

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120718\
 Data File : VF060943.D
 Acq On : 7 Dec 2018 21:58
 Operator : VA/AP
 Sample : J6214-31
 Misc : 6.14g/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-2(15-17)

Quant Time: Dec 08 01:58:42 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	4.85	168	4764	50.00	ug/l	-0.06
34) 1,4-Difluorobenzene	5.58	114	5357	50.00	ug/l	-0.06
63) Chlorobenzene-d5	9.76	117	3662	50.00	ug/l	-0.05
72) 1,4-Dichlorobenzene-d4	12.54	152	1092	50.00	ug/l	-0.04

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.82	65	869	15.48	ug/l	-0.06
Spiked Amount	50.000		Recovery	=	30.96%	
35) Dibromofluoromethane	4.09	113	1265	29.77	ug/l	-0.06
Spiked Amount	50.000		Recovery	=	59.54%	
50) Toluene-d8	7.53	98	4161	33.24	ug/l	-0.06
Spiked Amount	50.000		Recovery	=	66.48%	
62) 4-Bromofluorobenzene	11.40	95	1025	18.02	ug/l	-0.04
Spiked Amount	50.000		Recovery	=	36.04%	

Target Compounds						Qvalue
3) Chloromethane	1.08	50	139	2.999	ug/l #	41
4) Vinyl Chloride	1.26	62	177	4.094	ug/l #	42
5) Bromomethane	1.34	94	336	11.021	ug/l #	2
6) Chloroethane	1.37	64	137	7.330	ug/l #	40
8) Diethyl Ether	1.59	74	60	4.498	ug/l	52
9) 1,1,2-Trichlorotrifluoroet	1.77	101	75	1.599	ug/l #	20
11) Tert butyl alcohol	2.60	59	146	63.463	ug/l #	1
12) 1,1-Dichloroethene	1.77	96	234	6.203	ug/l #	1
13) Acrolein	2.02	56	324	148.644	ug/l	86
14) Allyl chloride	2.11	41	1528	32.499	ug/l #	46
15) Acrylonitrile	2.91	53	153	29.665	ug/l #	11
16) Acetone	2.22	43	309	29.858	ug/l #	65
18) Methyl Acetate	2.30	43	276	14.732	ug/l #	61
20) Methylene Chloride	2.17	84	273	7.191	ug/l #	44
21) trans-1,2-Dichloroethene	2.31	96	72	1.980	ug/l #	1
22) Diisopropyl ether	2.81	45	357	2.790	ug/l #	40
23) Vinyl Acetate	3.21	43	733	12.530	ug/l #	80
24) 1,1-Dichloroethane	2.87	63	95	1.248	ug/l #	86
25) 2-Butanone	4.40	43	539	30.111	ug/l #	57
26) 2,2-Dichloropropane	3.57	77	161	3.261	ug/l #	60
27) cis-1,2-Dichloroethene	3.49	96	78	1.317	ug/l	1
29) Tetrahydrofuran	4.06	42	63	8.303	ug/l #	37
31) Cyclohexane	3.73	56	137	1.734	ug/l #	15
37) Ethyl Acetate	4.12	43	221	9.153	ug/l #	14
39) Methylcyclohexane	5.57	83	65	1.044	ug/l #	13
41) Methacrylonitrile	4.74	41	261	18.428	ug/l #	23
43) Isopropyl Acetate	6.90	43	191	3.904	ug/l #	49
48) Methyl methacrylate	6.66	41	265	12.125	ug/l #	18
51) 4-Methyl-2-Pentanone	8.18	43	928	41.677	ug/l #	38
53) t-1,3-Dichloropropene	8.19	75	83	1.661	ug/l #	40
54) cis-1,3-Dichloropropene	7.19	75	65	1.051	ug/l #	44
55) 1,1,2-Trichloroethane	8.54	97	70	2.605	ug/l #	15
56) Ethyl methacrylate	8.43	69	107	3.585	ug/l #	31
59) 2-Hexanone	9.43	43	302	19.333	ug/l #	27

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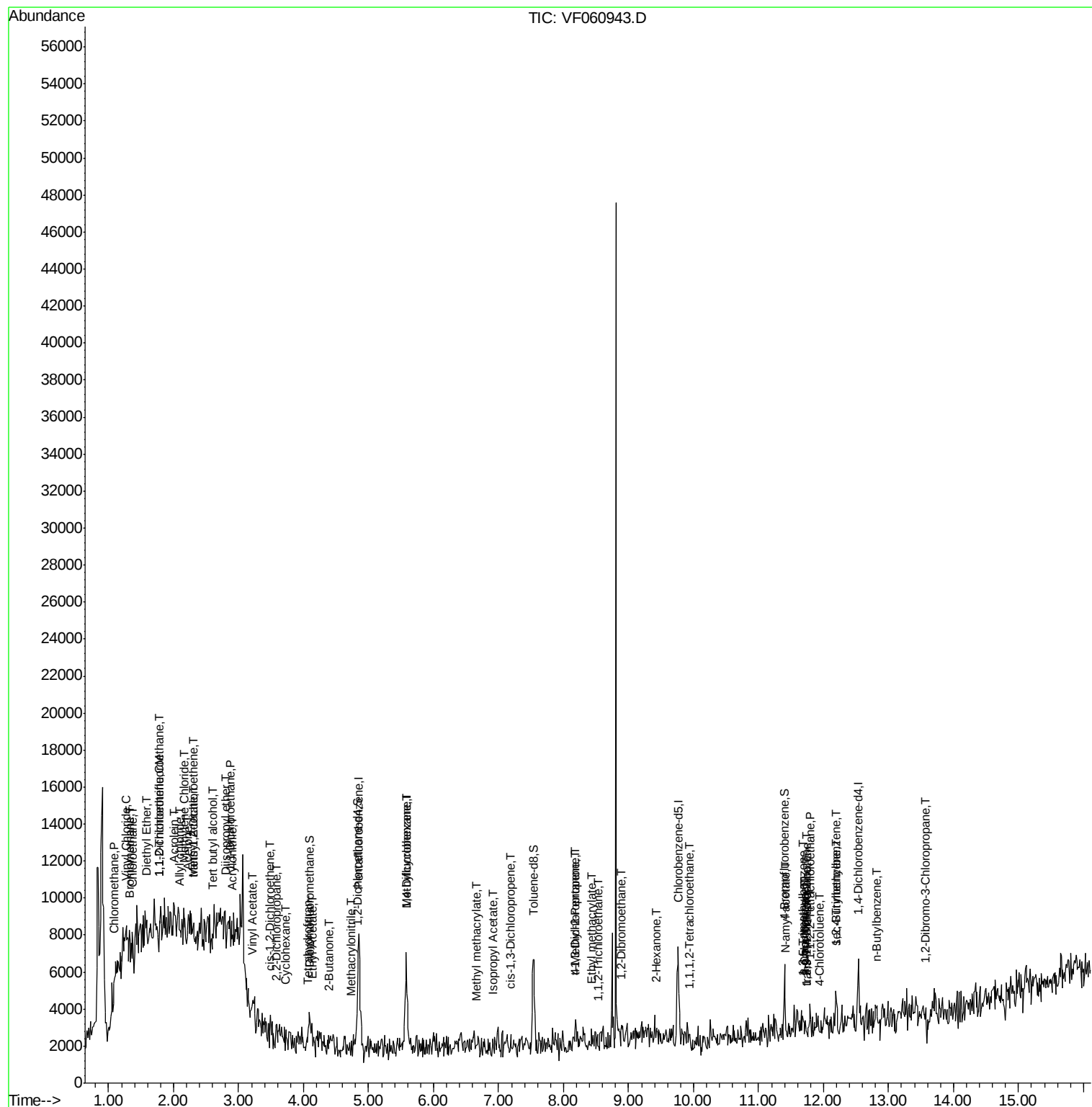
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) 1,2-Dibromoethane	8.89	107	60	2.067	ug/l #	4
66) 1,1,1,2-Tetrachloroethane	9.94	131	65	2.122	ug/l #	10
74) N-amyl acetate	11.42	43	304	15.256	ug/l #	43
75) 1,1,2,2-Tetrachloroethane	11.81	83	60	4.225	ug/l #	25
76) 1,2,3-Trichloropropane	11.75	75	102	9.881	ug/l #	38
78) n-propylbenzene	11.71	91	150	1.484	ug/l #	56
79) 2-Chlorotoluene	11.71	91	150	2.589	ug/l #	43
80) 1,3,5-Trimethylbenzene	11.70	105	423	6.038	ug/l #	26
81) trans-1,4-Dichloro-2-buten	11.75	75	102	20.166	ug/l #	16
82) 4-Chlorotoluene	11.94	91	62	1.017	ug/l #	45
84) 1,2,4-Trimethylbenzene	12.19	105	830	11.871	ug/l #	79
85) sec-Butylbenzene	12.19	105	830	8.496	ug/l #	58
89) n-Butylbenzene	12.82	91	104	1.256	ug/l #	27
92) 1,2-Dibromo-3-Chloropropan	13.57	75	68	24.764	ug/l #	1

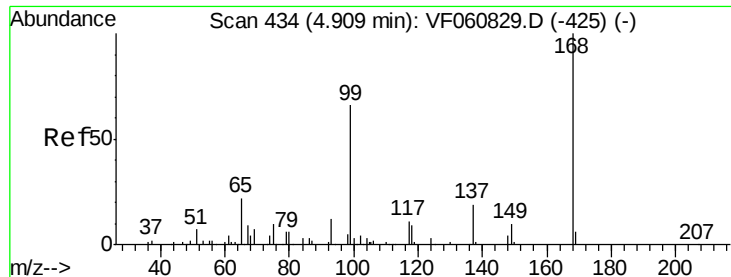
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.06 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

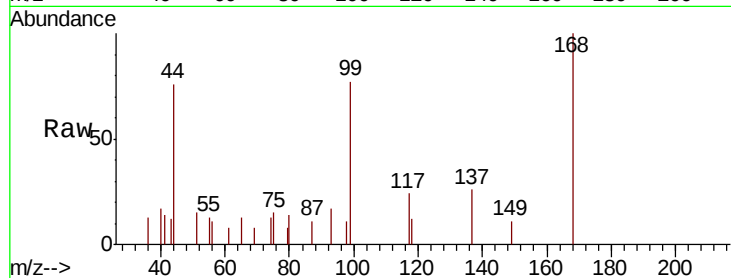
SB-2(15-17)

Tot Ion:168 Resp: 4764

Ion Ratio Lower Upper

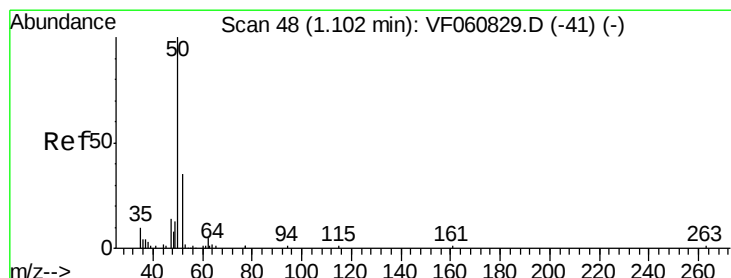
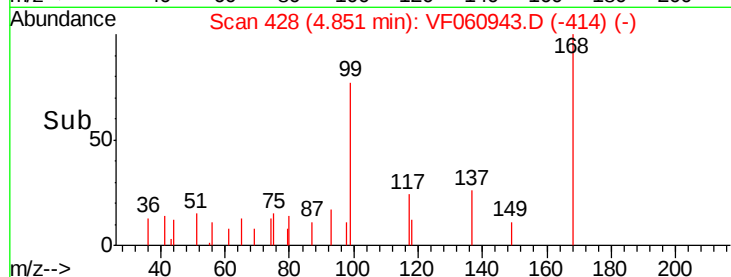
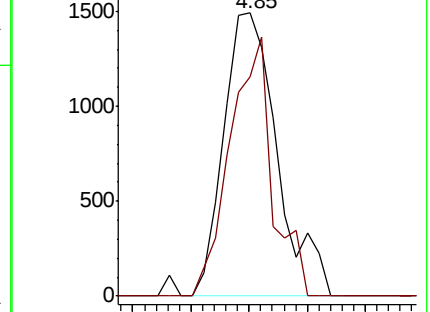
168 100

99 77.4 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#3

Chloromethane

Concen: 2.999 ug/l

RT: 1.08 min Scan# 46

Delta R.T. -0.02 min

Lab File: VF060943.D

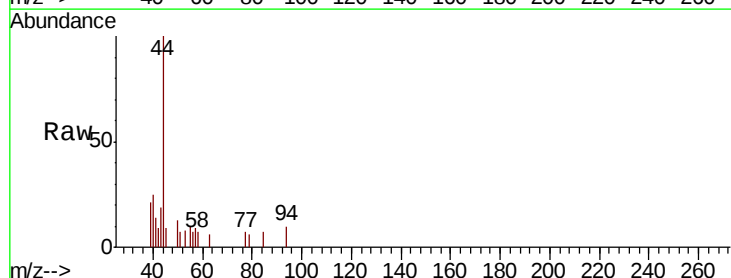
Acq: 7 Dec 2018 21:58

Tgt Ion: 50 Resp: 139

Ion Ratio Lower Upper

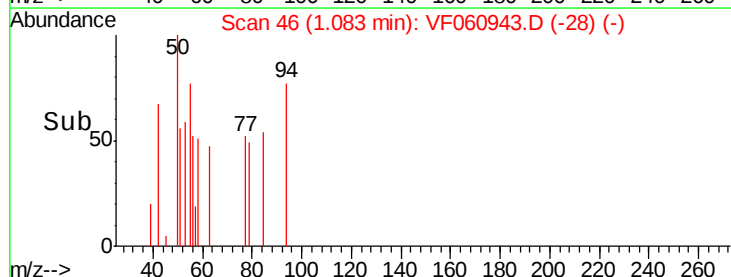
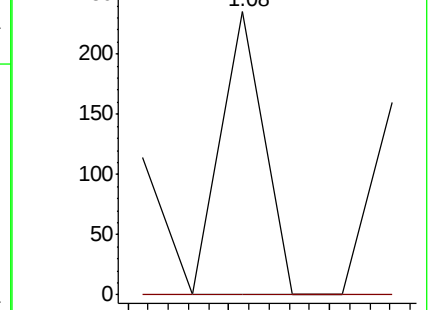
50 100

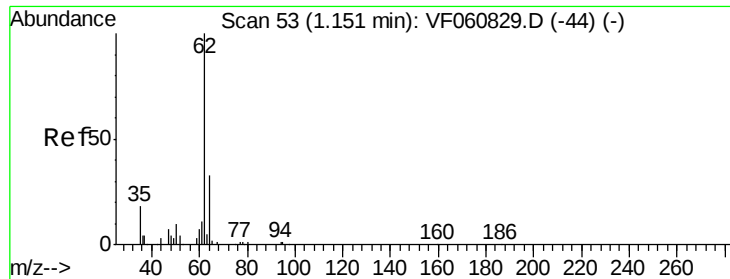
52 0.0 27.0 40.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0





#4

Vinyl Chloride

Concen: 4.094 ug/l

RT: 1.26 min Scan# 64

Delta R.T. 0.11 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

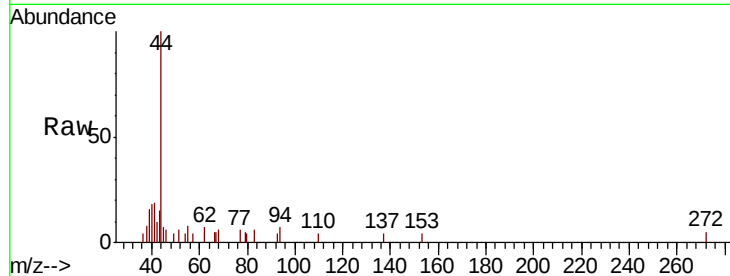
SB-2(15-17)

Tot Ion: 62 Resp: 177

Ion Ratio Lower Upper

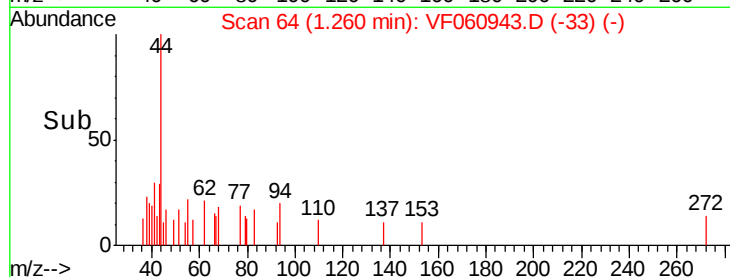
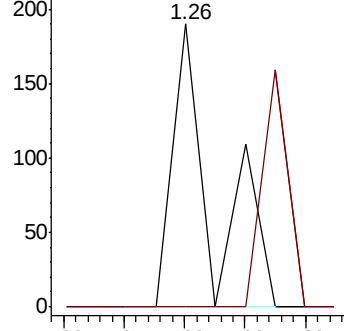
62 100

64 0.0 26.4 39.6#

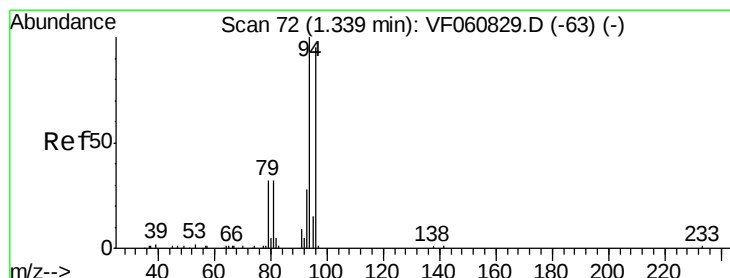


Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0



Time-->



#5

Bromomethane

Concen: 11.021 ug/l

RT: 1.34 min Scan# 72

Delta R.T. 0.00 min

Lab File: VF060943.D

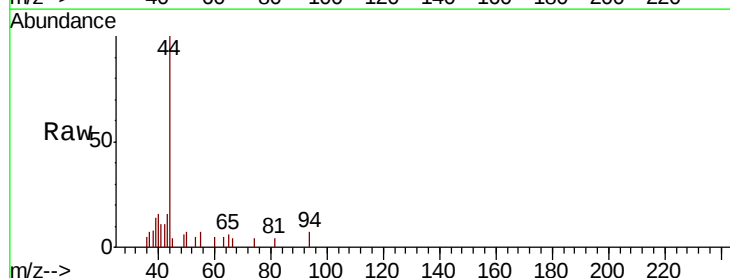
Acq: 7 Dec 2018 21:58

Tgt Ion: 94 Resp: 336

Ion Ratio Lower Upper

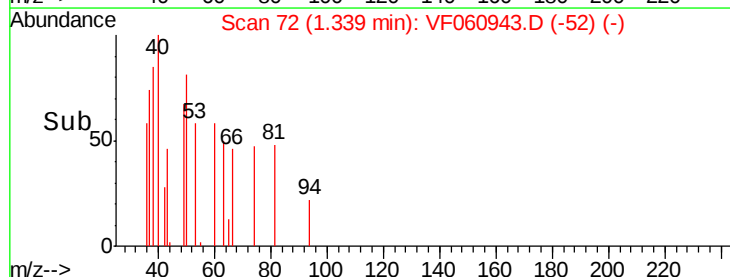
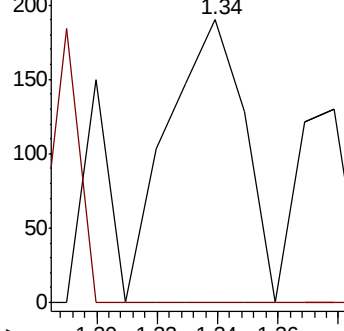
94 100

