

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080218\
 Data File : VF059815.D
 Acq On : 2 Aug 2018 21:58
 Operator : VA/AP
 Sample : J4164-11
 Misc : 10.19g/5mL/MSVOA F/SOIL
 ALS Vial : 94 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 DUP-072518

Quant Time: Aug 03 07:07:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F073018S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 31 15:23:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	525	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	184	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.90	117	159	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.63

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.05	65	152	16.11	ug/l	0.04
Spiked Amount	50.000		Recovery	=	32.22%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	7.69	98	198	44.43	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	88.86%	
62) 4-Bromofluorobenzene	11.37	95	62	25.13	ug/l	-0.14
Spiked Amount	50.000		Recovery	=	50.26%	

Target Compounds

						Qvalue
3) Chloromethane	1.09	50	83	24.74	ug/l #	38
4) Vinyl Chloride	1.10	62	77	21.57	ug/l #	47
5) Bromomethane	1.46	94	141	53.01	ug/l #	4
6) Chloroethane	1.38	64	66	31.75	ug/l #	35
7) Trichlorofluoromethane	1.53	101	70	7.14	ug/l #	18
11) Tert butyl alcohol	2.70	59	67	175.68	ug/l #	74
14) Allyl chloride	2.25	41	82	12.63	ug/l #	1
15) Acrylonitrile	2.98	53	80	131.26	ug/l #	7
16) Acetone	2.32	43	69	40.66	ug/l #	68
17) Carbon Disulfide	1.85	76	124	10.55	ug/l #	71
18) Methyl Acetate	2.45	43	79	27.78	ug/l #	64
20) Methylene Chloride	2.19	84	85	18.49	ug/l #	1
21) trans-1,2-Dichloroethene	2.29	96	202	57.12	ug/l #	1
22) Diisopropyl ether	2.83	45	154	11.22	ug/l #	33
23) Vinyl Acetate	3.32	43	106	15.02	ug/l #	83
24) 1,1-Dichloroethane	2.92	63	111	11.64	ug/l #	91
25) 2-Butanone	4.49	43	495	261.35	ug/l #	74
26) 2,2-Dichloropropane	3.68	77	125	18.39	ug/l #	66
27) cis-1,2-Dichloroethene	3.49	96	76	14.88	ug/l	1
28) Bromochloromethane	4.01	49	69	17.83	ug/l #	15
29) Tetrahydrofuran	4.14	42	111	152.48	ug/l #	39
31) Cyclohexane	3.83	56	60	9.65	ug/l #	15
36) 1,1-Dichloropropene	4.39	75	73	38.26	ug/l #	46
37) Ethyl Acetate	4.33	43	182	213.35	ug/l #	19
38) Carbon Tetrachloride	4.06	117	99	33.84	ug/l #	14
39) Methylcyclohexane	5.71	83	67	46.91	ug/l #	13
40) Benzene	4.85	78	90	24.22	ug/l #	52
41) Methacrylonitrile	4.95	41	170	385.88	ug/l #	33
43) Isopropyl Acetate	7.13	43	91	82.71	ug/l #	46
44) Trichloroethene	5.73	130	60	47.92	ug/l	2
46) Dibromomethane	6.38	93	97	104.12	ug/l #	8
48) Methyl methacrylate	6.95	41	144	174.00	ug/l #	1
49) 1,4-Dioxane	7.01	88	154	11659.42	ug/l #	21
51) 4-Methyl-2-Pentanone	8.48	43	61	72.88	ug/l #	42

