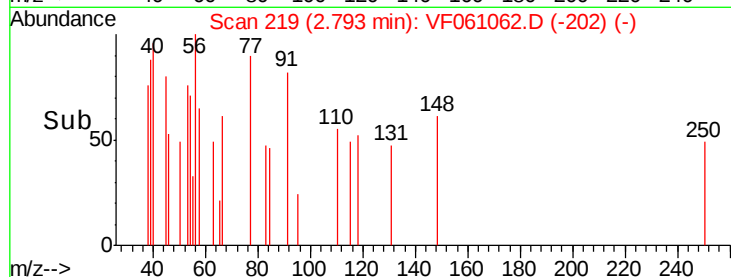
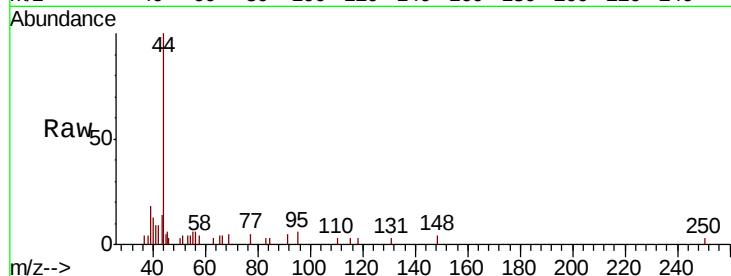




#22
Diisopropyl ether
Concen: 2.034 ug/l
RT: 2.79 min Scan# 219
Delta R.T. -0.04 min
Lab File: VF061062.D
Acq: 18 Dec 2018 14:58

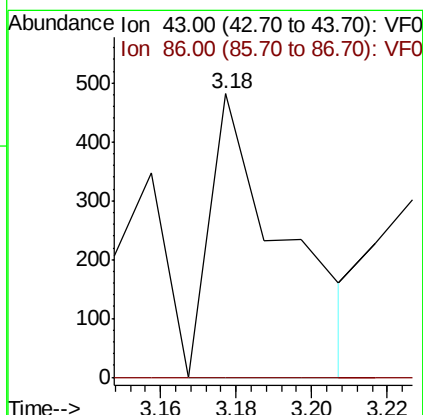
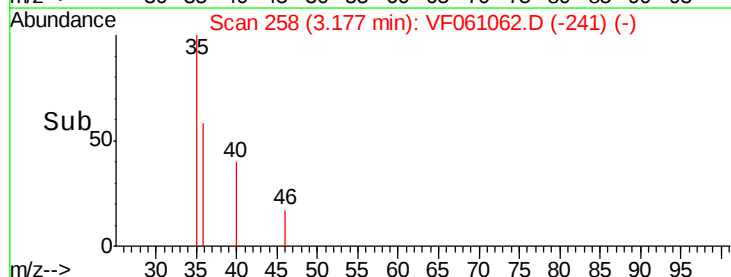
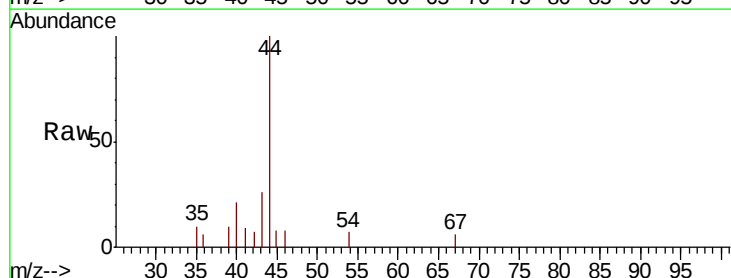
Instrument :
MSVOA_F
ClientSampleId :
VB16202RE

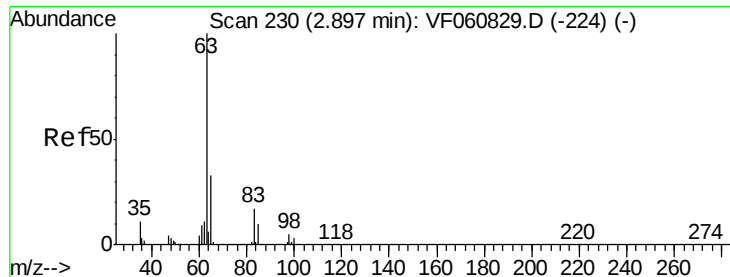
Tot Ion: 45 Resp: 254
Ion Ratio Lower Upper
45 100
43 134.2 41.0 61.6#
87 0.0 14.6 22.0#
59 0.0 7.5 11.3#



#23
Vinyl Acetate
Concen: 11.511 ug/l
RT: 3.18 min Scan# 258
Delta R.T. -0.04 min
Lab File: VF061062.D
Acq: 18 Dec 2018 14:58

Tgt Ion: 43 Resp: 657
Ion Ratio Lower Upper
43 100
86 0.0 5.4 8.0#





#24

1,1-Dichloroethane

Concen: 3.809 ug/l

RT: 2.92 min Scan# 232

Delta R.T. 0.02 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

Instrument :

MSVOA_F

ClientSampleId :

VB16202RE

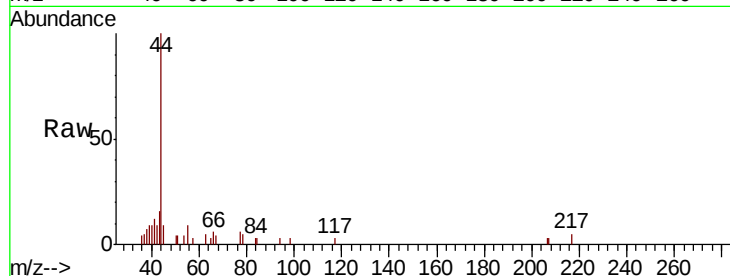
Tot Ion: 63 Resp: 283

Ion Ratio Lower Upper

63 100

98 47.4 2.7 8.1#

100 0.0 1.5 4.5#



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

2.92

200

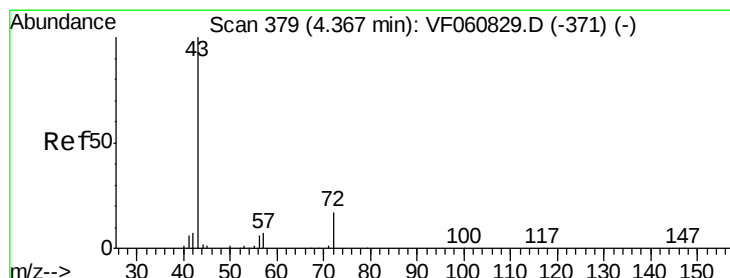
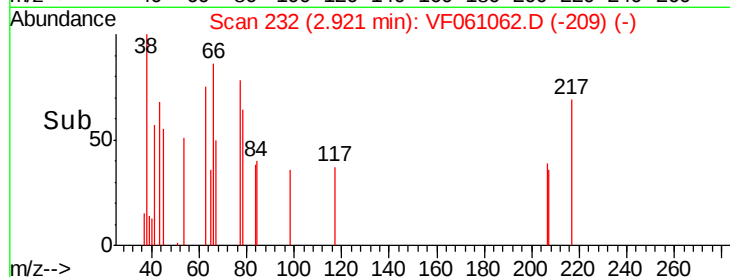
150

100

50

0

Time-->



#25

2-Butanone

Concen: 15.231 ug/l

RT: 4.31 min Scan# 373

Delta R.T. -0.06 min

Lab File: VF061062.D

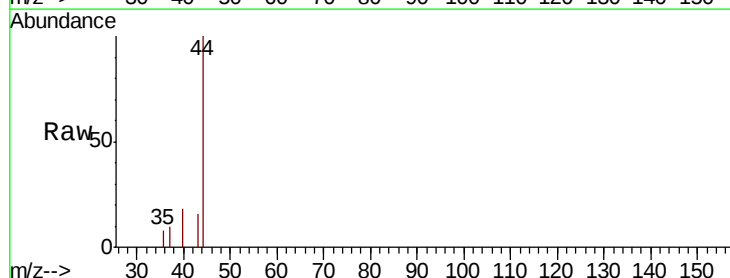
Acq: 18 Dec 2018 14:58

Tgt Ion: 43 Resp: 266

Ion Ratio Lower Upper

43 100

72 0.0 15.4 23.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

4.31

200

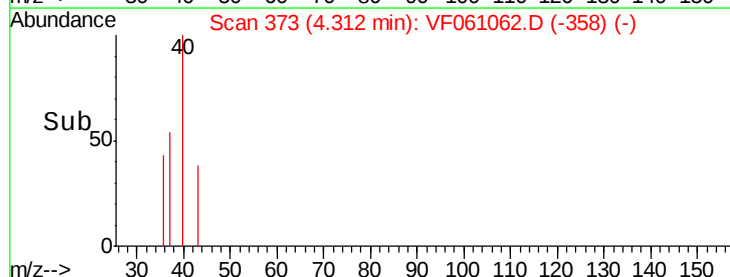
150

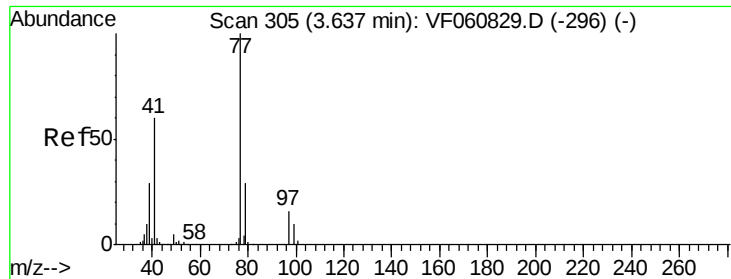
100

50

0

Time-->





#26

2,2-Dichloropropane

Concen: 2.533 ug/l

RT: 3.59 min Scan# 300

Delta R.T. -0.05 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

Instrument :

MSVOA_F

ClientSampleId :

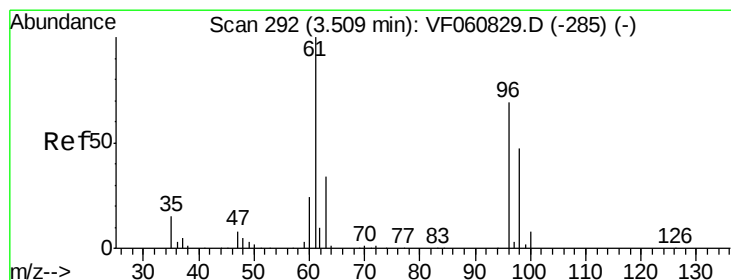
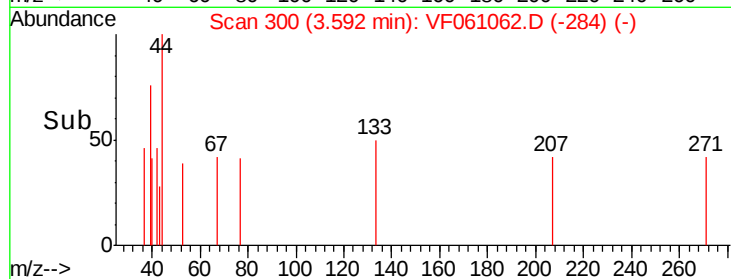
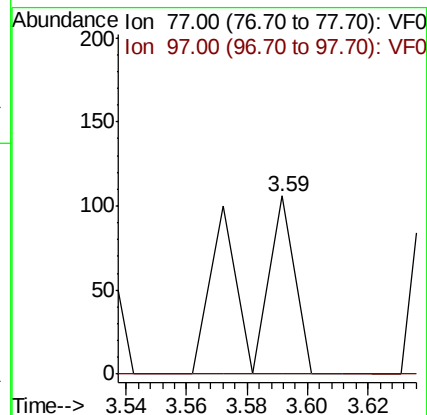
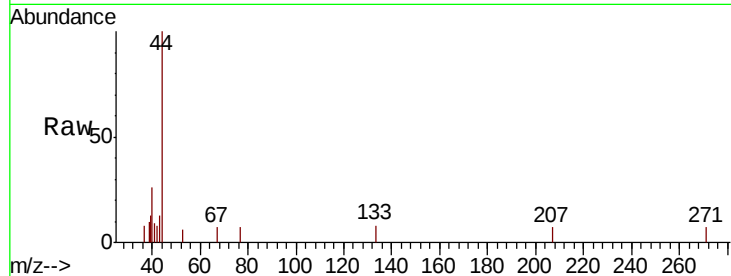
VB16202RE