96 0.0 75.9 113.9#

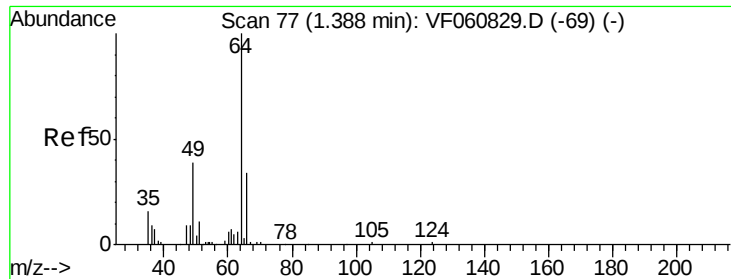


Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



Time-->



#6

Chloroethane

Concen: 7.330 ug/l

RT: 1.37 min Scan# 75

Delta R.T. -0.02 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

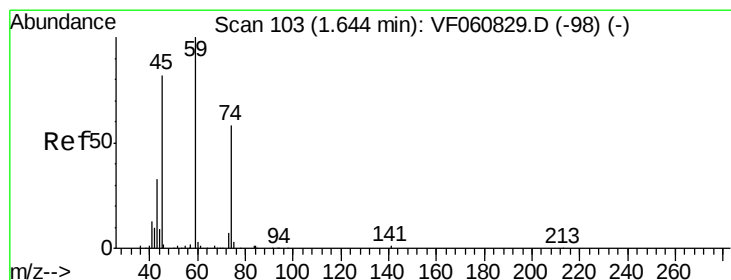
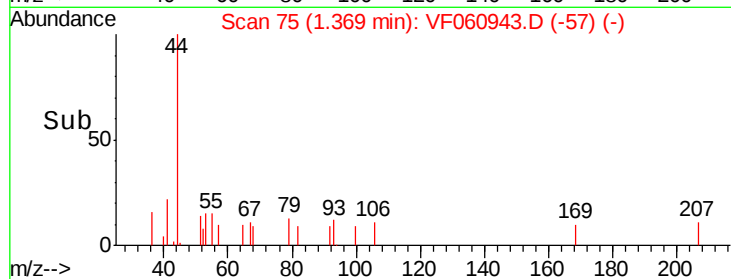
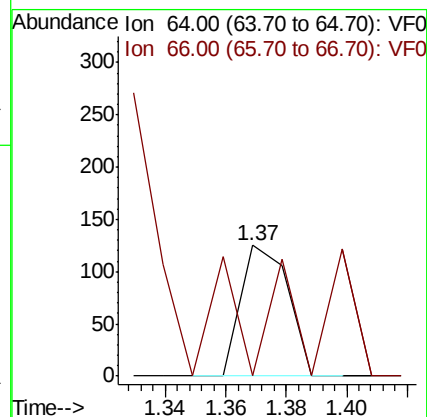
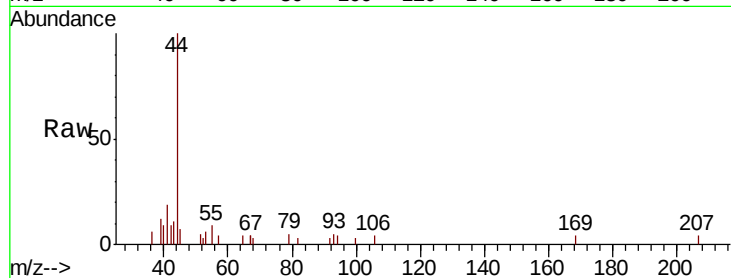
SB-2(15-17)

Tot Ion: 64 Resp: 137

Ion Ratio Lower Upper

64 100

66 0.0 28.1 42.1#



#8

Diethyl Ether

Concen: 4.498 ug/l

RT: 1.59 min Scan# 97

Delta R.T. -0.06 min

Lab File: VF060943.D

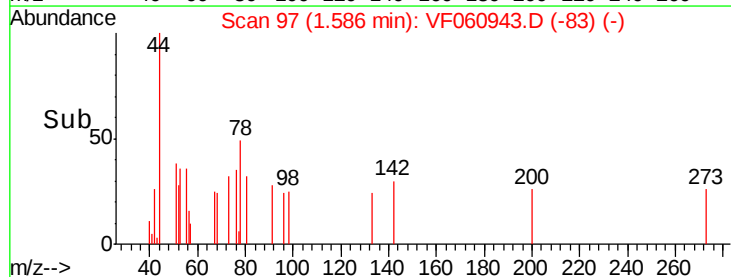
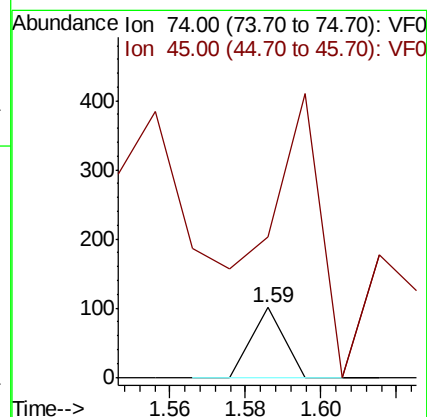
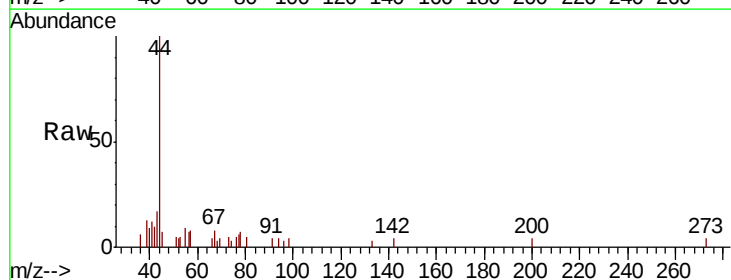
Acq: 7 Dec 2018 21:58

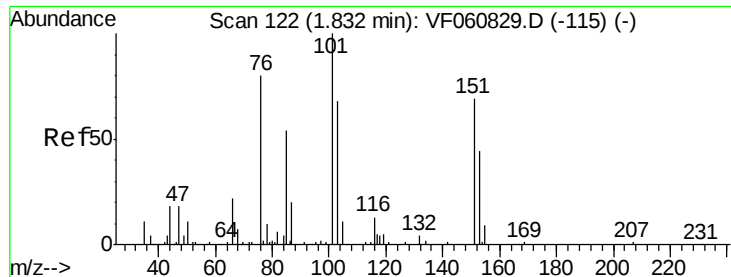
Tgt Ion: 74 Resp: 60

Ion Ratio Lower Upper

74 100

45 201.0 71.0 212.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.599 ug/l

RT: 1.77 min Scan# 116

Delta R.T. -0.06 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

SB-2(15-17)

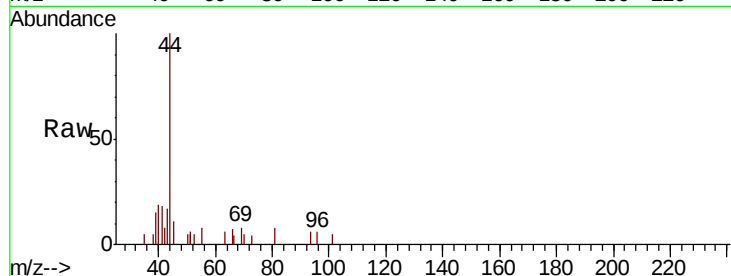
Tot Ion:101 Resp: 75

Ion Ratio Lower Upper

101 100

85 0.0 42.8 64.2#

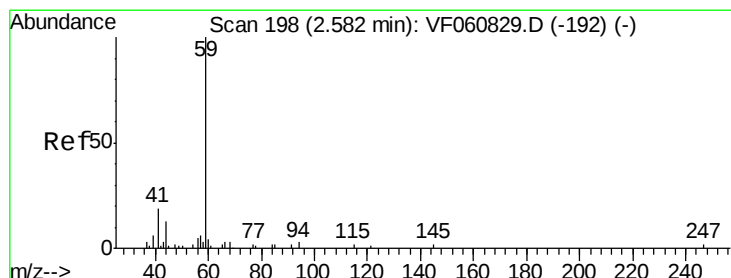
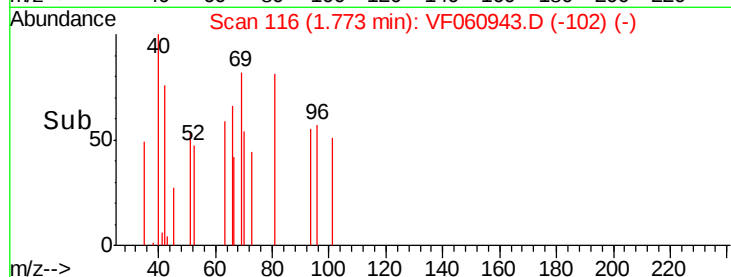
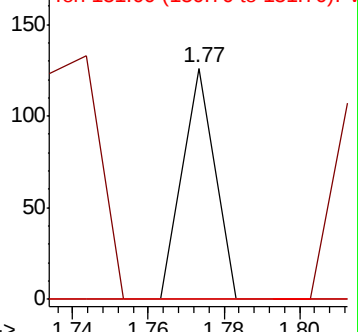
151 0.0 54.4 81.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#11

Tert butyl alcohol

Concen: 63.463 ug/l

RT: 2.60 min Scan# 200

Delta R.T. 0.02 min

Lab File: VF060943.D

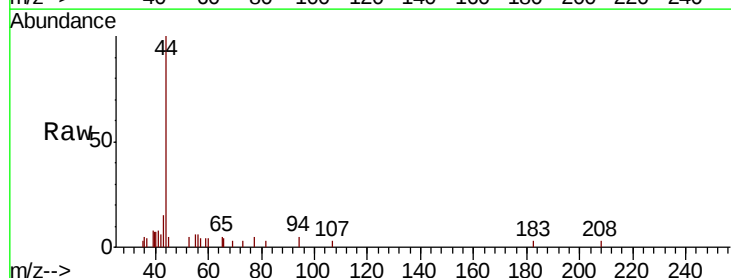
Acq: 7 Dec 2018 21:58

Tgt Ion: 59 Resp: 146

Ion Ratio Lower Upper

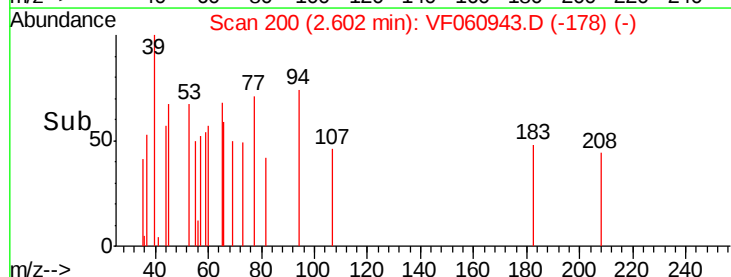
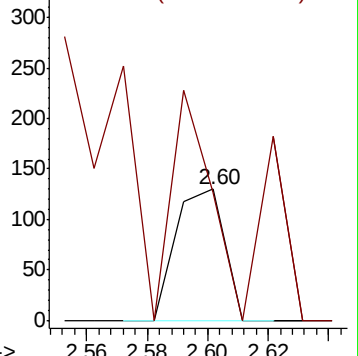
59 100

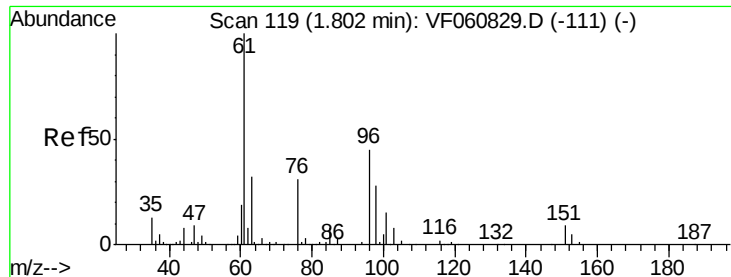
57 96.9 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#12

1,1-Dichloroethene

Concen: 6.203 ug/l

RT: 1.77 min Scan# 116

Delta R.T. -0.03 min

Lab File: VF060943.D

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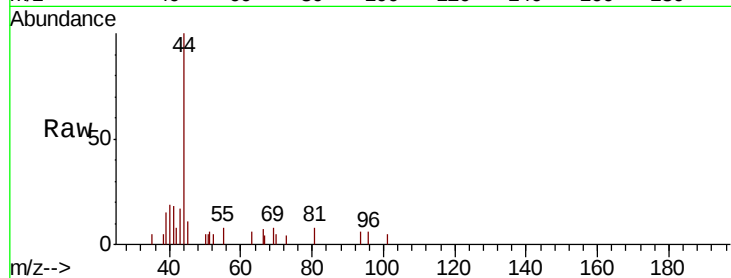
Tot Ion: 96 Resp: 234

Ion Ratio Lower Upper

96 100

61 0.0 177.3 265.9#

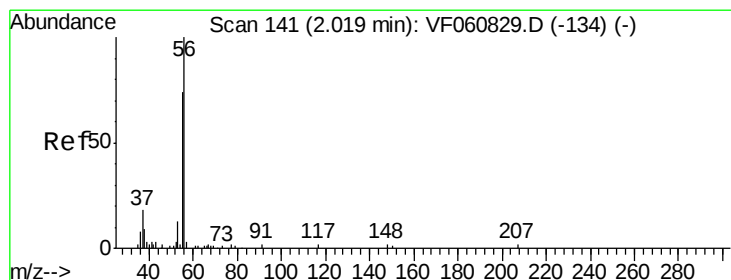
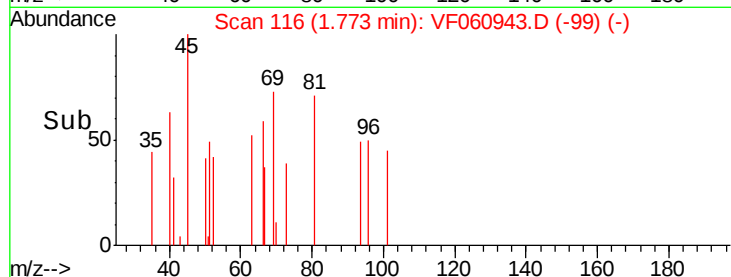
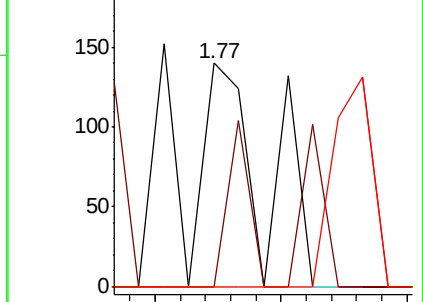
98 0.0 49.6 74.4#



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



#13

Acrolein

Concen: 148.644 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.00 min

Lab File: VF060943.D

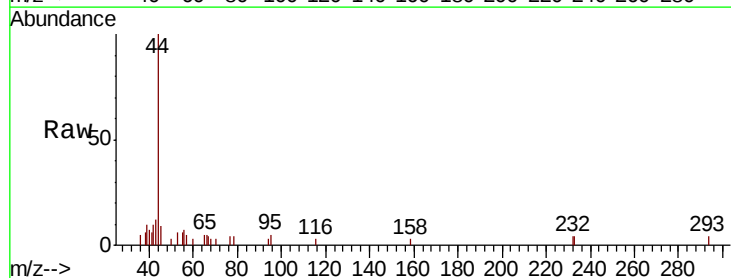
Acq: 7 Dec 2018 21:58

Tgt Ion: 56 Resp: 324

Ion Ratio Lower Upper

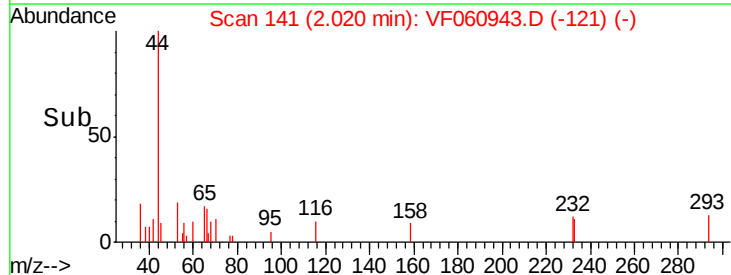
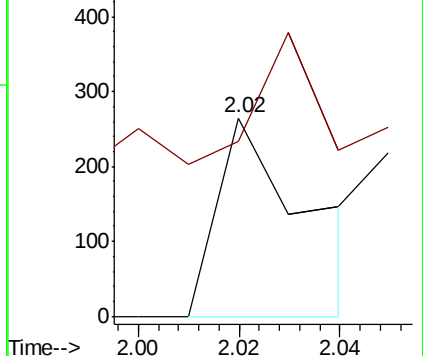
56 100

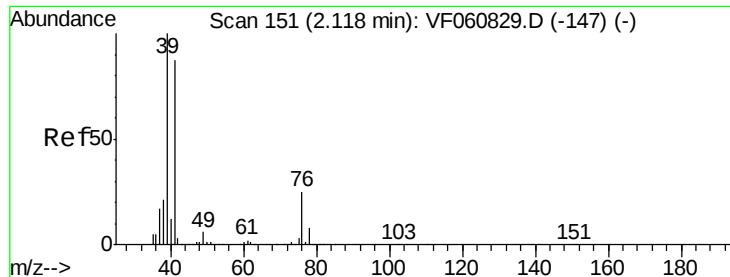
55 88.3 61.2 91.8



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#14

Allvl chloride

Concen: 32.499 ug/l

RT: 2.11 min Scan# 150

Delta R.T. -0.01 min

Lab File: VF060943.D

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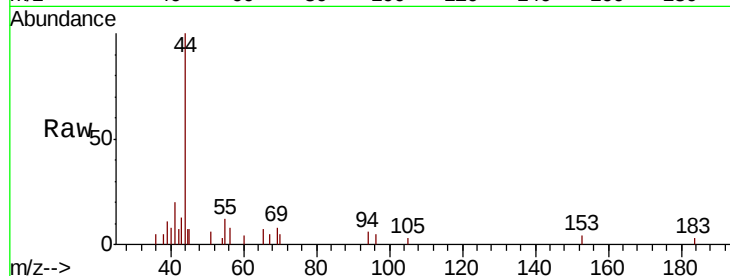
Tot Ion: 41 Resp: 1528

Ion Ratio Lower Upper

41 100

39 56.7 91.7 137.5#

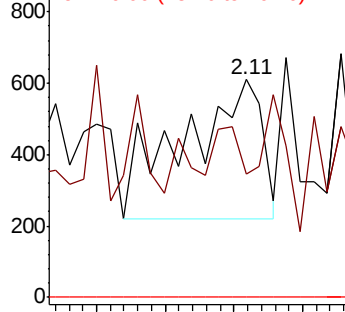
76 0.0 23.5 35.3#



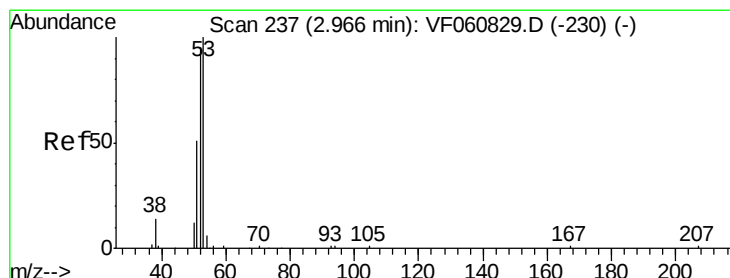
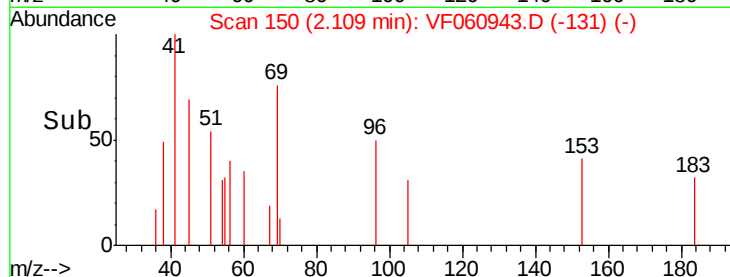
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0



