

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071918\
 Data File : VF059549.D
 Acq On : 19 Jul 2018 9:44
 Operator : VA/AP
 Sample : J3991-04
 Misc : 4.98g/5mL/MSVOA F/SOIL
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 SB-3-A

Quant Time: Jul 19 14:40:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 04:09:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	591	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	737	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	98	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.58	152	66	50.00	ug/l	-0.07

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	186	20.24	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	40.48%	
35) Dibromofluoromethane	4.30	113	260	40.73	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	81.46%	
50) Toluene-d8	7.73	98	677	42.11	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	84.22%	
62) 4-Bromofluorobenzene	11.48	95	140	16.60	ug/l	-0.04
Spiked Amount				50.000		
			Recovery	=	33.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.11	50	189	47.44	ug/l #	44
5) Bromomethane	1.28	94	80	28.71	ug/l #	3
10) Methyl Iodide	1.86	142	98	13.47	ug/l #	23
11) Tert butyl alcohol	2.76	59	64	160.15	ug/l #	74
12) 1,1-Dichloroethene	1.85	96	66	14.94	ug/l #	1
13) Acrolein	2.12	56	69	467.98	ug/l #	12
14) Allyl chloride	2.16	41	69	12.51	ug/l #	1
15) Acrylonitrile	3.07	53	65	84.29	ug/l #	34
16) Acetone	2.25	43	59	17.32	ug/l #	64
17) Carbon Disulfide	1.94	76	63	5.56	ug/l #	74
19) Methyl tert-butyl Ether	2.52	73	76	5.48	ug/l #	59
21) trans-1,2-Dichloroethene	2.33	96	83	20.32	ug/l #	1
22) Diisopropyl ether	2.91	45	137	8.84	ug/l #	37
23) Vinyl Acetate	3.35	43	81	8.94	ug/l #	84
24) 1,1-Dichloroethane	2.95	63	119	12.43	ug/l #	91
25) 2-Butanone	4.59	43	176	82.47	ug/l #	60
26) 2,2-Dichloropropane	3.71	77	72	11.37	ug/l #	62
27) cis-1,2-Dichloroethene	3.58	96	75	15.77	ug/l #	1
28) Bromochloromethane	3.74	49	66	15.67	ug/l #	6
29) Tetrahydrofuran	4.25	42	212	243.57	ug/l #	38
31) Cyclohexane	3.90	56	123	24.81	ug/l #	15
32) 1,1,1-Trichloroethane	4.29	97	86	9.57	ug/l #	21
36) 1,1-Dichloropropene	4.41	75	68	9.22	ug/l #	45
37) Ethyl Acetate	4.32	43	179	44.41	ug/l #	41
38) Carbon Tetrachloride	4.33	117	96	11.36	ug/l #	12
40) Benzene	4.93	78	199	13.91	ug/l #	51
41) Methacrylonitrile	4.93	41	60	28.36	ug/l #	33
42) 1,2-Dichloroethane	5.22	62	62	6.60	ug/l #	85
43) Isopropyl Acetate	7.13	43	115	21.69	ug/l #	38
44) Trichloroethene	5.64	130	62	11.70	ug/l #	1
47) Bromodichloromethane	6.45	83	74	7.95	ug/l #	25
48) Methyl methacrylate	6.89	41	239	63.13	ug/l #	13
49) 1,4-Dioxane	6.93	88	86	Below	Cal #	15
51) 4-Methyl-2-Pentanone	8.42	43	99	26.35	ug/l #	40

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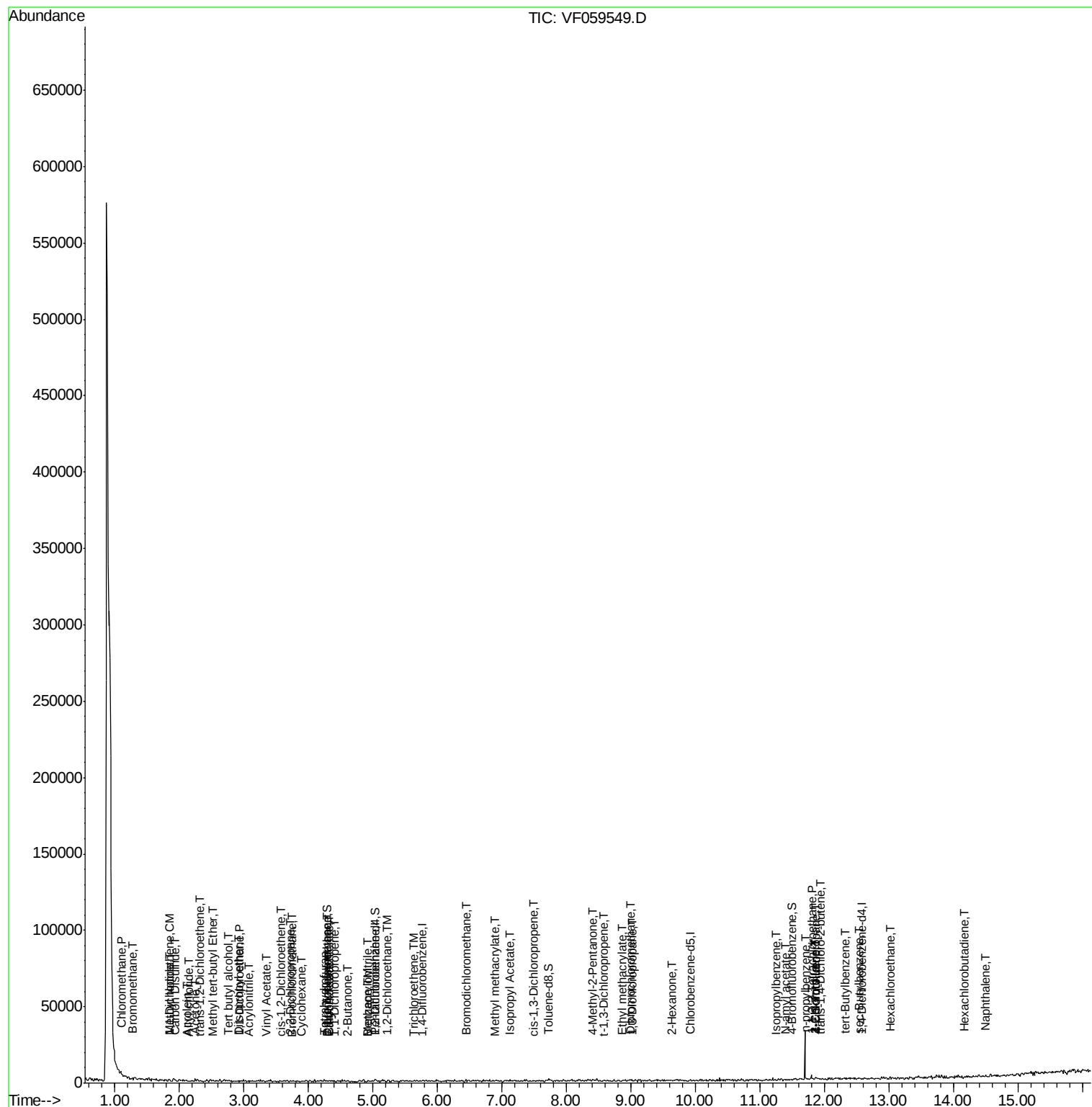
53) t-1,3-Dichloropropene	8.58	75	60	7.01	ug/l #	43
54) cis-1,3-Dichloropropene	7.51	75	90	10.55	ug/l #	72
56) Ethyl methacrylate	8.87	69	101	20.25	ug/l #	49
57) 1,3-Dichloropropane	9.02	76	73	10.27	ug/l #	42
59) 2-Hexanone	9.64	43	240	84.51	ug/l #	30
60) Dibromochloromethane	9.00	129	66	9.74	ug/l #	12
73) Isopropylbenzene	11.26	105	102	24.49	ug/l #	51
74) N-amyl acetate	11.40	43	93	69.72	ug/l #	48
75) 1,1,2,2-Tetrachloroethane	11.82	83	61	67.15	ug/l #	26
76) 1,2,3-Trichloropropane	11.88	75	69	93.02	ug/l #	38
78) n-propylbenzene	11.72	91	64	13.40	ug/l #	53
79) 2-Chlorotoluene	11.85	91	63	21.41	ug/l #	43
81) trans-1,4-Dichloro-2-buten	11.95	75	75	221.34	ug/l #	6
82) 4-Chlorotoluene	11.88	91	60	18.20	ug/l #	46
83) tert-Butylbenzene	12.32	119	73	21.80	ug/l #	26
85) sec-Butylbenzene	12.55	105	64	15.03	ug/l #	56
90) Hexachloroethane	13.03	117	75	89.09	ug/l #	17
94) Hexachlorobutadiene	14.18	225	80	134.18	ug/l #	17
95) Naphthalene	14.51	128	64	26.47	ug/l #	69

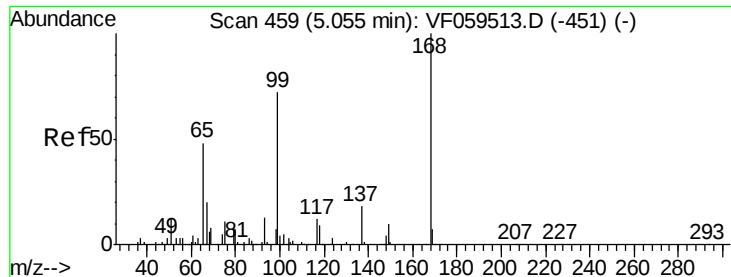
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.05 min Scan# 458

Delta R.T. -0.01 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampled :

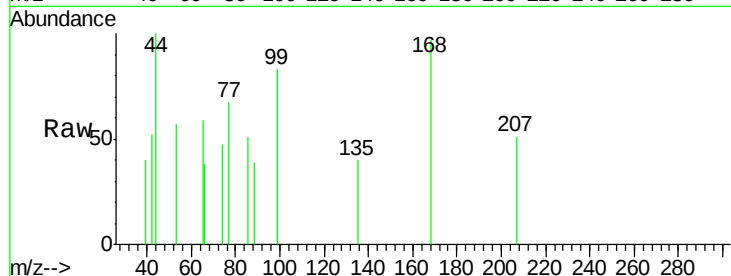
SB-3-A

Tot Ion:168 Resp: 591

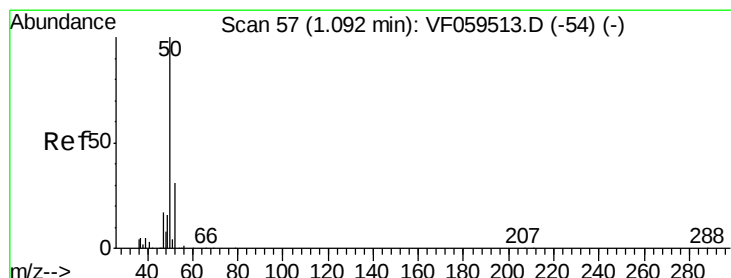
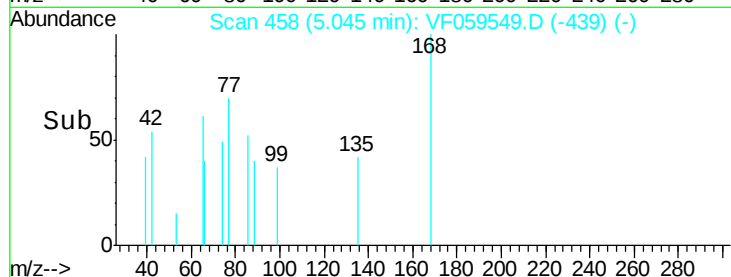
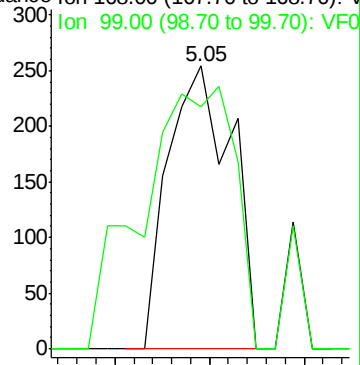
Ion Ratio Lower Upper

168 100

99 85.8 57.6 86.4



Abundance Ion 168.00 (167.70 to 168.70): VF0



#3

Chloromethane

Concen: 47.44 ug/l

RT: 1.11 min Scan# 59

Delta R.T. 0.02 min

Lab File: VF059549.D

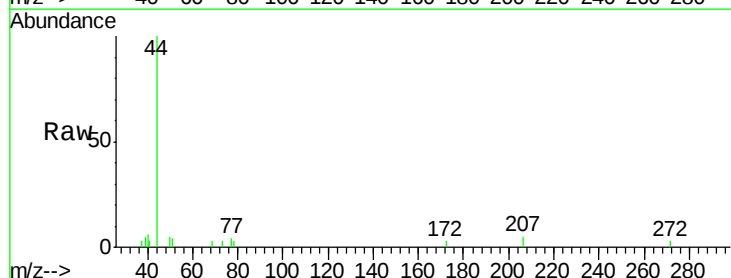
Acq: 19 Jul 2018 9:44

Tgt Ion: 50 Resp: 189

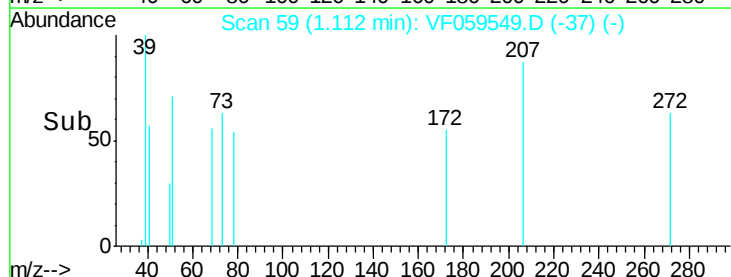
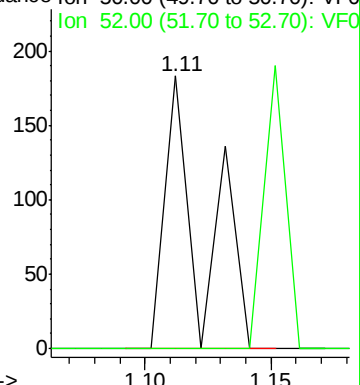
Ion Ratio Lower Upper

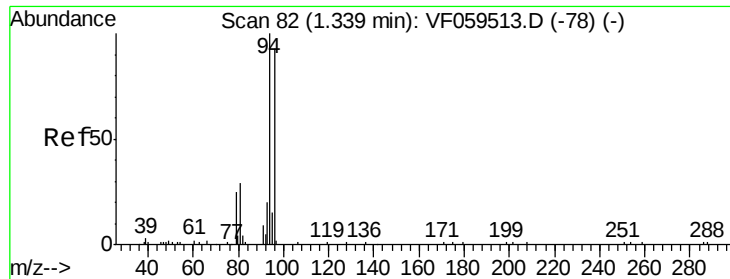
50 100

52 0.0 24.6 37.0#



Abundance Ion 50.00 (49.70 to 50.70): VF0





#5

Bromomethane

Concen: 28.71 ug/l

RT: 1.28 min Scan# 76

Delta R.T. -0.06 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampleId :

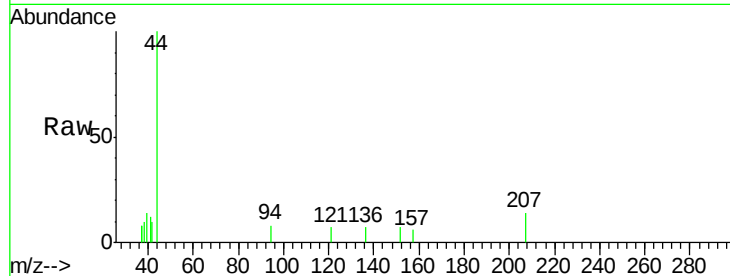
SB-3-A

Tot Ion: 94 Resp: 80

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

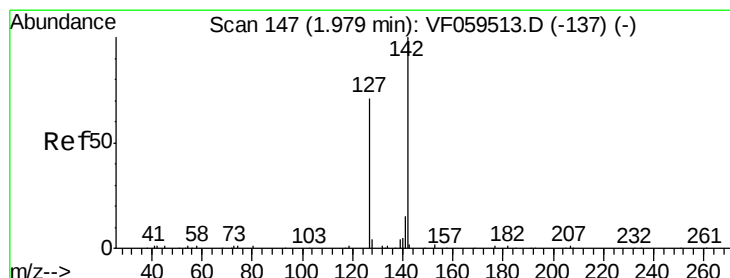
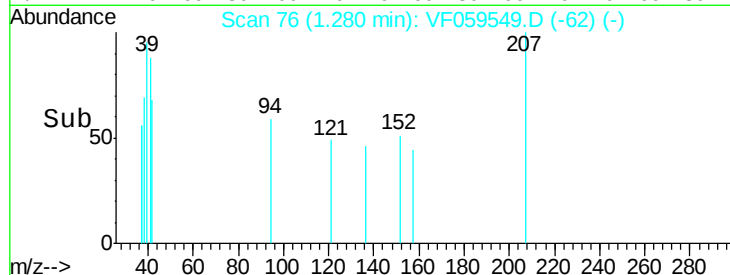
1.28

100

50

0

Time-->



#10

Methyl Iodide

Concen: 13.47 ug/l

RT: 1.86 min Scan# 135

Delta R.T. -0.12 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

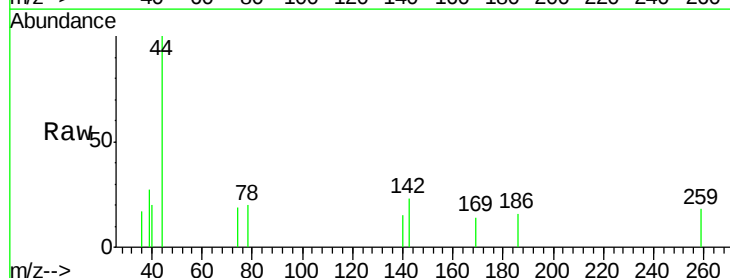
Tgt Ion: 142 Resp: 98

Ion Ratio Lower Upper

142 100

127 0.0 56.4 84.6#

141 0.0 12.0 18.0#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

200

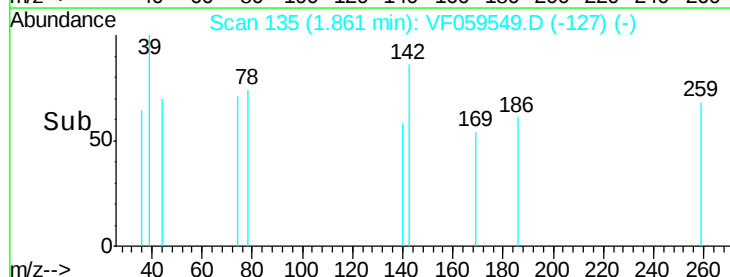
150

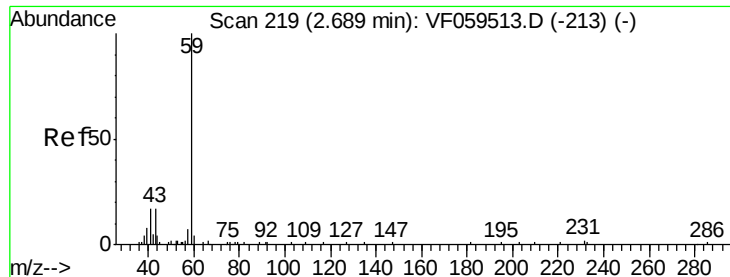
100

50

0

Time-->



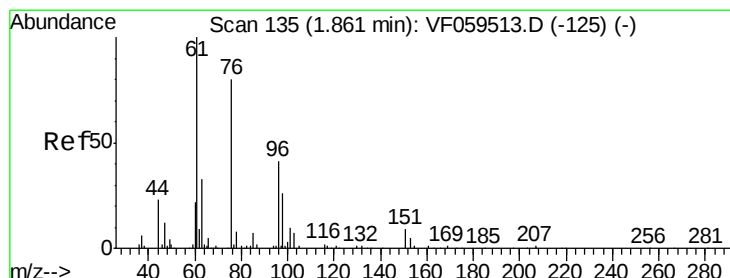
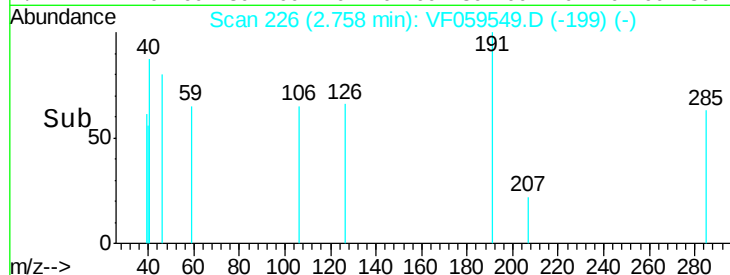
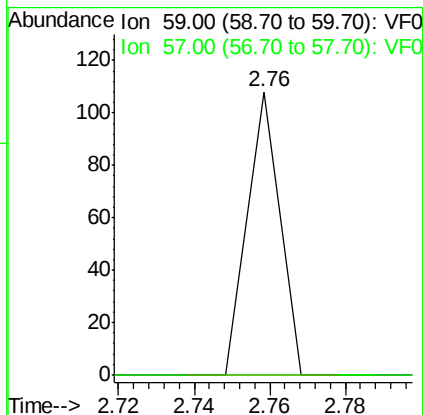
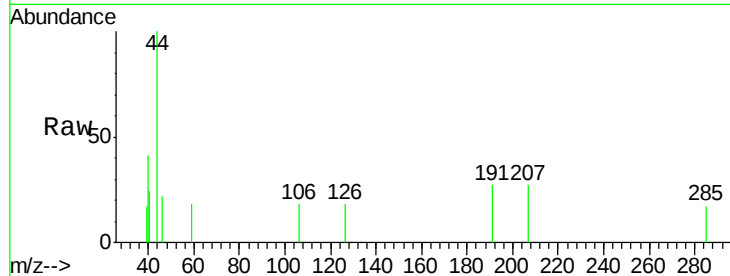