Tot Ion: 77 Resp: 122

Ion Ratio Lower Upper

77 100

97 0.0 8.6 25.8#



#27

cis-1,2-Dichloroethene

Concen: 1.125 ug/l

RT: 3.44 min Scan# 285

Delta R.T. -0.07 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

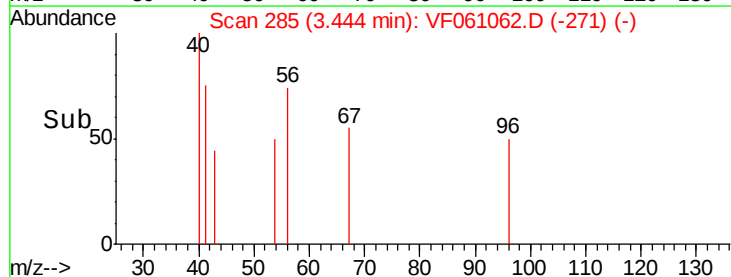
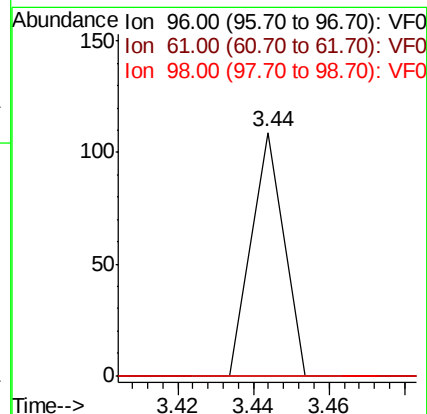
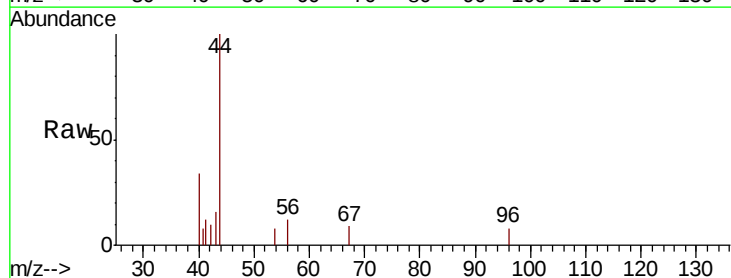
Tgt Ion: 96 Resp: 65

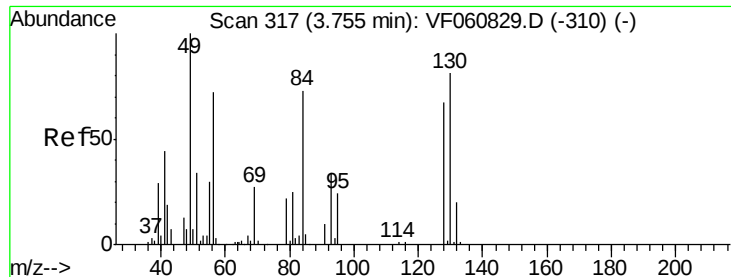
Ion Ratio Lower Upper

96 100

61 0.0 0.0 290.6

98 0.0 0.0 137.8





#28

Bromochloromethane

Concen: 1.851 ug/l

RT: 3.61 min Scan# 302

Delta R.T. -0.14 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

Instrument :

MSVOA_F

ClientSampleId :

VB16202RE

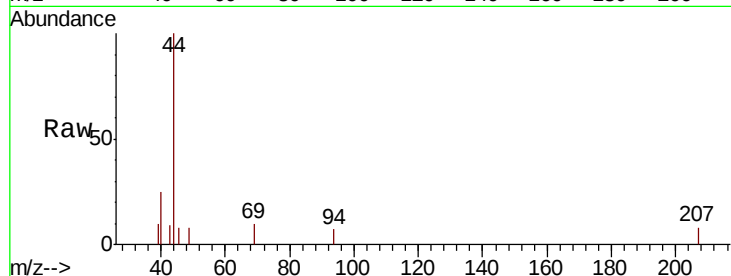
Tot Ion: 49 Resp: 66

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.4

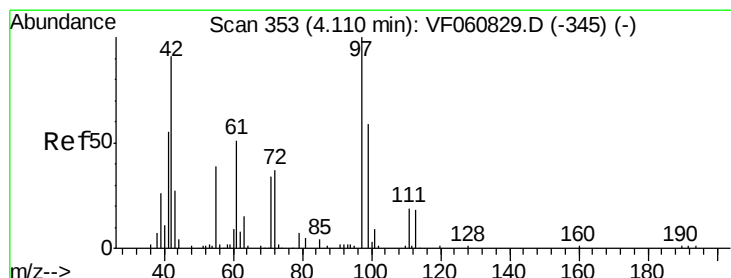
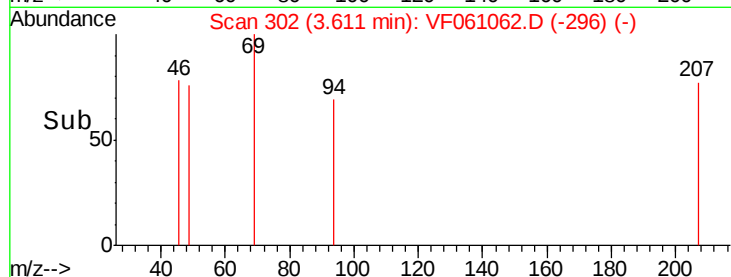
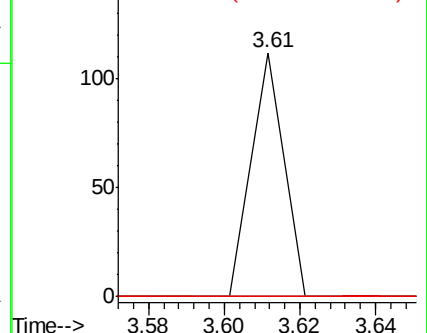
130 0.0 64.2 96.4#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V



#29

Tetrahydrofuran

Concen: 51.601 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

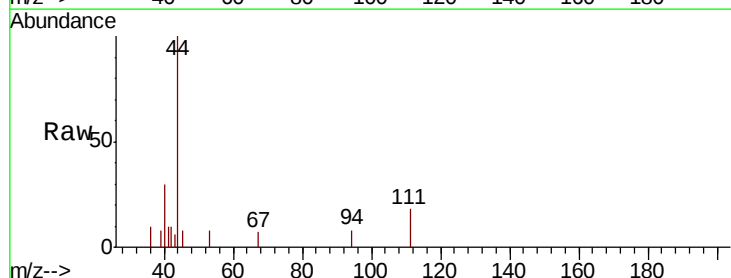
Tgt Ion: 42 Resp: 382

Ion Ratio Lower Upper

42 100

72 0.0 31.9 47.9#

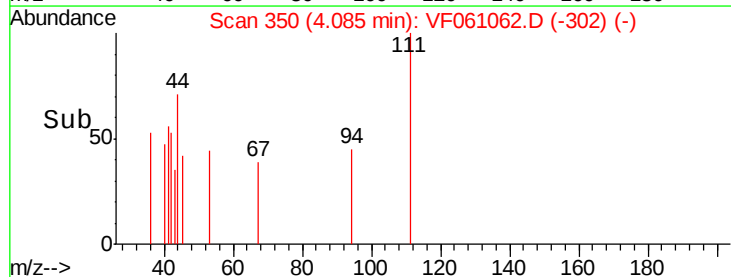
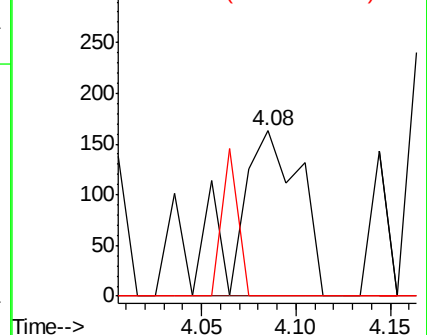
71 22.5 28.7 43.1#

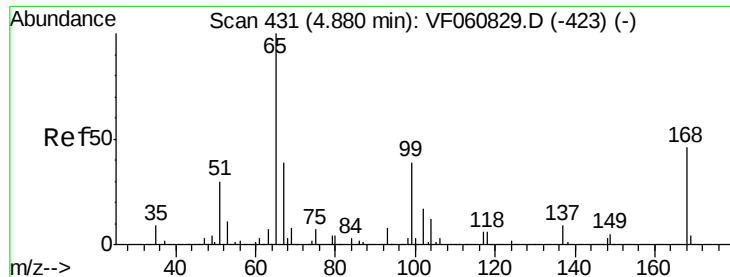


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

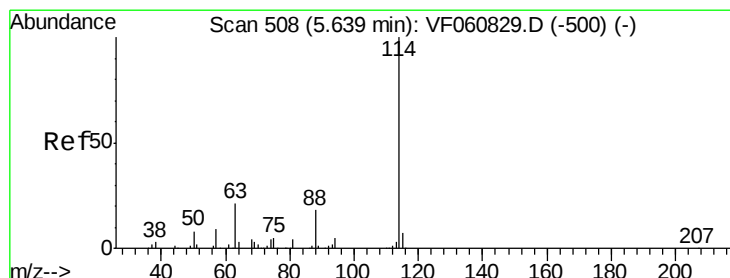
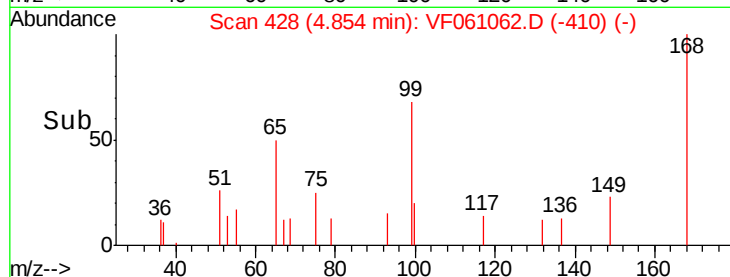
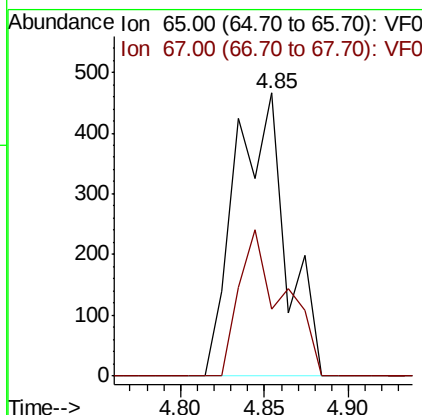
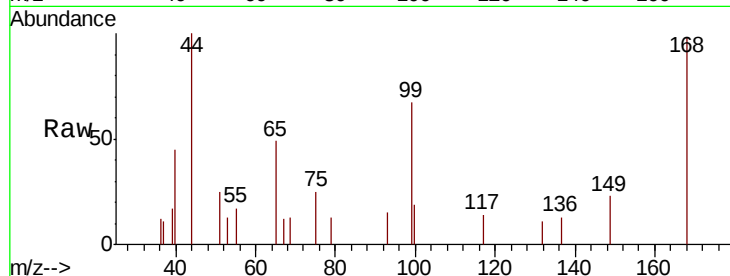




#33
 1,2-Dichloroethane-d4
 Concen: 17.953 ug/l
 RT: 4.85 min Scan# 428
 Delta R.T. -0.03 min
 Lab File: VF061062.D
 Acq: 18 Dec 2018 14:58

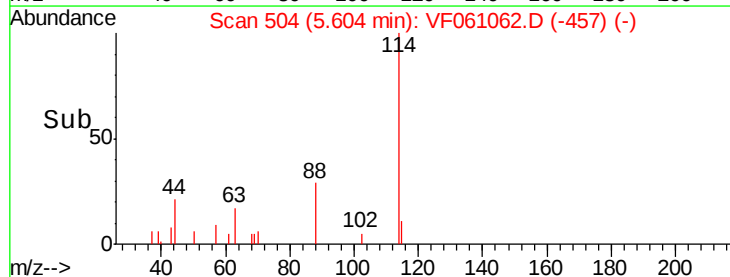
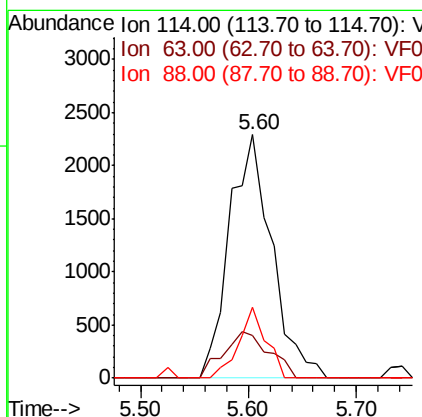
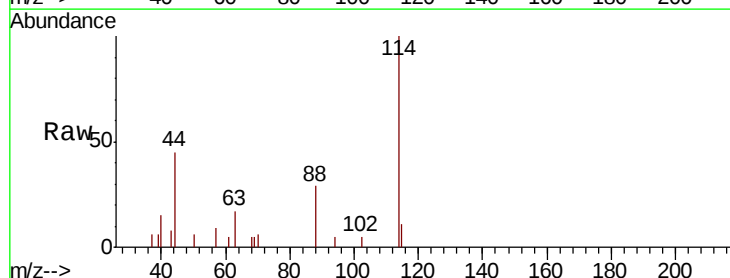
Instrument :
 MSVOA_F
 ClientSampleID :
 VB16202RE