Time-->



#15

Acrylonitrile

Concen: 29.665 ug/l

RT: 2.91 min Scan# 231

Delta R.T. -0.06 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

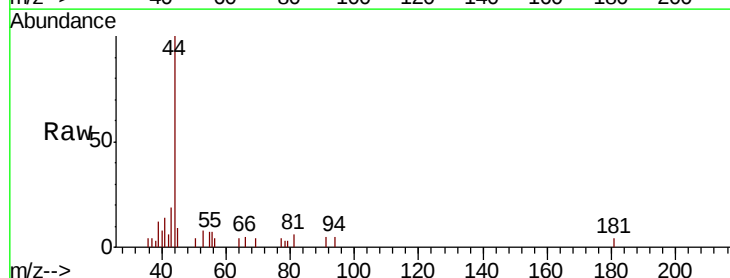
Tgt Ion: 53 Resp: 153

Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

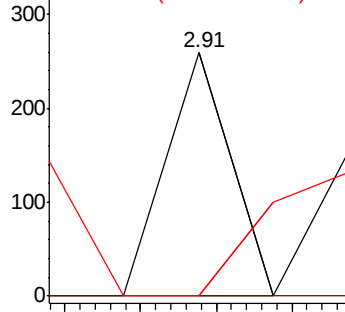
51 0.0 40.7 61.1#



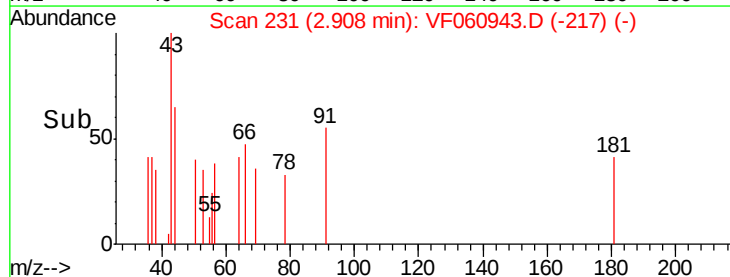
Abundance Ion 53.00 (52.70 to 53.70): VF0

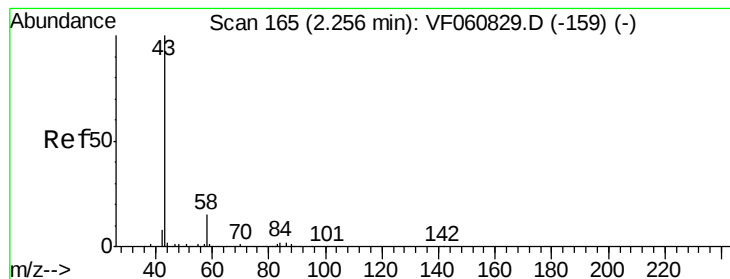
Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



Time-->





#16

Acetone

Concen: 29.858 ug/l

RT: 2.22 min Scan# 161

Delta R.T. -0.04 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

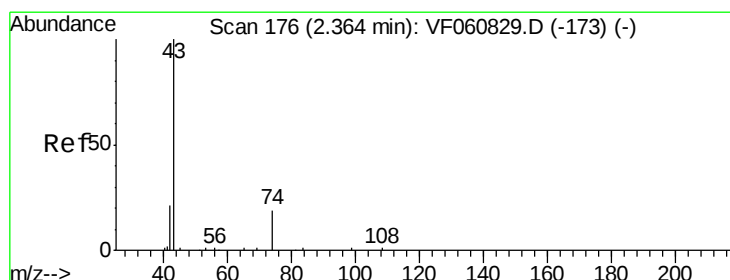
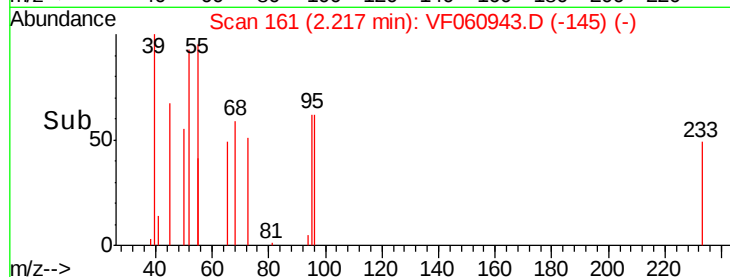
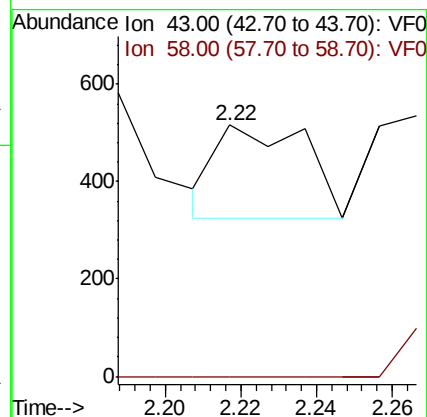
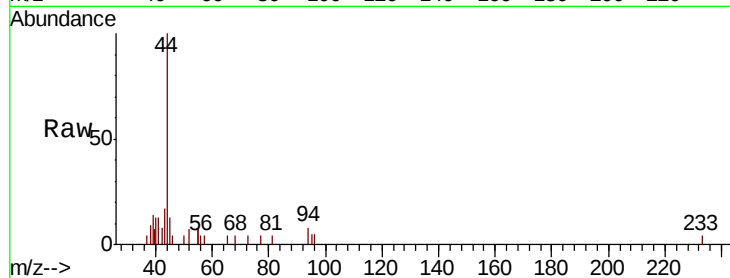
SB-2(15-17)

Tot Ion: 43 Resp: 309

Ion Ratio Lower Upper

43 100

58 0.0 11.4 17.2#



#18

Methyl Acetate

Concen: 14.732 ug/l

RT: 2.30 min Scan# 169

Delta R.T. -0.07 min

Lab File: VF060943.D

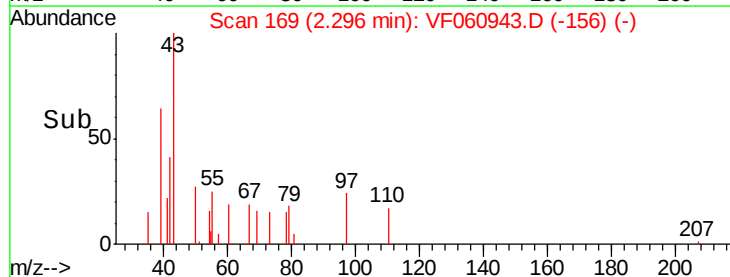
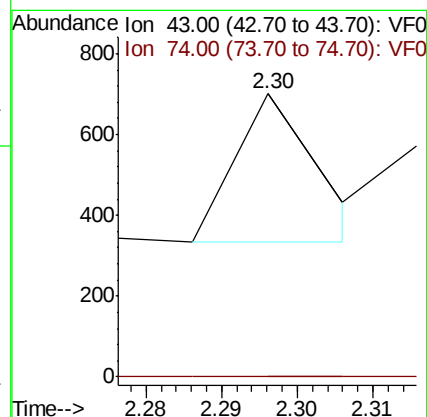
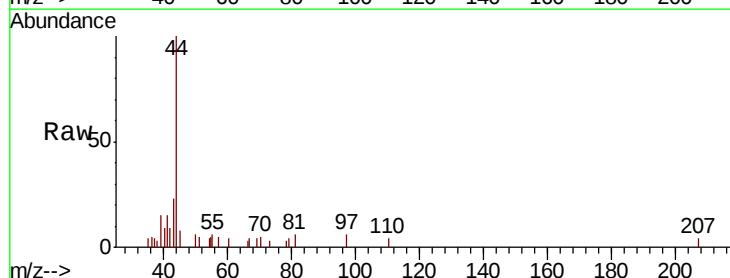
Acq: 7 Dec 2018 21:58

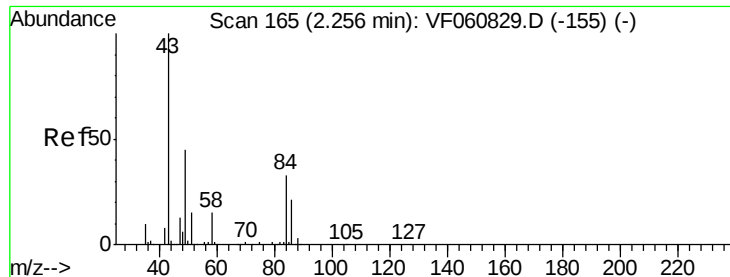
Tgt Ion: 43 Resp: 276

Ion Ratio Lower Upper

43 100

74 0.0 13.3 19.9#





#20

Methylene Chloride

Concen: 7.191 ug/l

RT: 2.17 min Scan# 156

Delta R.T. -0.09 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

SB-2(15-17)

Tot Ion: 84 Resp: 273

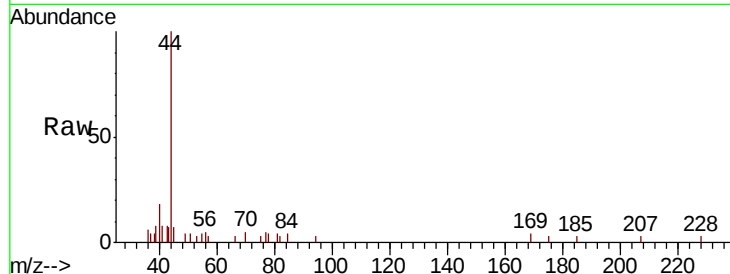
Ion Ratio Lower Upper

84 100

49 100.0 111.3 166.9#

51 111.2 38.0 57.0#

86 0.0 49.8 74.8#

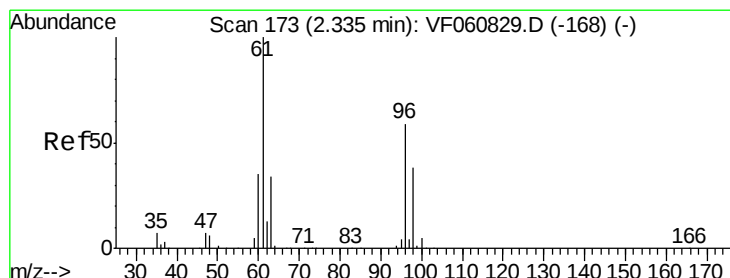
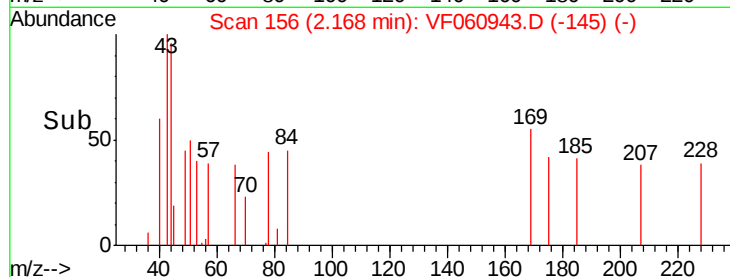
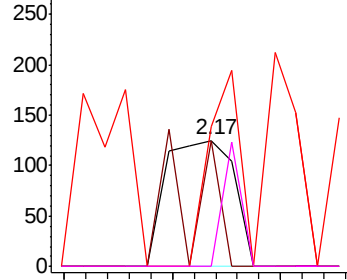


Abundance Ion 84.00 (83.70 to 84.70): VF0

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: 1.980 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.03 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

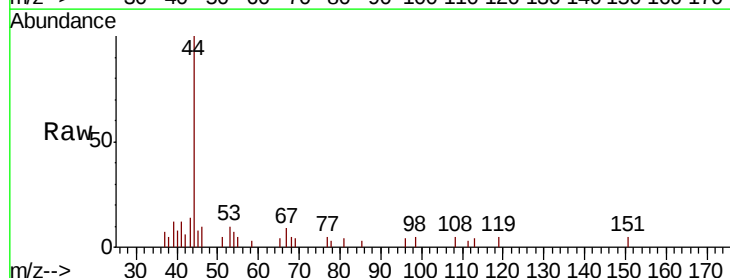
Tgt Ion: 96 Resp: 72

Ion Ratio Lower Upper

96 100

61 0.0 134.5 201.7#

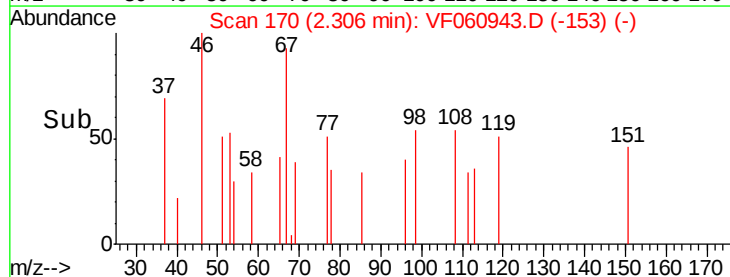
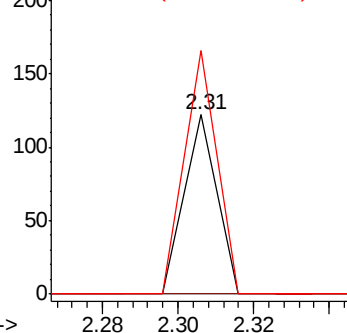
98 136.1 51.6 77.4#

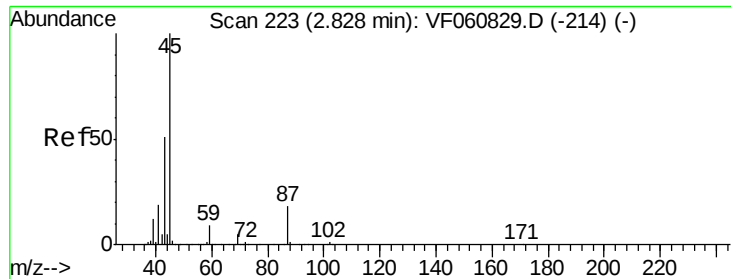


Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

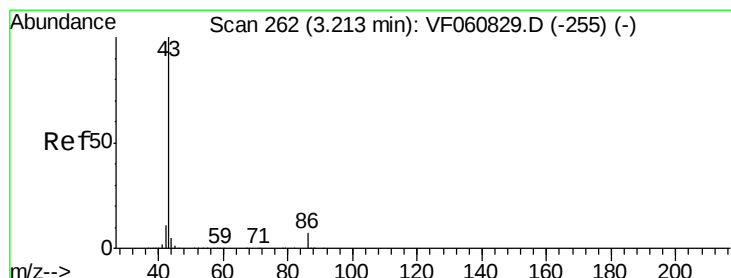
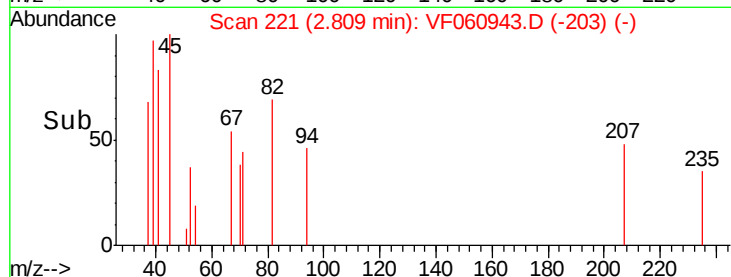
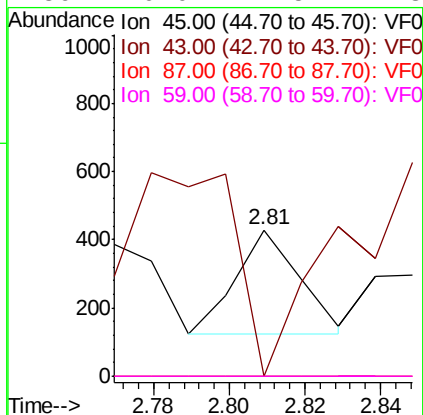
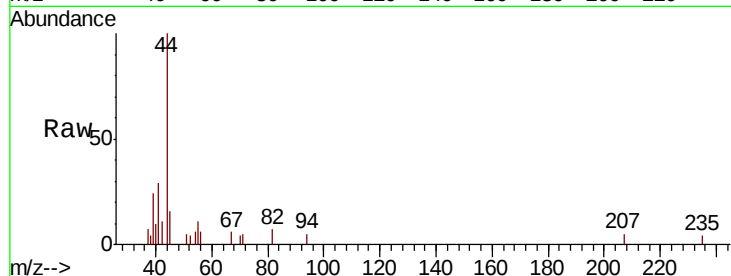




#22
Diisopropyl ether
Concen: 2.790 ug/l
RT: 2.81 min Scan# 221
Delta R.T. -0.02 min
Lab File: VF060943.D
Acq: 7 Dec 2018 21:58

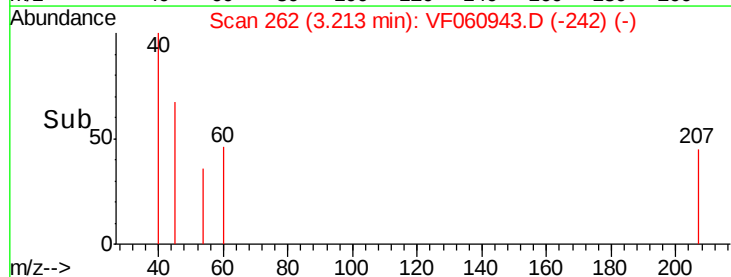
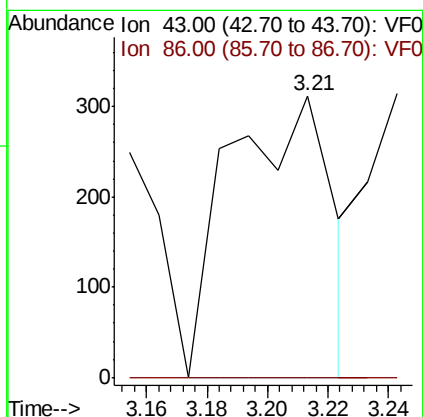
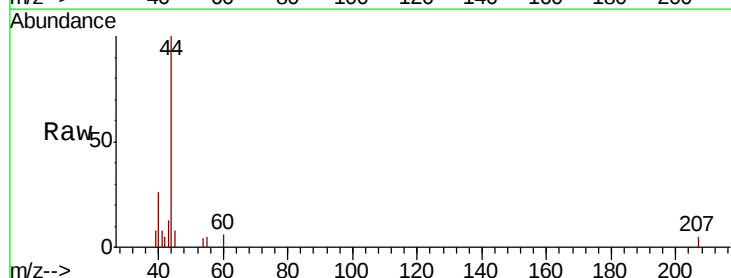
Instrument :
MSVOA_F
ClientSampled :
SB-2(15-17)

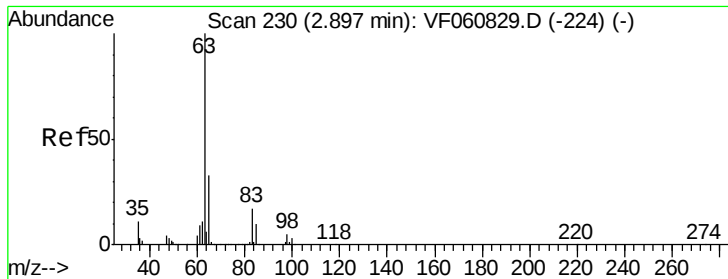
Tot Ion:	45	Resp:	357
Ion	Ratio	Lower	Upper
45	100		
43	0.0	41.0	61.6#
87	0.0	14.6	22.0#
59	0.0	7.5	11.3#



#23
Vinyl Acetate
Concen: 12.530 ug/l
RT: 3.21 min Scan# 262
Delta R.T. 0.00 min
Lab File: VF060943.D
Acq: 7 Dec 2018 21:58

Tgt Ion:	43	Resp:	733
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.4	8.0#





#24

1,1-Dichloroethane

Concen: 1.248 ug/l

RT: 2.87 min Scan# 227

Delta R.T. -0.03 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

SB-2(15-17)