#11

Tert butyl alcohol
Concen: 160.15 ug/l
RT: 2.76 min Scan# 226
Delta R.T. 0.07 min
Lab File: VF059549.D
Acq: 19 Jul 2018 9:44

Instrument :
MSVOA_F
ClientSampled :
SB-3-A

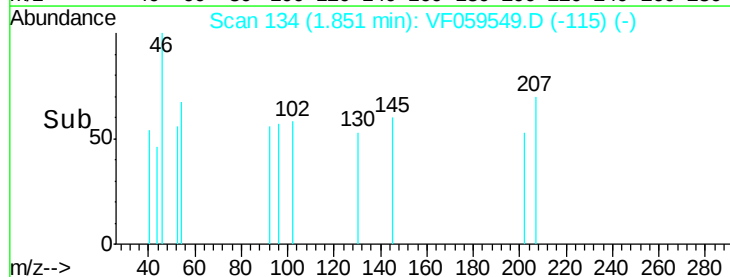
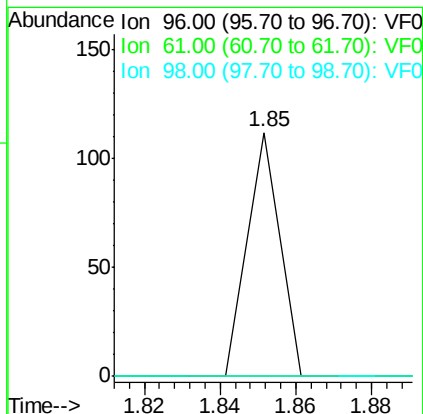
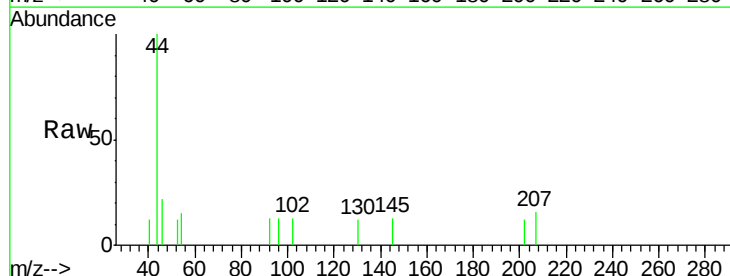
Tot Ion: 59 Resp: 64
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#

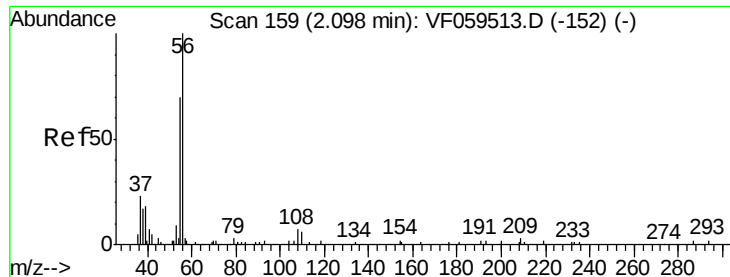


#12

1,1-Dichloroethene
Concen: 14.94 ug/l
RT: 1.85 min Scan# 134
Delta R.T. -0.01 min
Lab File: VF059549.D
Acq: 19 Jul 2018 9:44

Tgt Ion: 96 Resp: 66
Ion Ratio Lower Upper
96 100
61 0.0 194.3 291.5#
98 0.0 50.3 75.5#





#13

Acrolein

Concen: 467.98 ug/l

RT: 2.12 min Scan# 161

Delta R.T. 0.02 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampleId :

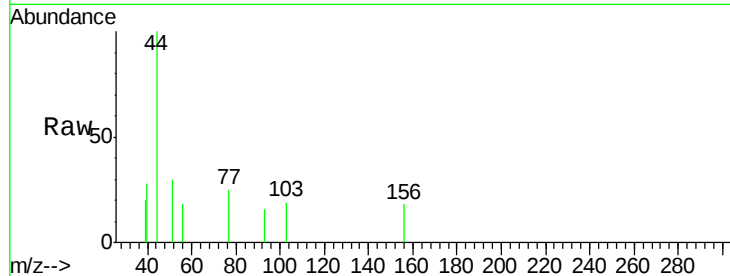
SB-3-A

Tot Ion: 56 Resp: 69

Ion Ratio Lower Upper

56 100

55 0.0 59.4 89.2#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

2.12

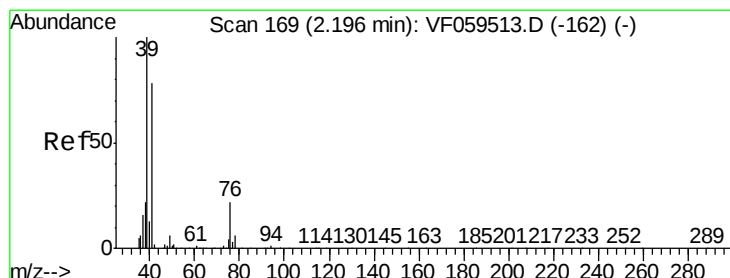
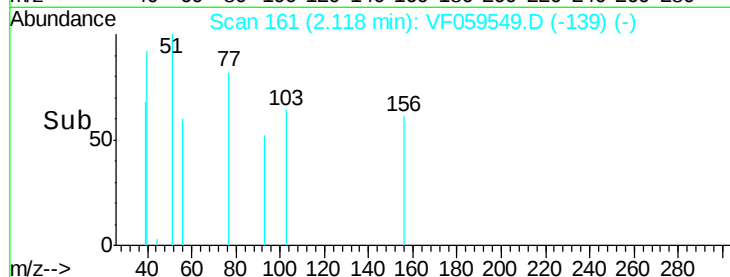
150

100

50

0

Time--> 2.08 2.10 2.12 2.14



#14

Allyl chloride

Concen: 12.51 ug/l

RT: 2.16 min Scan# 165

Delta R.T. -0.04 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

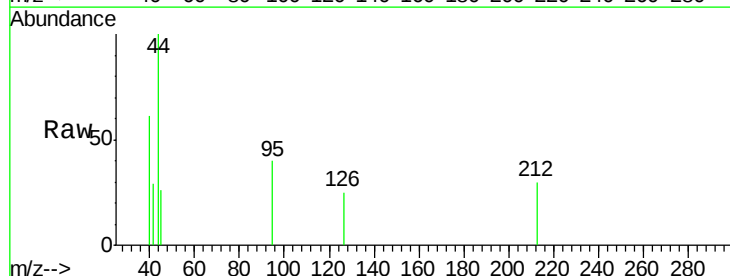
Tgt Ion: 41 Resp: 69

Ion Ratio Lower Upper

41 100

39 0.0 103.0 154.4#

76 0.0 22.6 34.0#



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

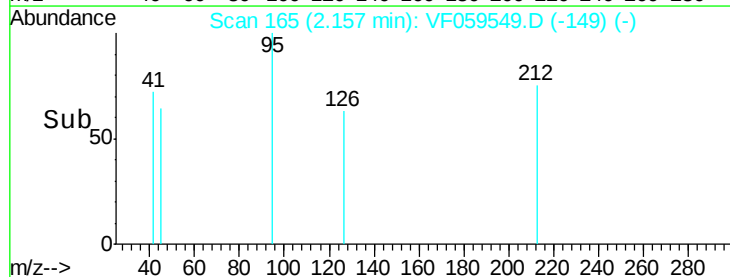
150

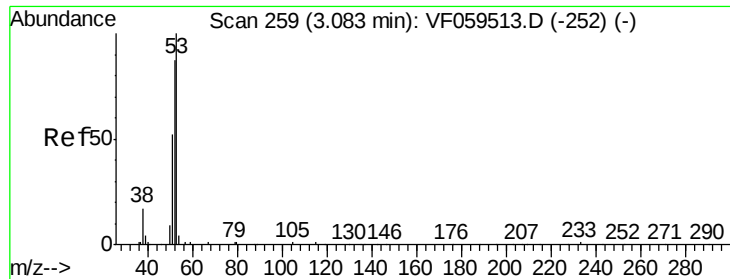
100

50

0

Time--> 2.12 2.14 2.16 2.18





#15

Acrylonitrile

Concen: 84.29 ug/l

RT: 3.07 min Scan# 258

Delta R.T. -0.01 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

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ClientSampled :

SB-3-A

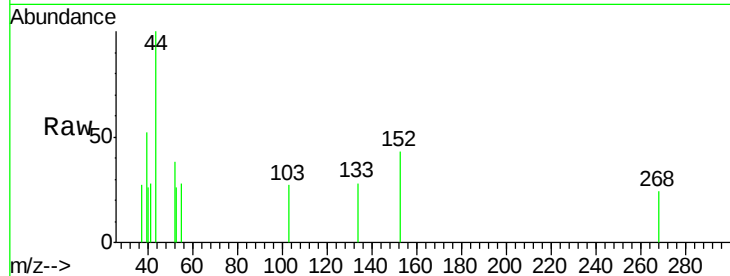
Tot Ion: 53 Resp: 65

Ion Ratio Lower Upper

53 100

52 144.5 70.1 105.1#

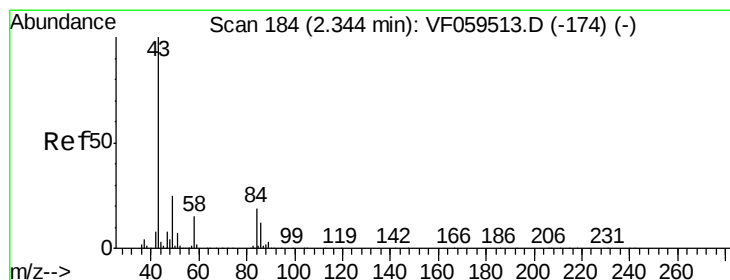
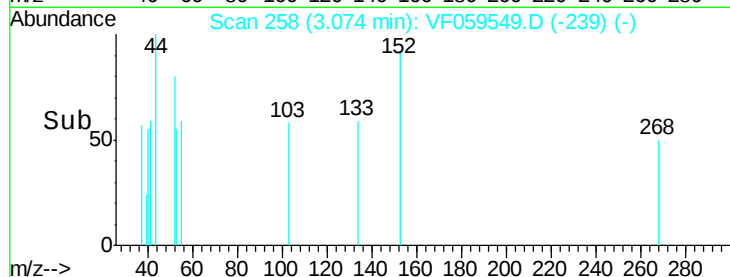
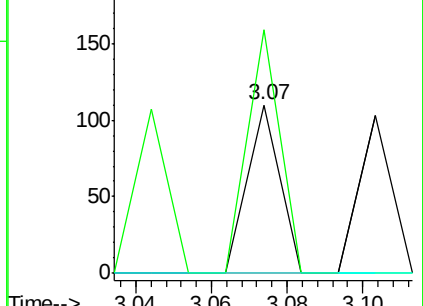
51 0.0 42.5 63.7#



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: 17.32 ug/l

RT: 2.25 min Scan# 174

Delta R.T. -0.10 min

Lab File: VF059549.D

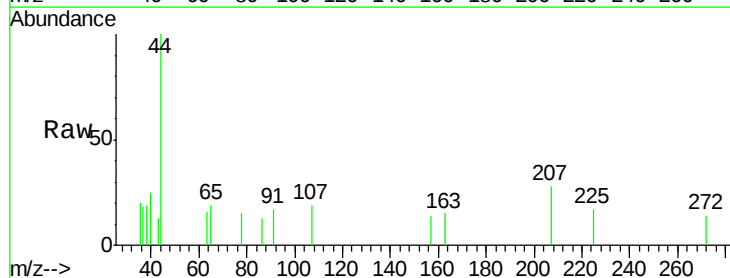
Acq: 19 Jul 2018 9:44

Tgt Ion: 43 Resp: 59

Ion Ratio Lower Upper

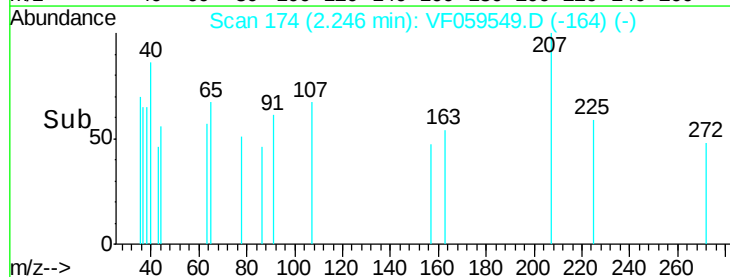
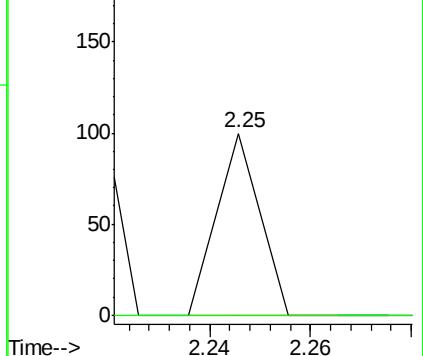
43 100

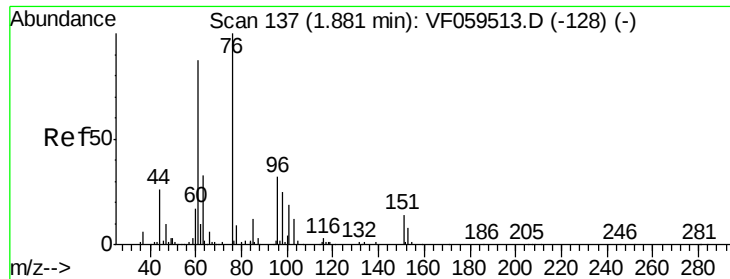
58 0.0 11.8 17.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

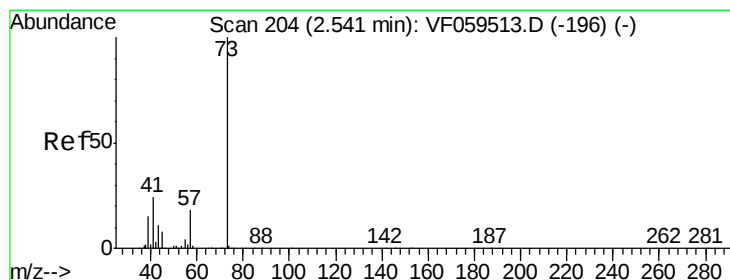
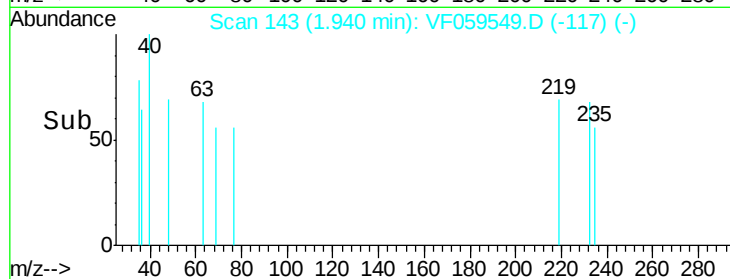
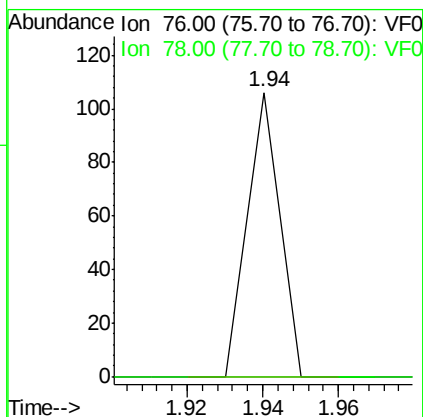
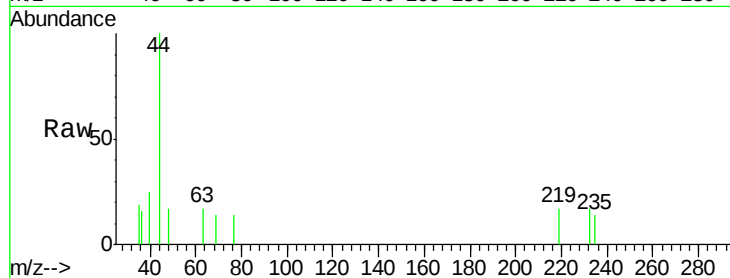




#17
Carbon Disulfide
Concen: 5.56 ug/l
RT: 1.94 min Scan# 143
Delta R.T. 0.06 min
Lab File: VF059549.D
Acq: 19 Jul 2018 9:44

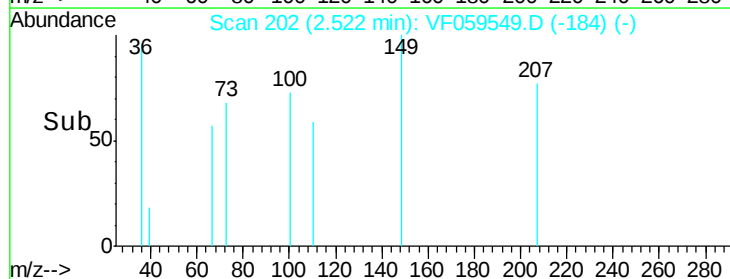
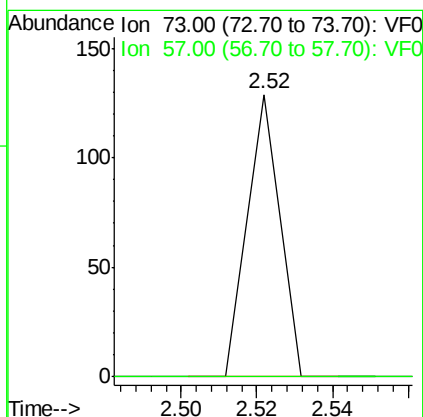
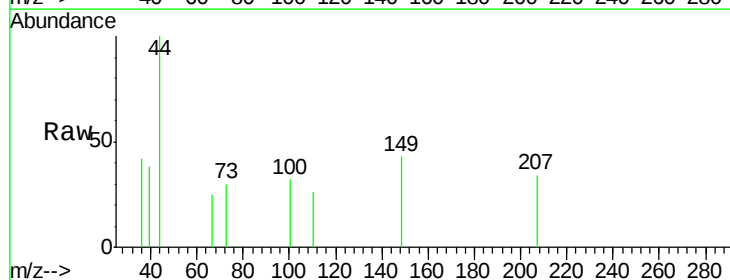
Instrument :
MSVOA_F
ClientSampled :
SB-3-A

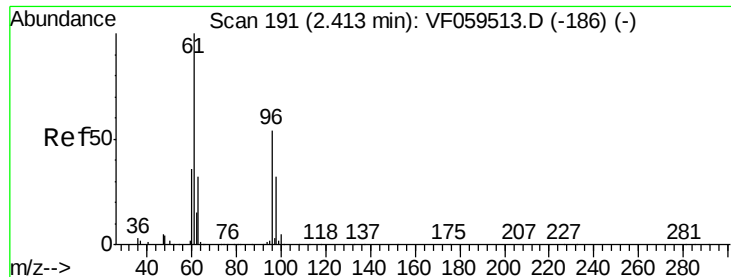
Tot Ion: 76 Resp: 63
Ion Ratio Lower Upper
76 100
78 0.0 7.8 11.6#



#19
Methyl tert-butyl Ether
Concen: 5.48 ug/l
RT: 2.52 min Scan# 202
Delta R.T. -0.02 min
Lab File: VF059549.D
Acq: 19 Jul 2018 9:44

Tgt Ion: 73 Resp: 76
Ion Ratio Lower Upper
73 100
57 0.0 14.3 21.5#





#21

trans-1,2-Dichloroethene

Concen: 20.32 ug/l

RT: 2.33 min Scan# 183

Delta R.T. -0.08 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampleId :