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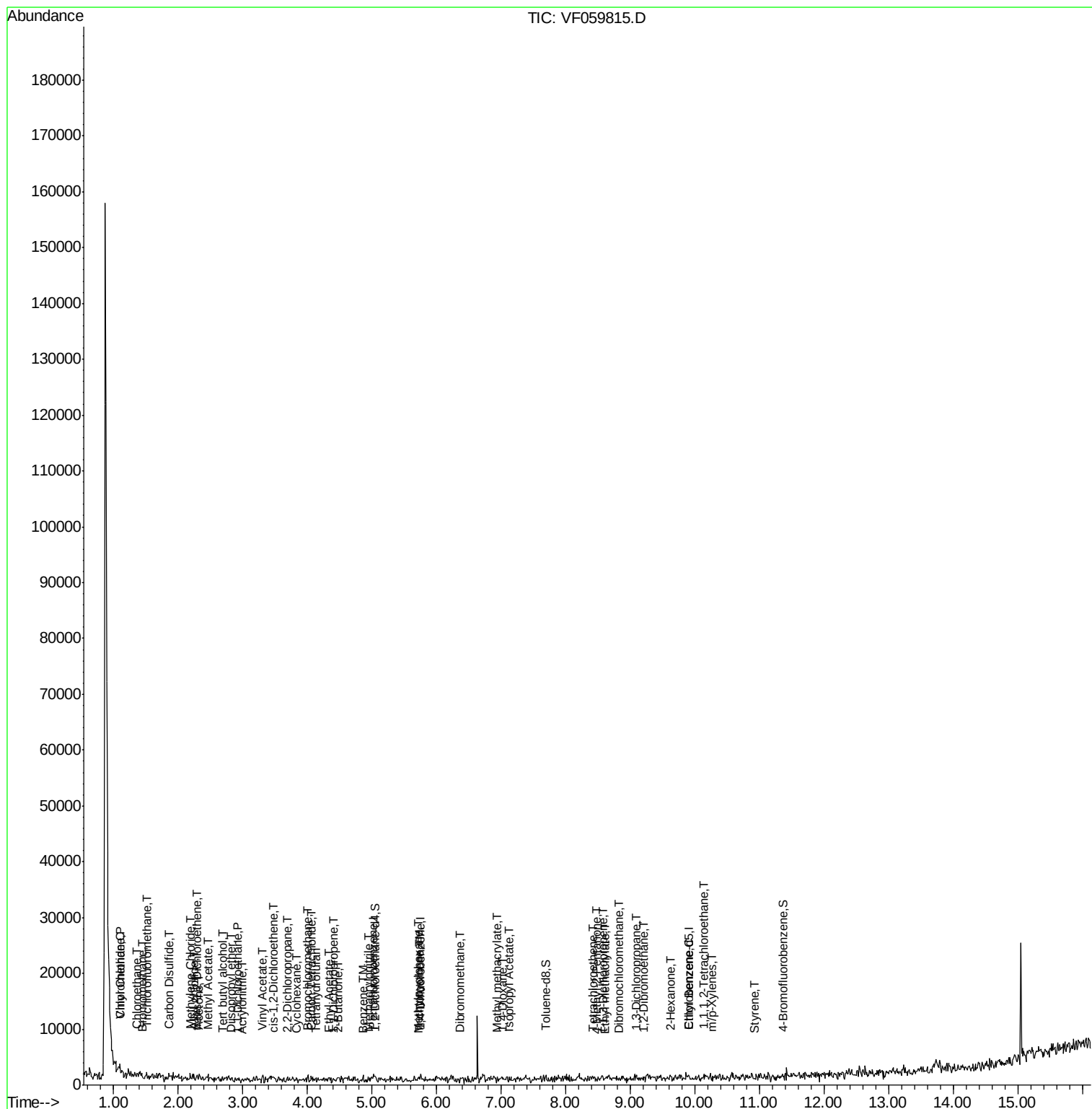
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) t-1,3-Dichloropropene	8.57	75	76	34.52	ug/l #	41
56) Ethyl methacrylate	8.59	69	71	67.65	ug/l #	14
57) 1,3-Dichloropropane	9.09	76	69	39.97	ug/l #	41
59) 2-Hexanone	9.62	43	82	122.26	ug/l #	30
60) Dibromochloromethane	8.83	129	96	54.06	ug/l #	12
61) 1,2-Dibromoethane	9.22	107	64	54.46	ug/l #	4
64) Tetrachloroethene	8.42	164	68	64.65	ug/l #	1
66) 1,1,1,2-Tetrachloroethane	10.14	131	62	41.75	ug/l #	9
67) Ethyl Benzene	9.90	91	70	12.72	ug/l #	46
68) m/p-Xylenes	10.27	106	63	31.20	ug/l #	1
70) Styrene	10.93	104	75	24.42	ug/l #	26

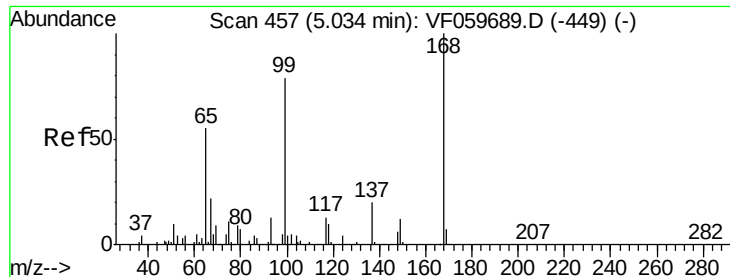
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.01 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