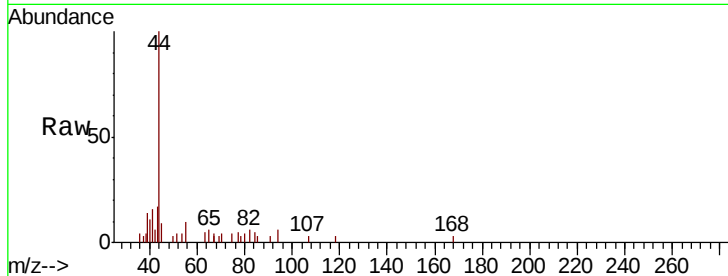
Tot Ion: 63 Resp: 95

Ion Ratio Lower Upper

63 100

98 0.0 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

2.87

150

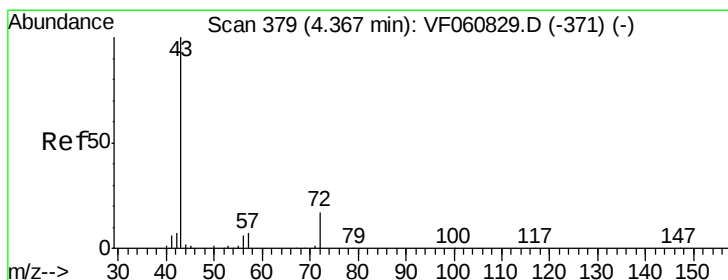
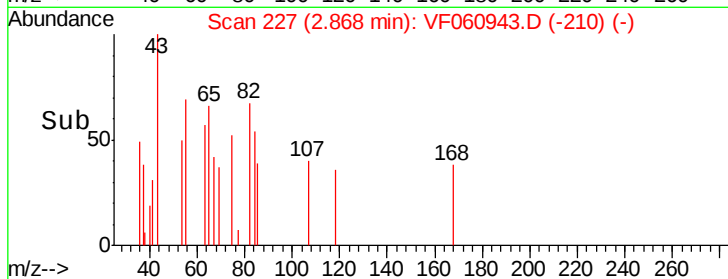
100

50

0

2.86 2.88

Time-->



#25

2-Butanone

Concen: 30.111 ug/l

RT: 4.40 min Scan# 382

Delta R.T. 0.03 min

Lab File: VF060943.D

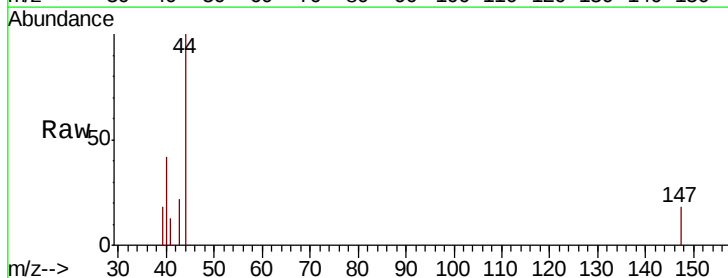
Acq: 7 Dec 2018 21:58

Tgt Ion: 43 Resp: 539

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

250

200

150

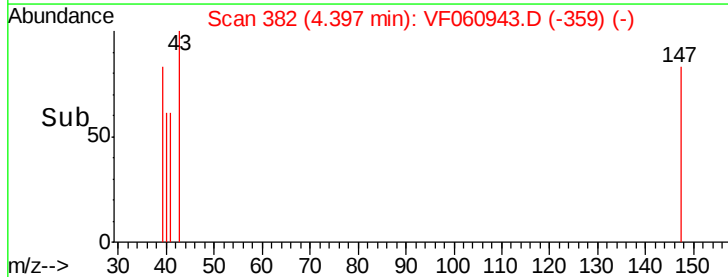
100

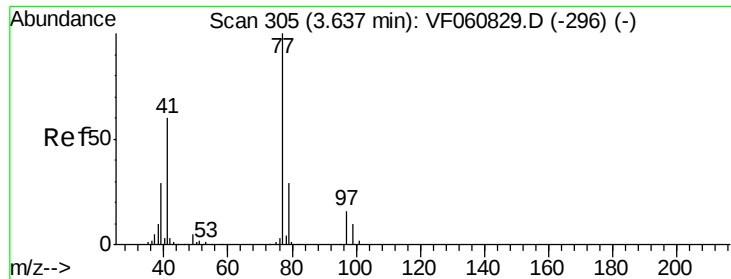
50

0

4.35 4.40 4.45

Time-->





#26

2,2-Dichloropropane

Concen: 3.261 ug/l

RT: 3.57 min Scan# 298

Delta R.T. -0.07 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

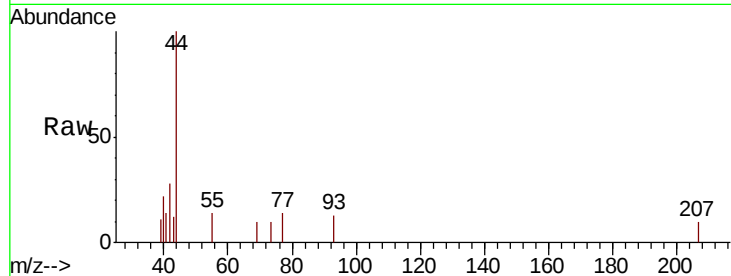
SB-2(15-17)

Tot Ion: 77 Resp: 161

Ion Ratio Lower Upper

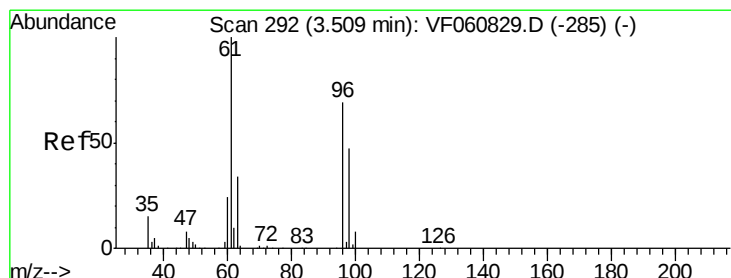
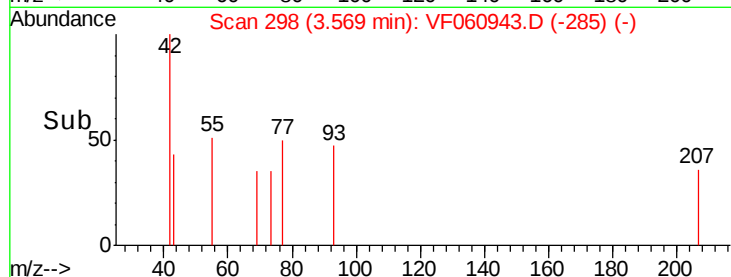
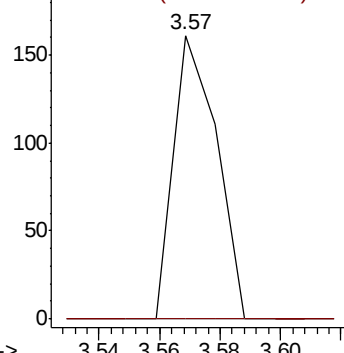
77 100

97 0.0 8.6 25.8#



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: 1.317 ug/l

RT: 3.49 min Scan# 290

Delta R.T. -0.02 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

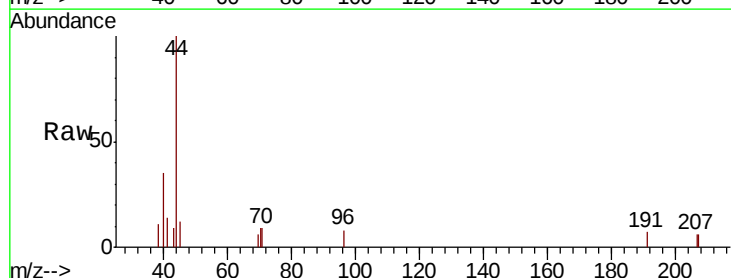
Tgt Ion: 96 Resp: 78

Ion Ratio Lower Upper

96 100

61 0.0 0.0 290.6

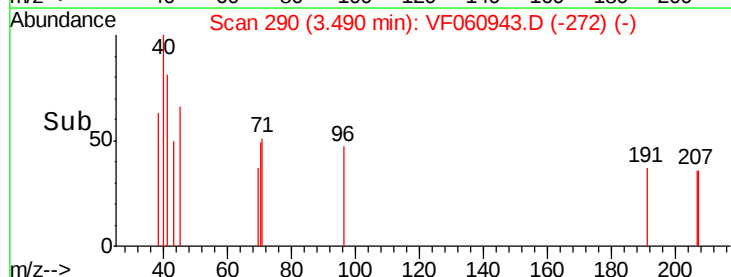
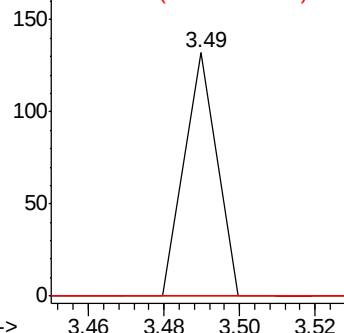
98 0.0 0.0 137.8

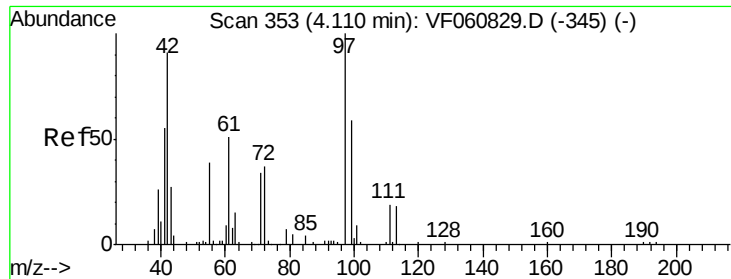


Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

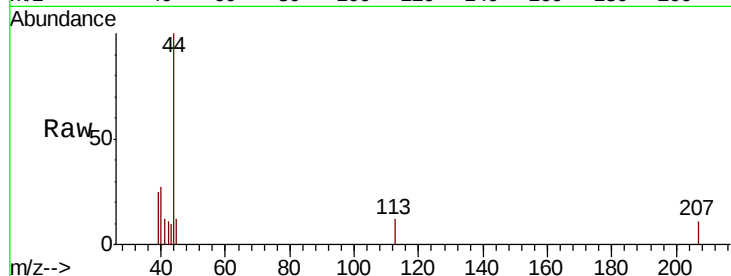




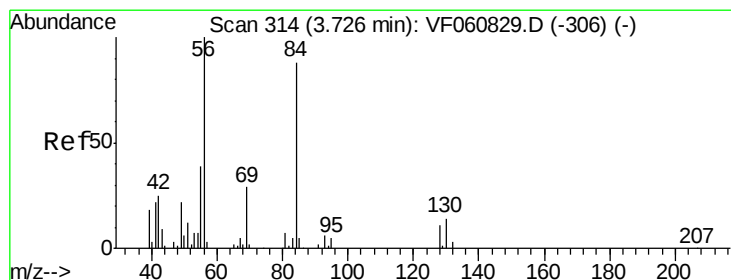
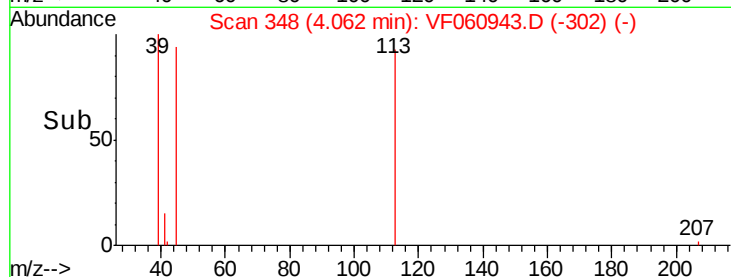
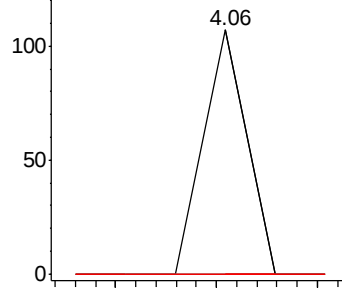
#29
Tetrahydrofuran
Concen: 8.303 ug/l
RT: 4.06 min Scan# 348
Delta R.T. -0.05 min
Lab File: VF060943.D
Acq: 7 Dec 2018 21:58

Instrument :
MSVOA_F
ClientSampled :
SB-2(15-17)

Tot Ion: 42 Resp: 63
Ion Ratio Lower Upper
42 100
72 0.0 31.9 47.9#
71 0.0 28.7 43.1#

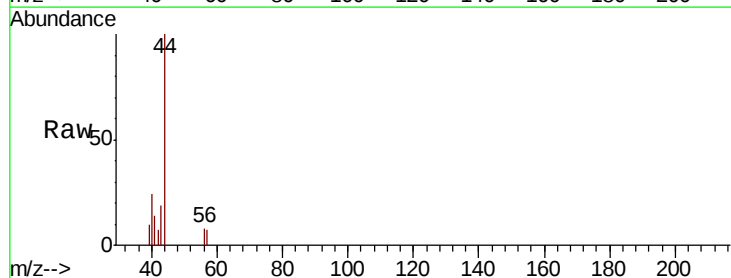


Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0

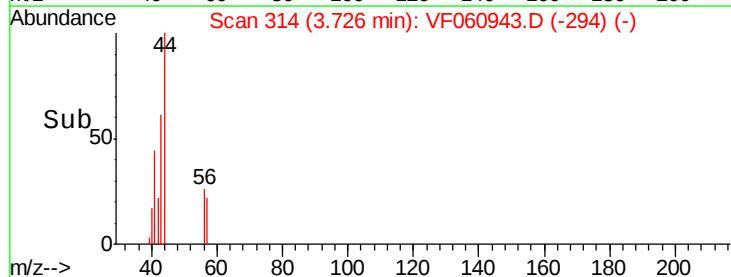
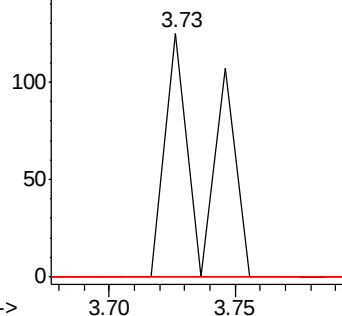


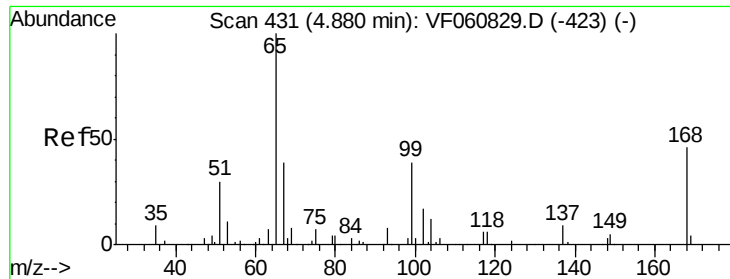
#31
Cyclohexane
Concen: 1.734 ug/l
RT: 3.73 min Scan# 314
Delta R.T. 0.00 min
Lab File: VF060943.D
Acq: 7 Dec 2018 21:58

Tgt Ion: 56 Resp: 137
Ion Ratio Lower Upper
56 100
69 0.0 23.0 34.4#
84 0.0 70.4 105.6#



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

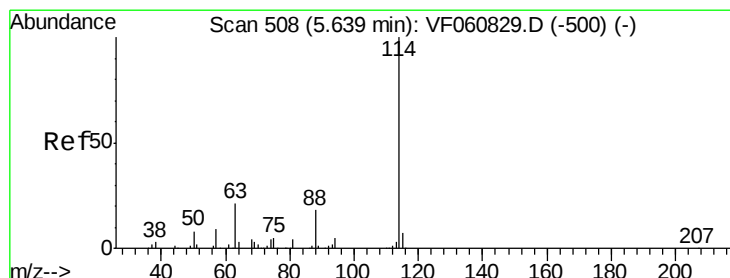
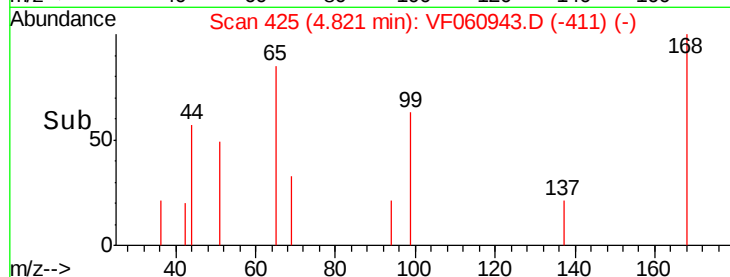
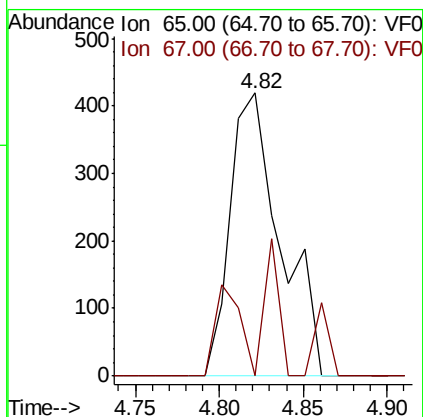
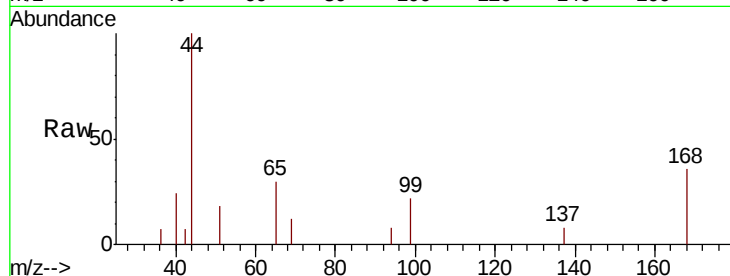




#33
 1,2-Dichloroethane-d4
 Concen: 15.484 ug/l
 RT: 4.82 min Scan# 425
 Delta R.T. -0.06 min
 Lab File: VF060943.D
 Acq: 7 Dec 2018 21:58

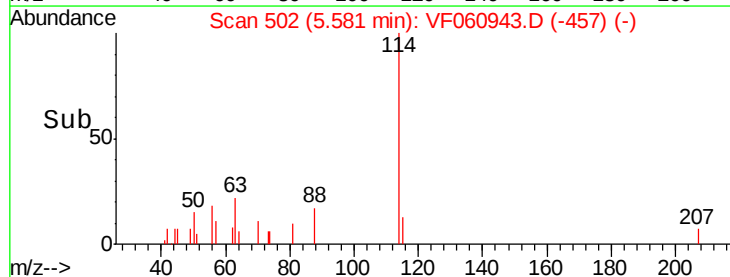
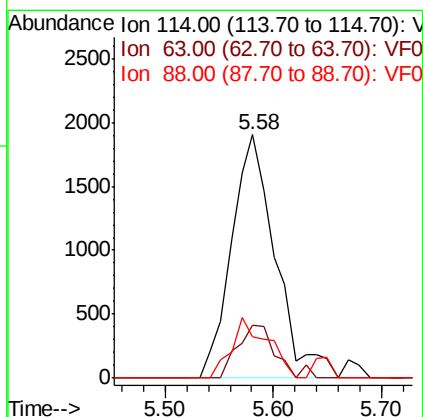
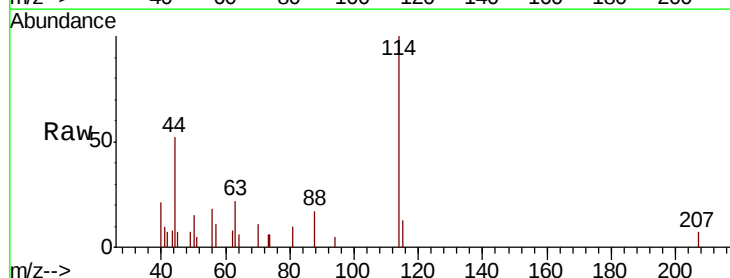
Instrument :
 MSVOA_F
 ClientSampleId :
 SB-2(15-17)

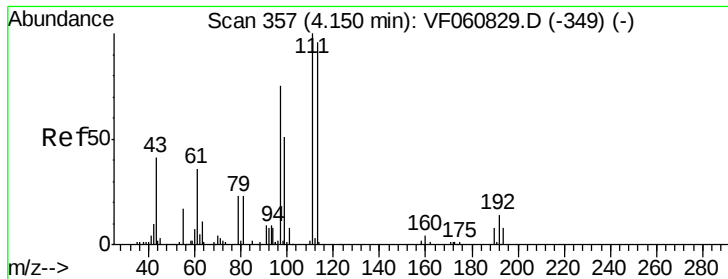
Tot Ion: 65 Resp: 869
 Ion Ratio Lower Upper
 65 100
 67 0.0 0.0 96.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.58 min Scan# 502
 Delta R.T. -0.06 min
 Lab File: VF060943.D
 Acq: 7 Dec 2018 21:58