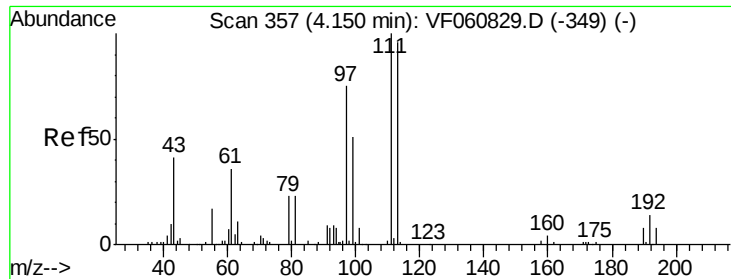
Tot Ion: 65 Resp: 983
 Ion Ratio Lower Upper
 65 100
 67 23.8 0.0 96.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.04 min
 Lab File: VF061062.D
 Acq: 18 Dec 2018 14:58

Tgt Ion: 114 Resp: 6245
 Ion Ratio Lower Upper
 114 100
 63 17.5 0.0 41.6
 88 28.9 0.0 36.6

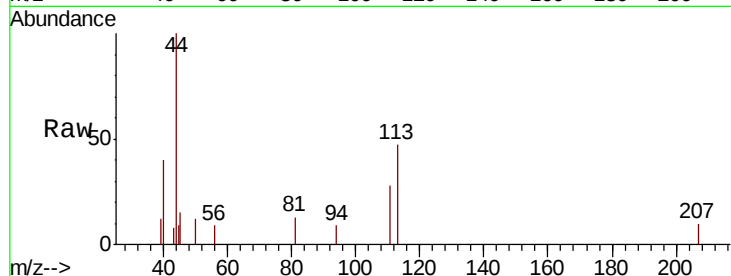




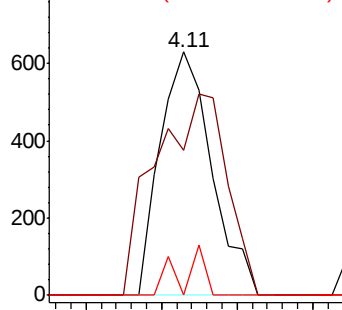
#35
Dibromofluoromethane
Concen: 30.277 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.04 min
Lab File: VF061062.D
Acq: 18 Dec 2018 14:58

Instrument :
MSVOA_F
ClientSampleId :
VB16202RE

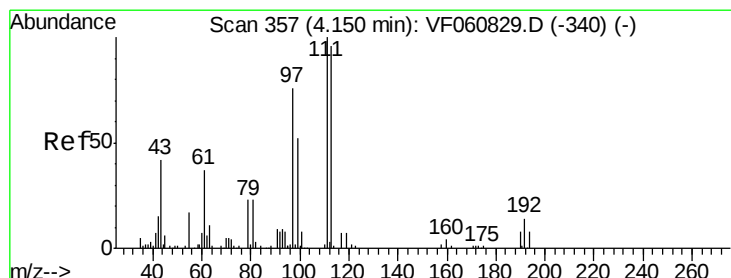
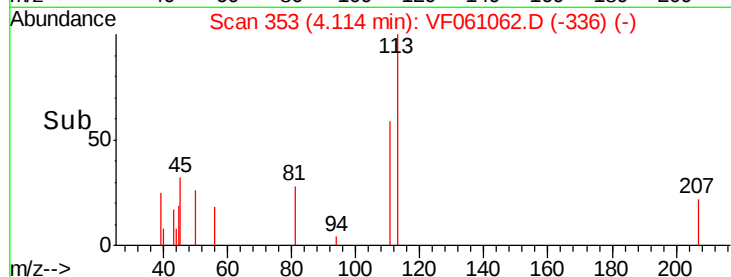
Tot Ion:113 Resp: 1500
Ion Ratio Lower Upper
113 100
111 59.4 83.0 124.6#
192 0.0 12.3 18.5#



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

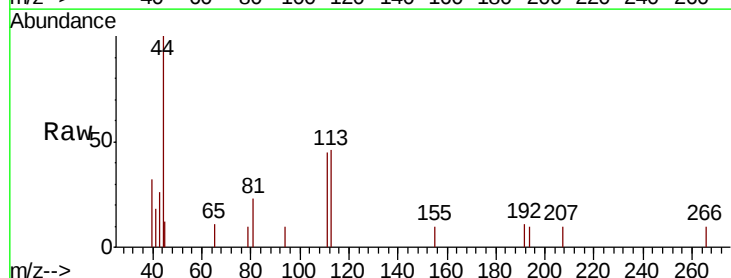


Time-->

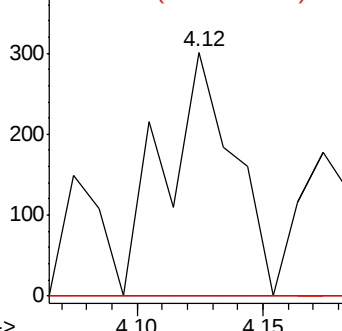


#37
Ethyl Acetate
Concen: 20.427 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.03 min
Lab File: VF061062.D
Acq: 18 Dec 2018 14:58

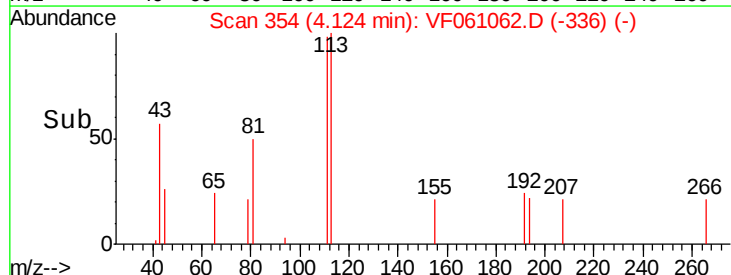
Tgt Ion: 43 Resp: 575
Ion Ratio Lower Upper
43 100
61 0.0 68.6 103.0#
70 0.0 9.0 13.4#

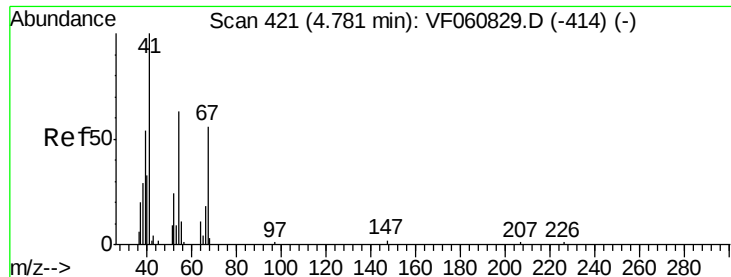


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0



Time-->

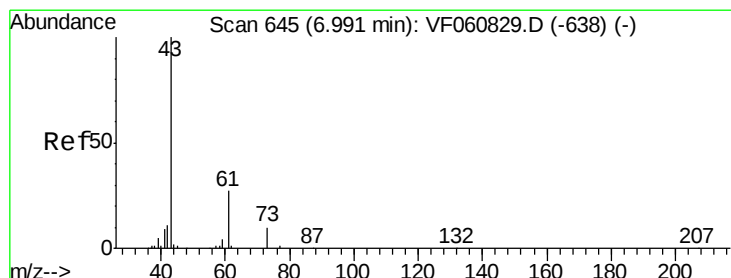
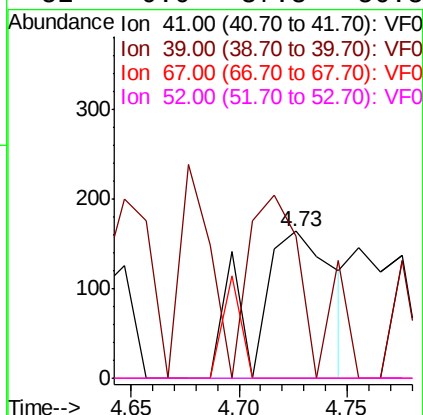
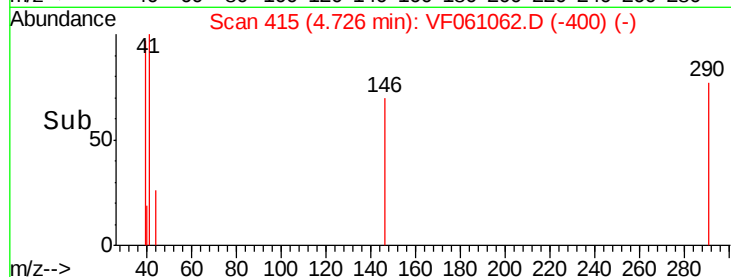
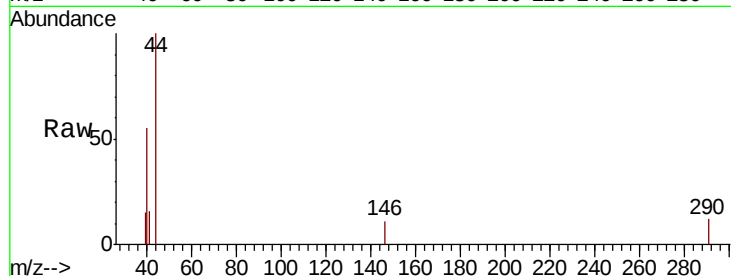




#41
Methacrylonitrile
Concen: 26.814 ug/l
RT: 4.73 min Scan# 415
Delta R.T. -0.05 min
Lab File: VF061062.D
Acq: 18 Dec 2018 14:58

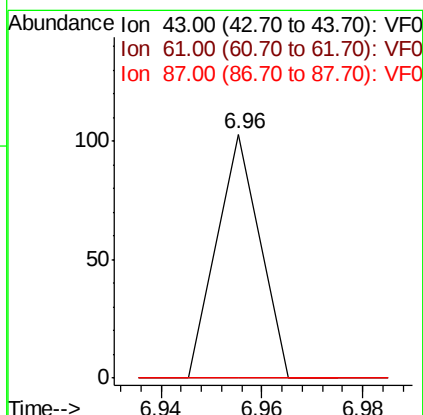
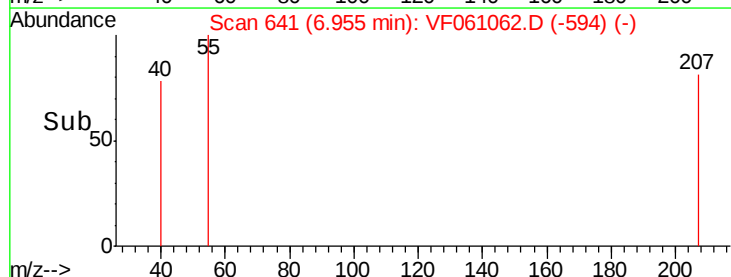
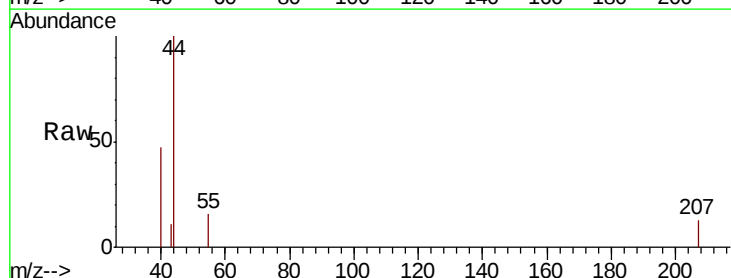
Instrument :
MSVOA_F
ClientSampleId :
VB16202RE

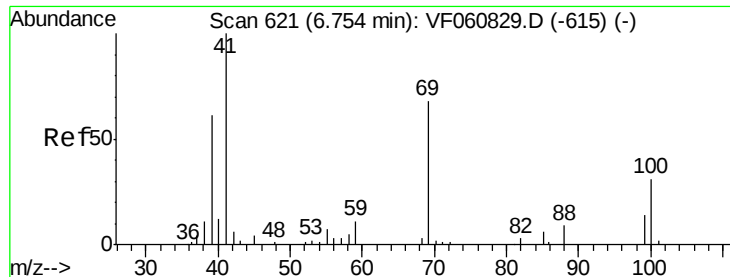
Tot Ion:	41	Resp:	417
Ion	Ratio	Lower	Upper
41	100		
39	97.0	53.0	79.6#
67	0.0	43.8	65.6#
52	0.0	37.8	56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.96 min Scan# 641
Delta R.T. -0.03 min
Lab File: VF061062.D
Acq: 18 Dec 2018 14:58

Tgt Ion:	43	Resp:	61
Ion	Ratio	Lower	Upper
43	100		
61	0.0	21.4	32.0#
87	0.0	0.2	0.4#





#48

Methyl methacrylate

Concen: 8.438 ug/l

RT: 6.67 min Scan# 612

Delta R.T. -0.08 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

Instrument :

MSVOA_F

ClientSampleId :