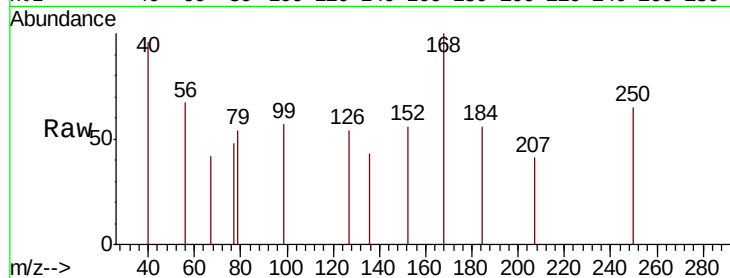
DUP-072518

Tot Ion:168 Resp: 525

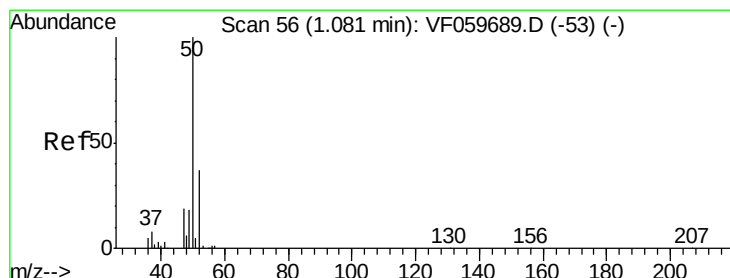
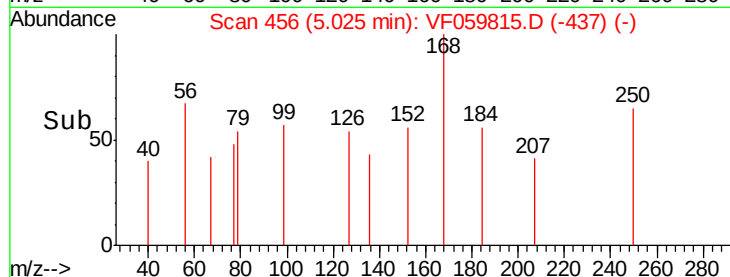
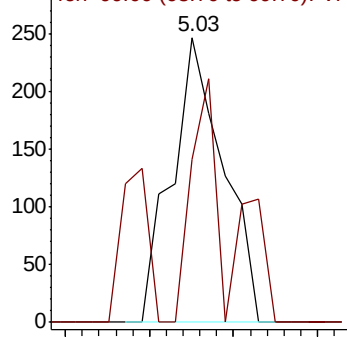
Ion Ratio Lower Upper

168 100

99 57.1 63.3 94.9#



Abundance Ion 168.00 (167.70 to 168.70): VF0



#3

Chloromethane

Concen: 24.74 ug/l

RT: 1.09 min Scan# 57

Delta R.T. 0.01 min

Lab File: VF059815.D

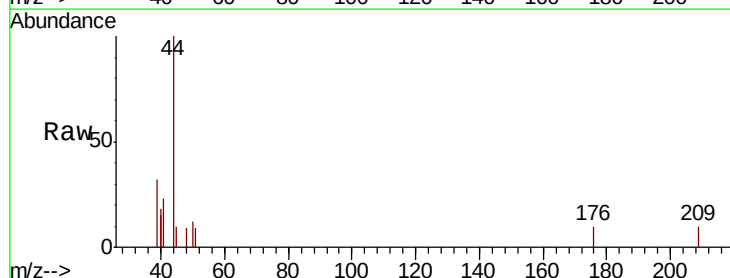
Acq: 2 Aug 2018 21:58

Tgt Ion: 50 Resp: 83

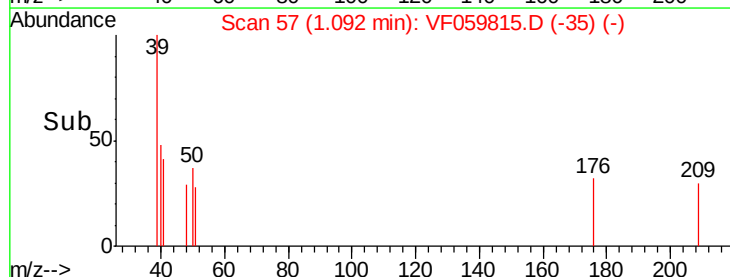
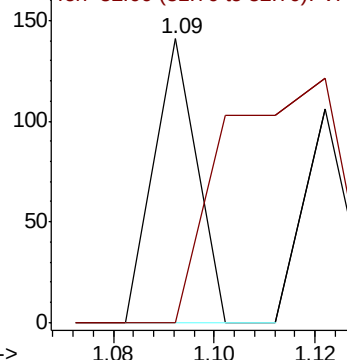
Ion Ratio Lower Upper