Tgt Ion: 114 Resp: 5357
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 41.6
 88 17.2 0.0 36.6





#35

Dibromofluoromethane

Concen: 29.766 ug/l

RT: 4.09 min Scan# 351

Delta R.T. -0.06 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

SB-2(15-17)

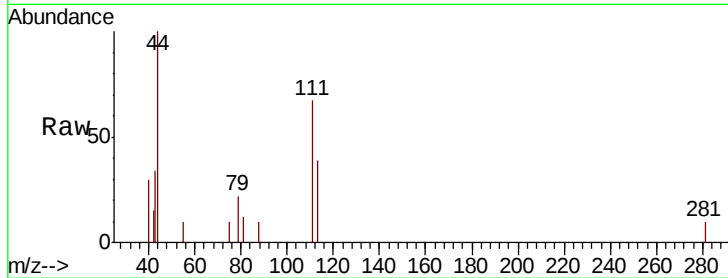
Tot Ion:113 Resp: 1265

Ion Ratio Lower Upper

113 100

111 172.5 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

800

600

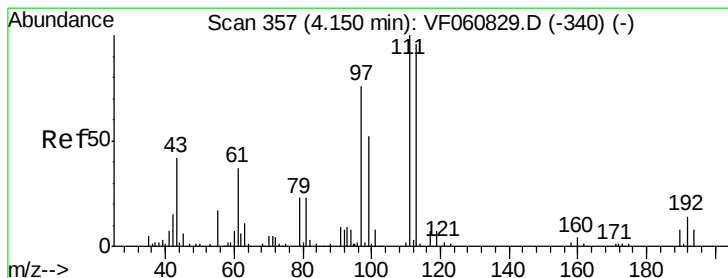
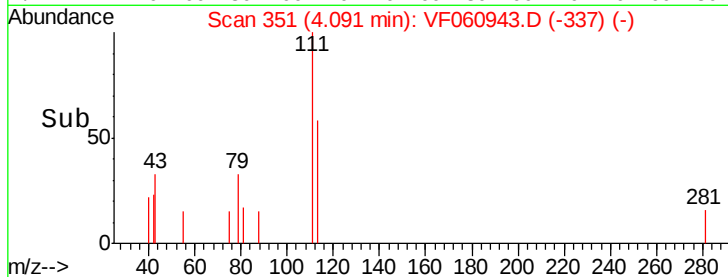
400

200

0

4.00 4.05 4.10 4.15

Time-->



#37

Ethyl Acetate

Concen: 9.153 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.03 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

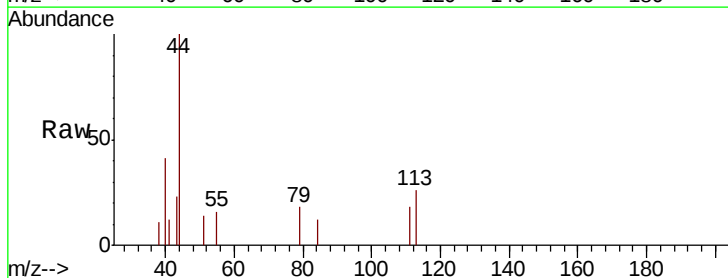
Tgt Ion: 43 Resp: 221

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

300

250

200

150

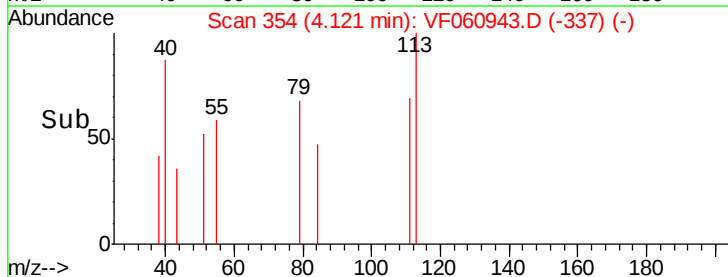
100

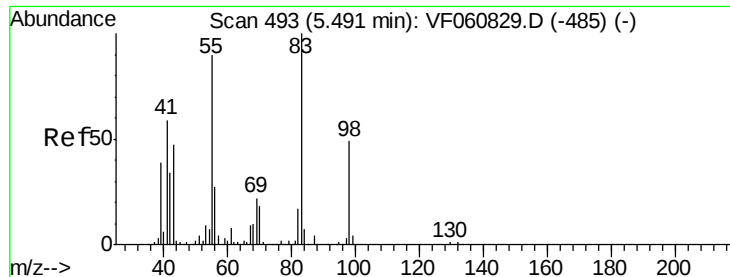
50

0

4.10 4.12 4.14

Time-->

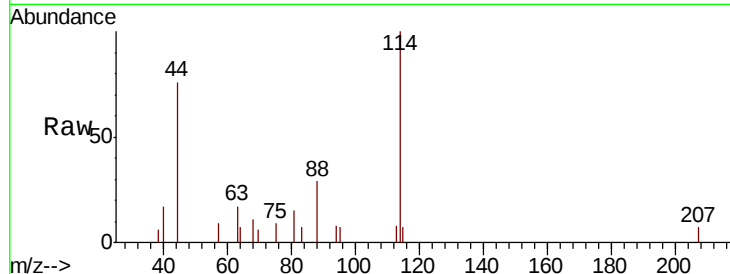




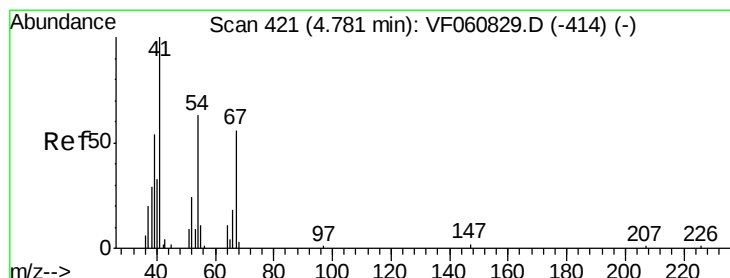
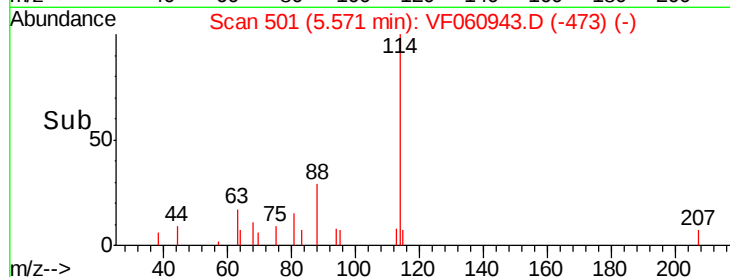
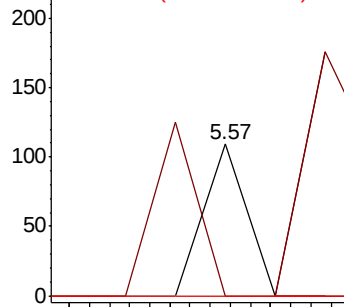
#39
Methylcyclohexane
Concen: 1.044 ug/l
RT: 5.57 min Scan# 501
Delta R.T. 0.08 min
Lab File: VF060943.D
Acq: 7 Dec 2018 21:58

Instrument :
MSVOA_F
ClientSampleId :
SB-2(15-17)

Tot Ion: 83 Resp: 65
Ion Ratio Lower Upper
83 100
55 0.0 72.1 108.1#
98 0.0 39.1 58.7#

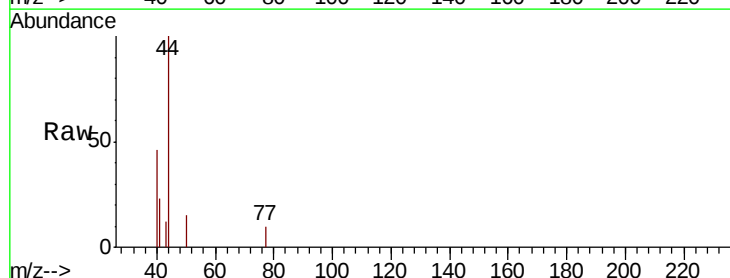


Abundance Ion 83.00 (82.70 to 83.70): VF0
Ion 55.00 (54.70 to 55.70): VF0
Ion 98.00 (97.70 to 98.70): VF0

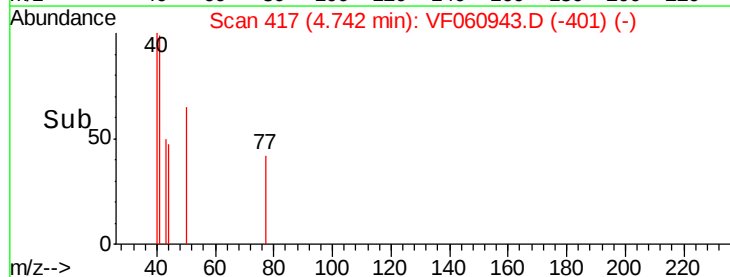
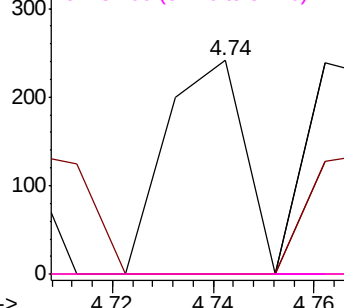


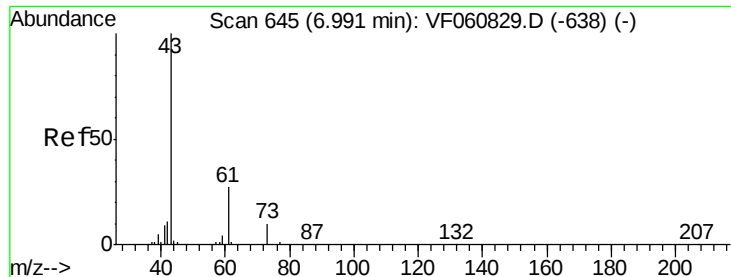
#41
Methacrylonitrile
Concen: 18.428 ug/l
RT: 4.74 min Scan# 417
Delta R.T. -0.04 min
Lab File: VF060943.D
Acq: 7 Dec 2018 21:58

Tgt Ion: 41 Resp: 261
Ion Ratio Lower Upper
41 100
39 0.0 53.0 79.6#
67 0.0 43.8 65.6#
52 0.0 37.8 56.8#



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





#43

Isopropyl Acetate

Concen: 3.904 ug/l

RT: 6.90 min Scan# 636

Delta R.T. -0.09 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

SB-2(15-17)

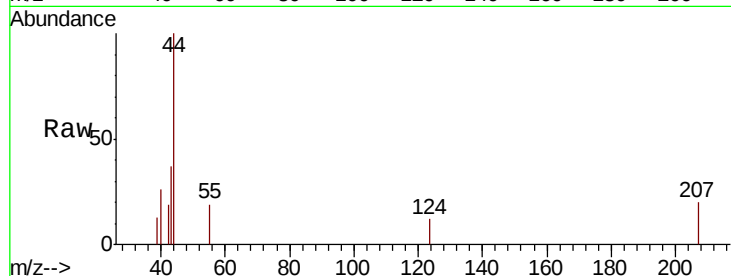
Tot Ion: 43 Resp: 191

Ion Ratio Lower Upper

43 100

61 0.0 21.4 32.0#

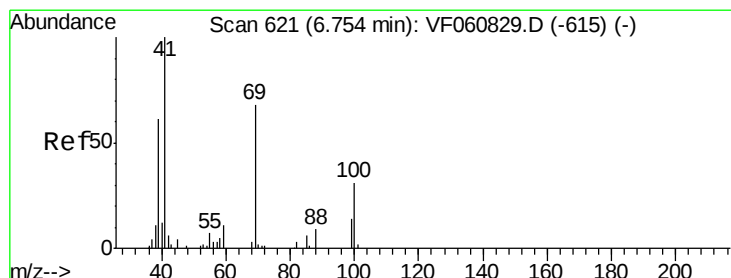
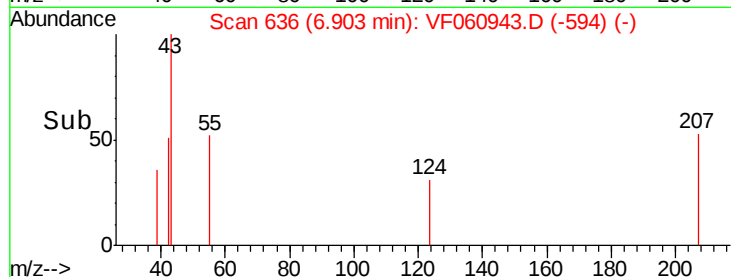
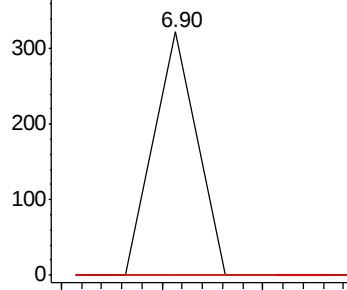
87 0.0 0.2 0.4#



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



#48

Methyl methacrylate

Concen: 12.125 ug/l

RT: 6.66 min Scan# 611

Delta R.T. -0.10 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

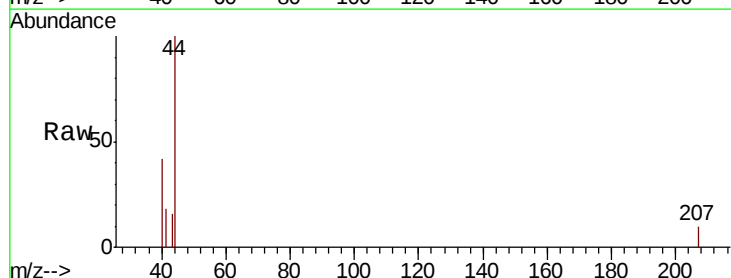
Tgt Ion: 41 Resp: 265

Ion Ratio Lower Upper

41 100

69 0.0 53.9 80.9#

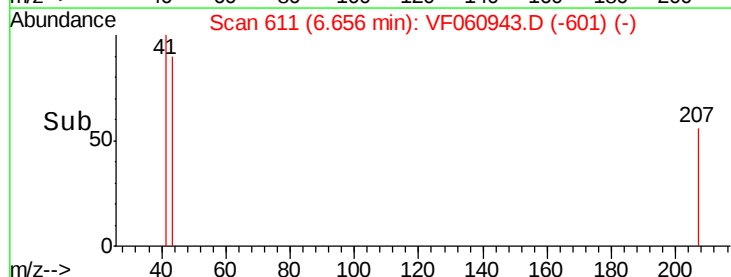
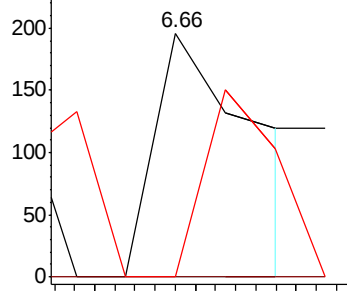
39 0.0 49.0 73.6#

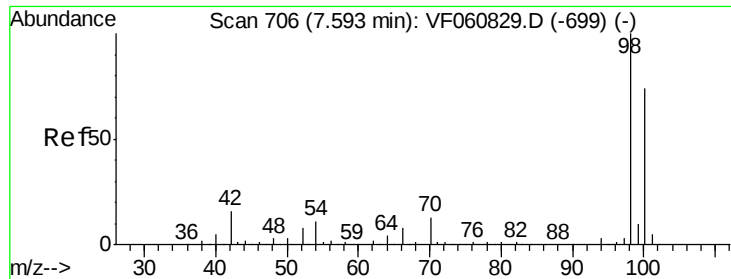


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

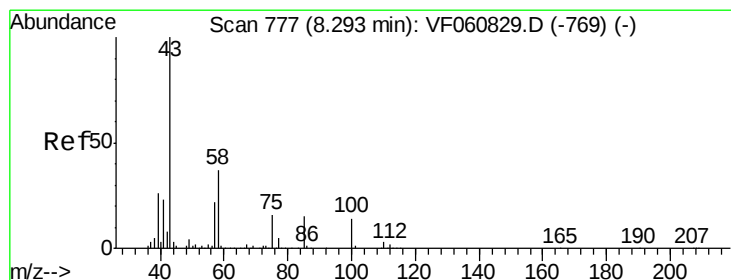
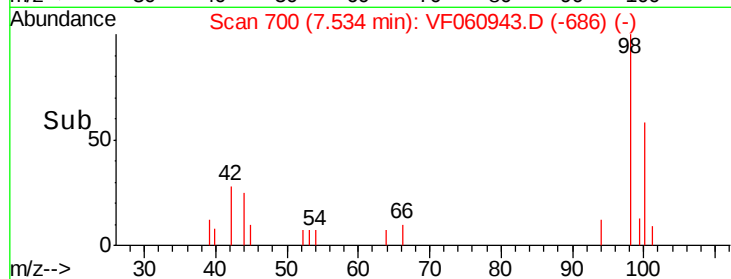
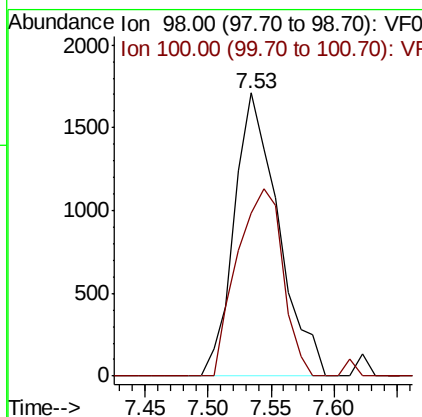
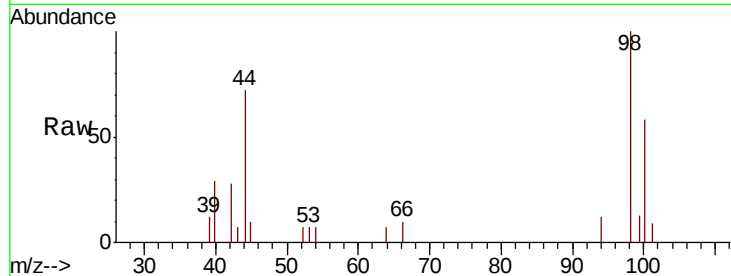




#50
Toluene-d8
Concen: 33.238 ug/l
RT: 7.53 min Scan# 700
Delta R.T. -0.06 min
Lab File: VF060943.D
Acq: 7 Dec 2018 21:58

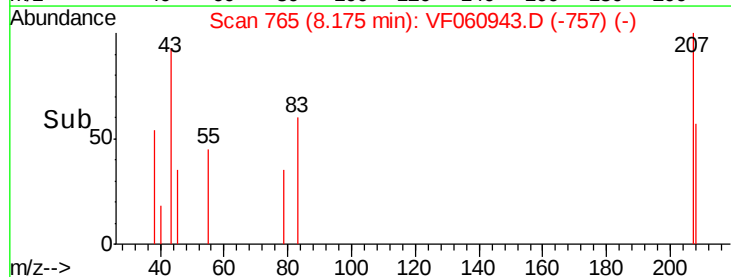
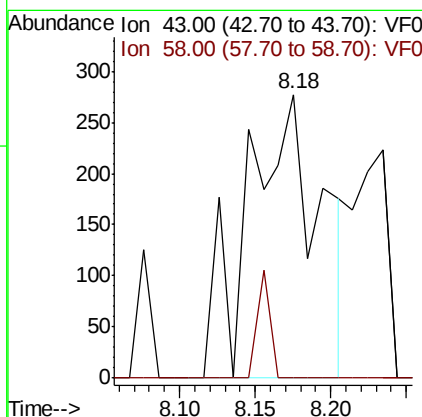
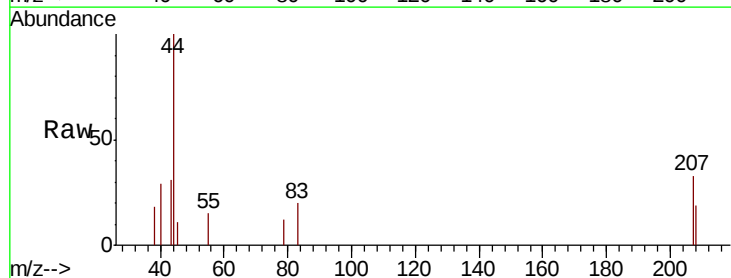
Instrument :
MSVOA_F
ClientSampleId :
SB-2(15-17)