VB16202RE

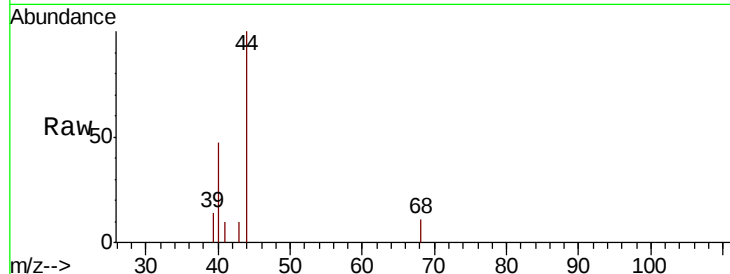
Tot Ion: 41 Resp: 215

Ion Ratio Lower Upper

41 100

69 0.0 53.9 80.9#

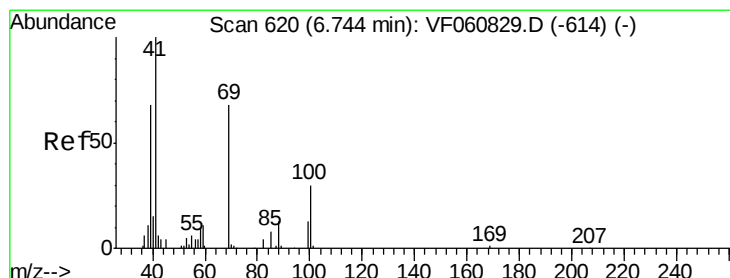
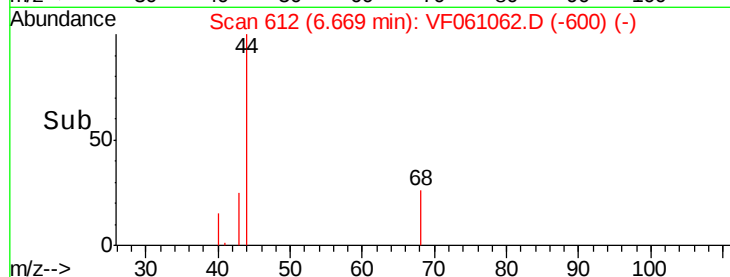
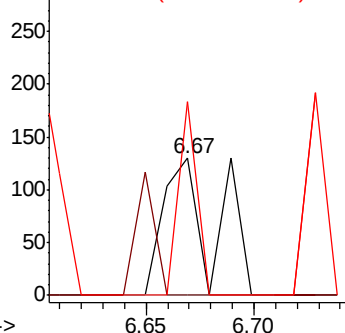
39 140.8 49.0 73.6#



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



#49

1,4-Dioxane

Concen: 348.572 ug/l

RT: 6.26 min Scan# 570

Delta R.T. -0.49 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

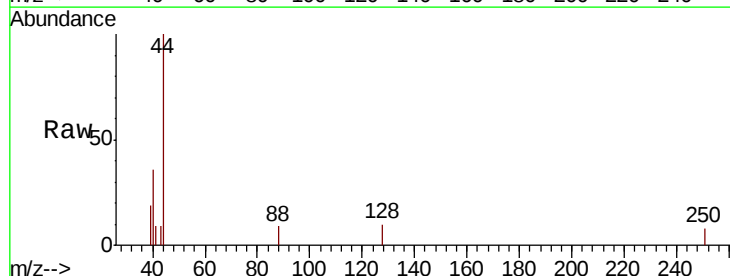
Tgt Ion: 88 Resp: 65

Ion Ratio Lower Upper

88 100

43 99.1 42.0 63.0#

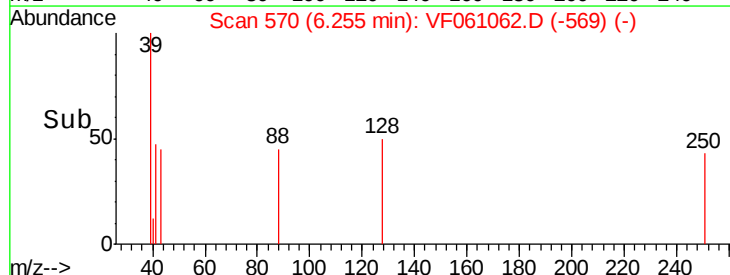
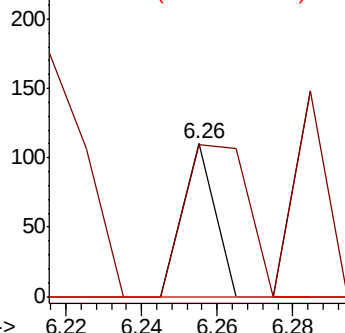
58 0.0 61.8 92.8#

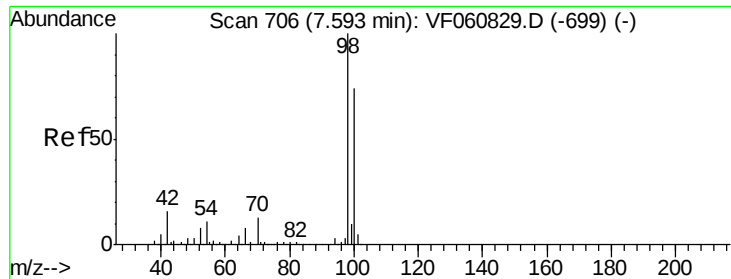


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 38.283 ug/l

RT: 7.56 min Scan# 702

Delta R.T. -0.04 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

Instrument :

MSVOA_F

ClientSampleId :

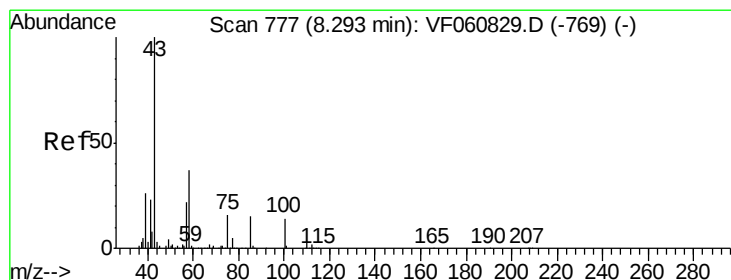
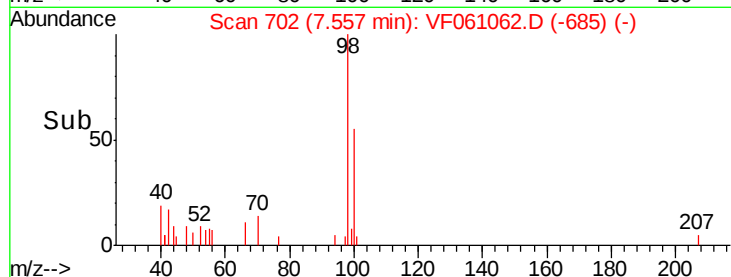
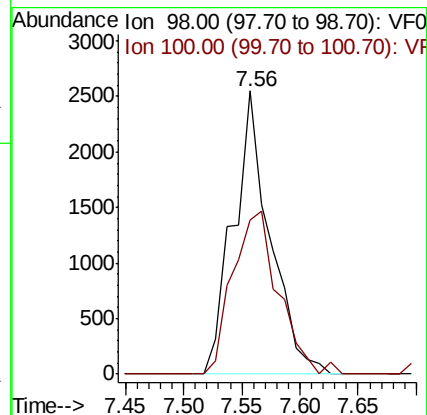
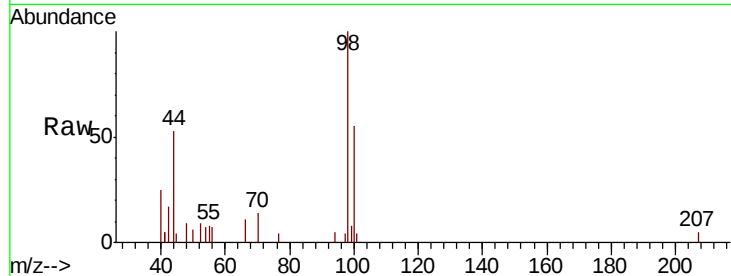
VB16202RE

Tot Ion: 98 Resp: 5587

Ion Ratio Lower Upper

98 100

100 54.5 59.3 88.9#



#51

4-Methyl-2-Pentanone

Concen: 6.626 ug/l

RT: 8.23 min Scan# 770

Delta R.T. -0.07 min

Lab File: VF061062.D

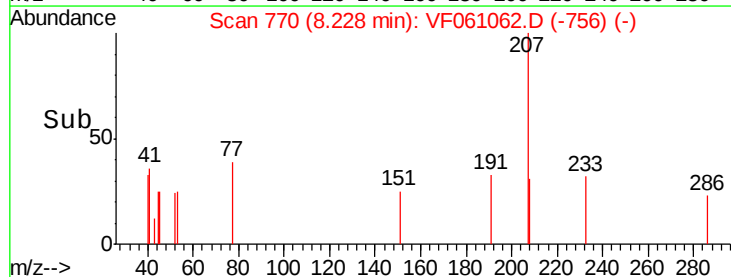
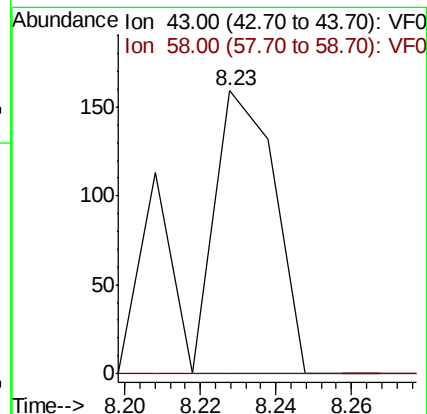
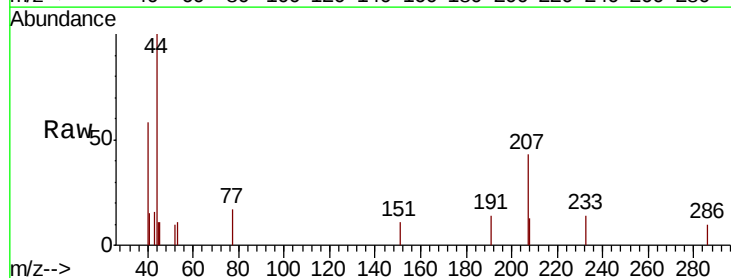
Acq: 18 Dec 2018 14:58

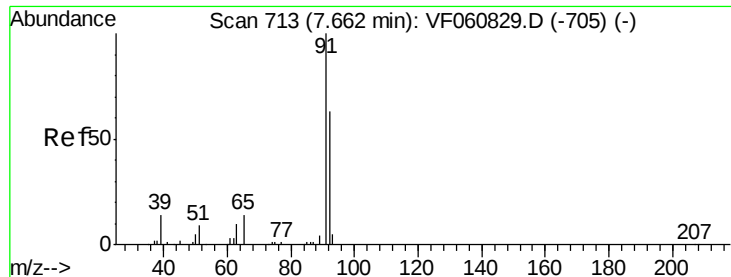
Tgt Ion: 43 Resp: 172

Ion Ratio Lower Upper

43 100

58 0.0 29.7 44.5#





#52

Toluene

Concen: 7.564 ug/l

RT: 7.63 min Scan# 709

Delta R.T. -0.04 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

Instrument :

MSVOA_F

ClientSampleId :

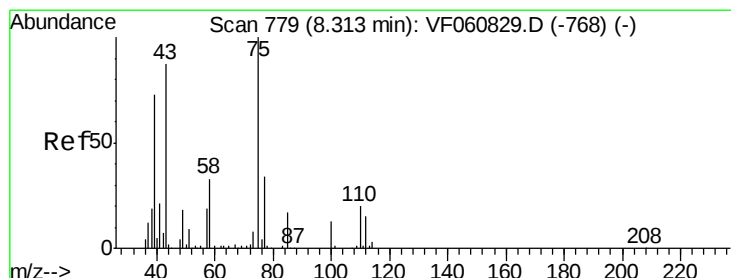
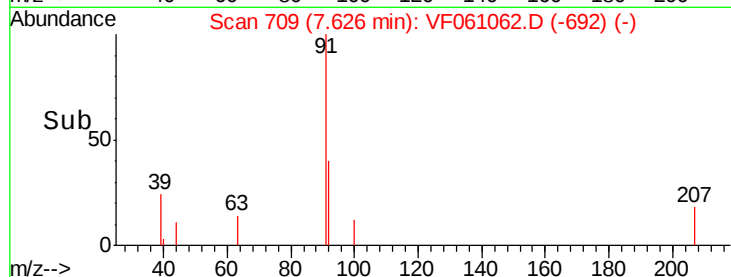
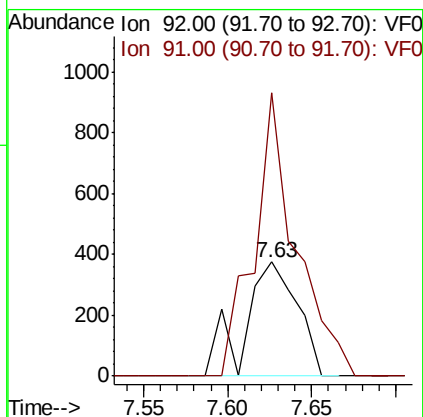
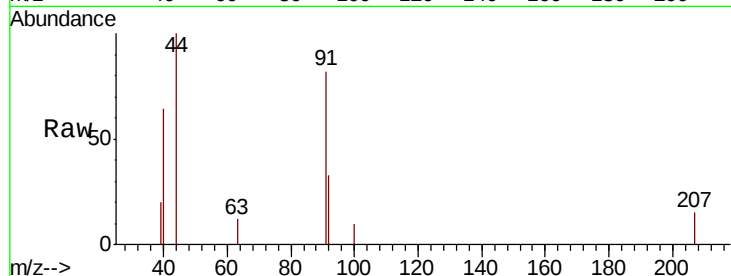
VB16202RE