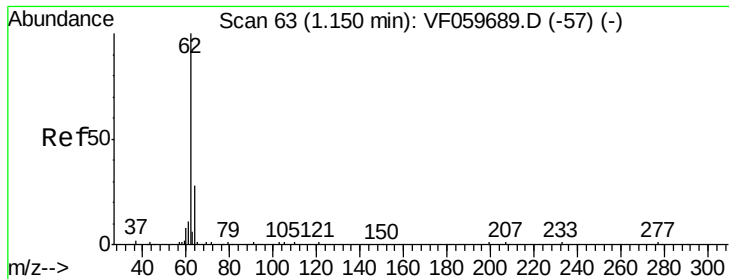
50 100

52 0.0 29.1 43.7#



Abundance Ion 50.00 (49.70 to 50.70): VF0





#4

Vinyl Chloride

Concen: 21.57 ug/l

RT: 1.10 min Scan# 58

Delta R.T. -0.05 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

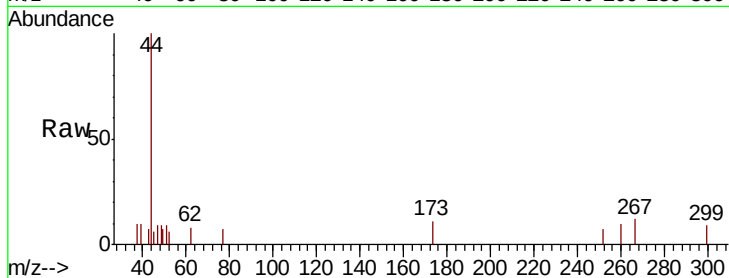
DUP-072518

Tot Ion: 62 Resp: 77

Ion Ratio Lower Upper

62 100

64 0.0 22.6 33.8#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

1.10

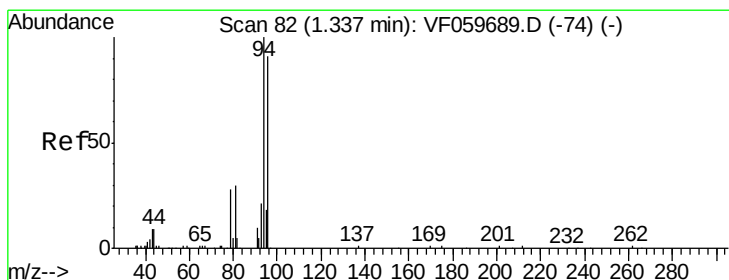
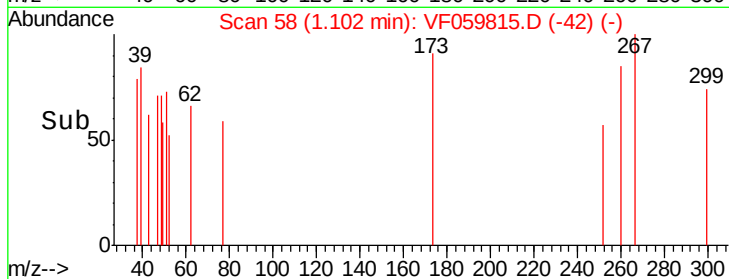
100