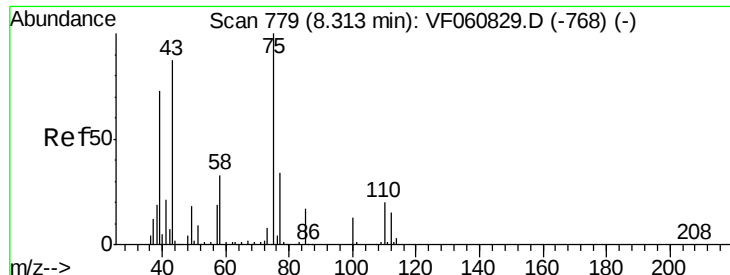
Tot Ion: 98 Resp: 4161
Ion Ratio Lower Upper
98 100
100 57.8 59.3 88.9#



#51
4-Methyl-2-Pentanone
Concen: 41.677 ug/l
RT: 8.18 min Scan# 765
Delta R.T. -0.12 min
Lab File: VF060943.D
Acq: 7 Dec 2018 21:58

Tgt Ion: 43 Resp: 928
Ion Ratio Lower Upper
43 100
58 0.0 29.7 44.5#





#53

t-1,3-Dichloropropene

Concen: 1.661 ug/l

RT: 8.19 min Scan# 766

Delta R.T. -0.13 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

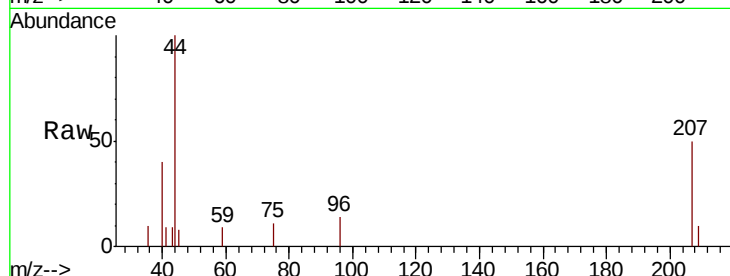
SB-2(15-17)

Tot Ion: 75 Resp: 83

Ion Ratio Lower Upper

75 100

77 0.0 27.4 41.2#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.19

150

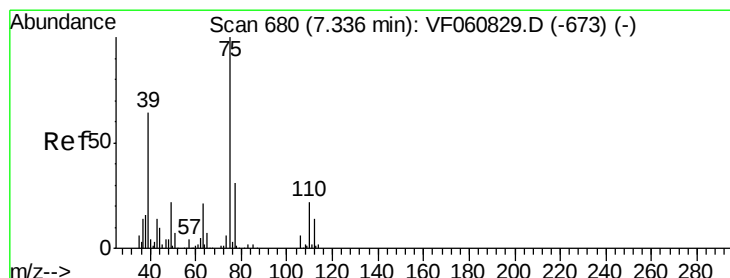
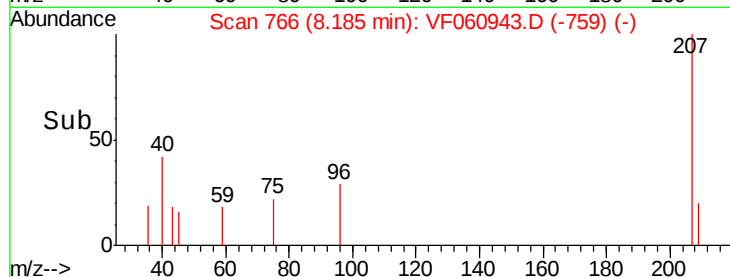
100

50

0

8.16 8.18 8.20

Time-->



#54

cis-1,3-Dichloropropene

Concen: 1.051 ug/l

RT: 7.19 min Scan# 665

Delta R.T. -0.15 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

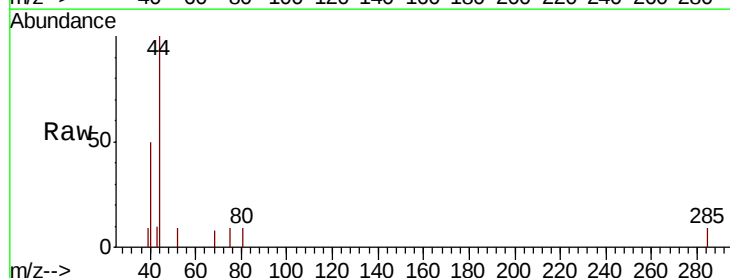
Tgt Ion: 75 Resp: 65

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 107.3 51.1 76.7#



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

150

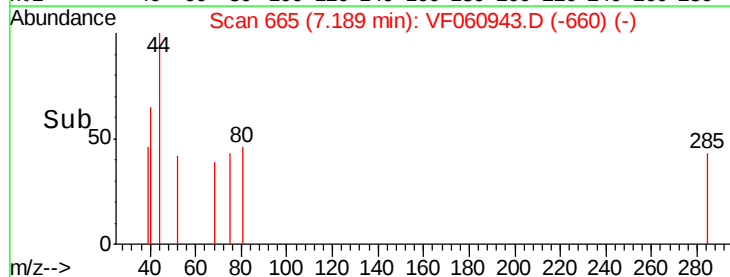
100

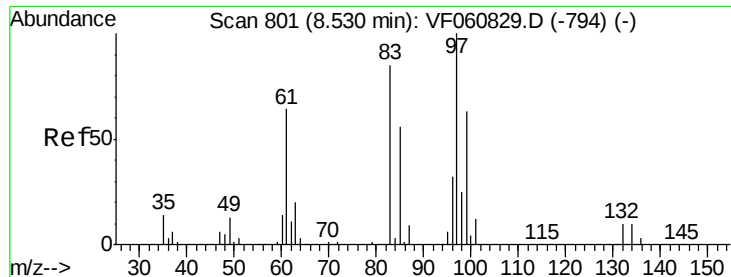
50

0

7.16 7.18 7.20 7.22

Time-->





#55

1,1,2-Trichloroethane

Concen: 2.605 ug/l

RT: 8.54 min Scan# 802

Delta R.T. 0.01 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

SB-2(15-17)

Tot Ion: 97 Resp: 70

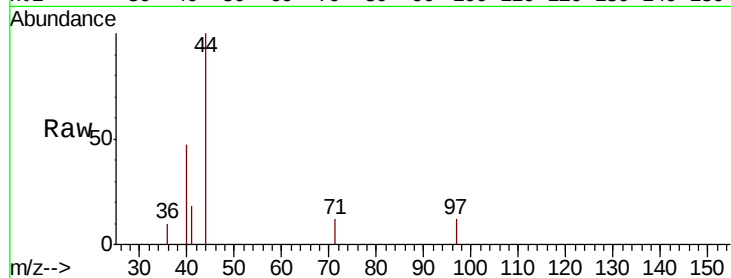
Ion Ratio Lower Upper

97 100

83 0.0 67.8 101.6#

85 0.0 45.0 67.6#

99 0.0 50.5 75.7#

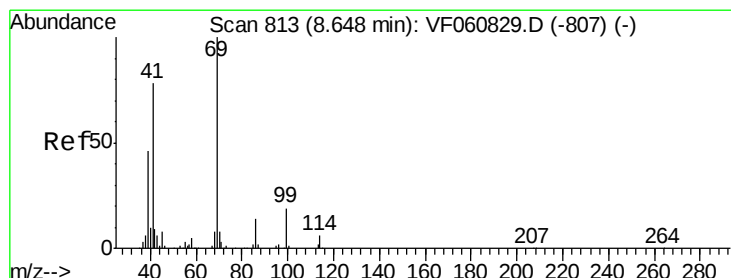
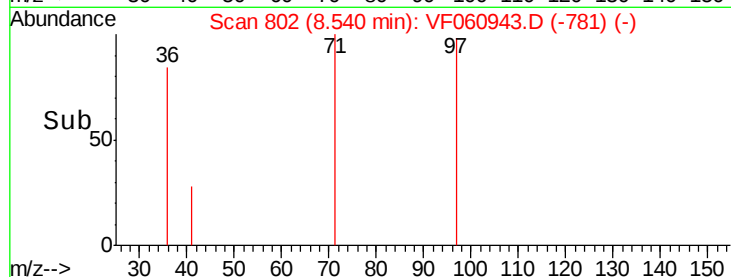
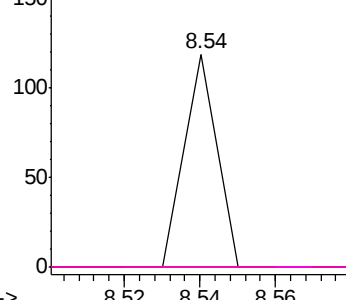


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 3.585 ug/l

RT: 8.43 min Scan# 791

Delta R.T. -0.22 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

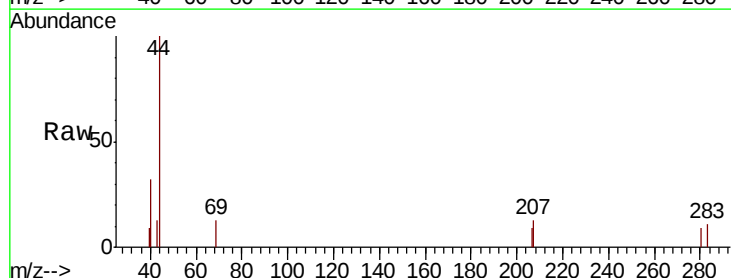
Tgt Ion: 69 Resp: 107

Ion Ratio Lower Upper

69 100

41 0.0 62.6 94.0#

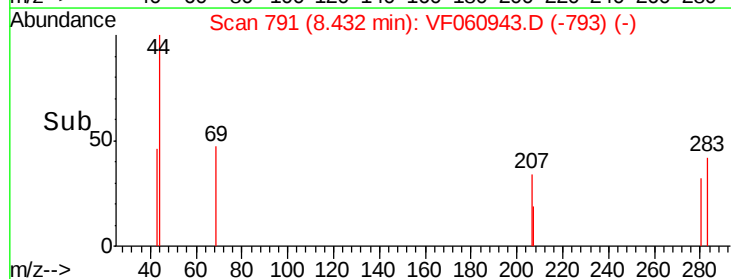
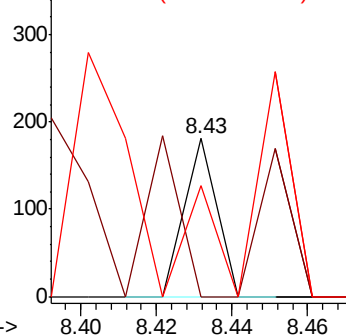
39 70.2 37.8 56.6#

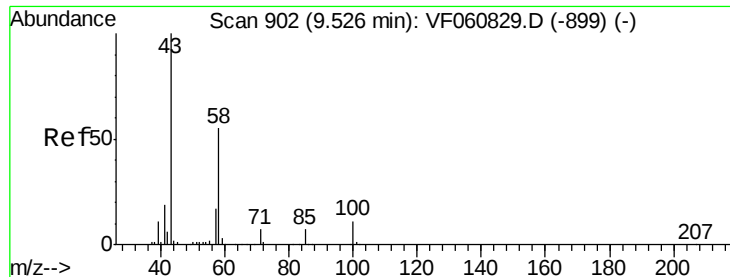


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

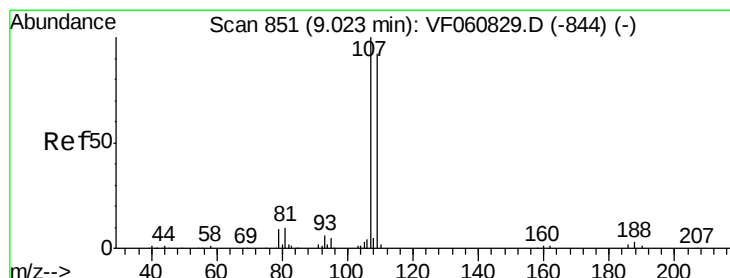
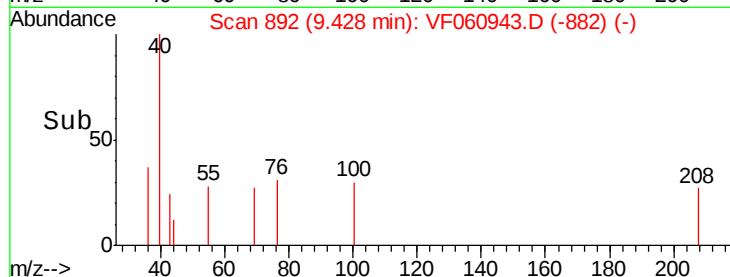
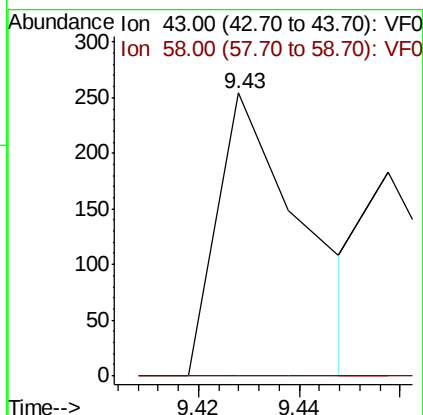
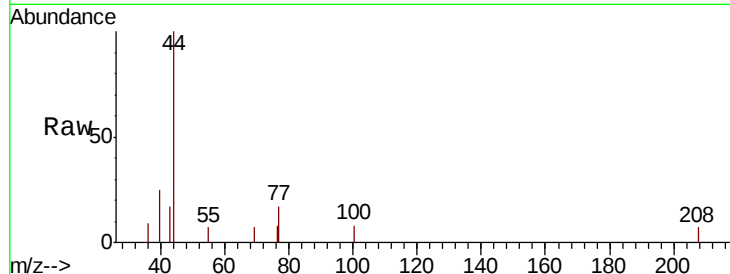




#59
2-Hexanone
Concen: 19.333 ug/l
RT: 9.43 min Scan# 892
Delta R.T. -0.10 min
Lab File: VF060943.D
Acq: 7 Dec 2018 21:58

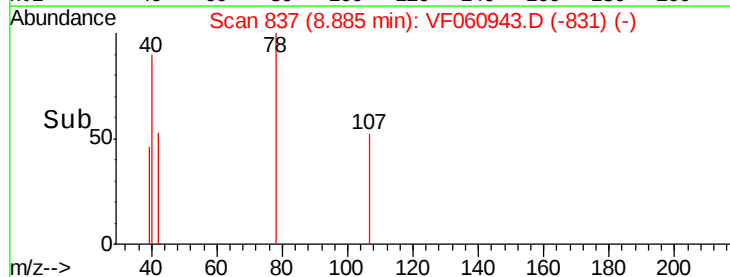
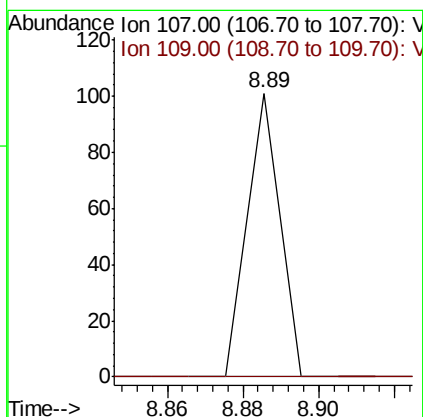
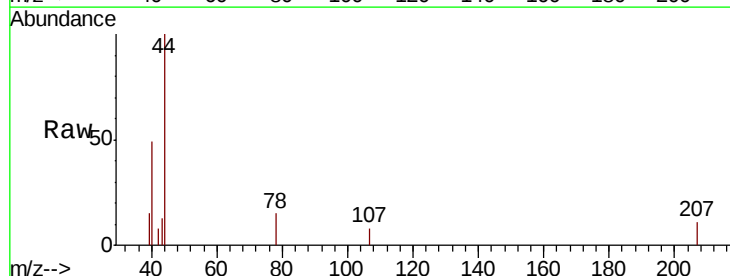
Instrument :
MSVOA_F
ClientSampleId :
SB-2(15-17)

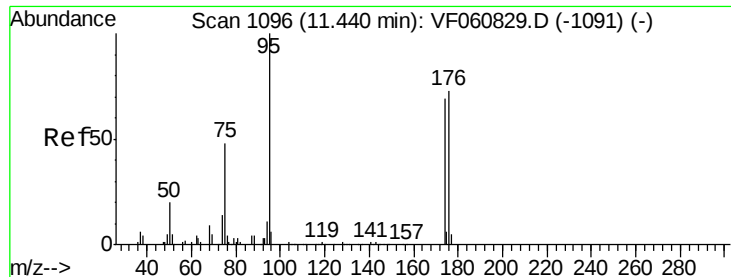
Tot Ion: 43 Resp: 302
Ion Ratio Lower Upper
43 100
58 0.0 25.6 76.6#



#61
1,2-Dibromoethane
Concen: 2.067 ug/l
RT: 8.89 min Scan# 837
Delta R.T. -0.14 min
Lab File: VF060943.D
Acq: 7 Dec 2018 21:58

Tgt Ion:107 Resp: 60
Ion Ratio Lower Upper
107 100
109 0.0 73.6 110.4#





#62

4-Bromofluorobenzene

Concen: 18.015 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.04 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

SB-2(15-17)

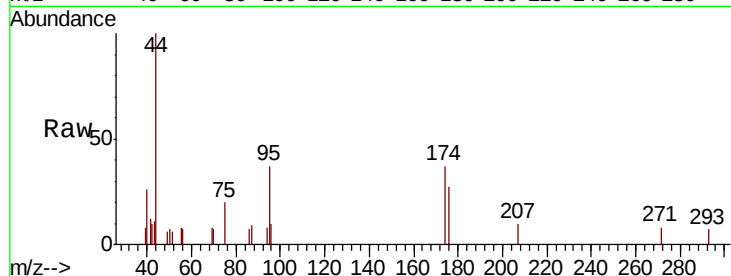
Tot Ion: 95 Resp: 1025

Ion Ratio Lower Upper

95 100

174 100.7 0.0 138.2

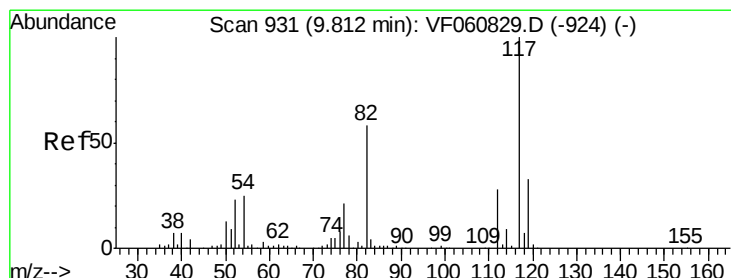
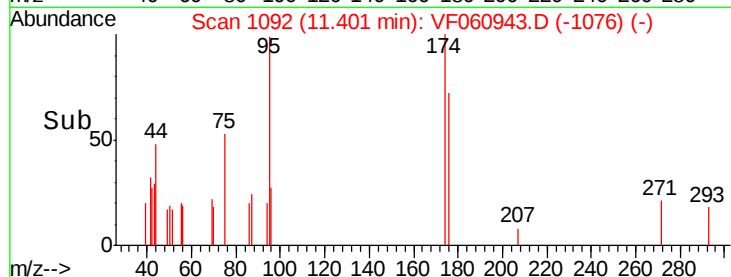
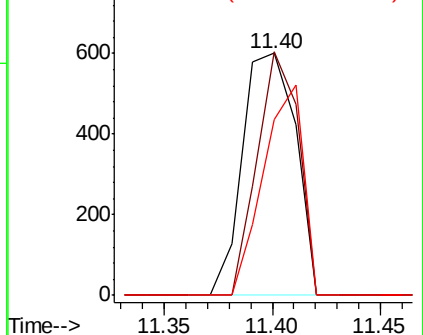
176 72.8 0.0 146.2