Tot Ion: 92 Resp: 813

Ion Ratio Lower Upper

92 100

91 248.7 126.2 189.2#



#53

t-1,3-Dichloropropene

Concen: 1.339 ug/l

RT: 8.31 min Scan# 778

Delta R.T. -0.01 min

Lab File: VF061062.D

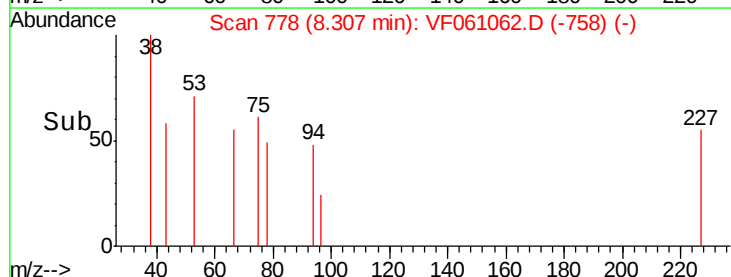
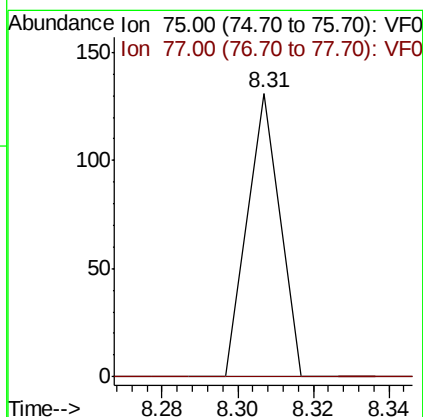
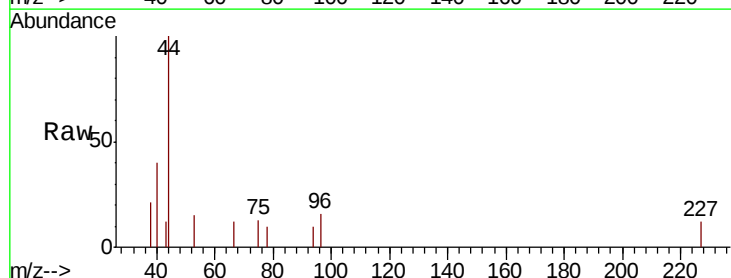
Acq: 18 Dec 2018 14:58

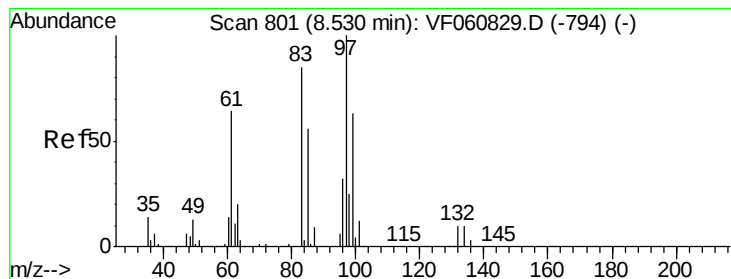
Tgt Ion: 75 Resp: 78

Ion Ratio Lower Upper

75 100

77 0.0 27.4 41.2#





#55

1,1,2-Trichloroethane

Concen: 2.427 ug/l

RT: 8.59 min Scan# 807

Delta R.T. 0.06 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

Instrument :

MSVOA_F

ClientSampleId :

VB16202RE

Tot Ion: 97 Resp: 76

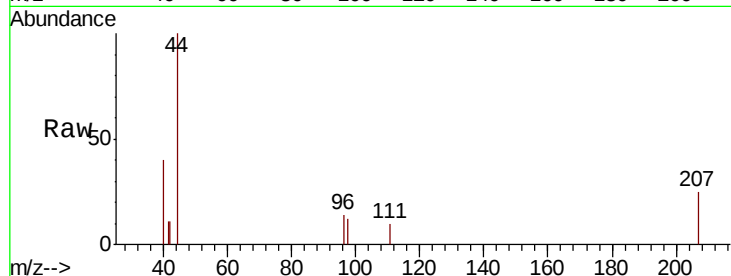
Ion Ratio Lower Upper

97 100

83 0.0 67.8 101.6#

85 0.0 45.0 67.6#

99 0.0 50.5 75.7#

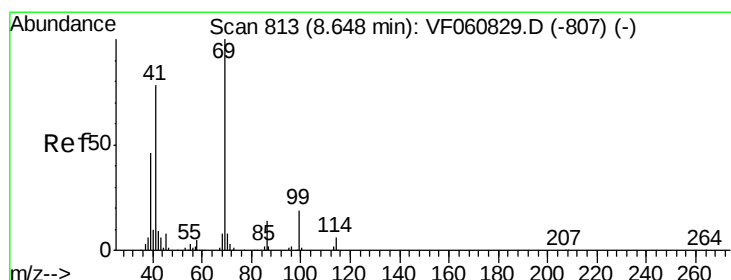
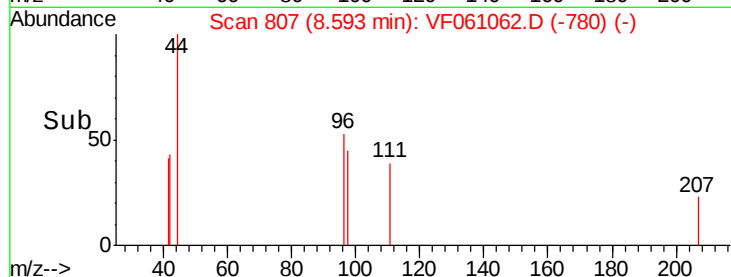
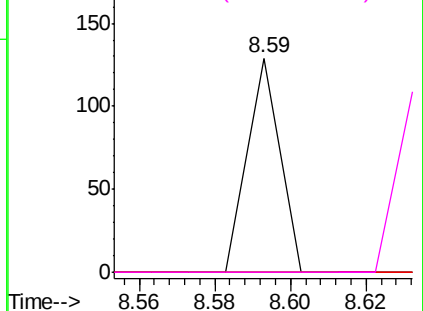


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 2.271 ug/l

RT: 8.65 min Scan# 813

Delta R.T. 0.00 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

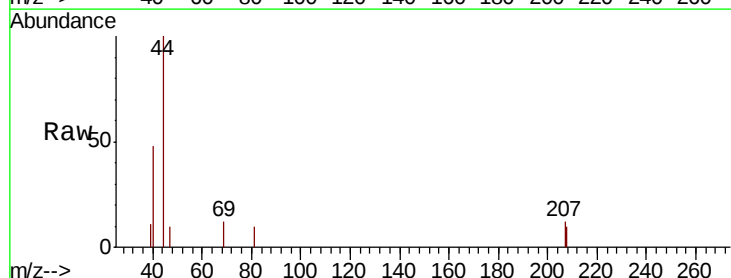
Tgt Ion: 69 Resp: 79

Ion Ratio Lower Upper

69 100

41 0.0 62.6 94.0#

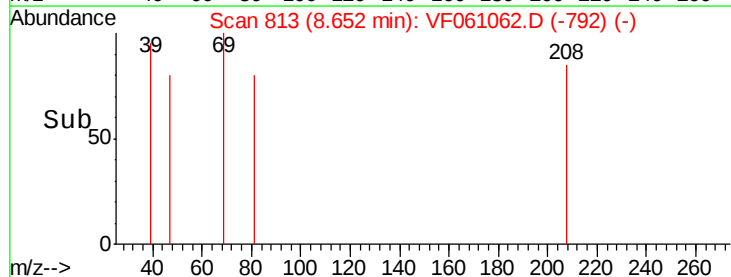
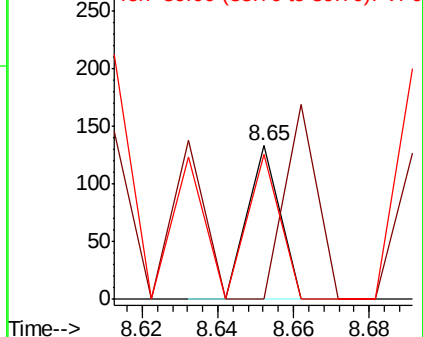
39 94.7 37.8 56.6#

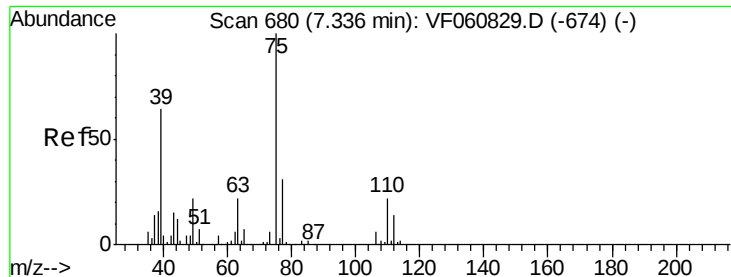


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

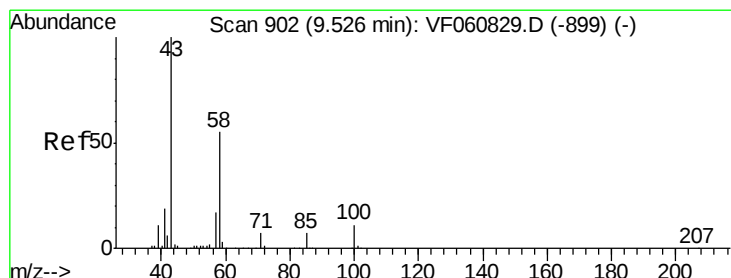
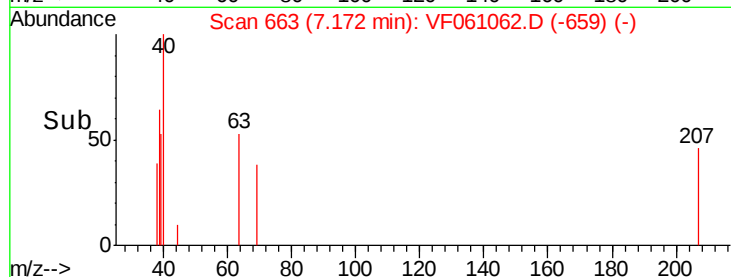
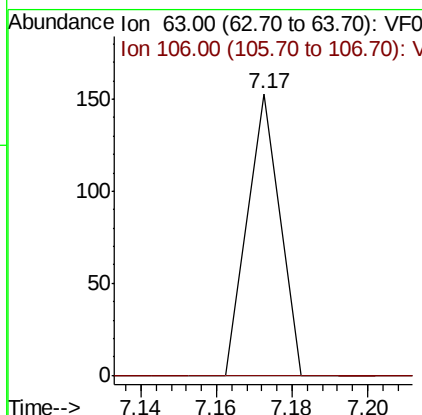
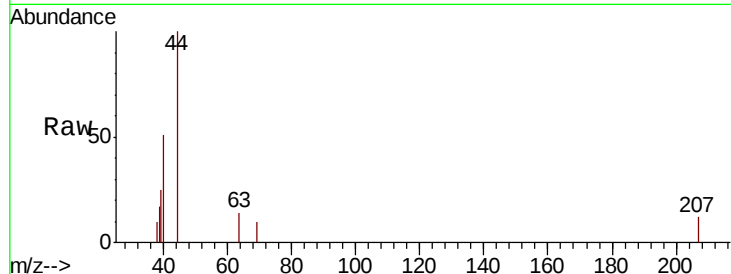




#58
2-Chloroethyl Vinyl ether
Concen: 25.570 ug/l
RT: 7.17 min Scan# 663
Delta R.T. -0.16 min
Lab File: VF061062.D
Acq: 18 Dec 2018 14:58