50

0

1.08 1.10 1.12

Time-->



#5

Bromomethane

Concen: 53.01 ug/l

RT: 1.46 min Scan# 94

Delta R.T. 0.12 min

Lab File: VF059815.D

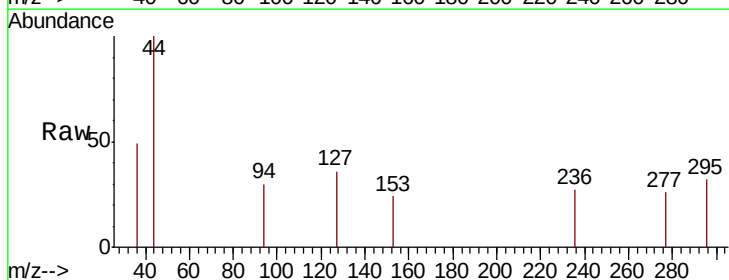
Acq: 2 Aug 2018 21:58

Tgt Ion: 94 Resp: 141

Ion Ratio Lower Upper

94 100

96 0.0 73.6 110.4#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.46

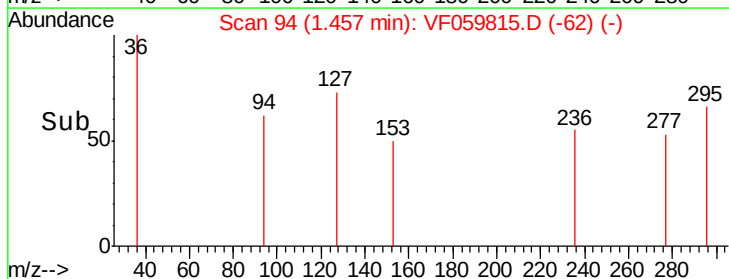
100

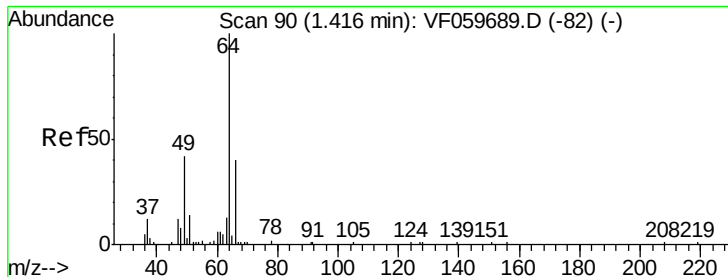
50

0

1.42 1.44 1.46 1.48

Time-->





#6

Chloroethane

Concen: 31.75 ug/l

RT: 1.38 min Scan# 86

Delta R.T. -0.04 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

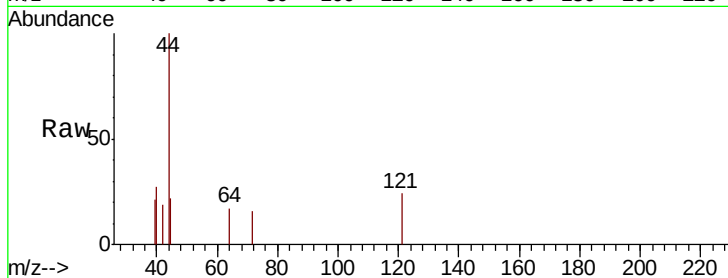
DUP-072518

Tot Ion: 64 Resp: 66

Ion Ratio Lower Upper

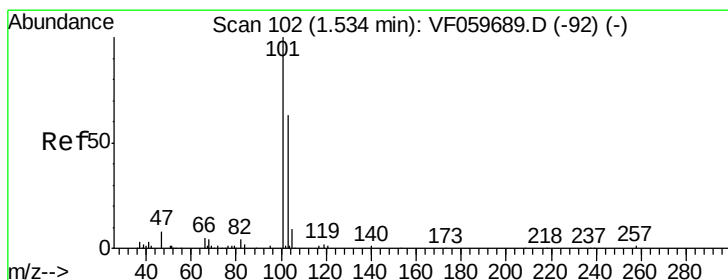
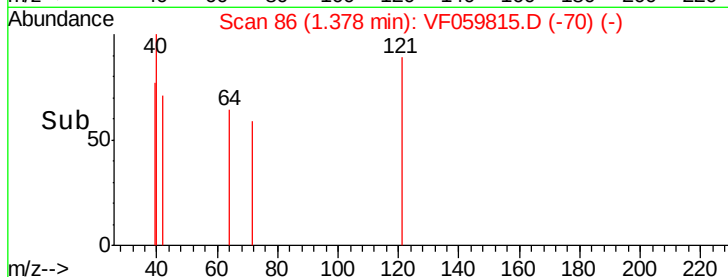
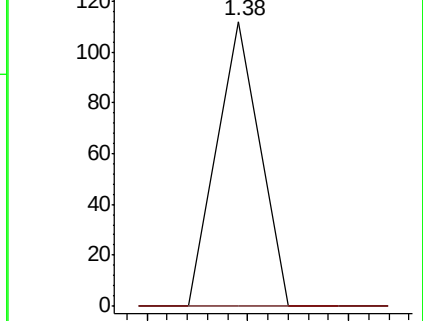
64 100