SB-3-A

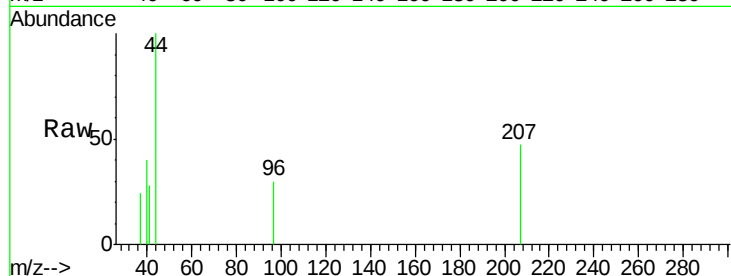
Tot Ion: 96 Resp: 83

Ion Ratio Lower Upper

96 100

61 0.0 149.8 224.8#

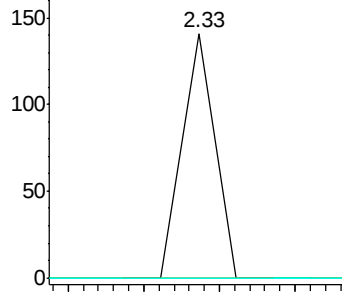
98 0.0 47.8 71.8#



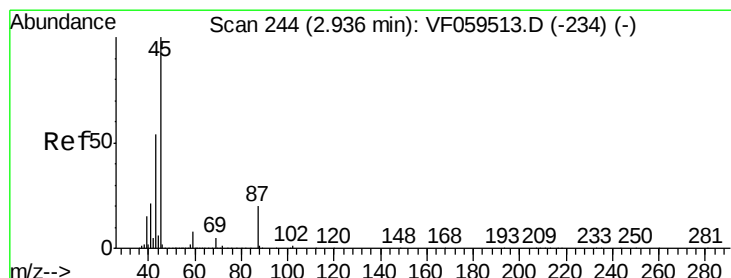
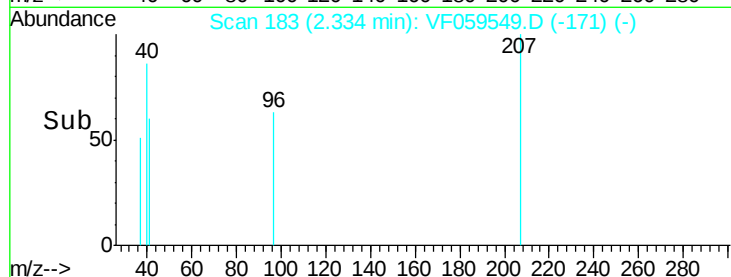
Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



Time-->



#22

Diisopropyl ether

Concen: 8.84 ug/l

RT: 2.91 min Scan# 241

Delta R.T. -0.03 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Tgt Ion: 45 Resp: 137

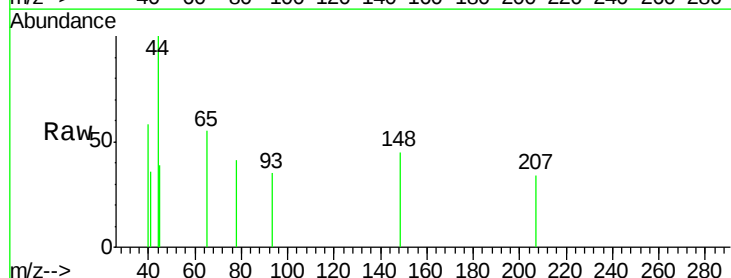
Ion Ratio Lower Upper

45 100

43 0.0 43.6 65.4#

87 0.0 15.6 23.4#

59 0.0 6.4 9.6#

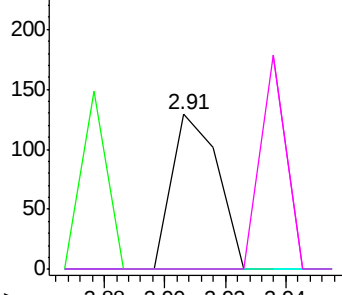


Abundance Ion 45.00 (44.70 to 45.70): VF0

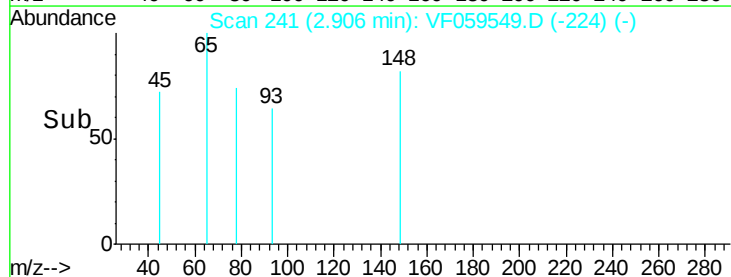
Ion 43.00 (42.70 to 43.70): VF0

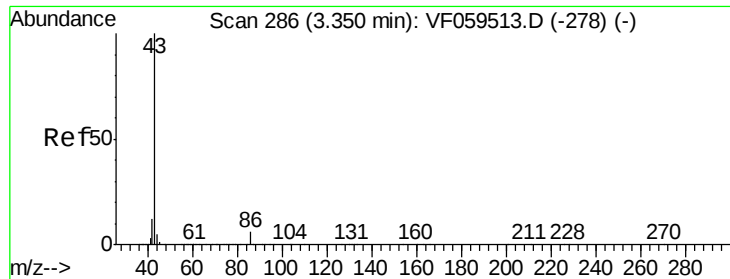
Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0



Time-->





#23

Vinyl Acetate

Concen: 8.94 ug/l

RT: 3.35 min Scan# 286

Delta R.T. 0.00 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampled :

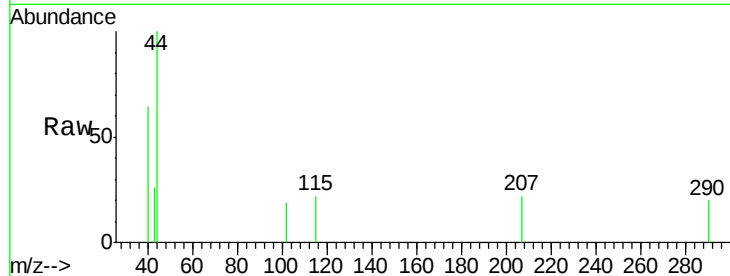
SB-3-A

Tot Ion: 43 Resp: 81

Ion Ratio Lower Upper

43 100

86 0.0 4.4 6.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.35

150

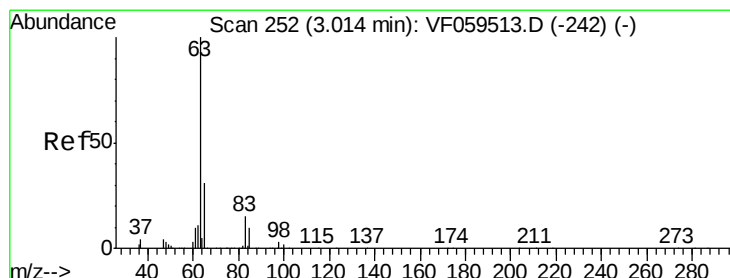
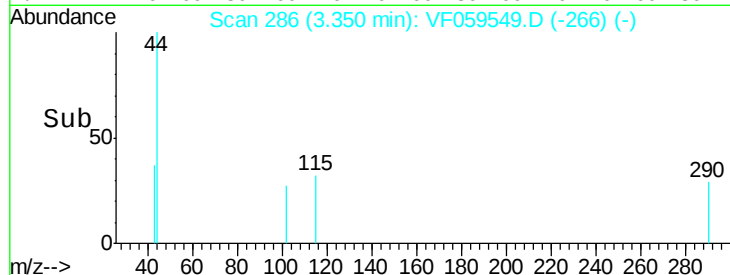
100

50

0

Time-->

3.32 3.34 3.36 3.38



#24

1,1-Dichloroethane

Concen: 12.43 ug/l

RT: 2.95 min Scan# 245

Delta R.T. -0.07 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

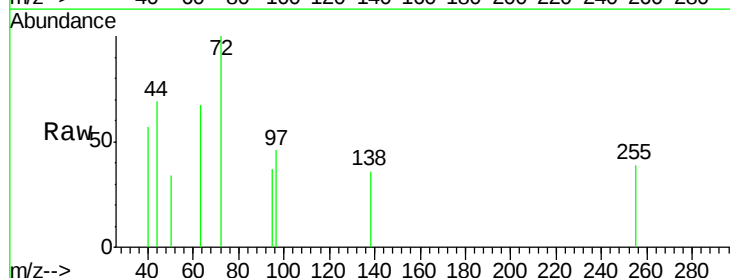
Tgt Ion: 63 Resp: 119

Ion Ratio Lower Upper

63 100

98 0.0 1.8 5.4#

100 0.0 1.3 3.8#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

250

200

150

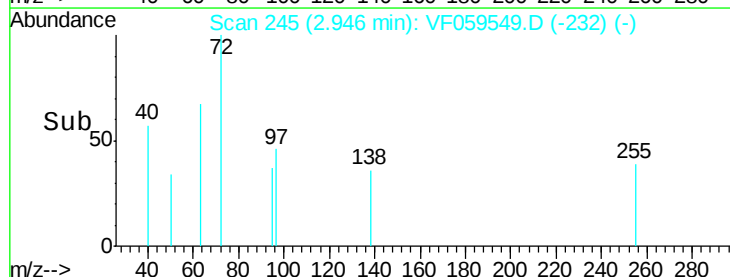
100

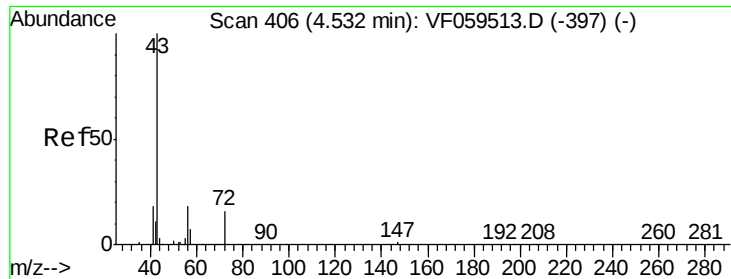
50

0

Time-->

2.92 2.94 2.96





#25

2-Butanone

Concen: 82.47 ug/l

RT: 4.59 min Scan# 412

Delta R.T. 0.06 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampled :

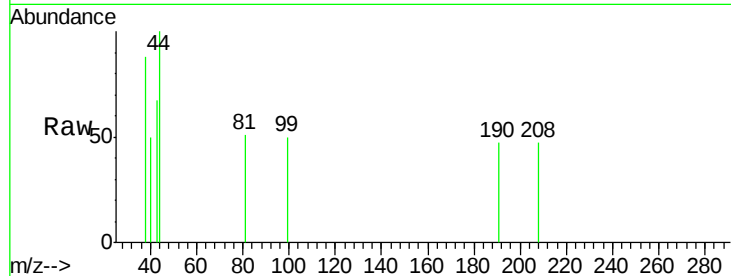
SB-3-A

Tot Ion: 43 Resp: 176

Ion Ratio Lower Upper

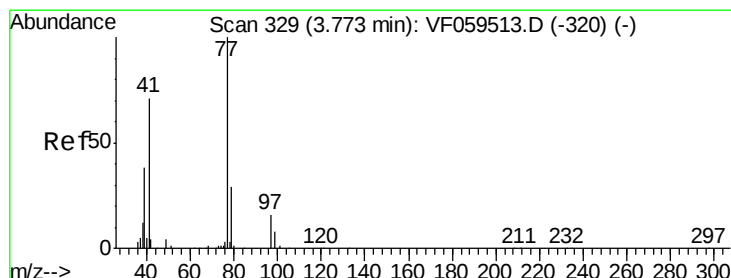
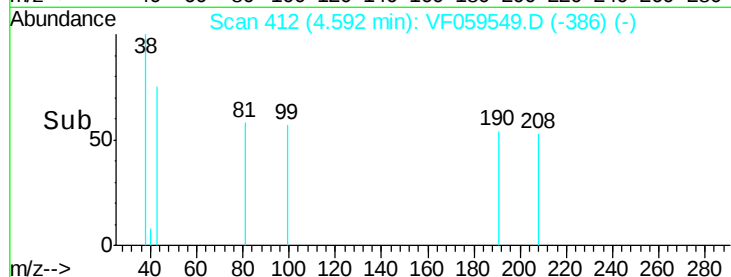
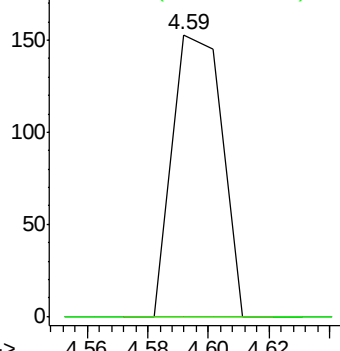
43 100

72 0.0 14.2 21.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 11.37 ug/l

RT: 3.71 min Scan# 323

Delta R.T. -0.06 min

Lab File: VF059549.D

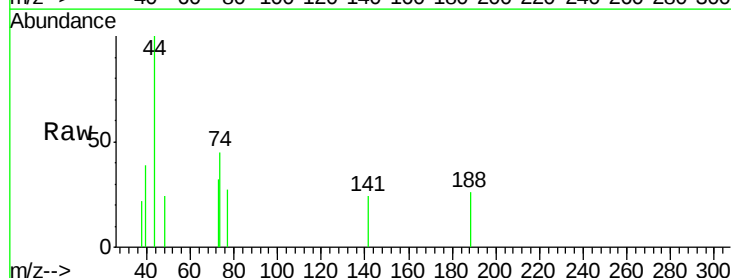
Acq: 19 Jul 2018 9:44

Tgt Ion: 77 Resp: 72

Ion Ratio Lower Upper

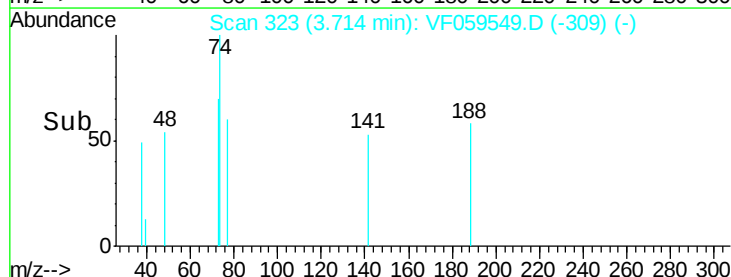
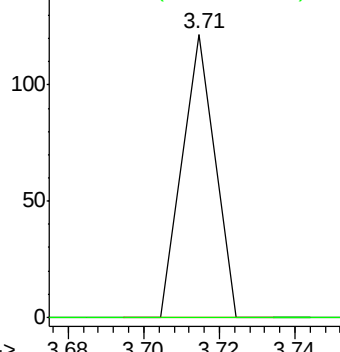
77 100

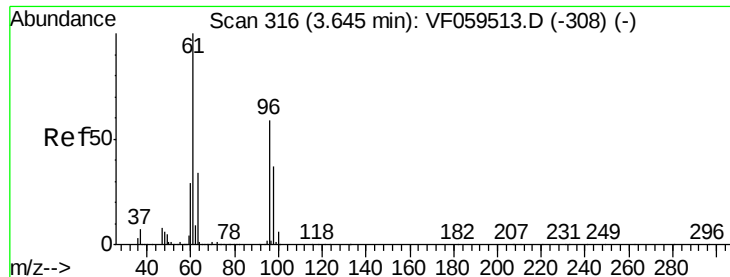
97 0.0 8.1 24.3#



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: 15.77 ug/l

RT: 3.58 min Scan# 309

Delta R.T. -0.07 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampleId :

SB-3-A

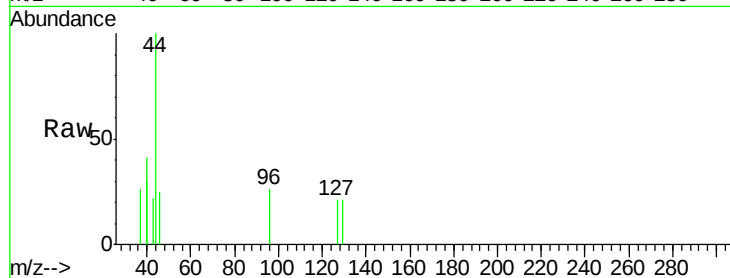
Tot Ion: 96 Resp: 75

Ion Ratio Lower Upper

96 100

61 0.0 0.0 339.0

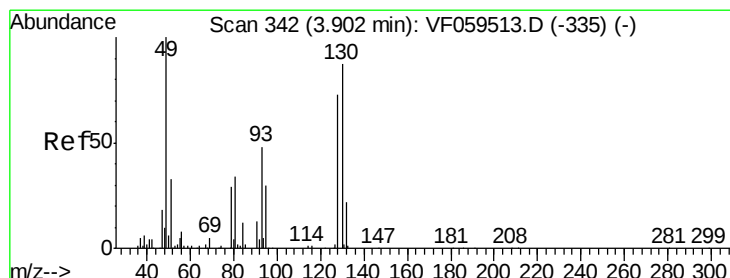
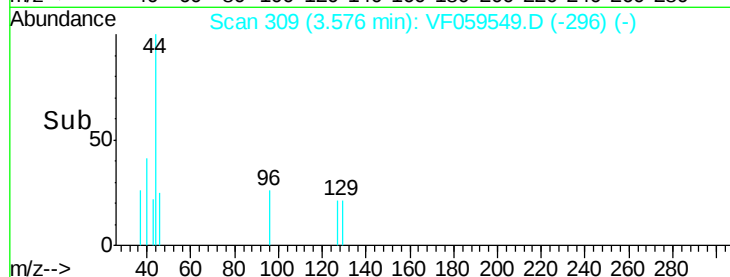
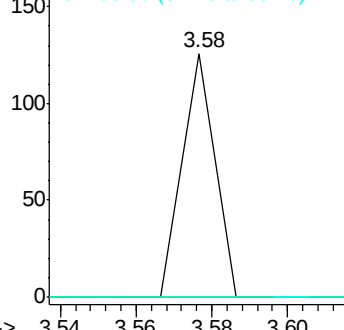
98 0.0 0.0 125.4



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



#28

Bromochloromethane

Concen: 15.67 ug/l

RT: 3.74 min Scan# 326

Delta R.T. -0.16 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

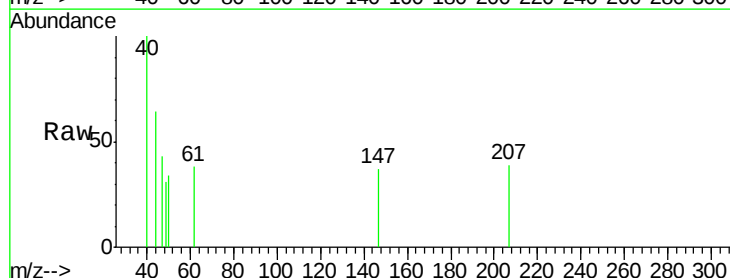
Tgt Ion: 49 Resp: 66

Ion Ratio Lower Upper

49 100

129 0.0 0.0 0.0

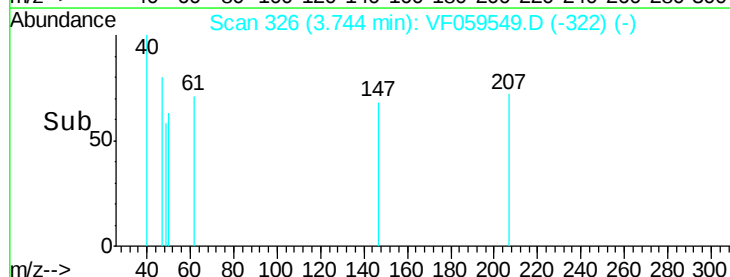
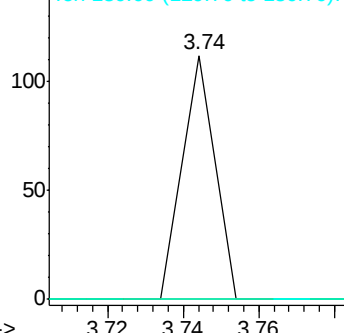
130 0.0 69.8 104.6#

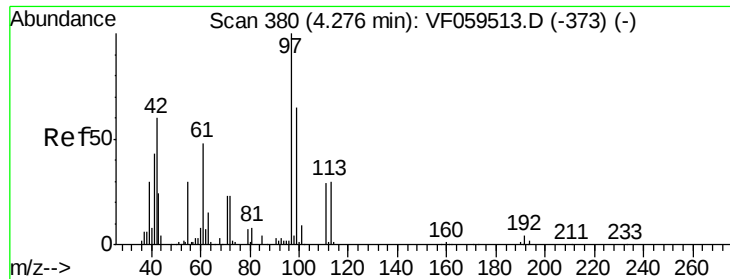


Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 243.57 ug/l

RT: 4.25 min Scan# 377

Delta R.T. -0.03 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampled :

SB-3-A

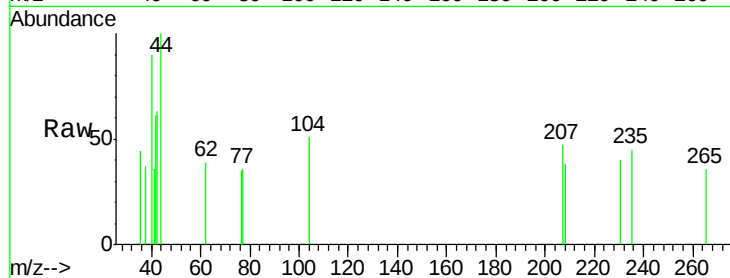
Tot Ion: 42 Resp: 212

Ion Ratio Lower Upper

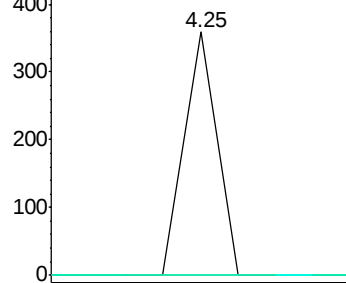
42 100

72 0.0 28.7 43.1#

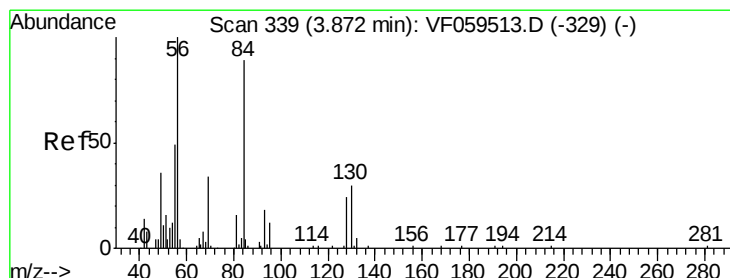
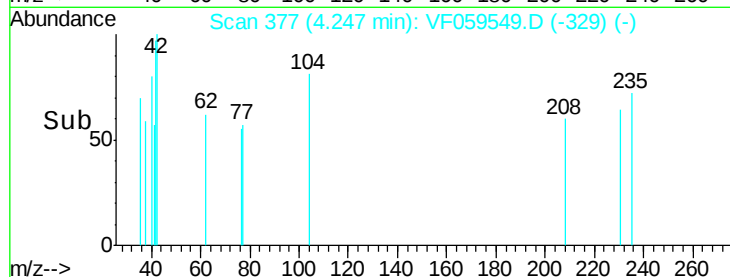
71 0.0 30.8 46.2#



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



Time-->



#31

Cyclohexane

Concen: 24.81 ug/l

RT: 3.90 min Scan# 342

Delta R.T. 0.03 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

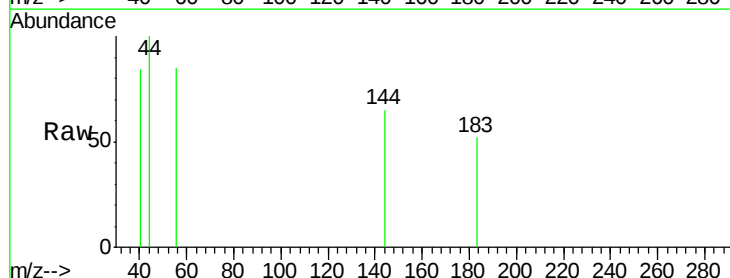
Tgt Ion: 56 Resp: 123

Ion Ratio Lower Upper

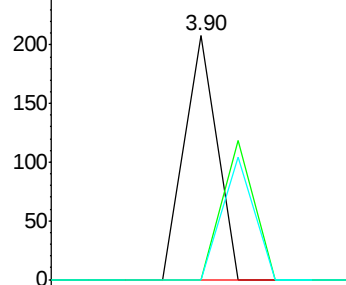
56 100

69 0.0 27.6 41.4#

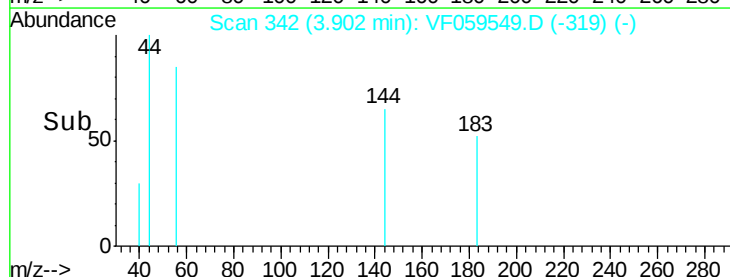
84 0.0 71.4 107.2#

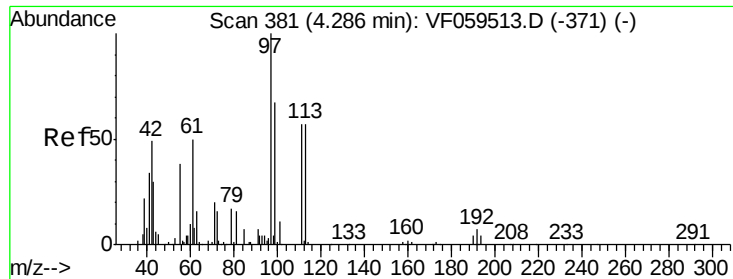


Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0



Time-->





#32

1,1,1-Trichloroethane

Concen: 9.57 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.00 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampleId :

SB-3-A

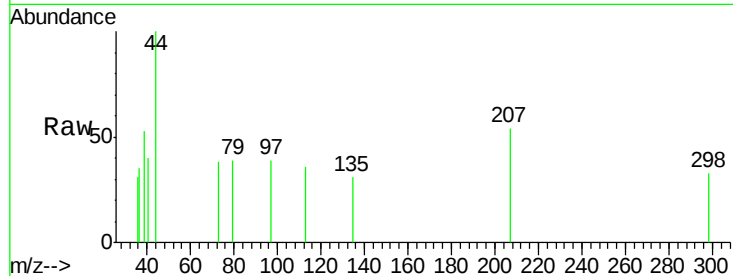
Tot Ion: 97 Resp: 86

Ion Ratio Lower Upper

97 100

99 0.0 53.5 80.3#

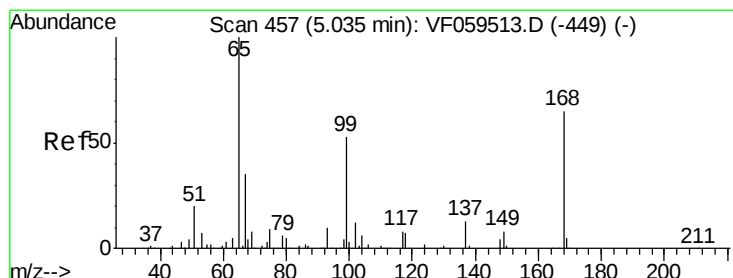
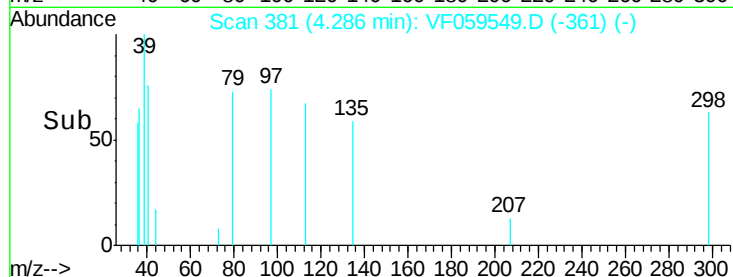
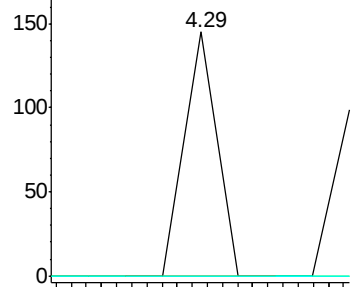
61 0.0 39.7 59.5#



Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 20.24 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.01 min

Lab File: VF059549.D

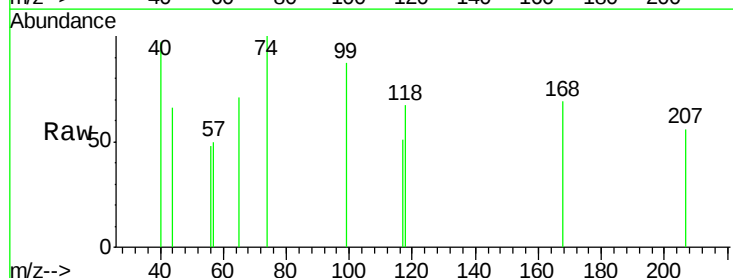
Acq: 19 Jul 2018 9:44

Tgt Ion: 65 Resp: 186

Ion Ratio Lower Upper

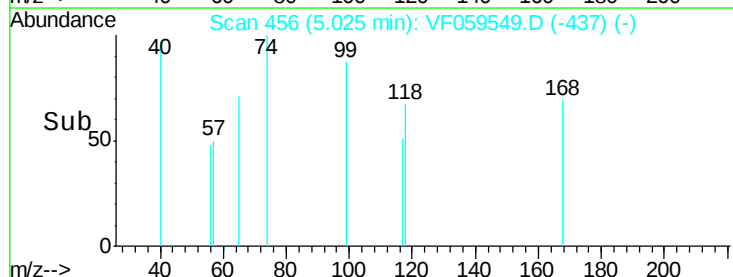
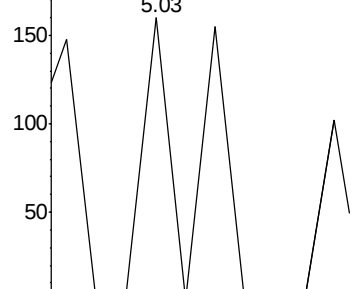
65 100

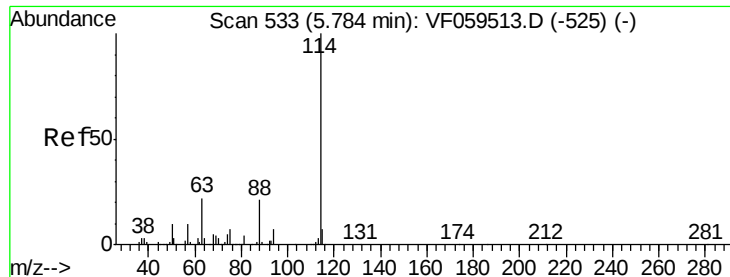
67 0.0 0.0 91.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.77 min Scan# 532

Delta R.T. -0.01 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampleId :

SB-3-A

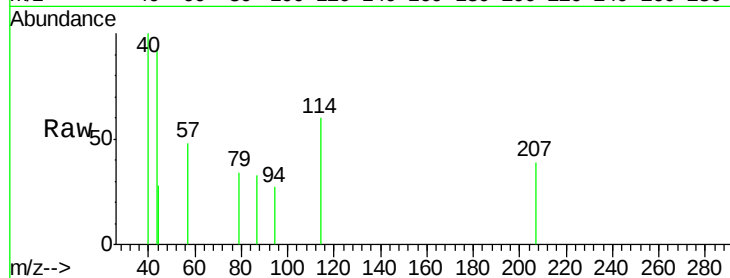
Tot Ion:114 Resp: 737

Ion Ratio Lower Upper

114 100

63 0.0 0.0 44.8

88 0.0 0.0 42.6

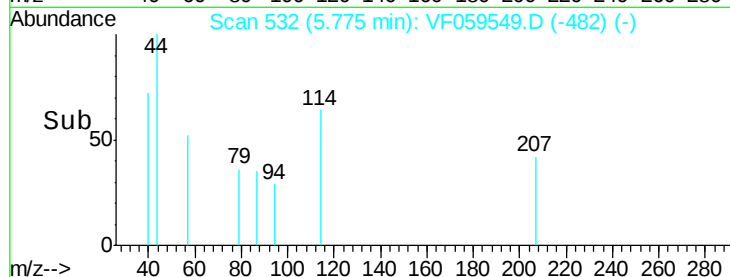


Abundance Ion 114.00 (113.70 to 114.70): V

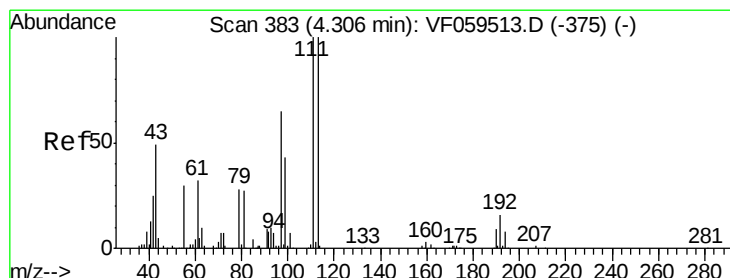
Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

Time-->



Time-->



#35

Dibromofluoromethane

Concen: 40.73 ug/l

RT: 4.30 min Scan# 382

Delta R.T. -0.01 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

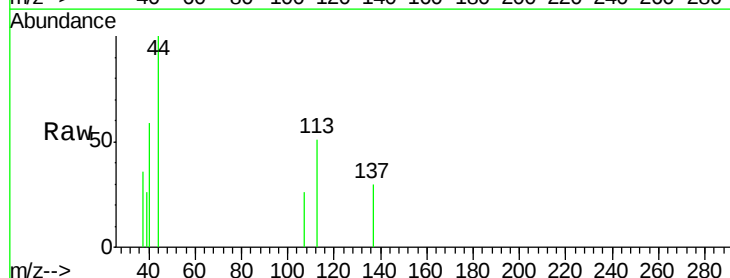
Tgt Ion:113 Resp: 260

Ion Ratio Lower Upper

113 100

111 0.0 80.3 120.5#

192 0.0 13.1 19.7#

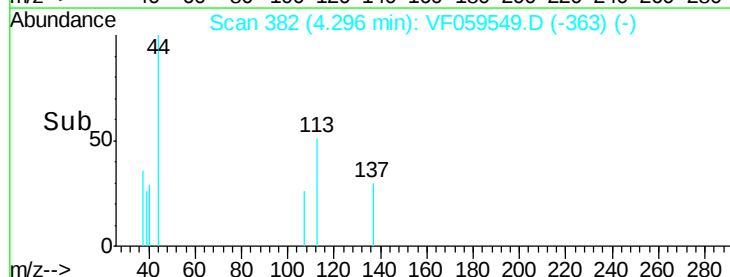


Abundance Ion 113.00 (112.70 to 113.70): V

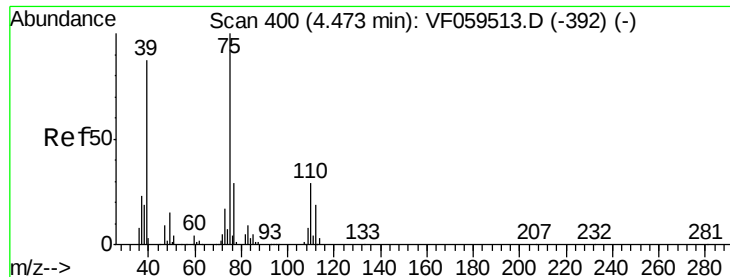
Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

Time-->



Time-->



#36

1,1-Dichloropropene

Concen: 9.22 ug/l

RT: 4.41 min Scan# 394

Delta R.T. -0.06 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampleId :

SB-3-A

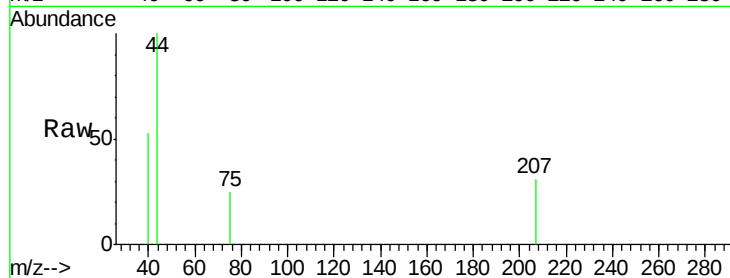
Tot Ion: 75 Resp: 68

Ion Ratio Lower Upper

75 100

110 0.0 14.6 43.8#

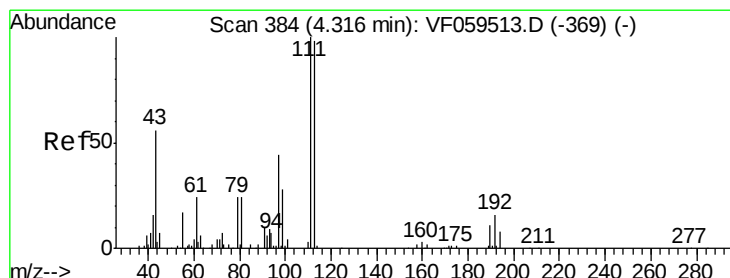
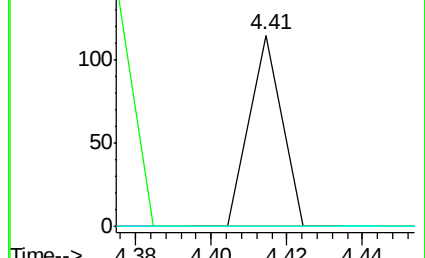
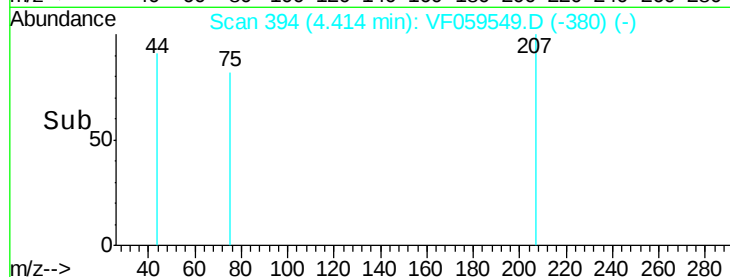
77 0.0 23.7 35.5#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#37

Ethyl Acetate

Concen: 44.41 ug/l

RT: 4.32 min Scan# 384

Delta R.T. 0.00 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

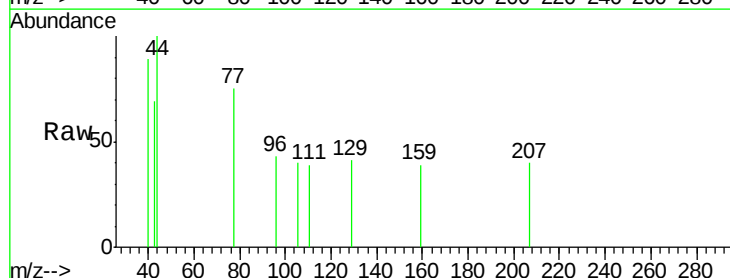
Tgt Ion: 43 Resp: 179

Ion Ratio Lower Upper

43 100

61 0.0 33.7 50.5#

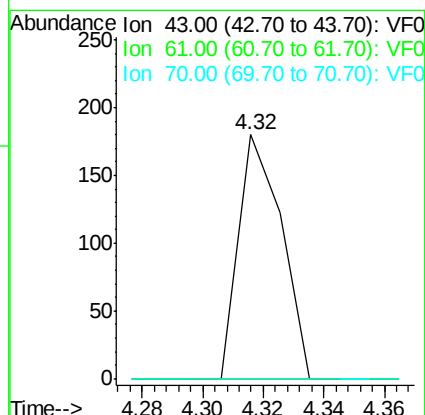
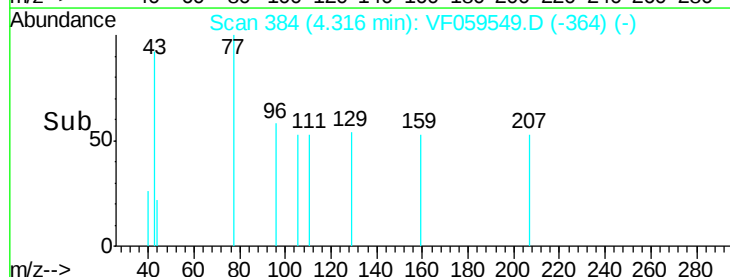
70 0.0 7.4 11.0#

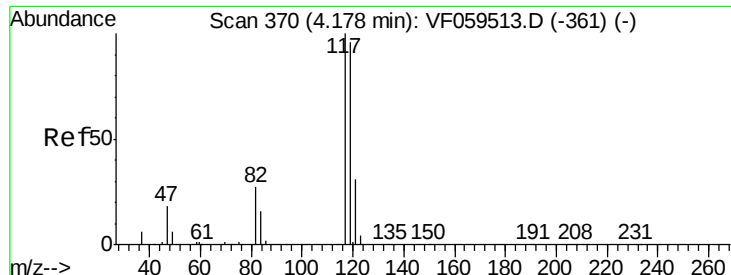


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0





#38

Carbon Tetrachloride

Concen: 11.36 ug/l

RT: 4.33 min Scan# 385

Delta R.T. 0.15 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampleId :