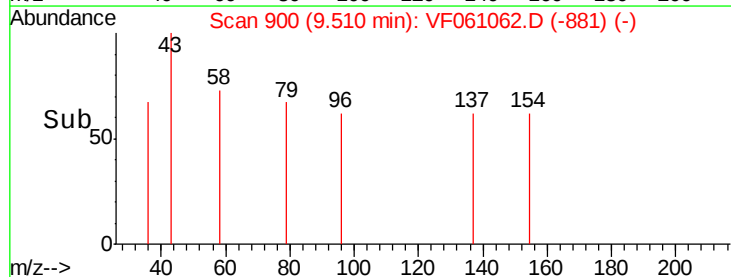
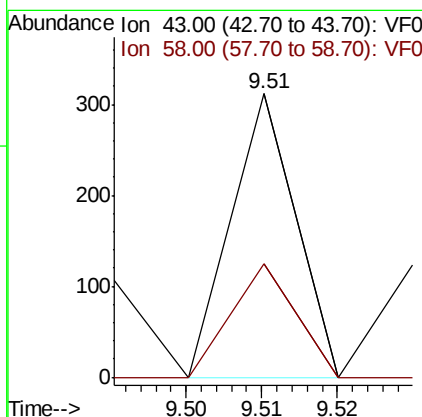
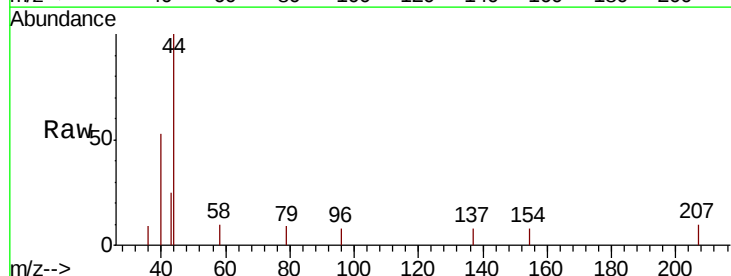
Instrument :
MSVOA_F
ClientSampleId :
VB16202RE

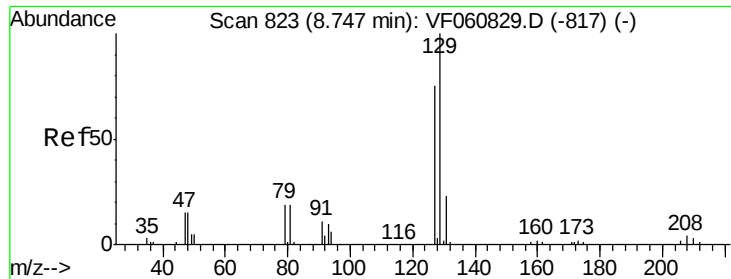
Tot Ion: 63 Resp: 91
Ion Ratio Lower Upper
63 100
106 0.0 23.0 34.6#



#59
2-Hexanone
Concen: 10.159 ug/l
RT: 9.51 min Scan# 900
Delta R.T. -0.02 min
Lab File: VF061062.D
Acq: 18 Dec 2018 14:58

Tgt Ion: 43 Resp: 185
Ion Ratio Lower Upper
43 100
58 40.1 25.6 76.6





#60

Dibromochloromethane

Concen: 1.414 ug/l

RT: 8.72 min Scan# 820

Delta R.T. -0.03 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

Instrument :

MSVOA_F

ClientSampleId :

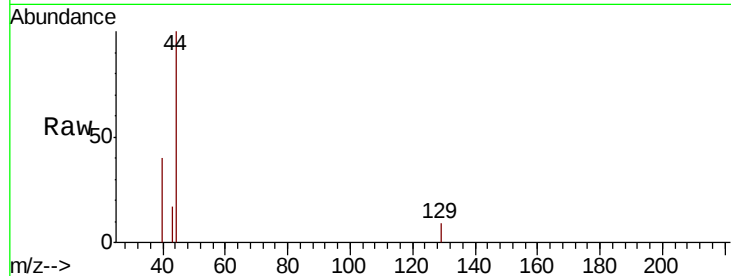
VB16202RE

Tot Ion:129 Resp: 66

Ion Ratio Lower Upper

129 100

127 0.0 37.3 111.9#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.72

100

80

60

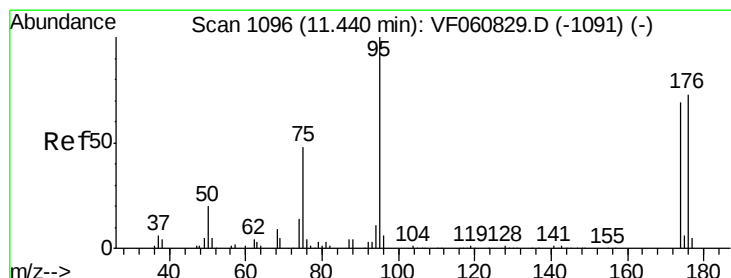
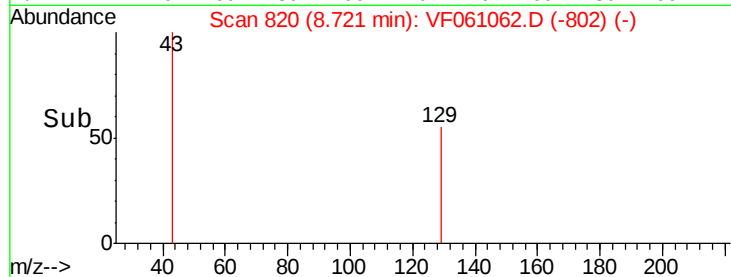
40

20

0

8.70 8.72 8.74

Time-->



#62

4-Bromofluorobenzene

Concen: 22.449 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

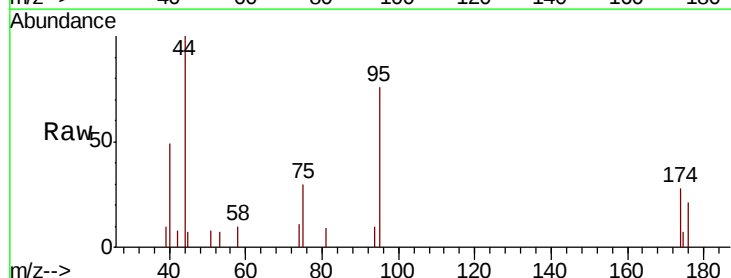
Tgt Ion: 95 Resp: 1489

Ion Ratio Lower Upper

95 100

174 46.6 0.0 138.2

176 27.9 0.0 146.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

1500

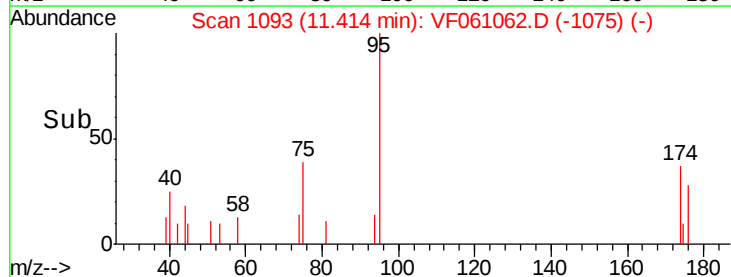
1000

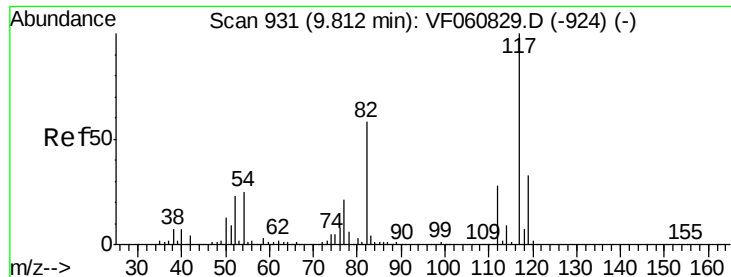
500

0

11.35 11.40 11.45

Time-->

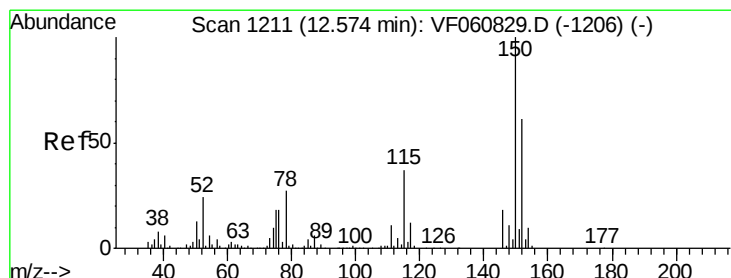
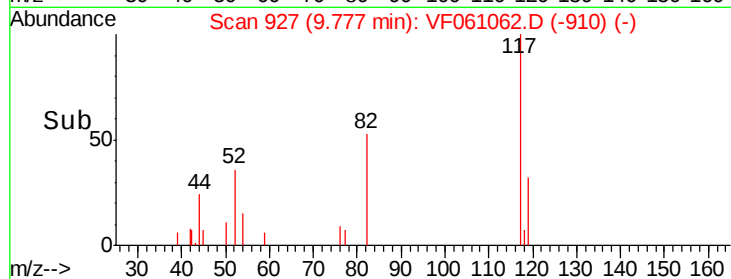
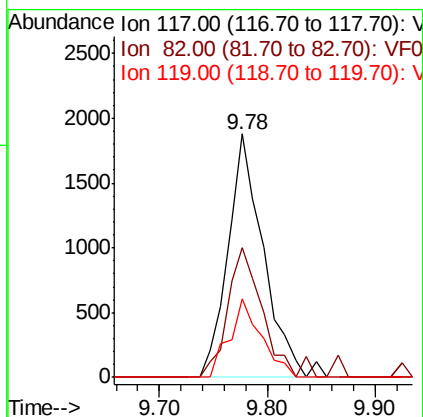
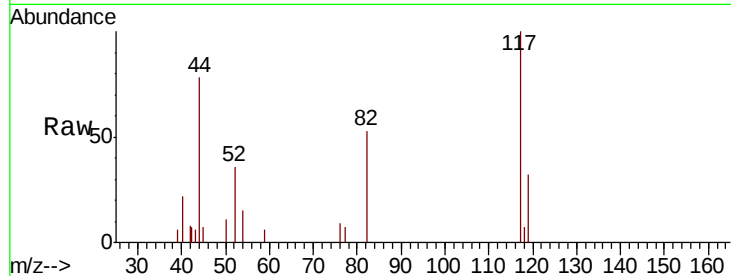




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF061062.D
Acq: 18 Dec 2018 14:58

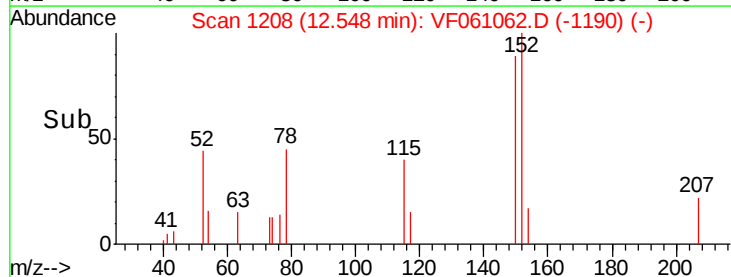
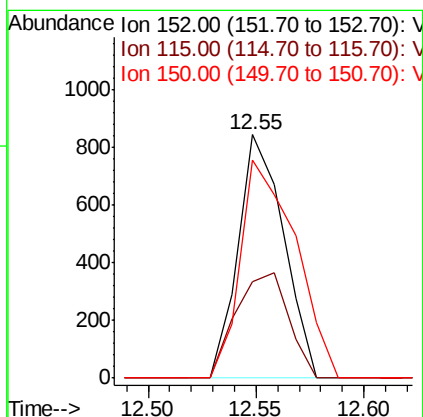
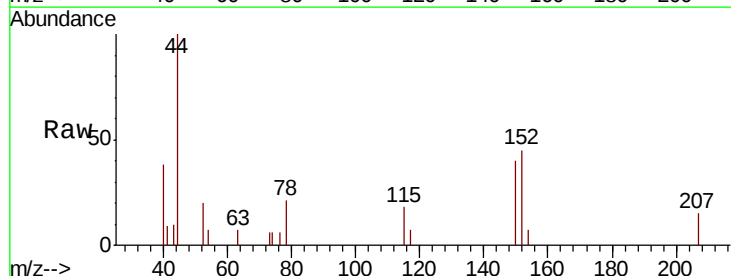
Instrument :
MSVOA_F
ClientSampleId :
VB16202RE

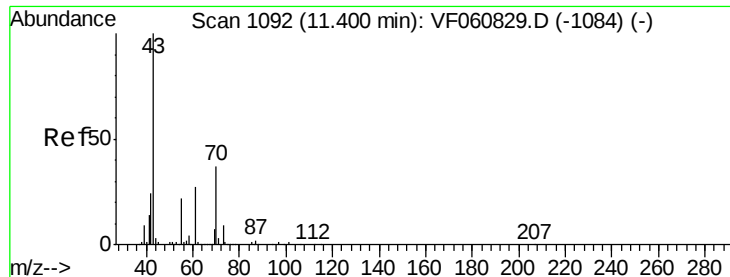
Tot Ion:117 Resp: 4303
Ion Ratio Lower Upper
117 100
82 53.4 46.6 69.8
119 32.0 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.03 min
Lab File: VF061062.D
Acq: 18 Dec 2018 14:58

Tgt Ion:152 Resp: 1235
Ion Ratio Lower Upper
152 100
115 39.9 30.1 90.5
150 89.3 0.0 327.6





#74

N-amvl acetate

Concen: 17.083 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.02 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

Instrument :

MSVOA_F

ClientSampleId :