66 0.0 32.6 49.0#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0



#7

Trichlorofluoromethane

Concen: 7.14 ug/l

RT: 1.53 min Scan# 101

Delta R.T. -0.01 min

Lab File: VF059815.D

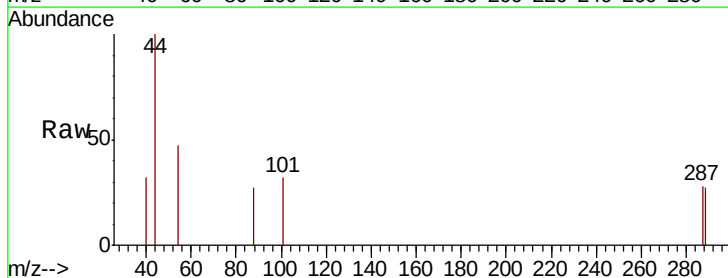
Acq: 2 Aug 2018 21:58

Tgt Ion: 101 Resp: 70

Ion Ratio Lower Upper

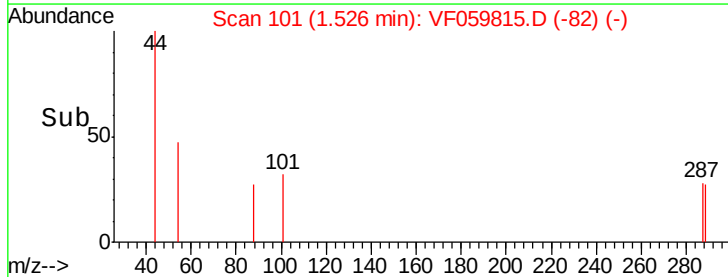
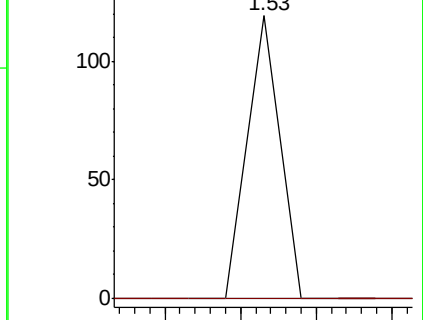
101 100

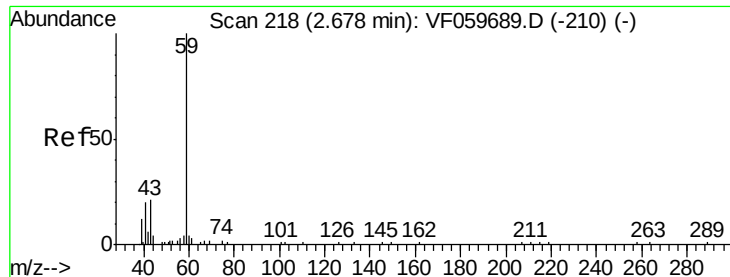
103 0.0 50.8 76.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#11