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.05 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

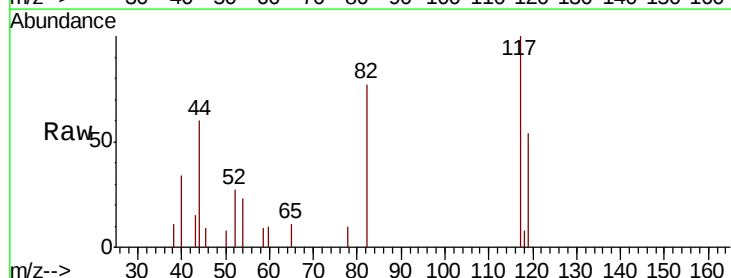
Tgt Ion: 117 Resp: 3662

Ion Ratio Lower Upper

117 100

82 76.9 46.6 69.8#

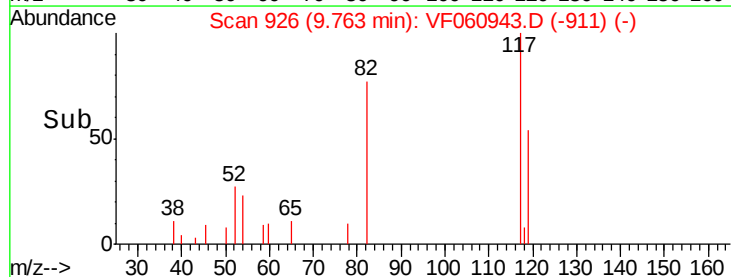
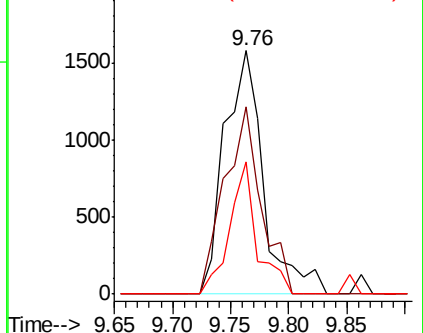
119 54.2 26.4 39.6#

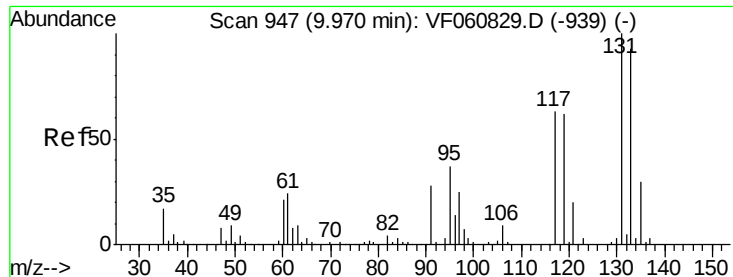


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#66

1,1,1,2-Tetrachloroethane

Concen: 2.122 ug/l

RT: 9.94 min Scan# 944

Delta R.T. -0.03 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

SB-2(15-17)

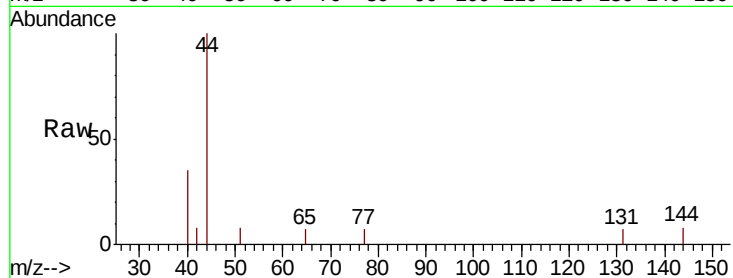
Tot Ion:131 Resp: 65

Ion Ratio Lower Upper

131 100

133 0.0 46.5 139.3#

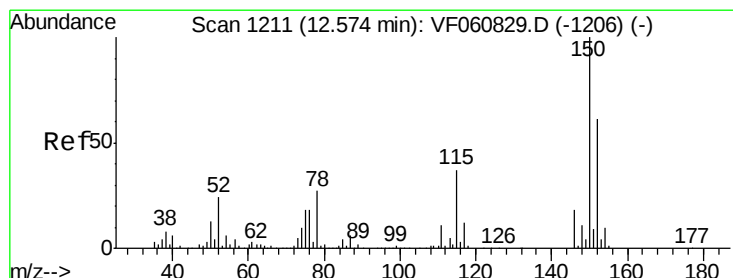
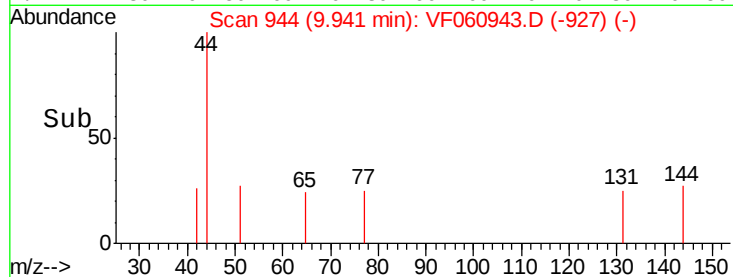
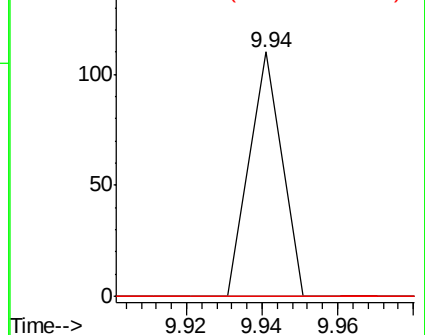
119 0.0 31.1 93.3#



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1207

Delta R.T. -0.04 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

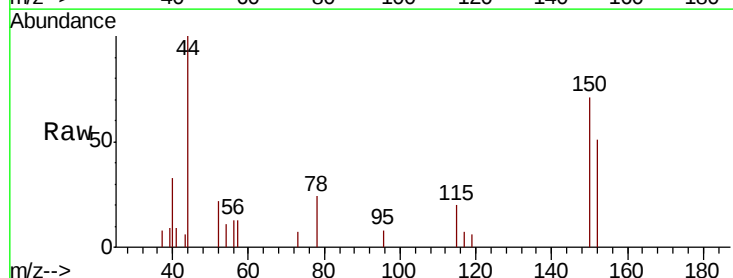
Tgt Ion:152 Resp: 1092

Ion Ratio Lower Upper

152 100

115 39.0 30.1 90.5

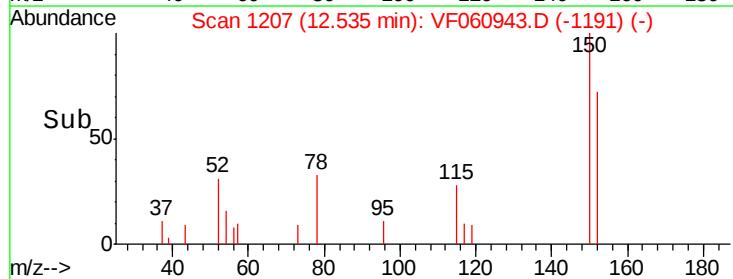
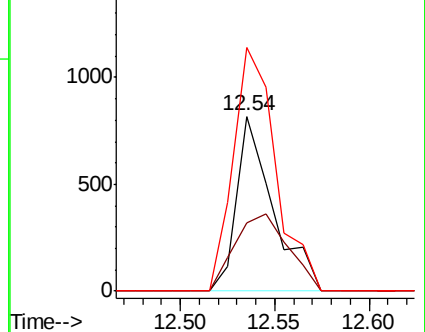
150 139.0 0.0 327.6

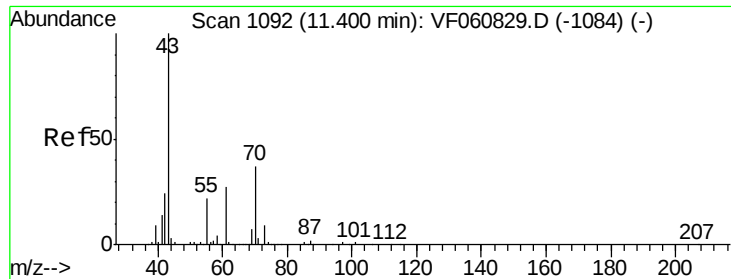


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#74

N-amvl acetate

Concen: 15.256 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.02 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

SB-2(15-17)

Tot Ion: 43 Resp: 304

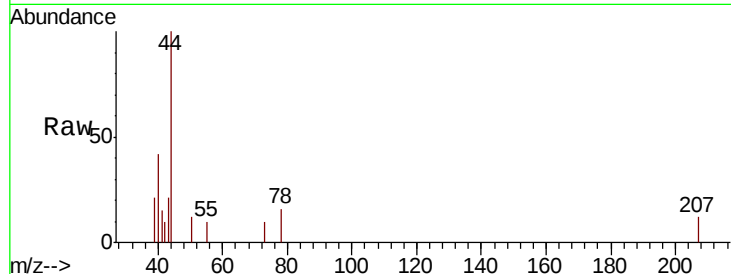
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 47.1 17.2 25.8#

61 0.0 21.8 32.6#

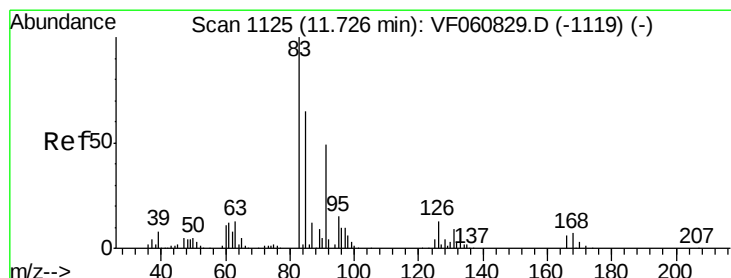
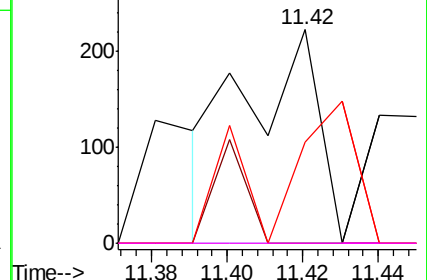
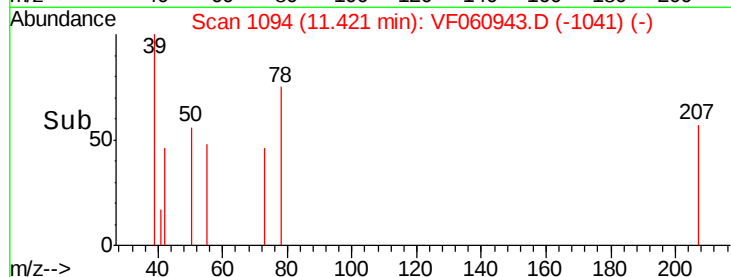


Abundance Ion 43.00 (42.70 to 43.70): VF0

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: 4.225 ug/l

RT: 11.81 min Scan# 1133

Delta R.T. 0.08 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

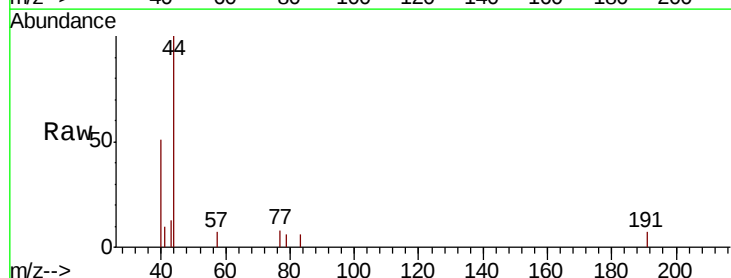
Tgt Ion: 83 Resp: 60

Ion Ratio Lower Upper

83 100

131 0.0 4.7 14.1#

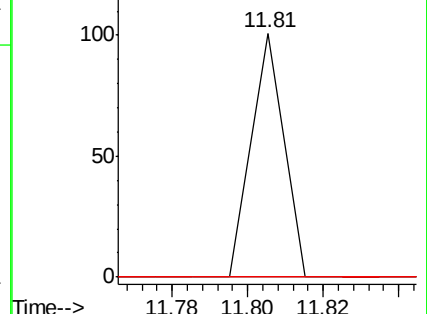
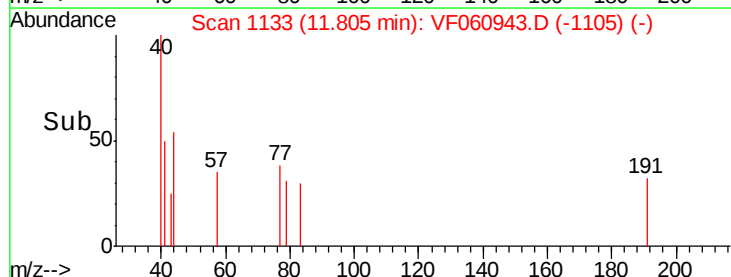
85 0.0 32.6 97.8#

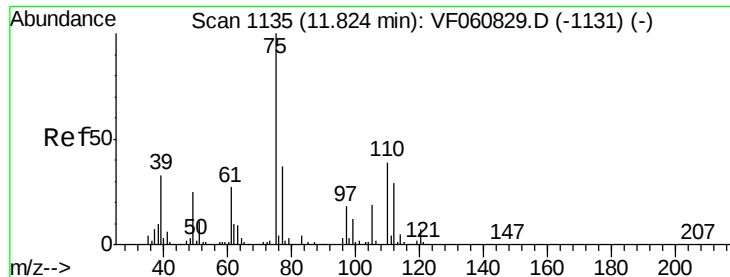


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0

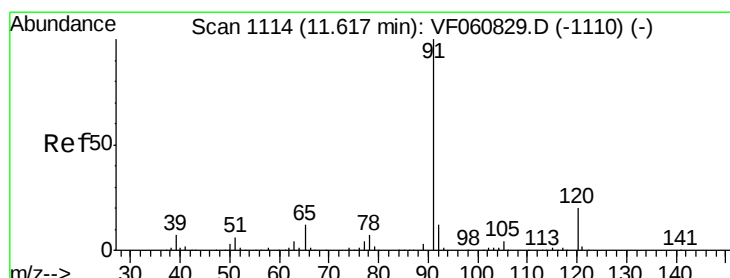
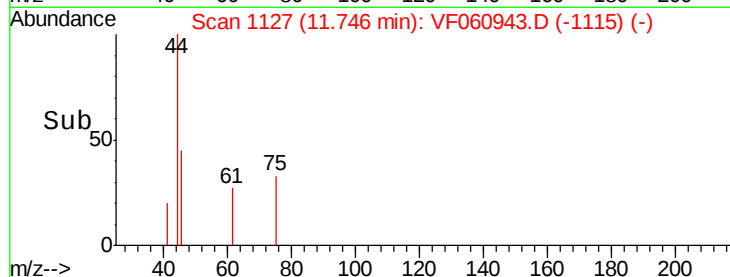
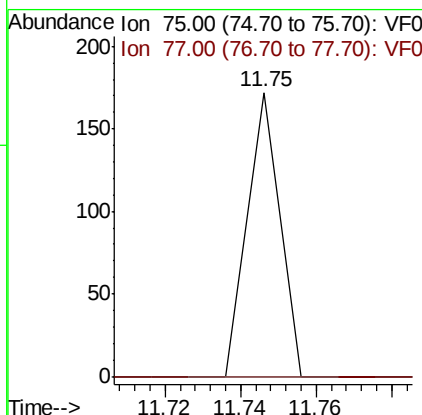
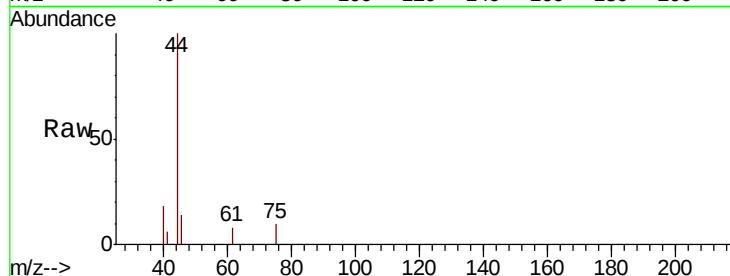




#76
 1,2,3-Trichloropropane
 Concen: 9.881 ug/l
 RT: 11.75 min Scan# 1127
 Delta R.T. -0.08 min
 Lab File: VF060943.D
 Acq: 7 Dec 2018 21:58

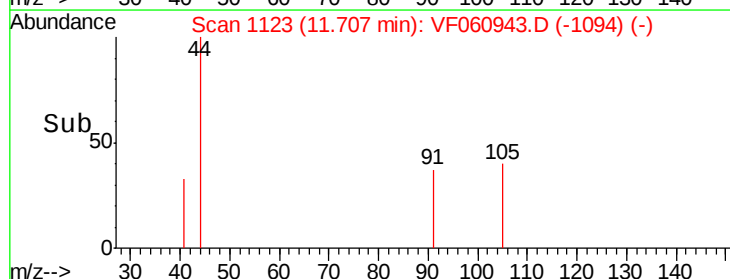
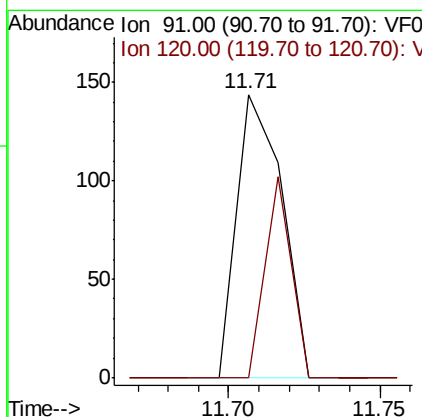
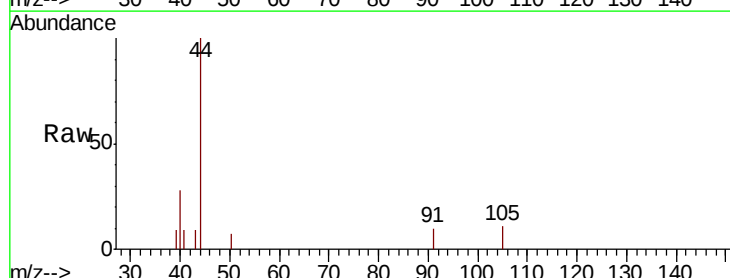
Instrument :
 MSVOA_F
 ClientSampleId :
 SB-2(15-17)

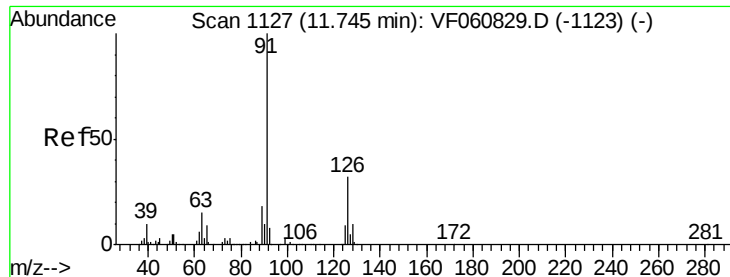
Tot Ion: 75 Resp: 102
 Ion Ratio Lower Upper
 75 100
 77 0.0 18.4 55.4#



#78
 n-propylbenzene
 Concen: 1.484 ug/l
 RT: 11.71 min Scan# 1123
 Delta R.T. 0.09 min
 Lab File: VF060943.D
 Acq: 7 Dec 2018 21:58