VB16202RE

Tot Ion: 43 Resp: 385

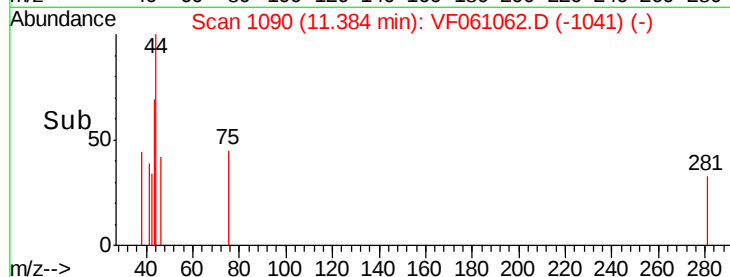
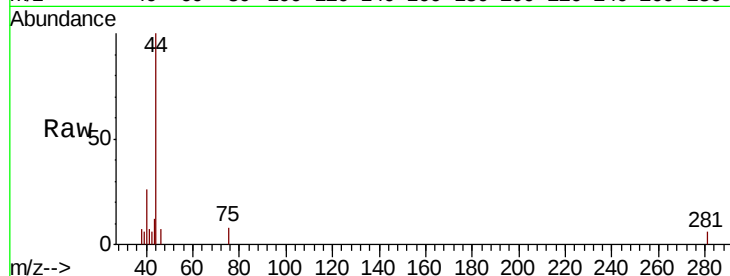
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 0.0 17.2 25.8#

61 0.0 21.8 32.6#

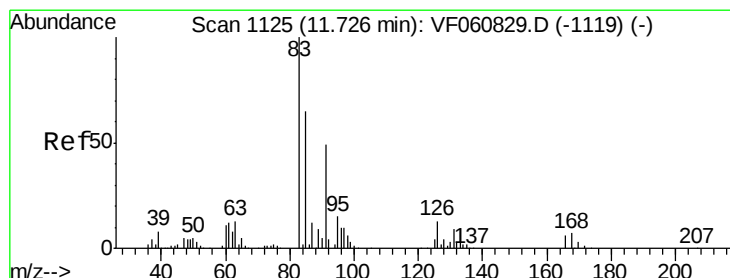
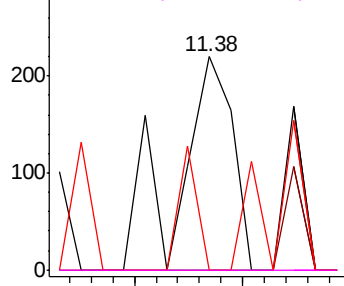


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#75

1,1,2,2-Tetrachloroethane

Concen: 5.105 ug/l

RT: 11.64 min Scan# 1116

Delta R.T. -0.08 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

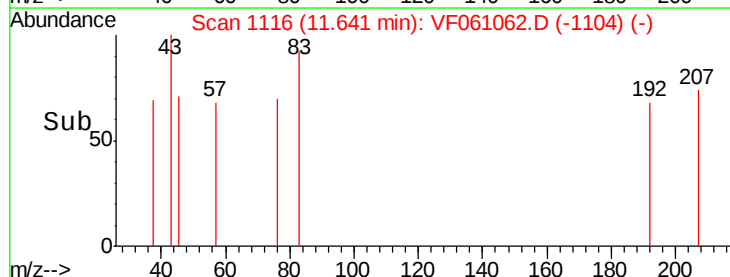
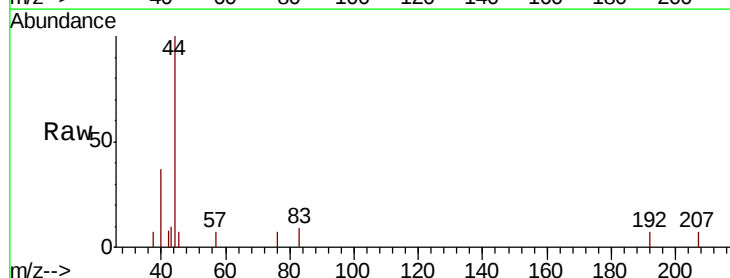
Tgt Ion: 83 Resp: 82

Ion Ratio Lower Upper

83 100

131 0.0 4.7 14.1#

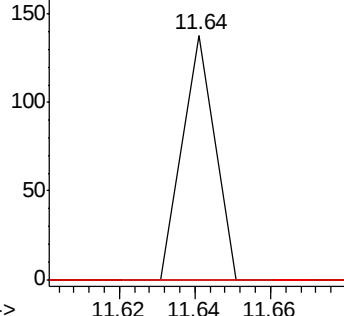
85 0.0 32.6 97.8#

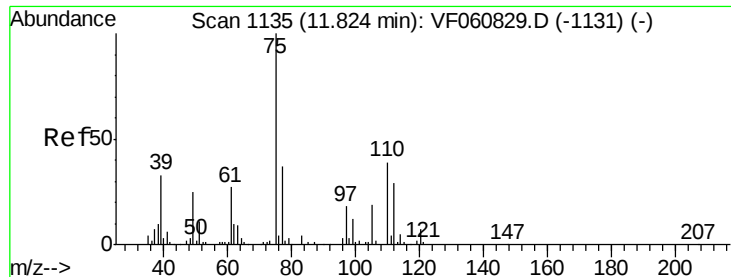


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0





#76

1,2,3-Trichloropropane

Concen: 8.394 ug/l

RT: 11.86 min Scan# 1138

Delta R.T. 0.03 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

Instrument :

MSVOA_F

ClientSampleId :

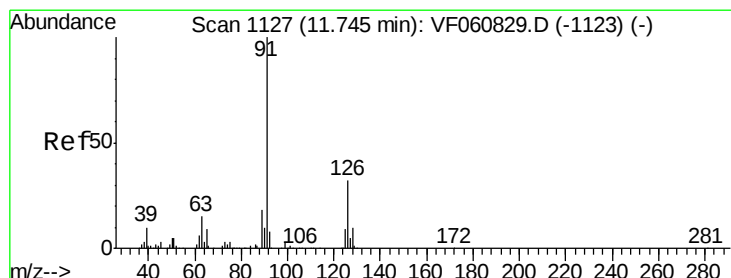
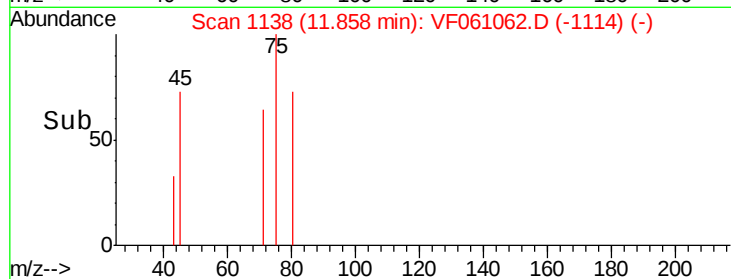
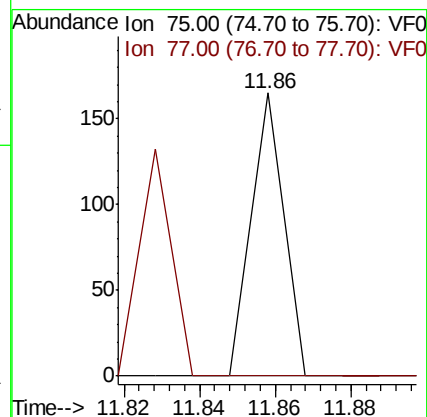
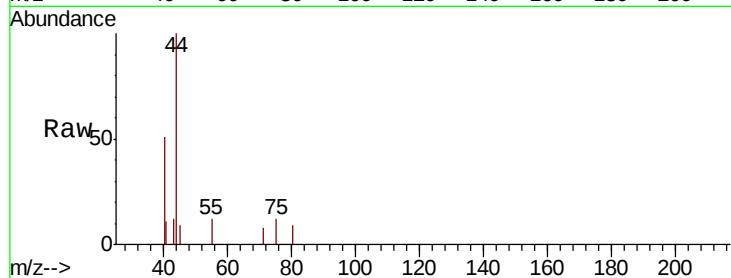
VB16202RE

Tot Ion: 75 Resp: 98

Ion Ratio Lower Upper

75 100

77 0.0 18.4 55.4#



#79

2-Chlorotoluene

Concen: 1.633 ug/l

RT: 11.66 min Scan# 1118

Delta R.T. -0.08 min

Lab File: VF061062.D

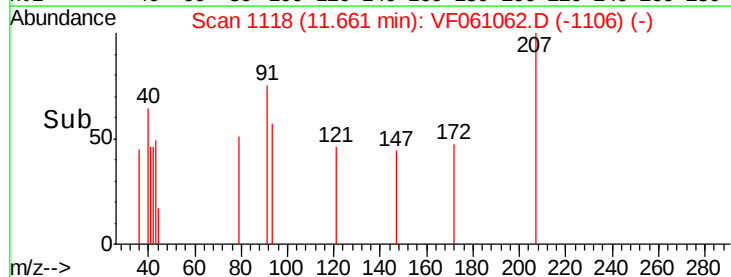
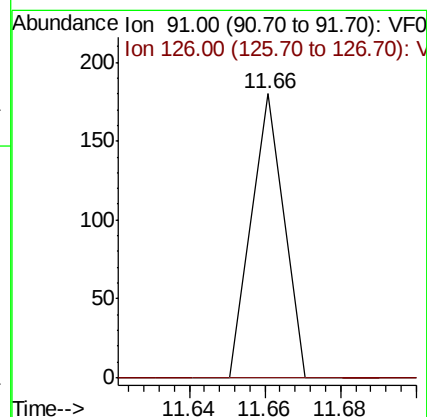
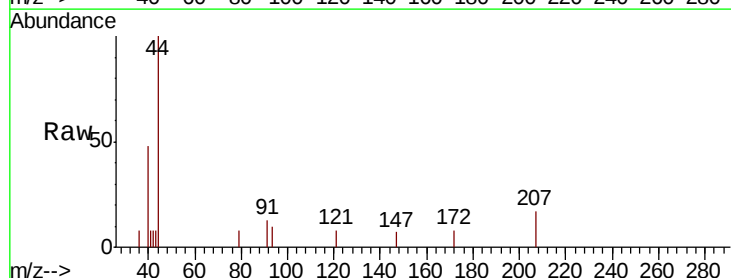
Acq: 18 Dec 2018 14:58

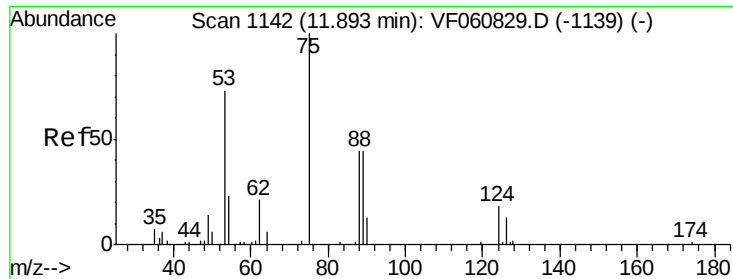
Tgt Ion: 91 Resp: 107

Ion Ratio Lower Upper

91 100

126 0.0 15.9 47.6#





#81

trans-1,4-Dichloro-2-butene

Concen: 17.132 ug/l

RT: 11.86 min Scan# 1138

Delta R.T. -0.04 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

Instrument :

MSVOA_F

ClientSampleId :

VB16202RE

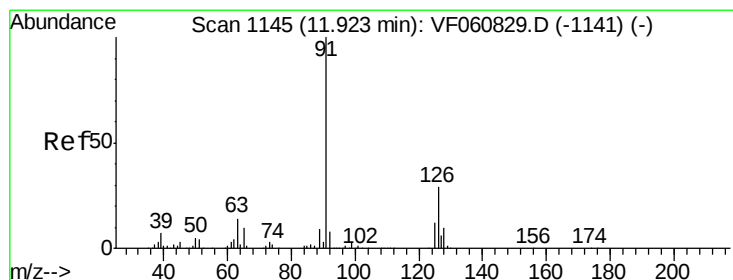
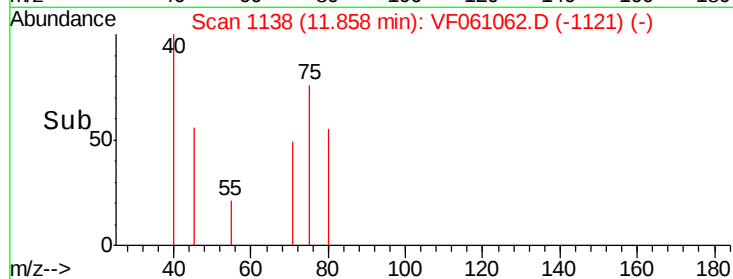
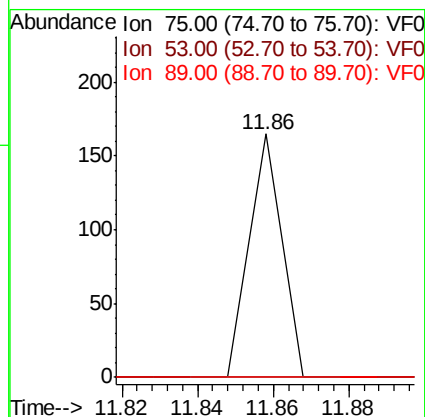
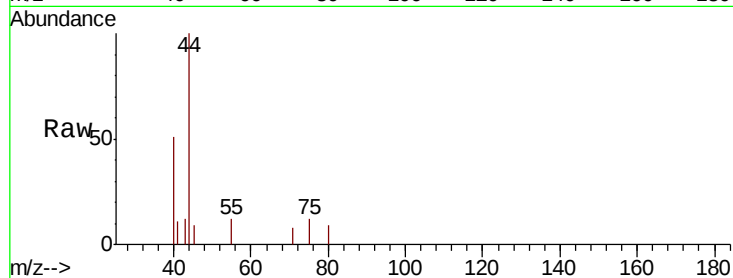
Tot Ion: 75 Resp: 98