Tert butyl alcohol

Concen: 175.68 ug/l

RT: 2.70 min Scan# 220

Delta R.T. 0.02 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

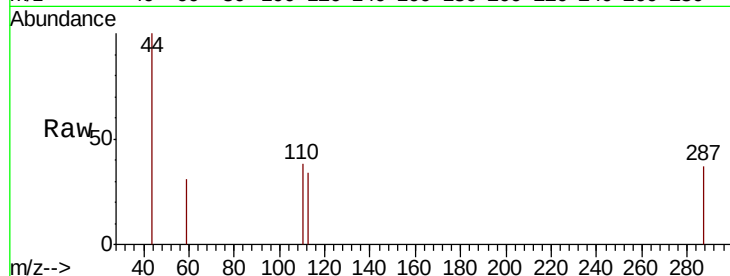
DUP-072518

Tot Ion: 59 Resp: 67

Ion Ratio Lower Upper

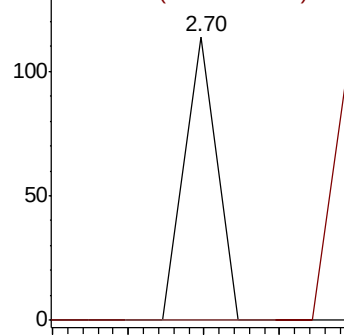
59 100

57 0.0 7.6 11.4#

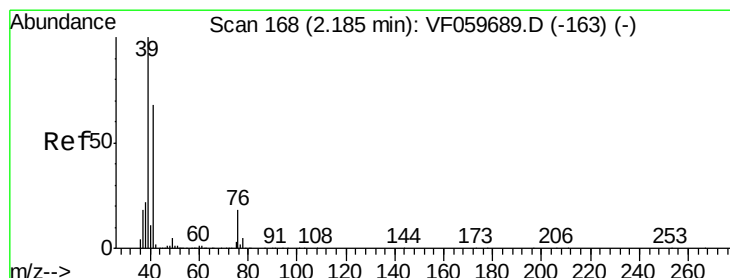
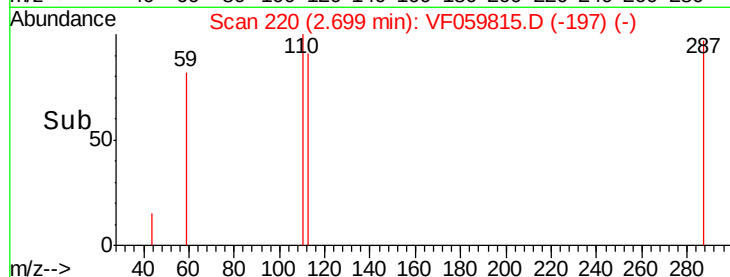


Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0



Time--> 2.66 2.68 2.70 2.72



#14

Allyl chloride

Concen: 12.63 ug/l

RT: 2.25 min Scan# 174

Delta R.T. 0.06 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

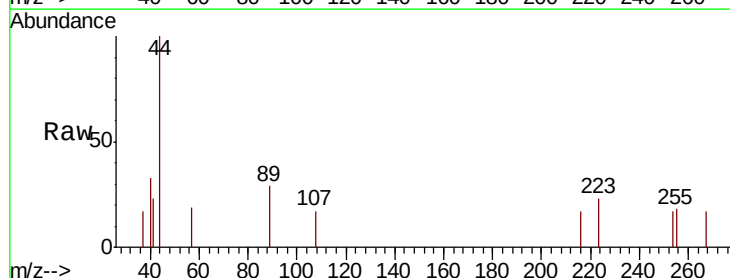
Tgt Ion: 41 Resp: 82

Ion Ratio Lower Upper

41 100

39 0.0 118.1 177.1#

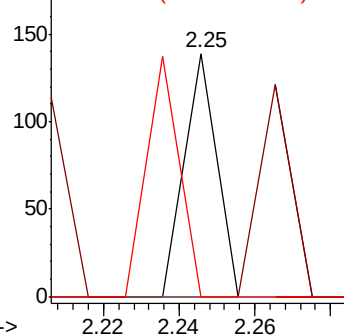
76 0.0 22.0 33.0#



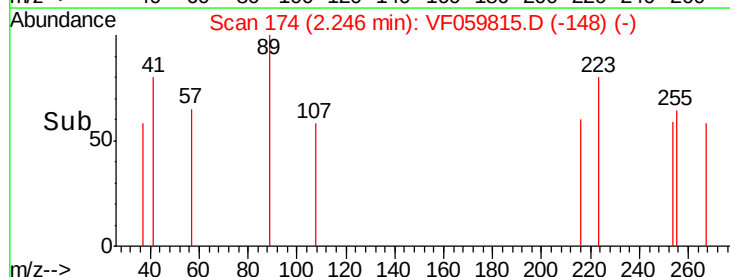
Abundance Ion 41.00 (40.70 to 41.70): VF0

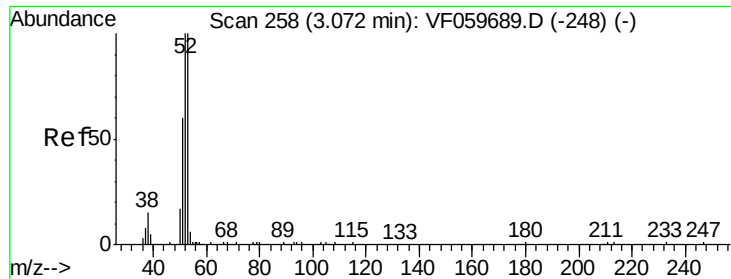
Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0