Tgt Ion: 91 Resp: 150
 Ion Ratio Lower Upper
 91 100
 120 0.0 10.3 30.8#





#79

2-Chlorotoluene

Concen: 2.589 ug/l

RT: 11.71 min Scan# 1123

Delta R.T. -0.04 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

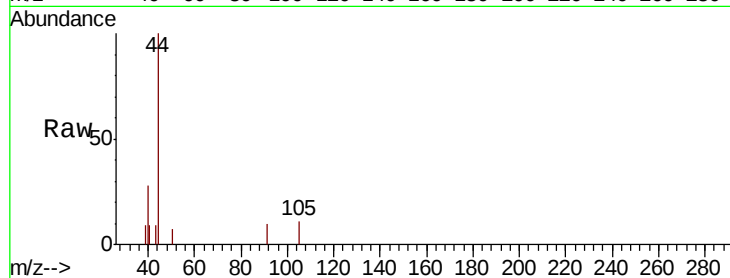
SB-2(15-17)

Tot Ion: 91 Resp: 150

Ion Ratio Lower Upper

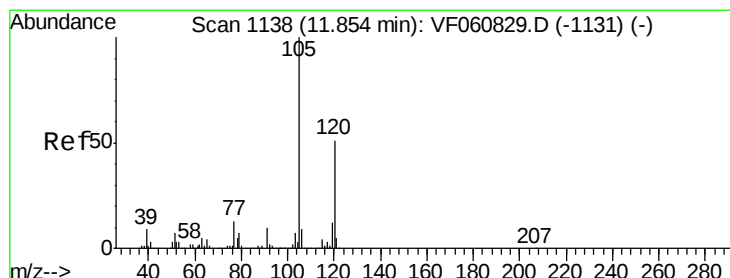
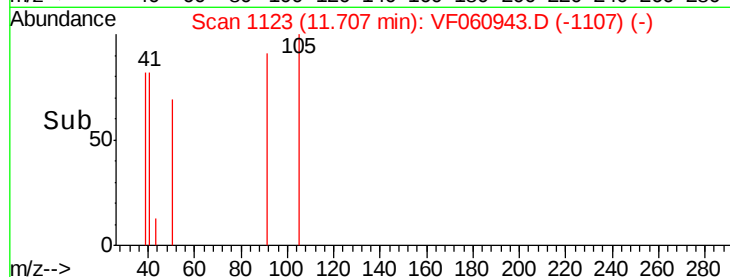
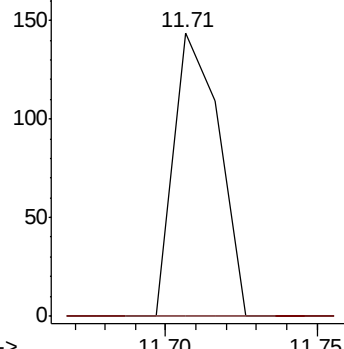
91 100

126 0.0 15.9 47.6#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V



#80

1,3,5-Trimethylbenzene

Concen: 6.038 ug/l

RT: 11.70 min Scan# 1122

Delta R.T. -0.16 min

Lab File: VF060943.D

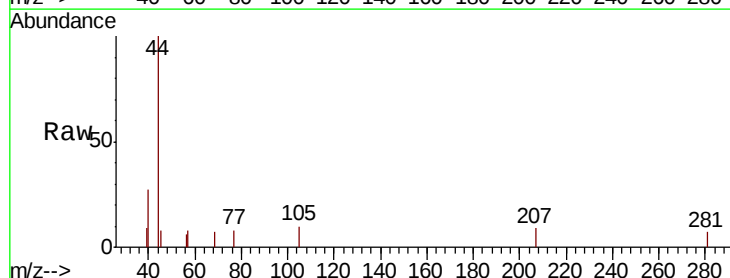
Acq: 7 Dec 2018 21:58

Tgt Ion:105 Resp: 423

Ion Ratio Lower Upper

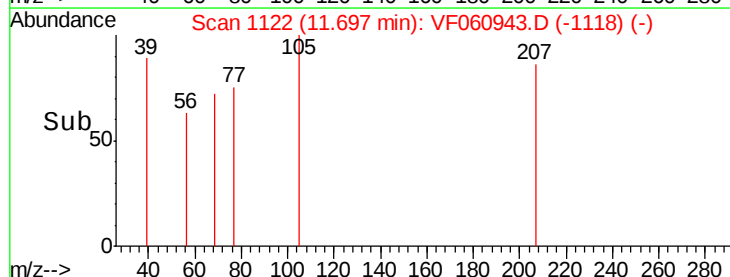
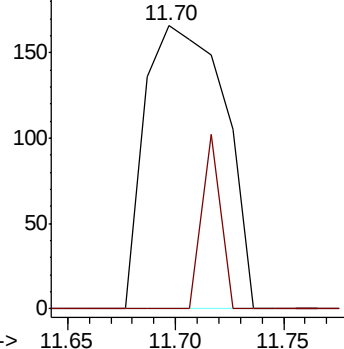
105 100

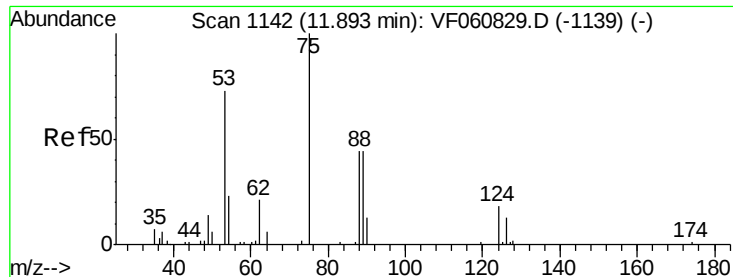
120 0.0 25.8 77.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 20.166 ug/l

RT: 11.75 min Scan# 1127

Delta R.T. -0.15 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

SB-2(15-17)

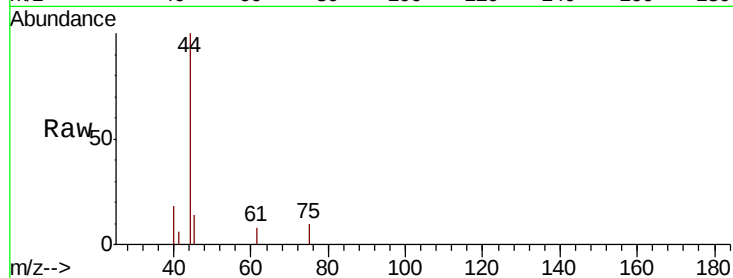
Tot Ion: 75 Resp: 102

Ion Ratio Lower Upper

75 100

53 0.0 65.9 98.9#

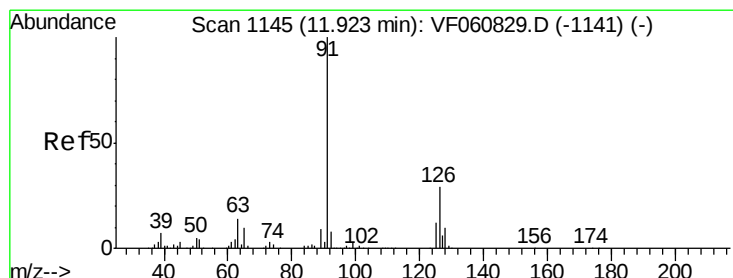
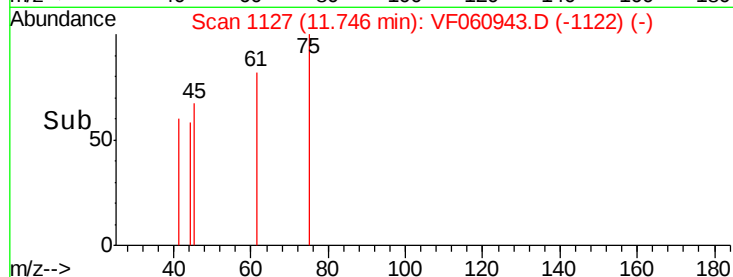
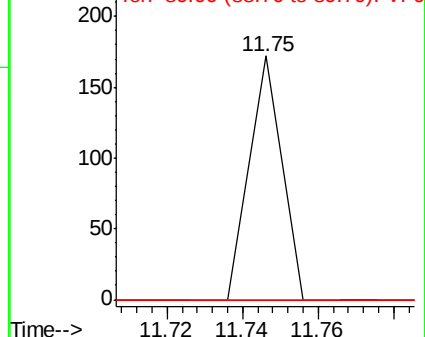
89 0.0 38.8 58.2#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 1.017 ug/l

RT: 11.94 min Scan# 1147

Delta R.T. 0.02 min

Lab File: VF060943.D

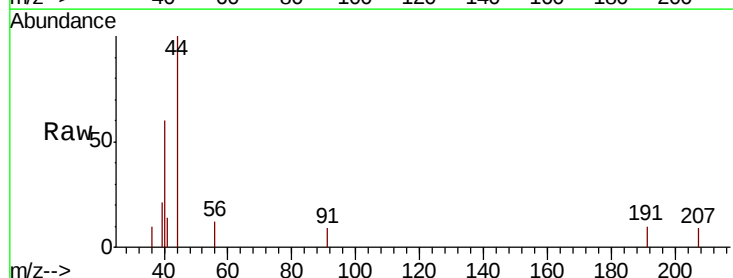
Acq: 7 Dec 2018 21:58

Tgt Ion: 91 Resp: 62

Ion Ratio Lower Upper

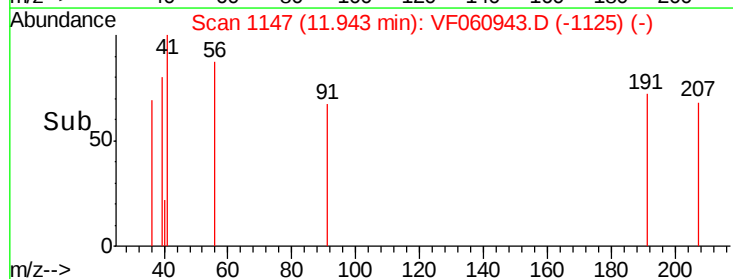
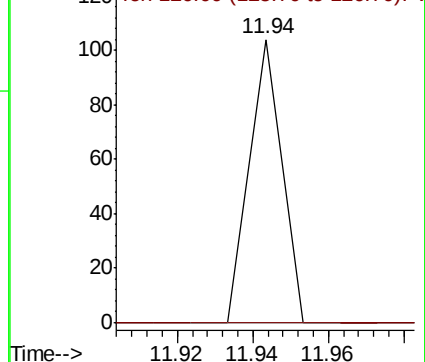
91 100

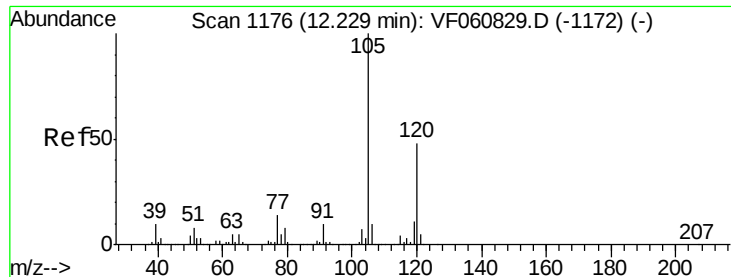
126 0.0 14.8 44.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

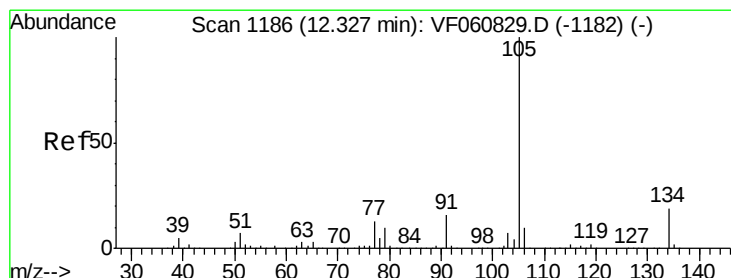
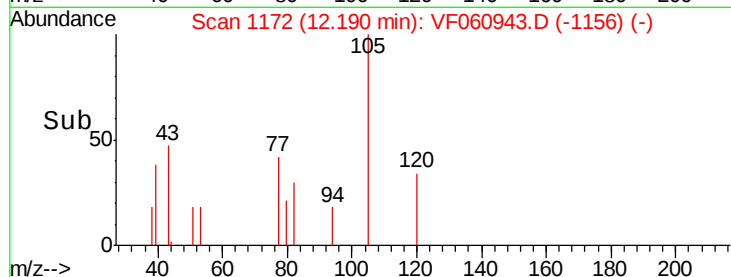
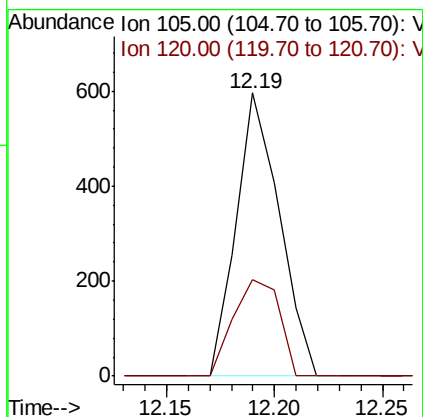
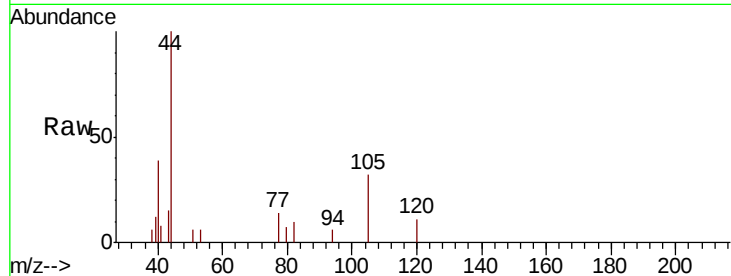




#84
 1,2,4-Trimethylbenzene
 Concen: 11.871 ug/l
 RT: 12.19 min Scan# 1172
 Delta R.T. -0.04 min
 Lab File: VF060943.D
 Acq: 7 Dec 2018 21:58

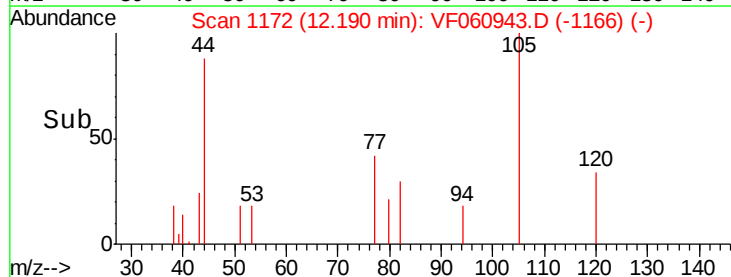
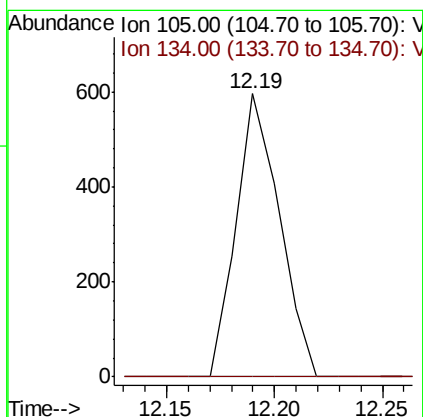
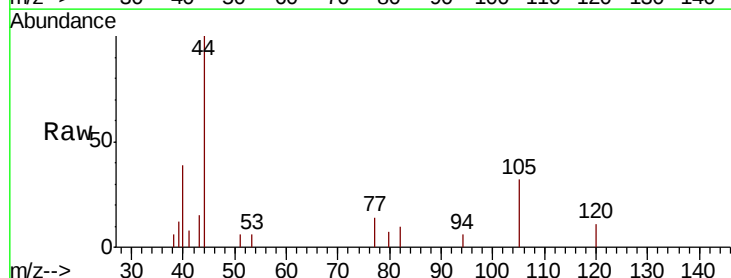
Instrument :
 MSVOA_F
 ClientSampleId :
 SB-2(15-17)

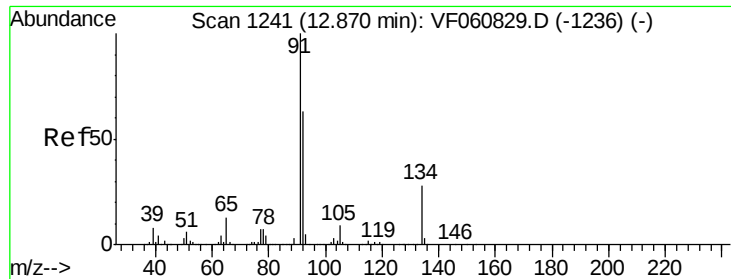
Tot Ion:105 Resp: 830
 Ion Ratio Lower Upper
 105 100
 120 33.9 23.8 71.5



#85
 sec-Butylbenzene
 Concen: 8.496 ug/l
 RT: 12.19 min Scan# 1172
 Delta R.T. -0.14 min
 Lab File: VF060943.D
 Acq: 7 Dec 2018 21:58

Tgt Ion:105 Resp: 830
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.5 28.5#





#89

n-Butylbenzene

Concen: 1.256 ug/l

RT: 12.82 min Scan# 1236

Delta R.T. -0.05 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

Instrument :

MSVOA_F

ClientSampled :

SB-2(15-17)

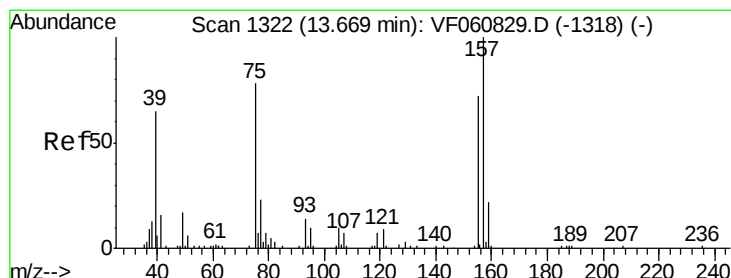
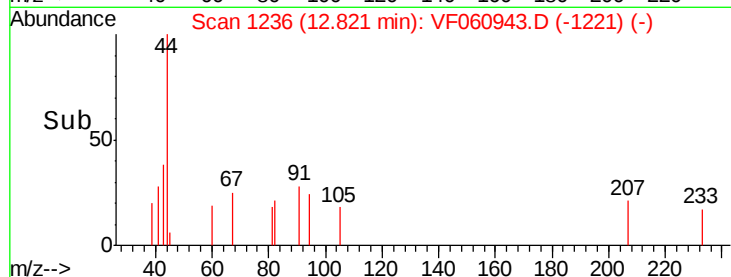
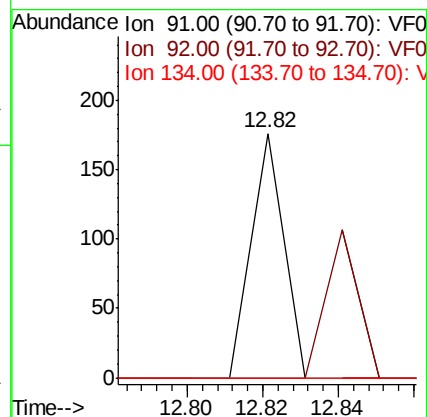
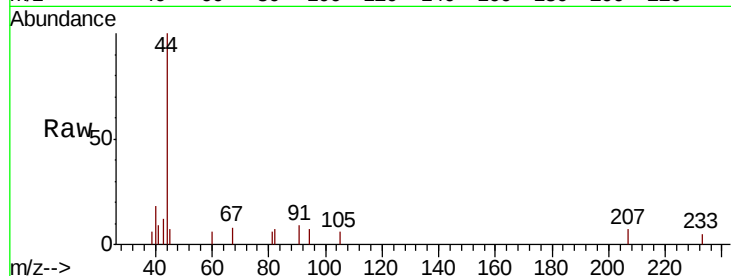
Tot Ion: 91 Resp: 104

Ion Ratio Lower Upper

91 100

92 0.0 31.6 94.7#

134 0.0 13.8 41.4#



#92

1,2-Dibromo-3-Chloropropane

Concen: 24.764 ug/l

RT: 13.57 min Scan# 1312

Delta R.T. -0.10 min

Lab File: VF060943.D

Acq: 7 Dec 2018 21:58

Tgt Ion: 75 Resp: 68

Ion Ratio Lower Upper

75 100

155 0.0 45.6 136.9#

157 0.0 63.8 191.5#