Ion Ratio Lower Upper

75 100

53 0.0 65.9 98.9#

89 0.0 38.8 58.2#



#82

4-Chlorotoluene

Concen: 1.015 ug/l

RT: 12.06 min Scan# 1158

Delta R.T. 0.13 min

Lab File: VF061062.D

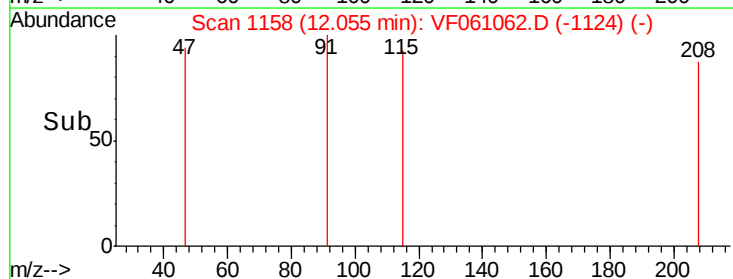
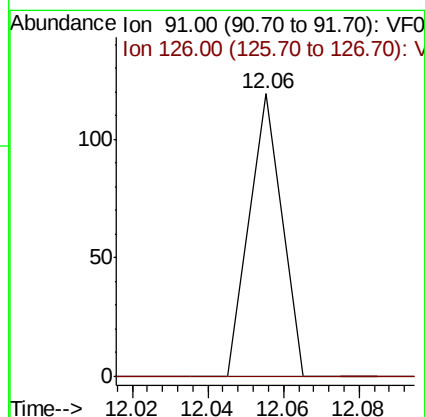
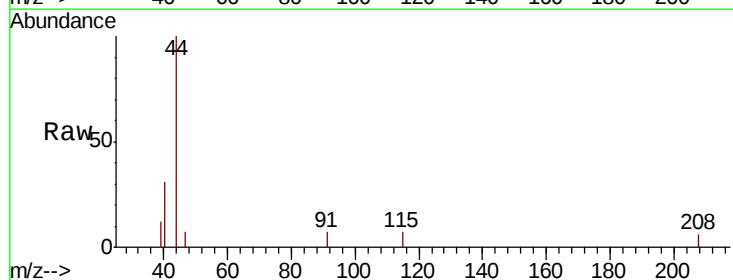
Acq: 18 Dec 2018 14:58

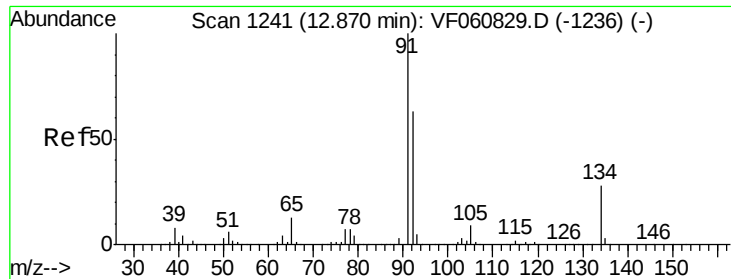
Tgt Ion: 91 Resp: 70

Ion Ratio Lower Upper

91 100

126 0.0 14.8 44.4#





#89

n-Butylbenzene

Concen: 1.900 ug/l

RT: 12.84 min Scan# 1238

Delta R.T. -0.03 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

Instrument :

MSVOA_F

ClientSampleId :

VB16202RE

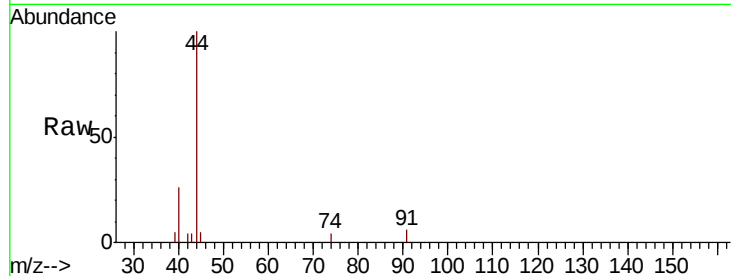
Tot Ion: 91 Resp: 178

Ion Ratio Lower Upper

91 100

92 0.0 31.6 94.7#

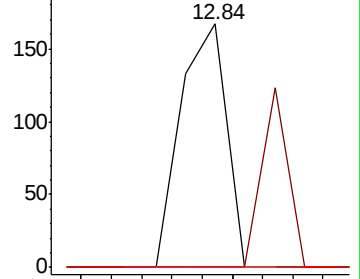
134 0.0 13.8 41.4#



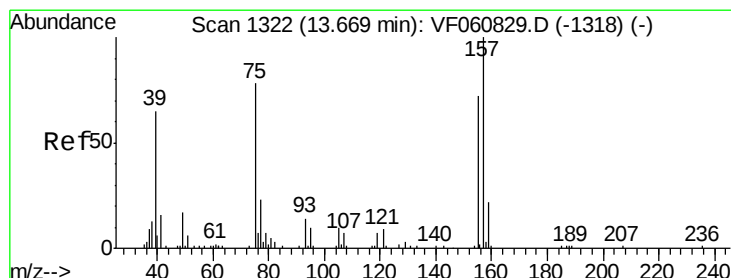
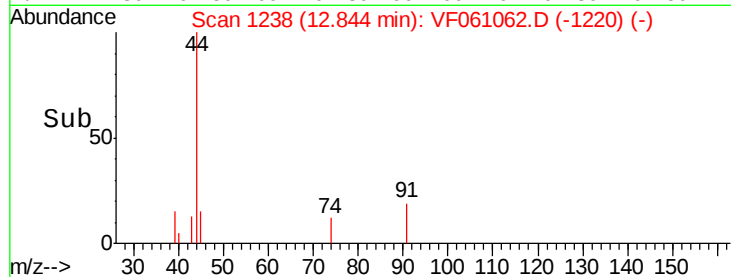
Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 24.795 ug/l

RT: 13.63 min Scan# 1318

Delta R.T. -0.04 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

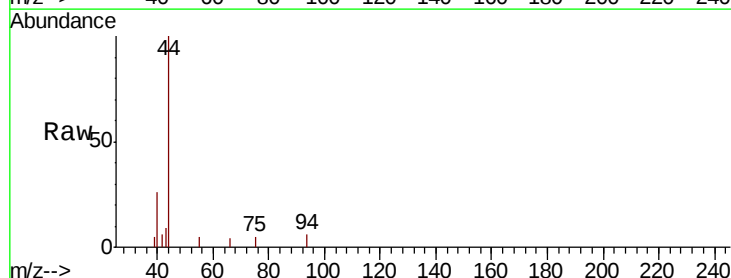
Tgt Ion: 75 Resp: 77

Ion Ratio Lower Upper

75 100

155 0.0 45.6 136.9#

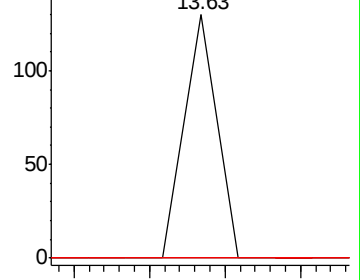
157 0.0 63.8 191.5#



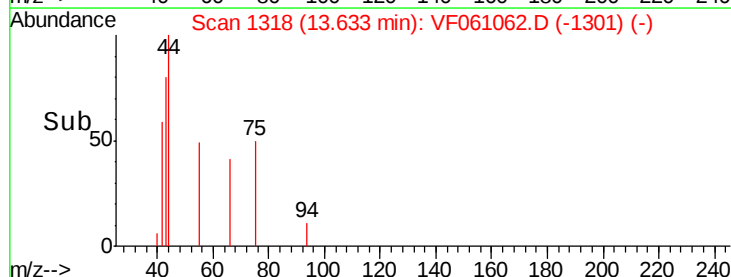
Abundance Ion 75.00 (74.70 to 75.70): VF0

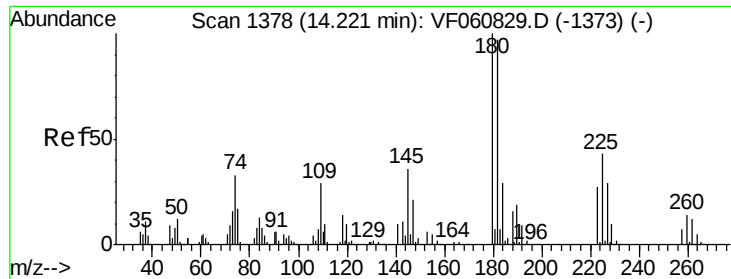
Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



Time-->





#93

1,2,4-Trichlorobenzene

Concen: 2.971 ug/l

RT: 14.17 min Scan# 1372

Delta R.T. -0.06 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

Instrument :

MSVOA_F

ClientSampleId :

VB16202RE

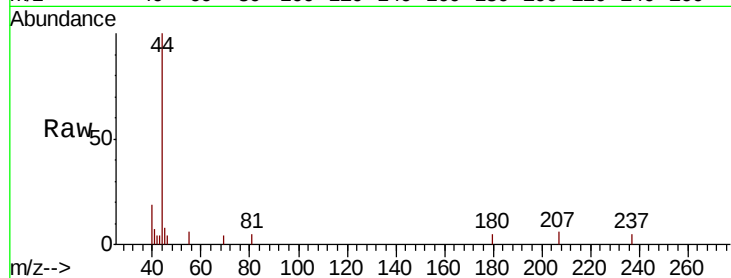
Tot Ion:180 Resp: 80

Ion Ratio Lower Upper

180 100

182 0.0 48.5 145.5#

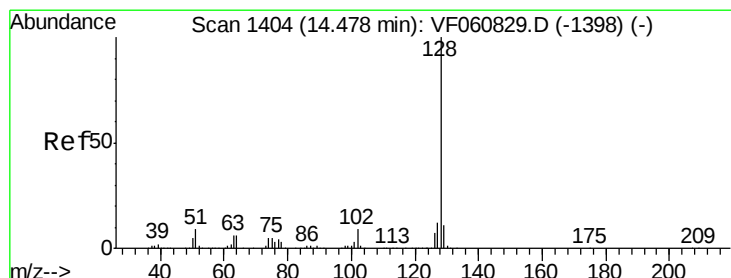
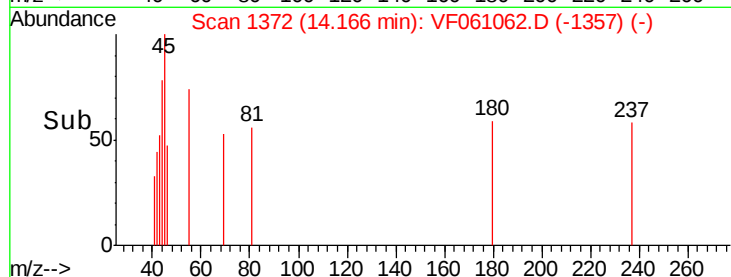
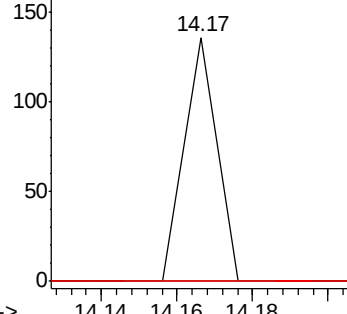
145 0.0 18.1 54.3#



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



#95

Naphthalene

Concen: 13.456 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. -0.01 min

Lab File: VF061062.D

Acq: 18 Dec 2018 14:58

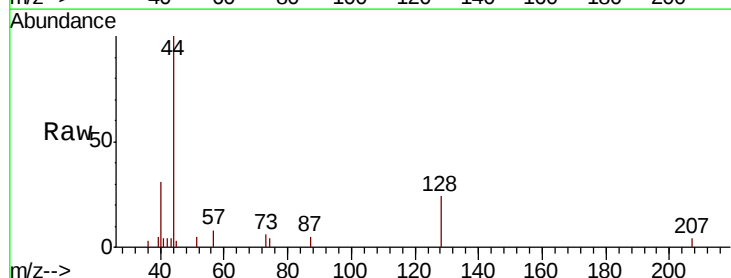
Tgt Ion:128 Resp: 837

Ion Ratio Lower Upper

128 100

127 0.0 9.9 14.9#

129 0.0 9.1 13.7#



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