SB-3-A

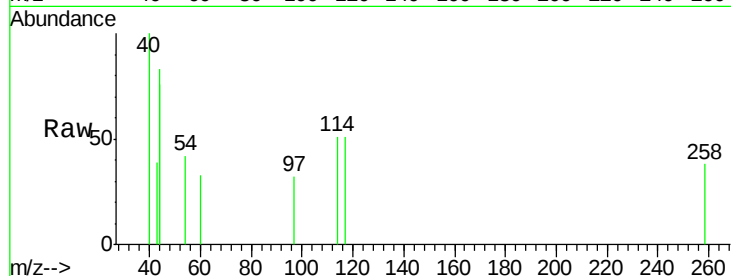
Tot Ion:117 Resp: 96

Ion Ratio Lower Upper

117 100

119 0.0 77.6 116.4#

121 0.0 24.9 37.3#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

4.33

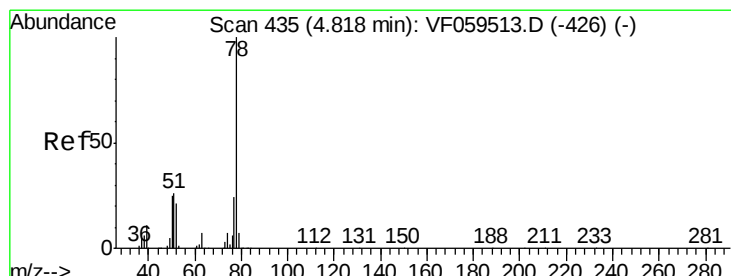
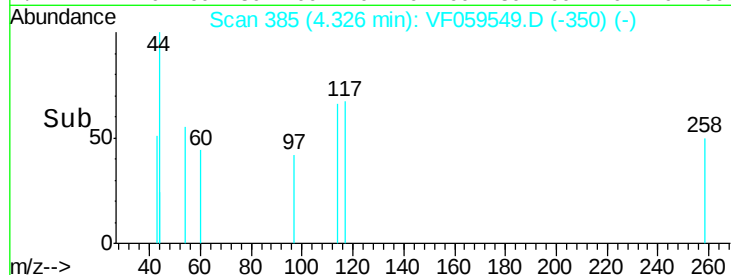
150

100

50

0

Time-->



#40

Benzene

Concen: 13.91 ug/l

RT: 4.93 min Scan# 446

Delta R.T. 0.11 min

Lab File: VF059549.D

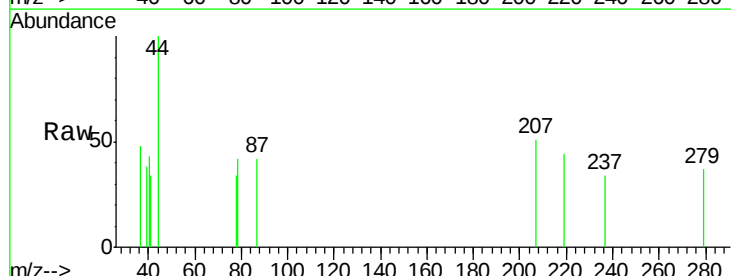
Acq: 19 Jul 2018 9:44

Tgt Ion: 78 Resp: 199

Ion Ratio Lower Upper

78 100

77 0.0 19.4 29.0#



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0

250

200

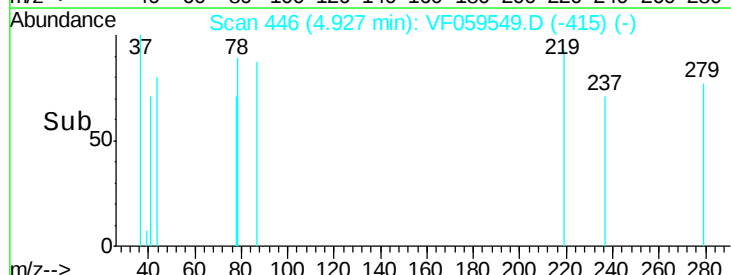
150

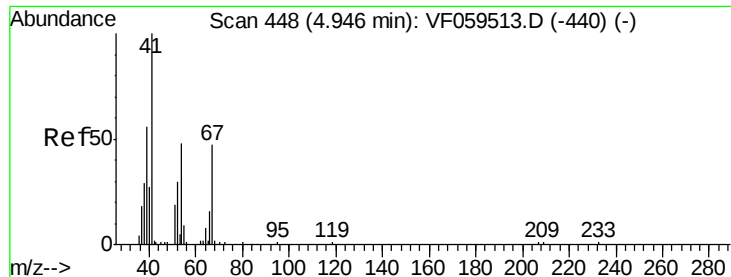
100

50

0

Time-->

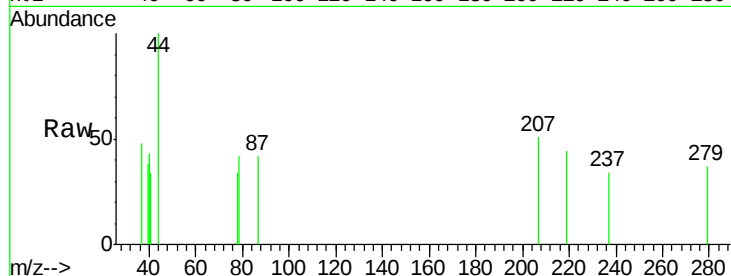




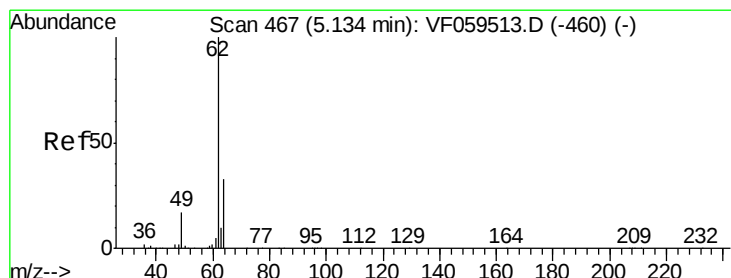
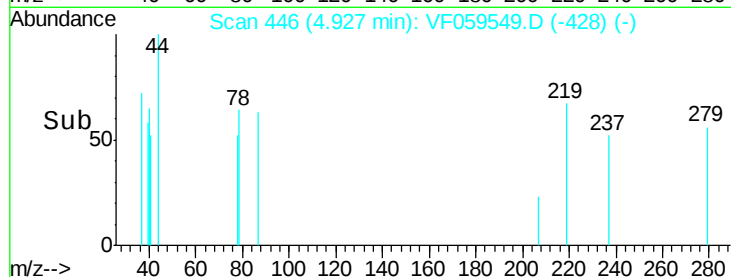
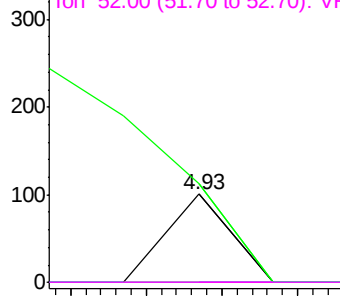
#41
Methacrylonitrile
Concen: 28.36 ug/l
RT: 4.93 min Scan# 446
Delta R.T. -0.02 min
Lab File: VF059549.D
Acq: 19 Jul 2018 9:44

Instrument :
MSVOA_F
ClientSampleId :
SB-3-A

Tot Ion:	41	Resp:	60
Ion	Ratio	Lower	Upper
41	100		
39	111.9	49.4	74.0#
67	0.0	37.4	56.2#
52	0.0	32.1	48.1#

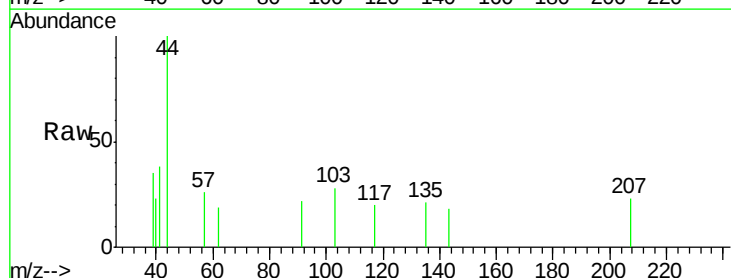


Abundance Ion 41.00 (40.70 to 41.70): VF0
Ion 39.00 (38.70 to 39.70): VF0
Ion 67.00 (66.70 to 67.70): VF0
Ion 52.00 (51.70 to 52.70): VF0

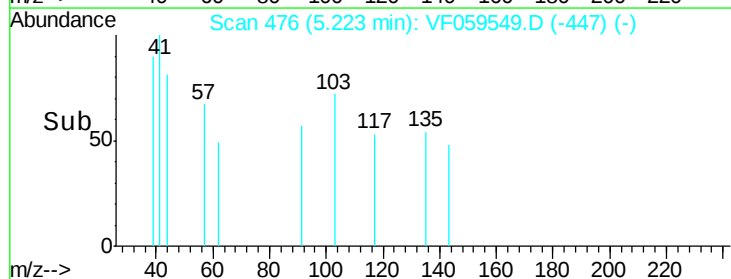
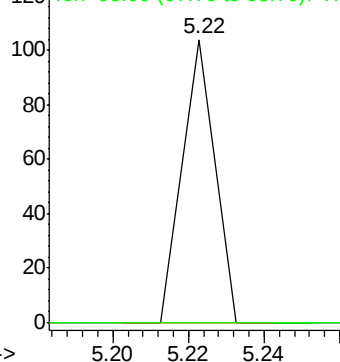


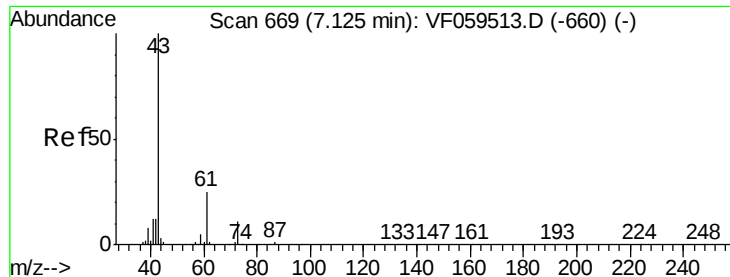
#42
1,2-Dichloroethane
Concen: 6.60 ug/l
RT: 5.22 min Scan# 476
Delta R.T. 0.09 min
Lab File: VF059549.D
Acq: 19 Jul 2018 9:44

Tgt Ion:	62	Resp:	62
Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	9.6



Abundance Ion 62.00 (61.70 to 62.70): VF0
Ion 98.00 (97.70 to 98.70): VF0





#43

Isopropyl Acetate

Concen: 21.69 ug/l

RT: 7.13 min Scan# 670

Delta R.T. 0.01 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampled :

SB-3-A

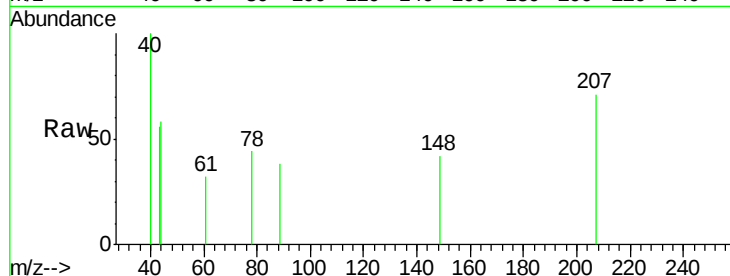
Tot Ion: 43 Resp: 115

Ion Ratio Lower Upper

43 100

61 57.2 20.3 30.5#

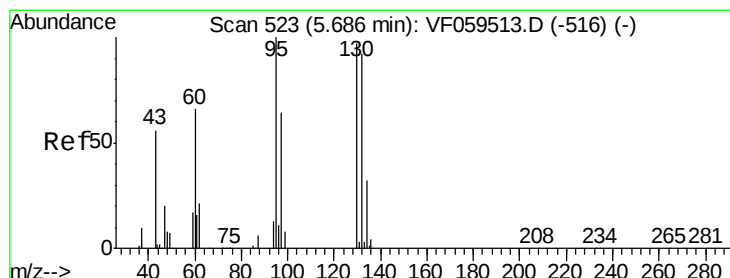
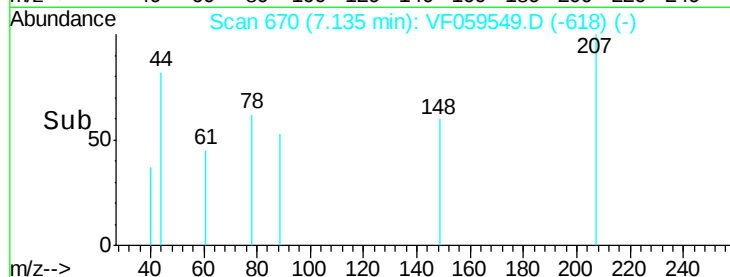
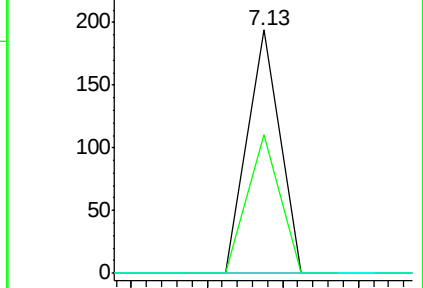
87 0.0 0.4 0.6#



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



#44

Trichloroethene

Concen: 11.70 ug/l

RT: 5.64 min Scan# 518

Delta R.T. -0.05 min

Lab File: VF059549.D

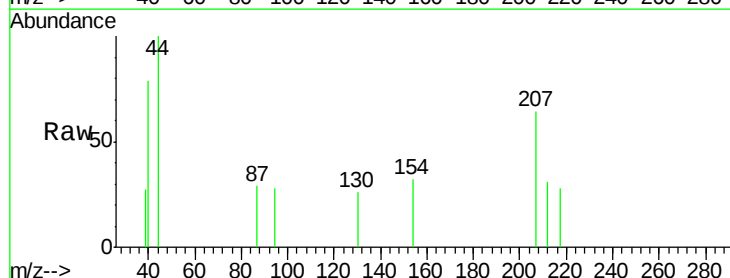
Acq: 19 Jul 2018 9:44

Tgt Ion:130 Resp: 62

Ion Ratio Lower Upper

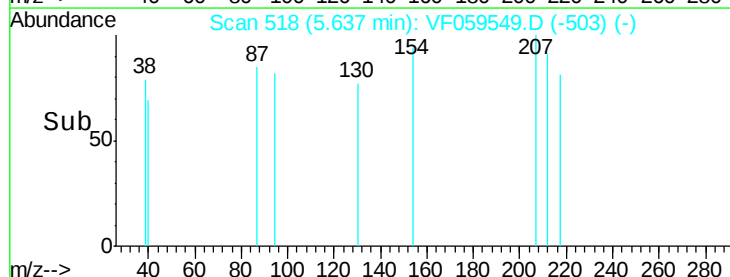
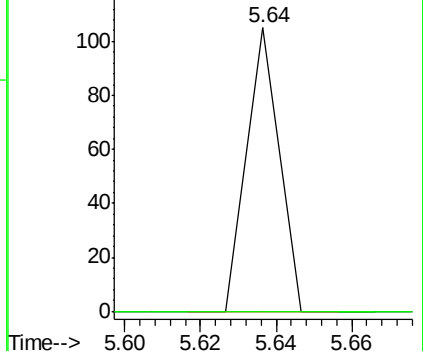
130 100

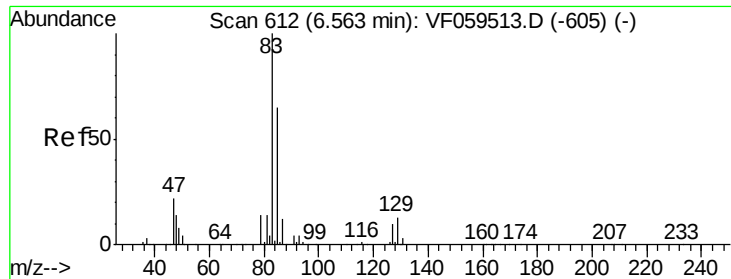
95 0.0 0.0 206.6



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#47

Bromodichloromethane

Concen: 7.95 ug/l

RT: 6.45 min Scan# 601

Delta R.T. -0.11 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampleId :

SB-3-A

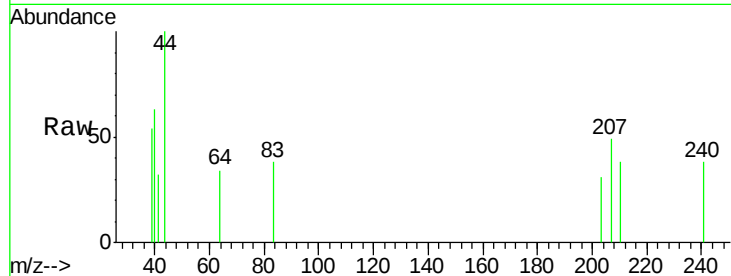
Tot Ion: 83 Resp: 74

Ion Ratio Lower Upper

83 100

85 0.0 52.4 78.6#

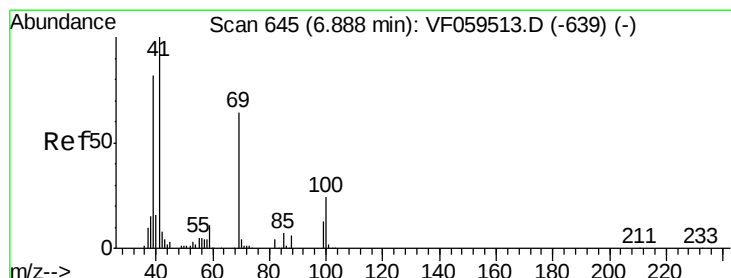
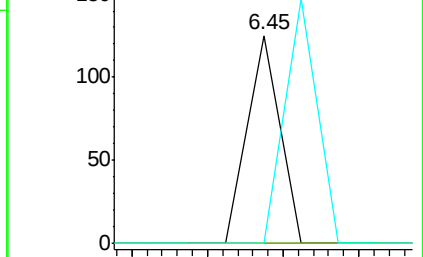
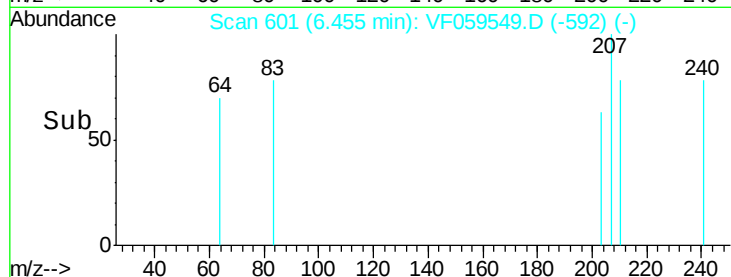
127 0.0 8.2 12.4#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 63.13 ug/l

RT: 6.89 min Scan# 645

Delta R.T. 0.00 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

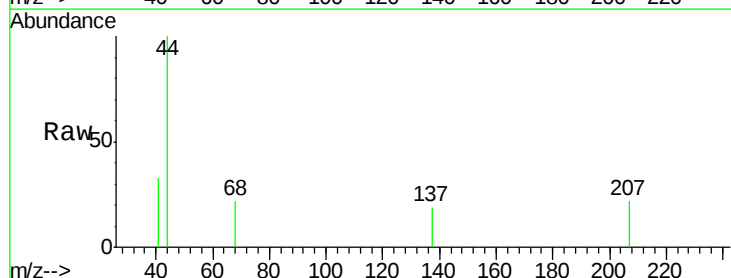
Tgt Ion: 41 Resp: 239

Ion Ratio Lower Upper

41 100

69 0.0 51.3 76.9#

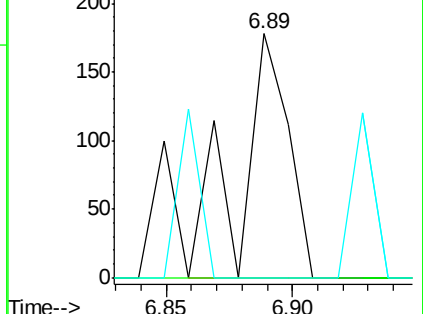
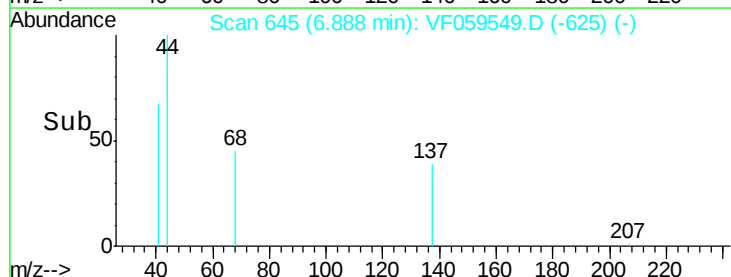
39 0.0 65.3 97.9#

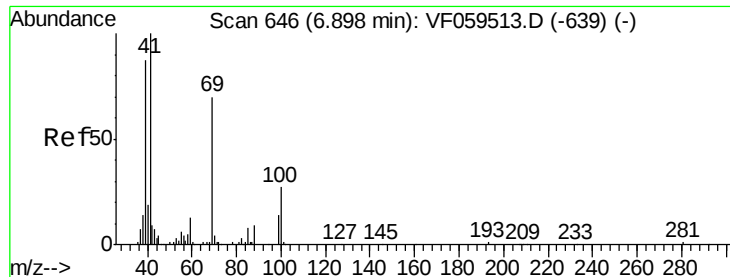


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: Below Cal

RT: 6.93 min Scan# 649

Delta R.T. 0.03 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampleId :

SB-3-A

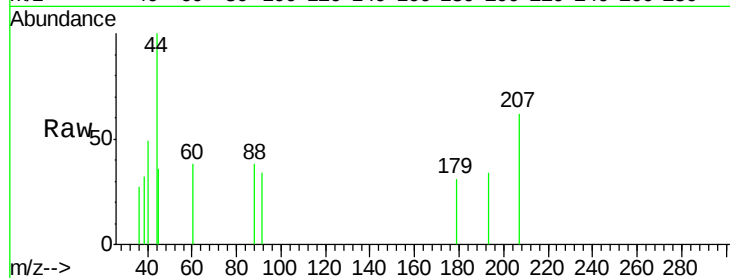
Tot Ion: 88 Resp: 86

Ion Ratio Lower Upper

88 100

43 0.0 64.8 97.2#

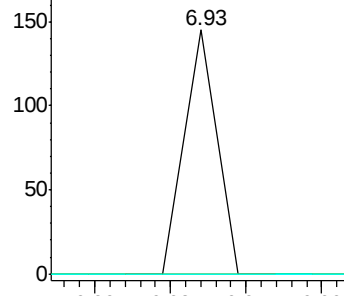
58 0.0 44.1 66.1#



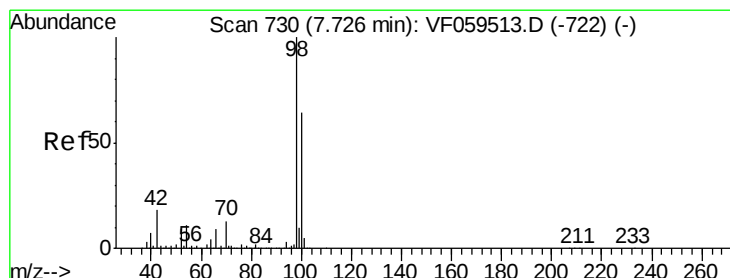
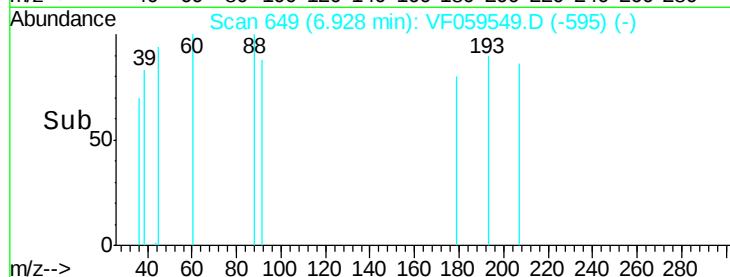
Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->



#50

Toluene-d8

Concen: 42.11 ug/l

RT: 7.73 min Scan# 730

Delta R.T. 0.00 min

Lab File: VF059549.D

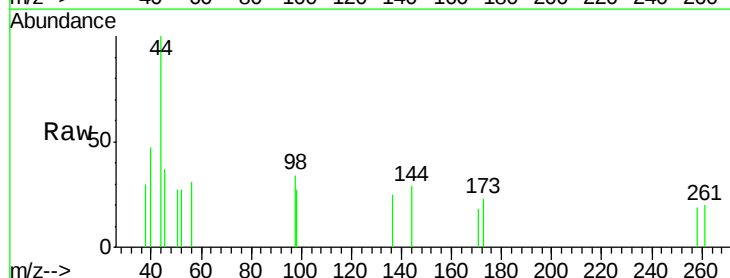
Acq: 19 Jul 2018 9:44

Tgt Ion: 98 Resp: 677

Ion Ratio Lower Upper

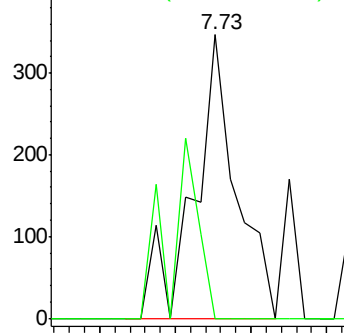
98 100

100 0.0 50.9 76.3#

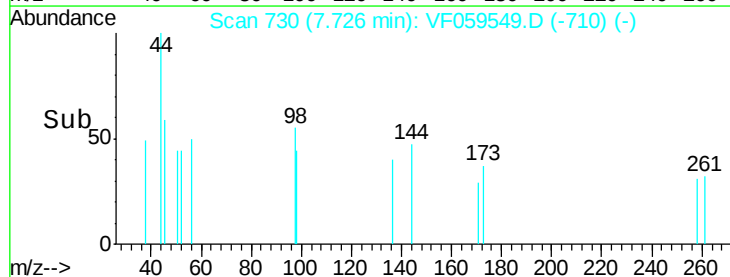


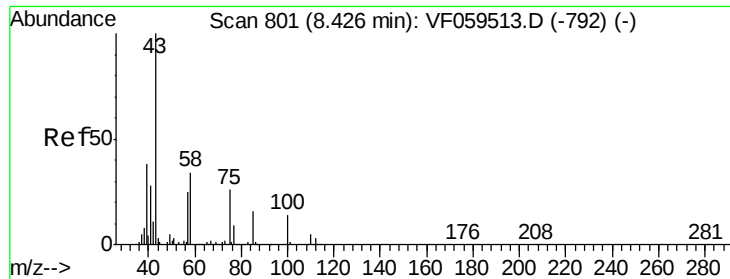
Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 26.35 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.01 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampled :

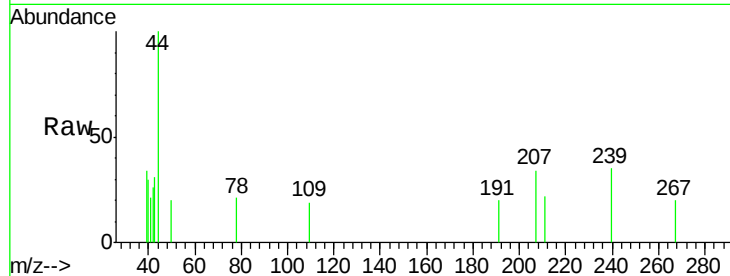
SB-3-A

Tot Ion: 43 Resp: 99

Ion Ratio Lower Upper

43 100

58 0.0 27.4 41.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.42

150

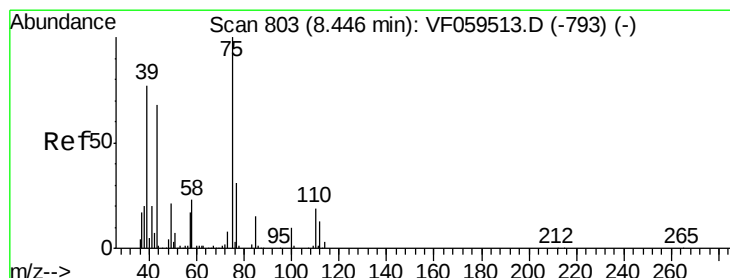
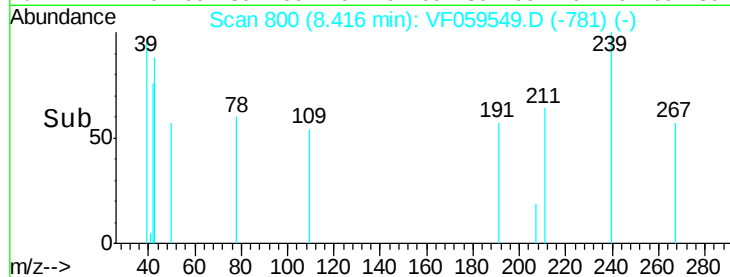
100

50

0

8.40 8.42 8.44

Time-->



#53

t-1,3-Dichloropropene

Concen: 7.01 ug/l

RT: 8.58 min Scan# 817

Delta R.T. 0.14 min

Lab File: VF059549.D

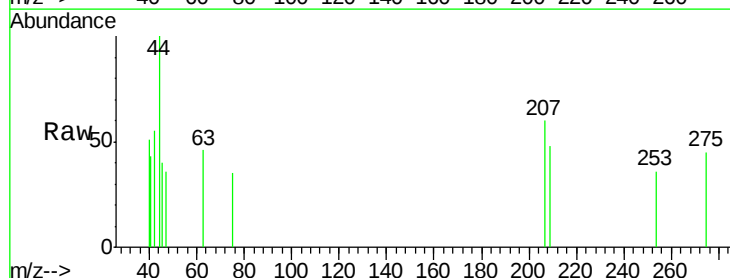
Acq: 19 Jul 2018 9:44

Tgt Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

77 0.0 25.3 37.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.58

120

100

80

60

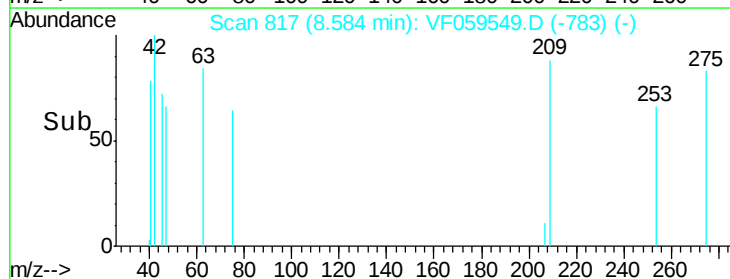
40

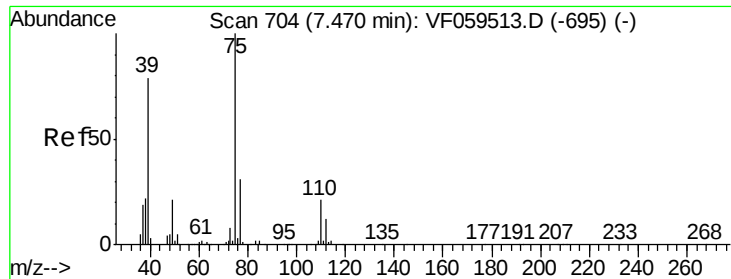
20

0

8.56 8.58 8.60

Time-->





#54

cis-1,3-Dichloropropene

Concen: 10.55 ug/l

RT: 7.51 min Scan# 708

Delta R.T. 0.04 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampleId :

SB-3-A

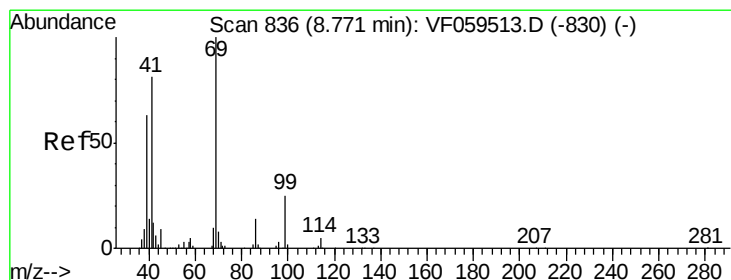
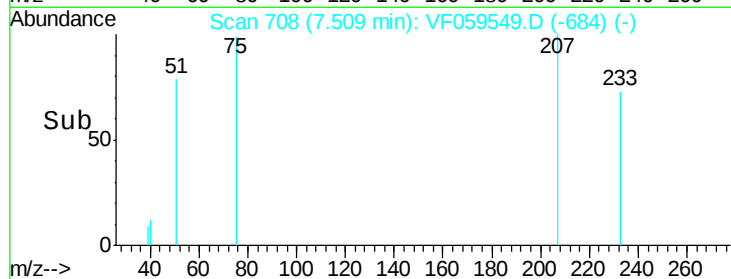
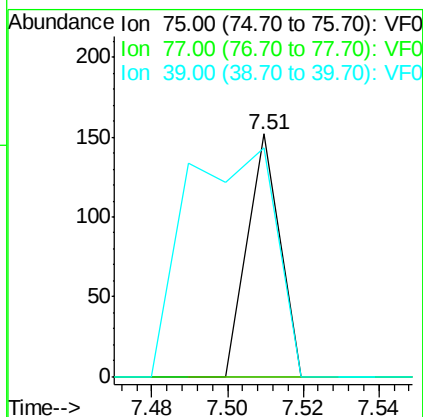
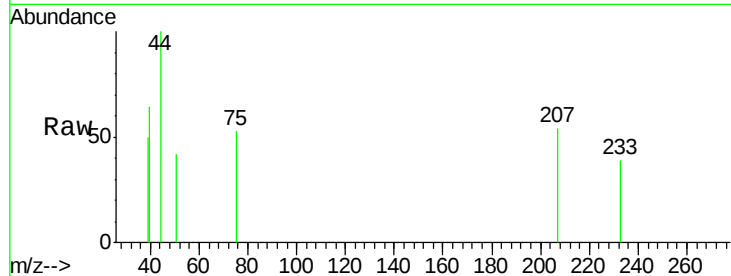
Tot Ion: 75 Resp: 90

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.6#

39 94.1 63.8 95.6



#56

Ethyl methacrylate

Concen: 20.25 ug/l

RT: 8.87 min Scan# 846

Delta R.T. 0.10 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

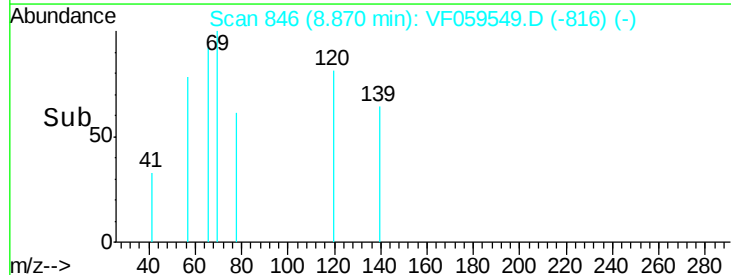
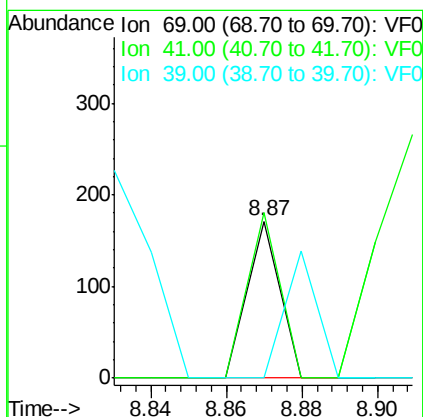
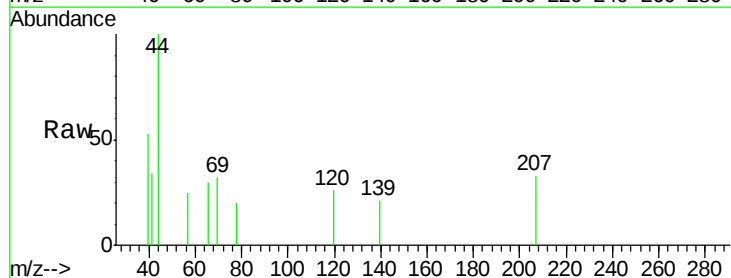
Tgt Ion: 69 Resp: 101

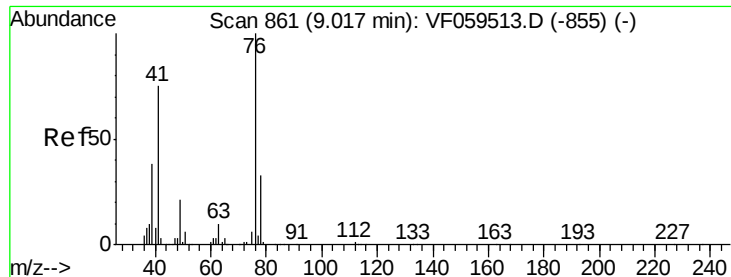
Ion Ratio Lower Upper

69 100

41 105.3 65.4 98.2#

39 0.0 51.0 76.4#





#57

1,3-Dichloropropane

Concen: 10.27 ug/l

RT: 9.02 min Scan# 861

Delta R.T. 0.00 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampled :

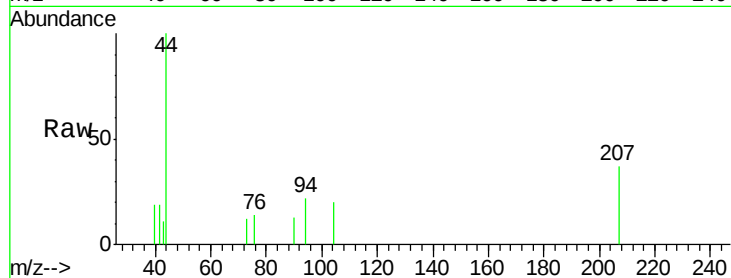
SB-3-A

Tot Ion: 76 Resp: 73

Ion Ratio Lower Upper

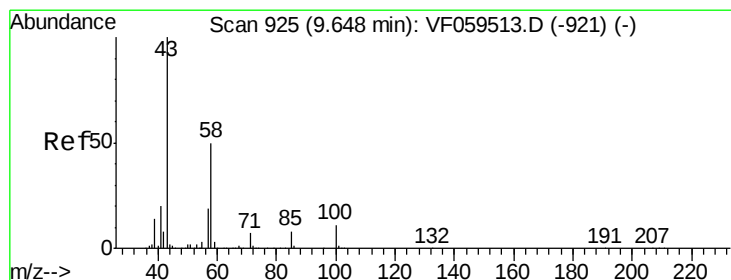
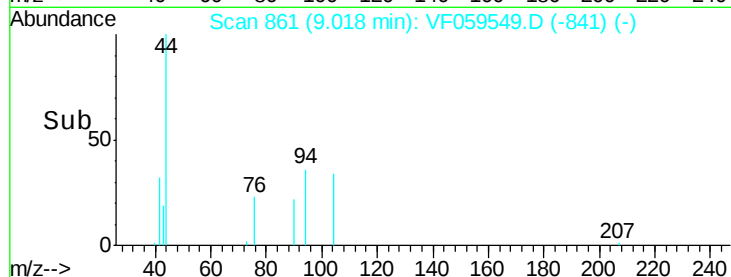
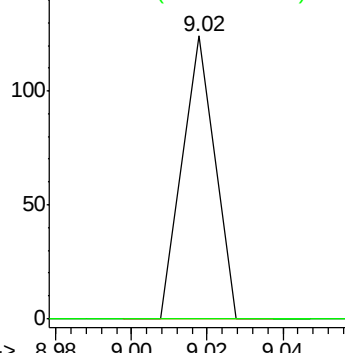
76 100

78 0.0 26.4 39.6#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0



#59

2-Hexanone

Concen: 84.51 ug/l

RT: 9.64 min Scan# 924

Delta R.T. -0.01 min

Lab File: VF059549.D

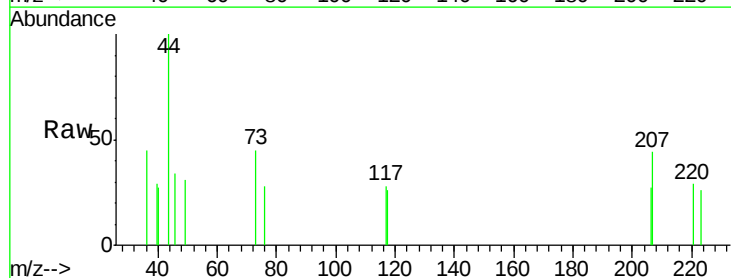
Acq: 19 Jul 2018 9:44

Tgt Ion: 43 Resp: 240

Ion Ratio Lower Upper

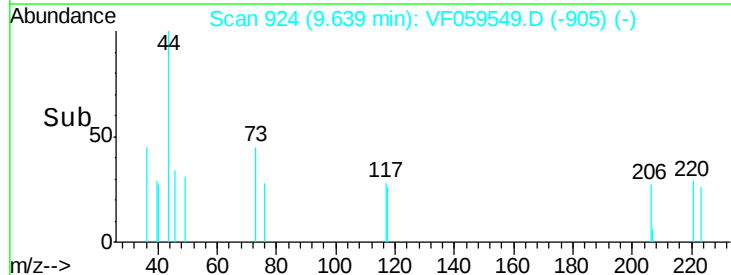
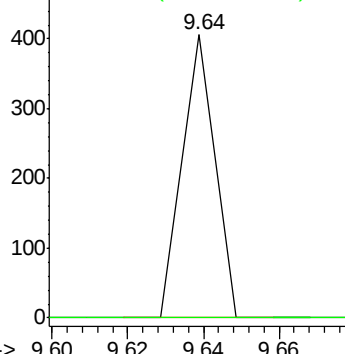
43 100

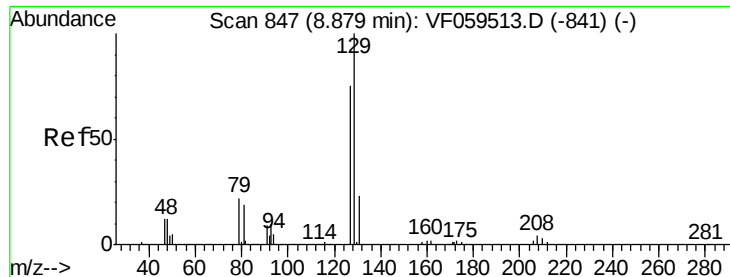
58 0.0 23.3 69.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#60

Dibromochloromethane

Concen: 9.74 ug/l

RT: 9.00 min Scan# 859

Delta R.T. 0.12 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampleId :

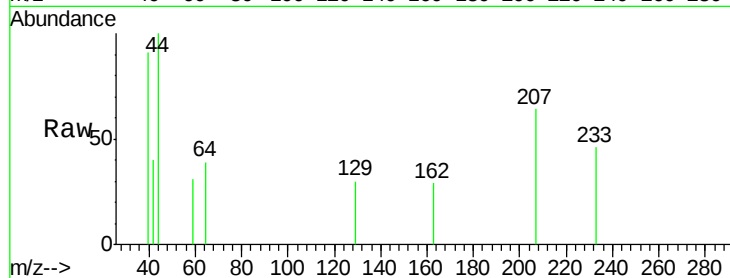
SB-3-A

Tot Ion:129 Resp: 66

Ion Ratio Lower Upper

129 100

127 0.0 37.6 112.8#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

9.00

100

80

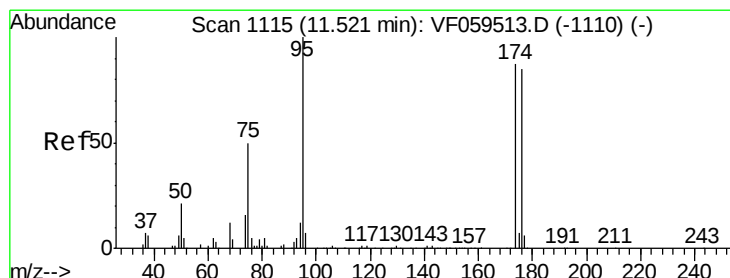
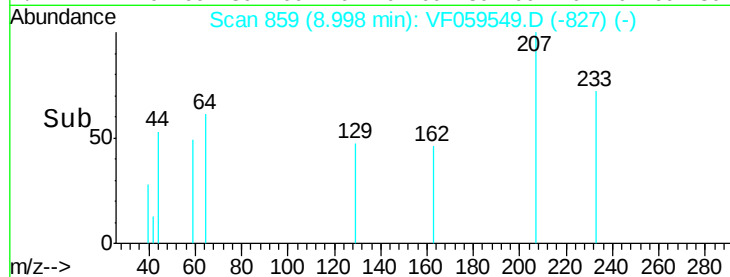
60

40

20

0

Time--> 8.96 8.98 9.00 9.02



#62

4-Bromofluorobenzene

Concen: 16.60 ug/l

RT: 11.48 min Scan# 1111

Delta R.T. -0.04 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

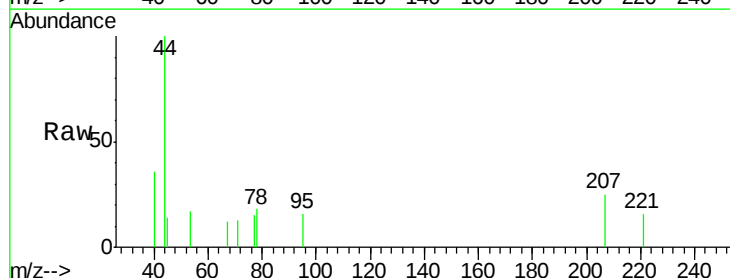
Tgt Ion: 95 Resp: 140

Ion Ratio Lower Upper

95 100

174 0.0 0.0 174.4

176 0.0 0.0 169.4



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

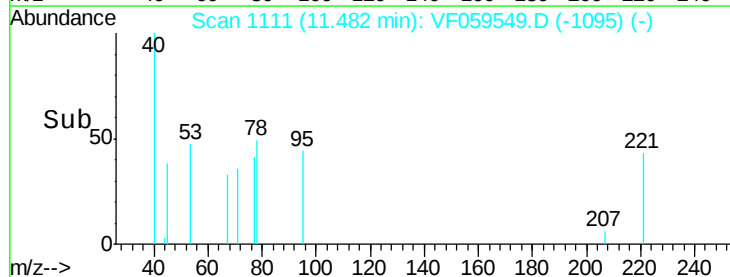
150

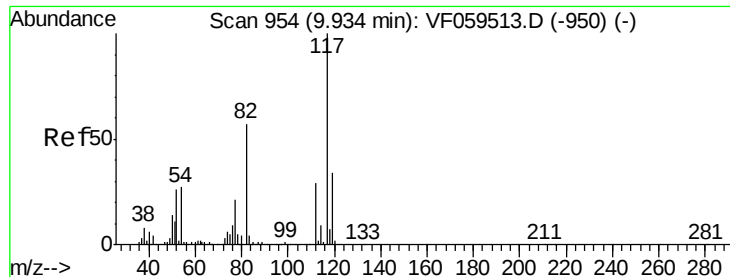
100

50

0

Time--> 11.45 11.50

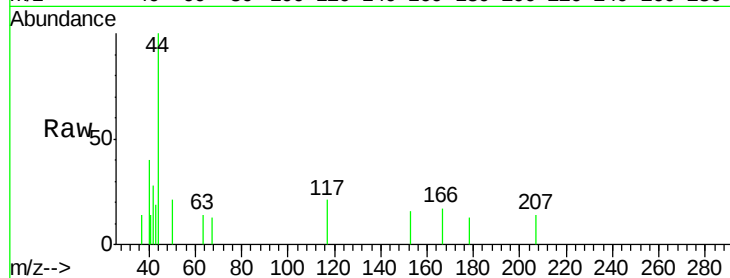




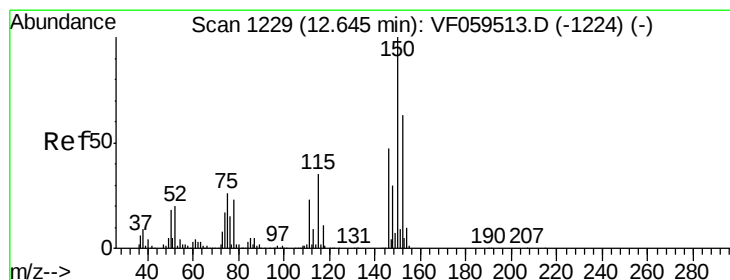
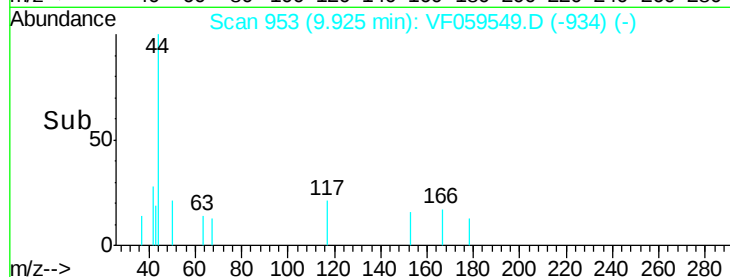
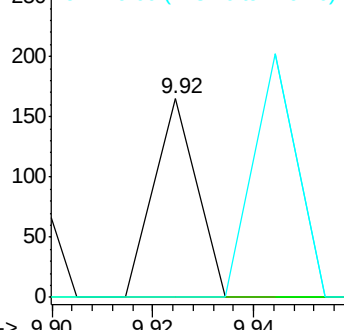
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.92 min Scan# 953
Delta R.T. -0.01 min
Lab File: VF059549.D
Acq: 19 Jul 2018 9:44

Instrument :
MSVOA_F
ClientSampleId :
SB-3-A

Tot Ion	Ratio	Lower	Upper
117	100		
82	0.0	46.1	69.1#
119	0.0	27.2	40.8#

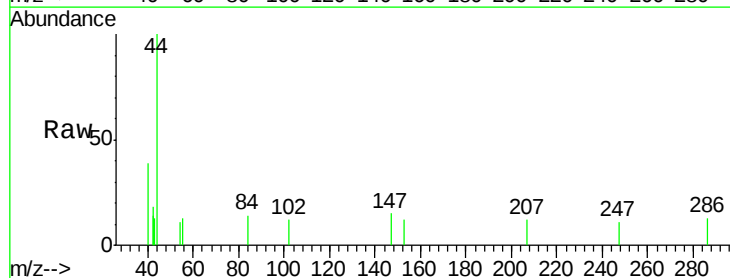


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

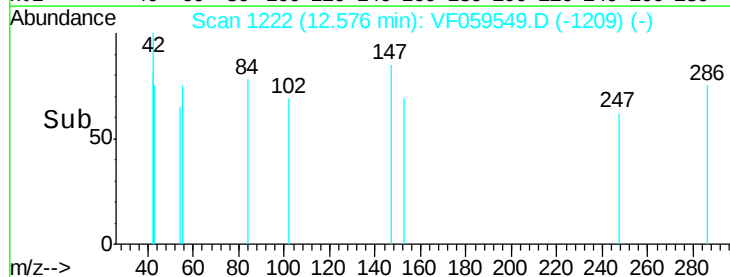
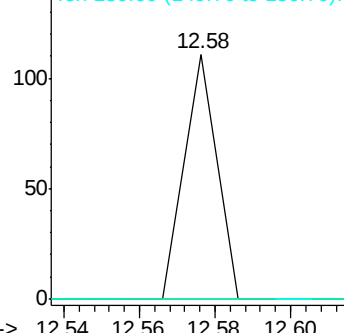


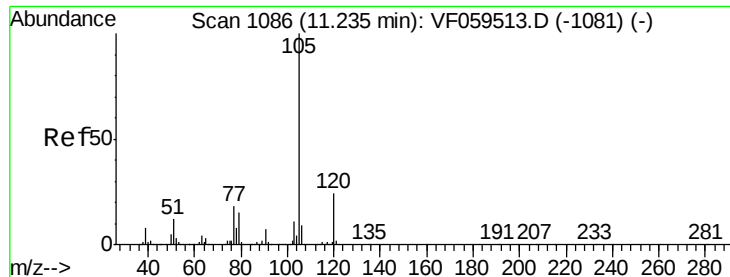
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.58 min Scan# 1222
Delta R.T. -0.07 min
Lab File: VF059549.D
Acq: 19 Jul 2018 9:44

Tgt Ion	Ratio	Lower	Upper
152	100		
115	0.0	27.8	83.3#
150	0.0	0.0	318.4



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





#73

Isopropylbenzene

Concen: 24.49 ug/l

RT: 11.26 min Scan# 1088

Delta R.T. 0.02 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampleId :

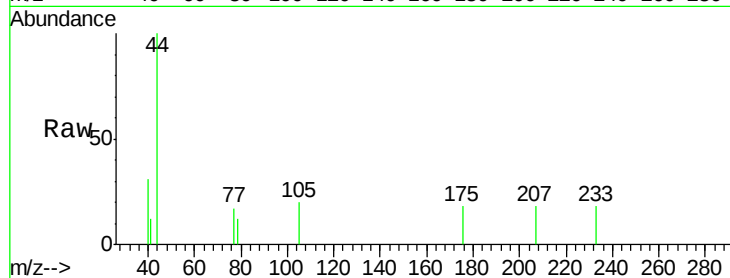
SB-3-A

Tot Ion: 105 Resp: 102

Ion Ratio Lower Upper

105 100

120 0.0 12.0 36.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.26

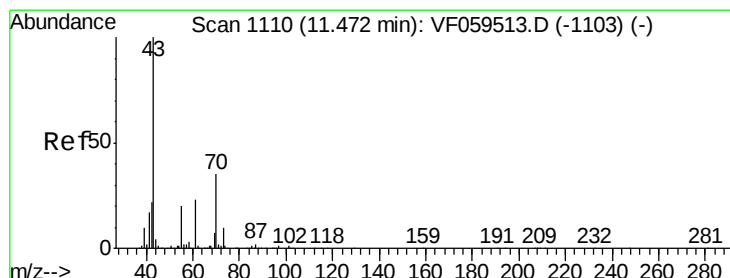
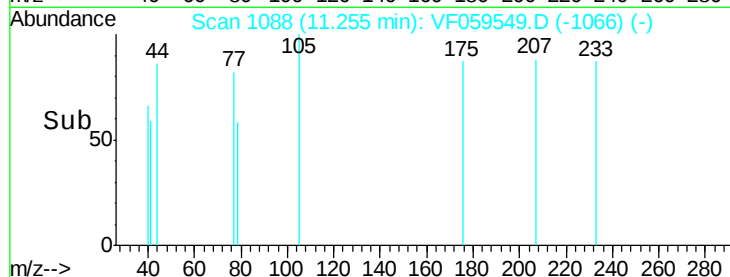
150

100

50

0

Time--> 11.22 11.24 11.26 11.28



#74

N-ethyl acetate

Concen: 69.72 ug/l

RT: 11.40 min Scan# 1103

Delta R.T. -0.07 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Tgt Ion: 43 Resp: 93

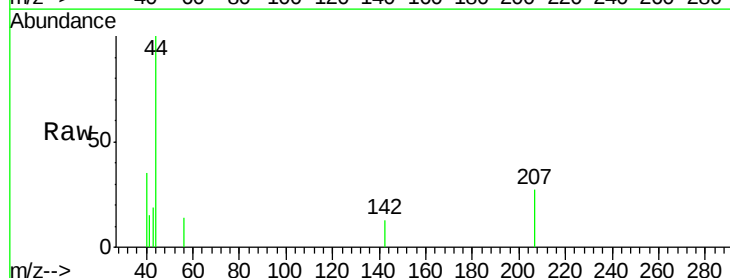
Ion Ratio Lower Upper

43 100

70 0.0 27.9 41.9#

55 0.0 16.2 24.2#

61 0.0 18.6 27.8#



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

250

200

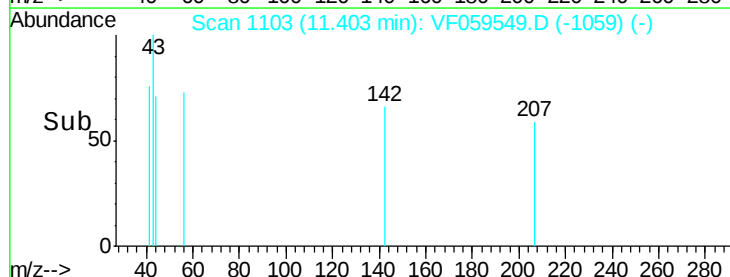
150

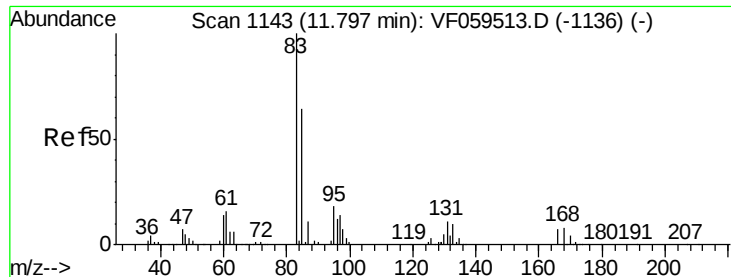
100

50

0

Time--> 11.38 11.40 11.42





#75

1,1,2,2-Tetrachloroethane

Concen: 67.15 ug/l

RT: 11.82 min Scan# 1145

Delta R.T. 0.02 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampleId :

SB-3-A

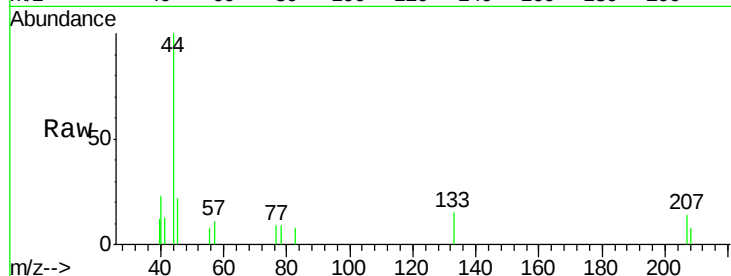
Tot Ion: 83 Resp: 61

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

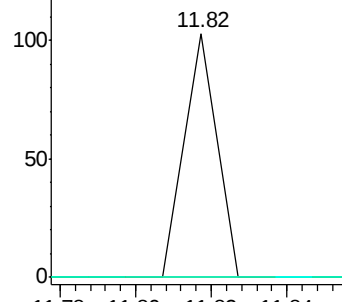
85 0.0 31.9 95.9#



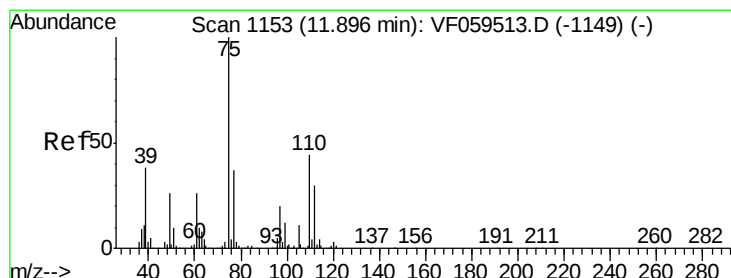
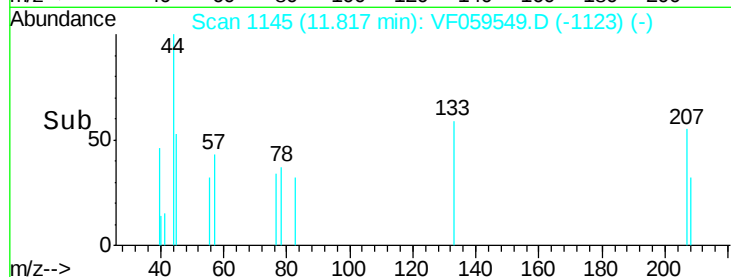
Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



Time--> 11.78 11.80 11.82 11.84



#76

1,2,3-Trichloropropane

Concen: 93.02 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. -0.02 min

Lab File: VF059549.D

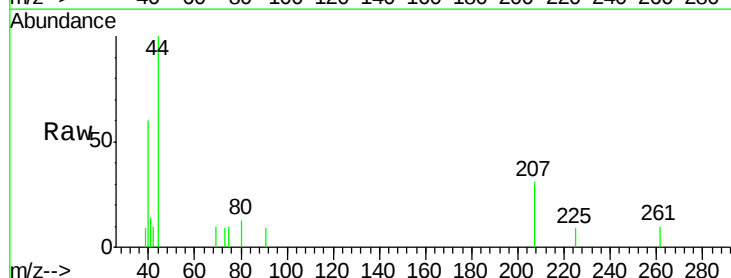
Acq: 19 Jul 2018 9:44

Tgt Ion: 75 Resp: 69

Ion Ratio Lower Upper

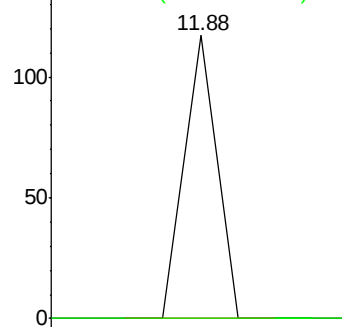
75 100

77 0.0 18.7 56.1#

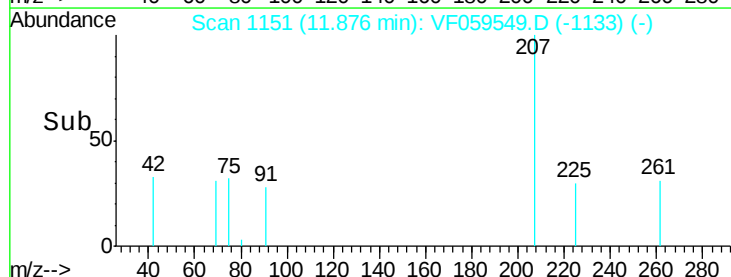


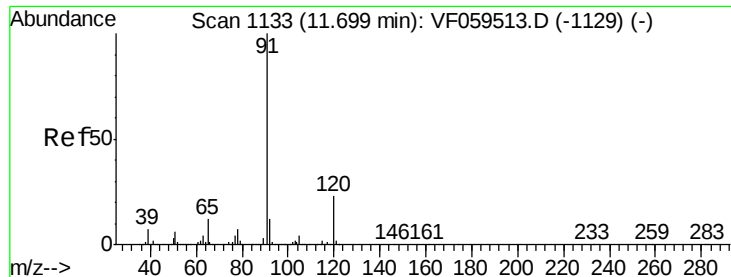
Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



Time--> 11.84 11.86 11.88 11.90





#78

n-propylbenzene

Concen: 13.40 ug/l

RT: 11.72 min Scan# 1135

Delta R.T. 0.02 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampled :

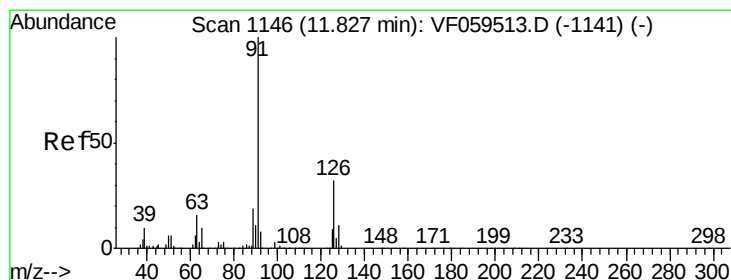
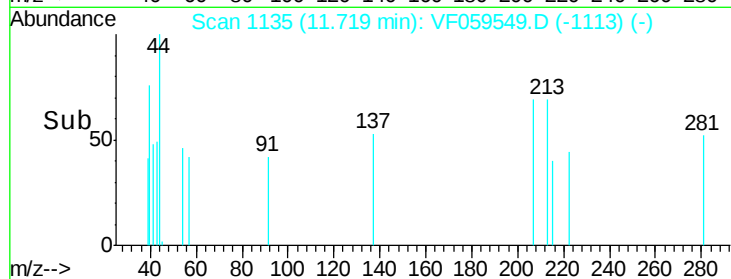
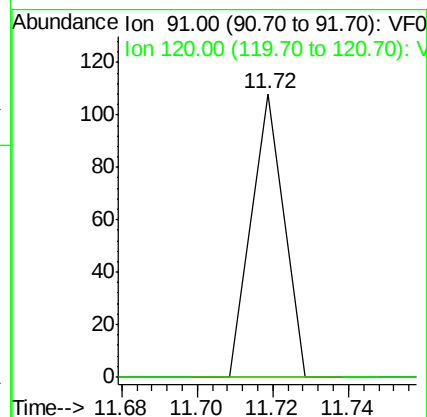
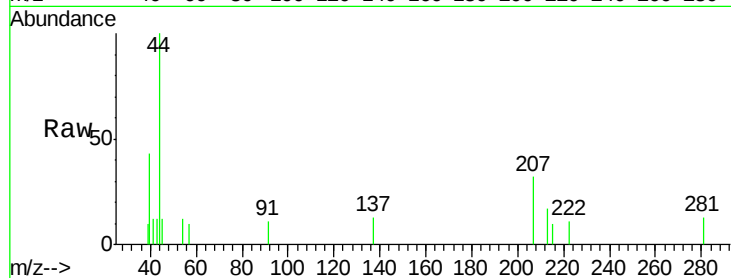
SB-3-A

Tot Ion: 91 Resp: 64

Ion Ratio Lower Upper

91 100

120 0.0 11.3 33.9#



#79

2-Chlorotoluene

Concen: 21.41 ug/l

RT: 11.85 min Scan# 1148

Delta R.T. 0.02 min

Lab File: VF059549.D

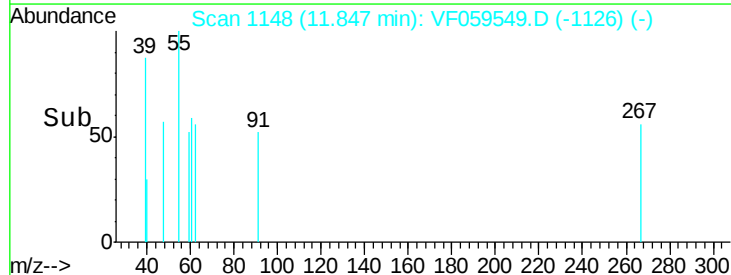
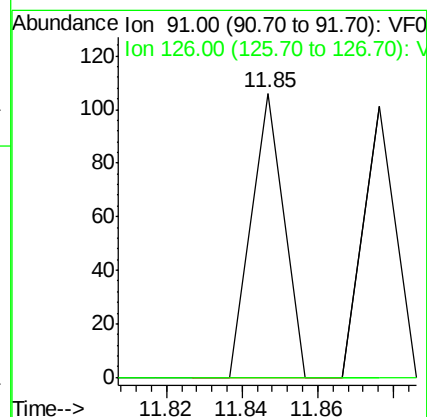
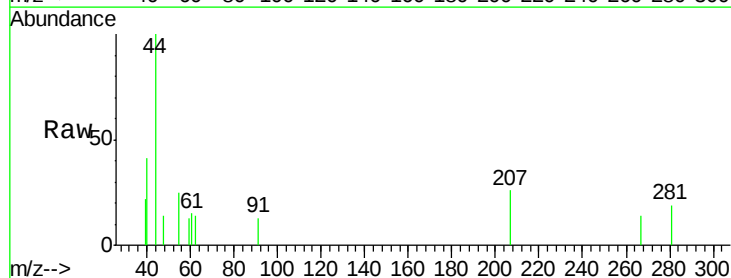
Acq: 19 Jul 2018 9:44

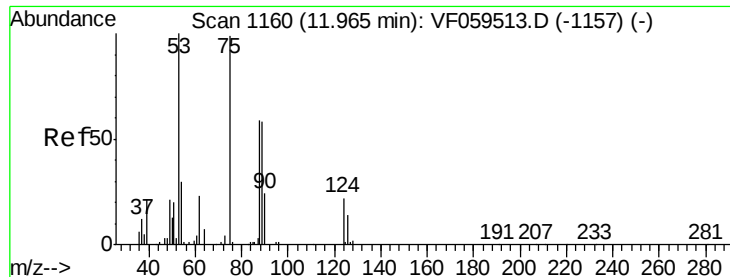
Tgt Ion: 91 Resp: 63

Ion Ratio Lower Upper

91 100

126 0.0 15.7 47.1#





#81

trans-1,4-Dichloro-2-butene

Concen: 221.34 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. -0.02 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampleId :

SB-3-A

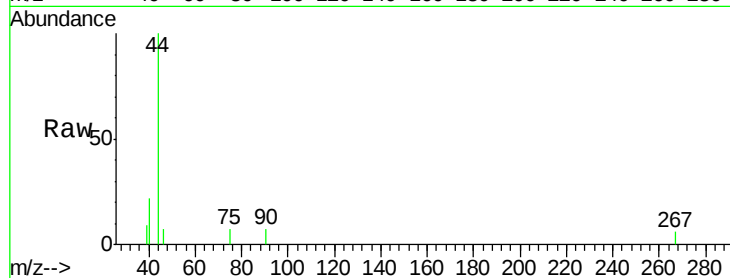
Tot Ion: 75 Resp: 75

Ion Ratio Lower Upper

75 100

53 0.0 84.6 127.0#

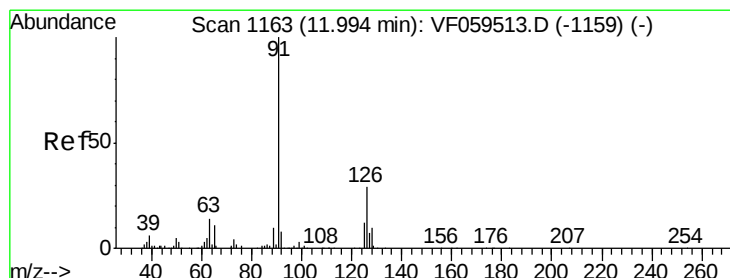
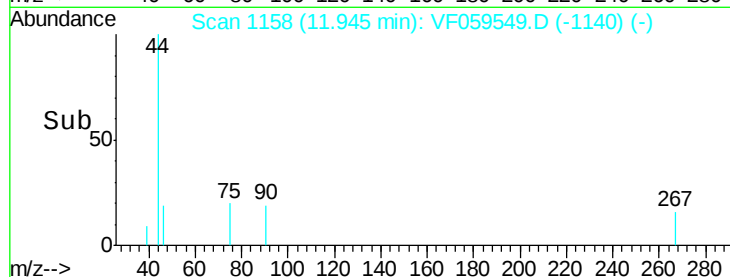
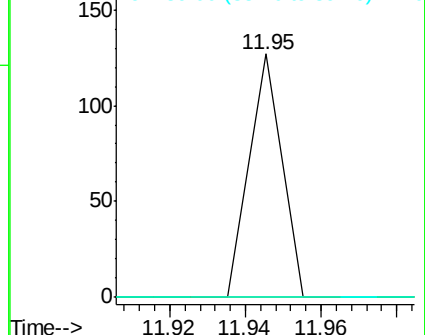
89 0.0 48.2 72.4#



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: 18.20 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. -0.12 min

Lab File: VF059549.D

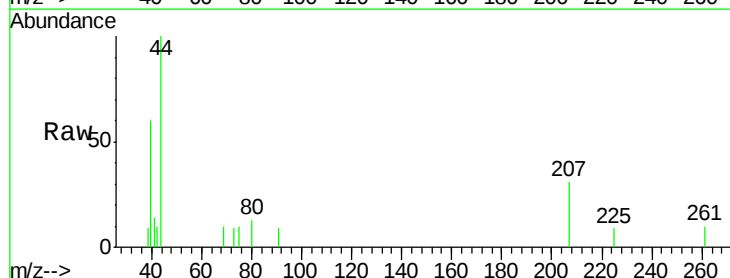
Acq: 19 Jul 2018 9:44

Tgt Ion: 91 Resp: 60

Ion Ratio Lower Upper

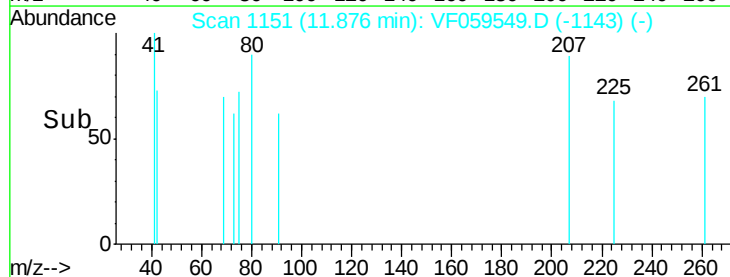
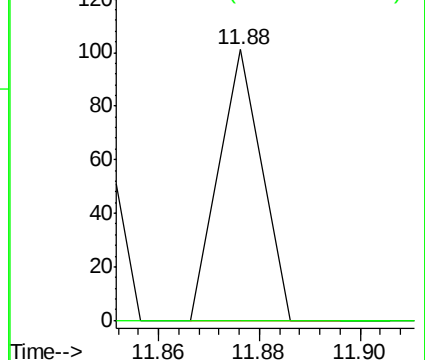
91 100

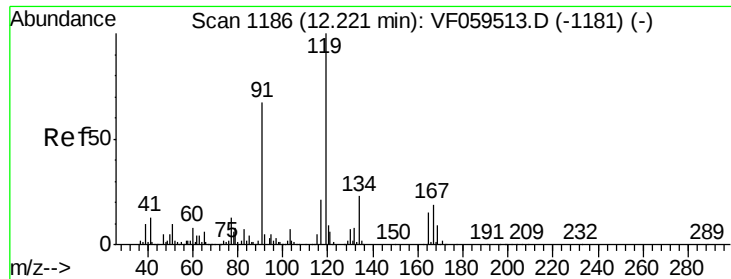
126 0.0 14.4 43.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

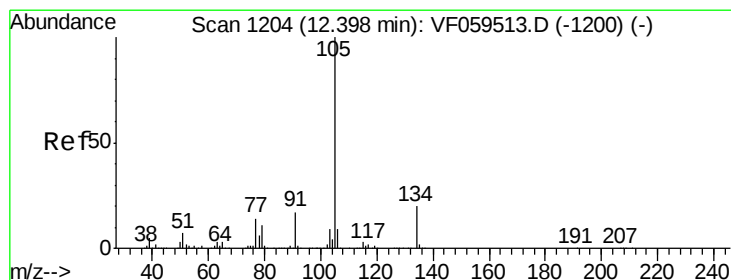
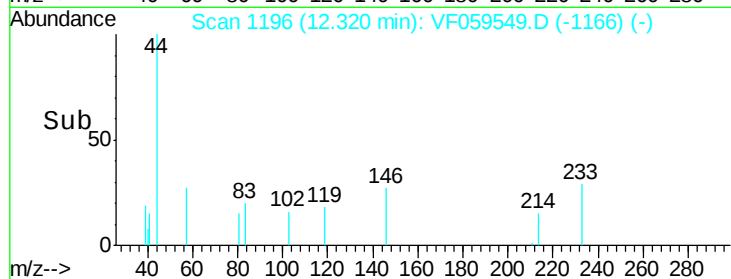
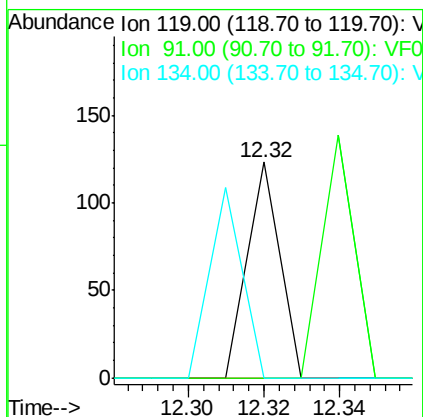
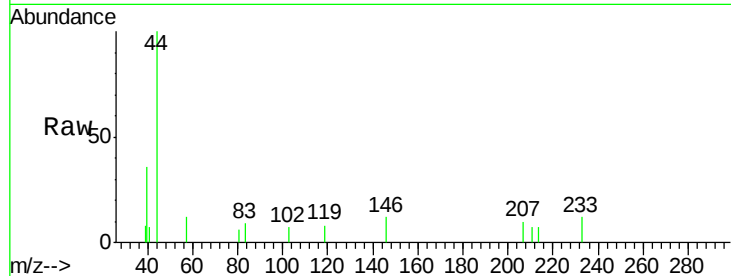




#83
tert-Butylbenzene
Concen: 21.80 ug/l
RT: 12.32 min Scan# 1196
Delta R.T. 0.10 min
Lab File: VF059549.D
Acq: 19 Jul 2018 9:44

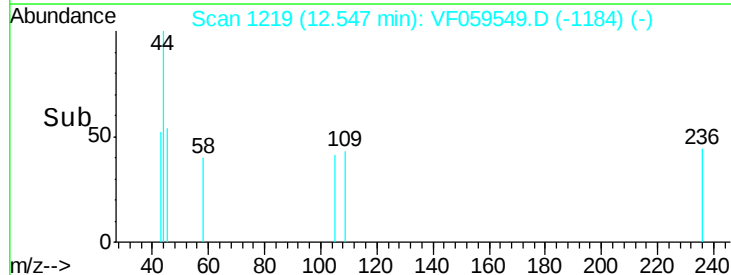
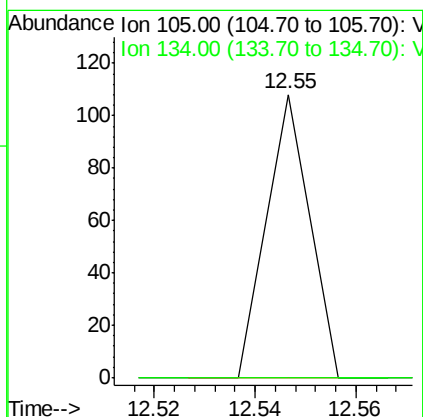
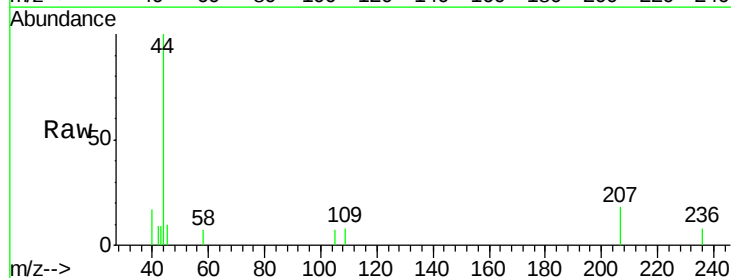
Instrument :
MSVOA_F
ClientSampleId :
SB-3-A

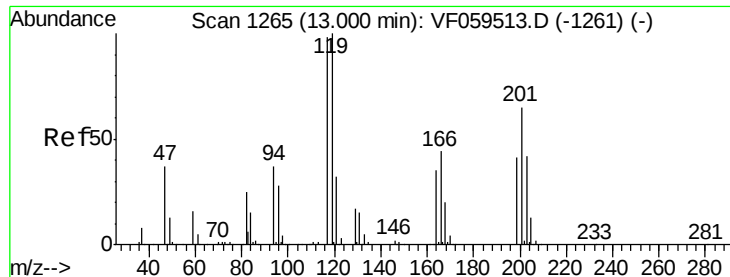
Tot Ion:119 Resp: 73
Ion Ratio Lower Upper
119 100
91 0.0 33.5 100.5#
134 0.0 11.3 33.8#



#85
sec-Butylbenzene
Concen: 15.03 ug/l
RT: 12.55 min Scan# 1219
Delta R.T. 0.15 min
Lab File: VF059549.D
Acq: 19 Jul 2018 9:44

Tgt Ion:105 Resp: 64
Ion Ratio Lower Upper
105 100
134 0.0 10.1 30.1#





#90

Hexachloroethane

Concen: 89.09 ug/l

RT: 13.03 min Scan# 1268

Delta R.T. 0.03 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampled :

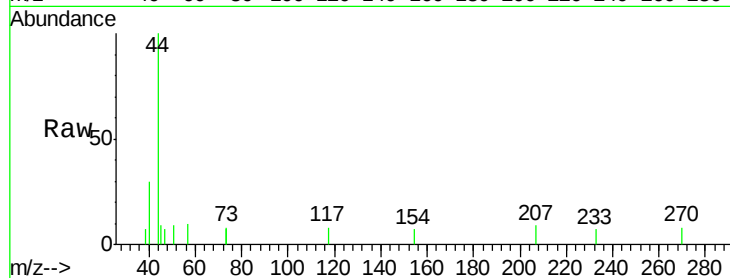
SB-3-A

Tot Ion:117 Resp: 75

Ion Ratio Lower Upper

117 100

201 0.0 32.6 98.0#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

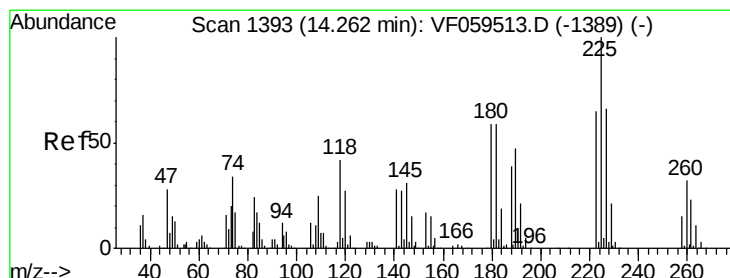
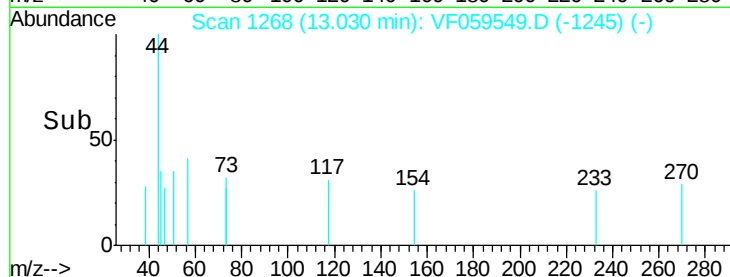
13.03

100

50

0

Time--> 13.00 13.02 13.04 13.06



#94

Hexachlorobutadiene

Concen: 134.18 ug/l

RT: 14.18 min Scan# 1385

Delta R.T. -0.08 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

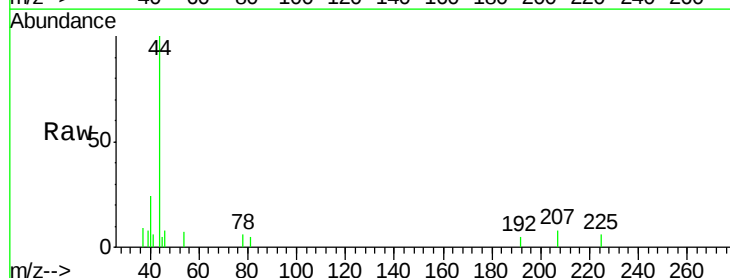
Tgt Ion:225 Resp: 80

Ion Ratio Lower Upper

225 100

223 0.0 32.3 96.8#

227 0.0 33.2 99.6#



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V

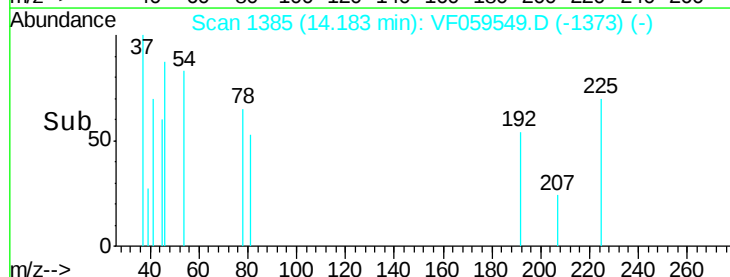
14.18

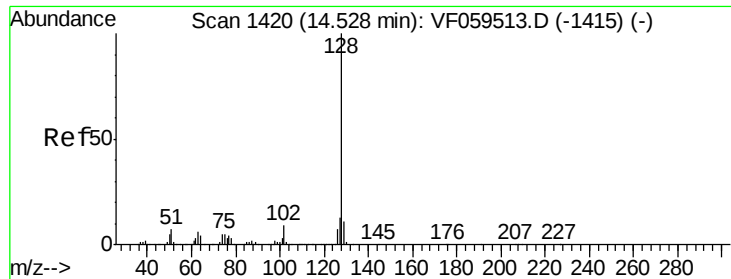
100

50

0

Time--> 14.16 14.18 14.20





#95

Naphthalene

Concen: 26.47 ug/l

RT: 14.51 min Scan# 1418

Delta R.T. -0.02 min

Lab File: VF059549.D

Acq: 19 Jul 2018 9:44

Instrument :

MSVOA_F

ClientSampleId :

SB-3-A

Tot Ion:128 Resp: 64

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 9.0 13.4#