Time--> 2.22 2.24 2.26





#15

Acrylonitrile

Concen: 131.26 ug/l

RT: 2.98 min Scan# 248

Delta R.T. -0.10 min

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DUP-072518

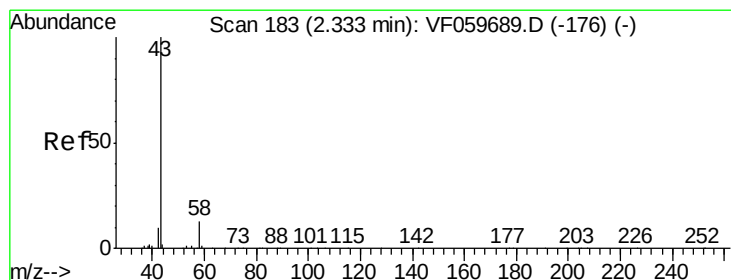
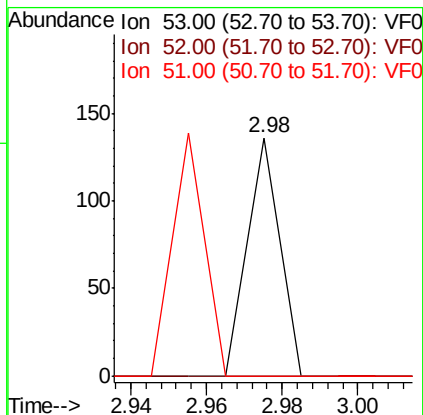
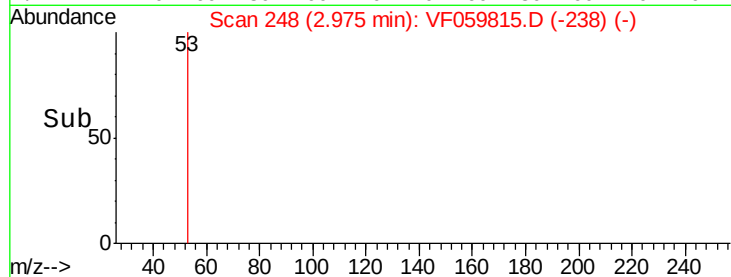
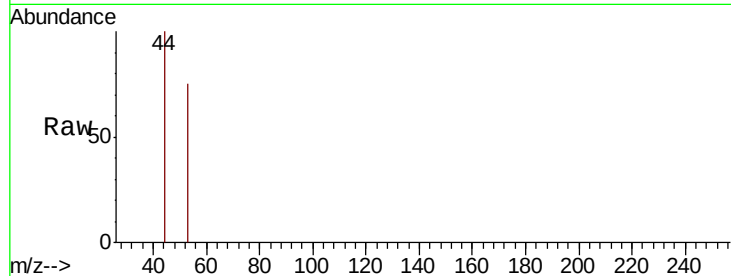
Tot Ion: 53 Resp: 80

Ion Ratio Lower Upper

53 100

52 0.0 80.3 120.5#

51 0.0 49.4 74.0#



#16

Acetone

Concen: 40.66 ug/l

RT: 2.32 min Scan# 182

Delta R.T. -0.01 min

Lab File: VF059815.D

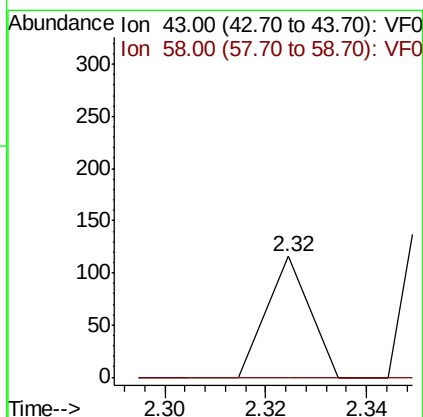
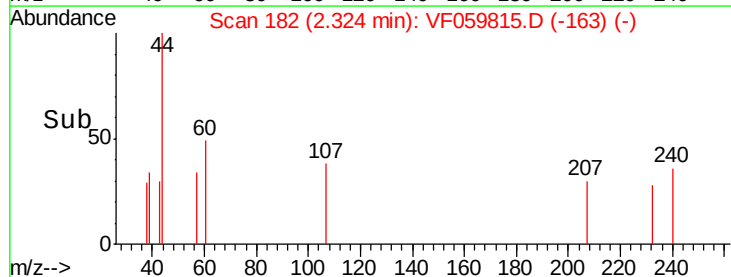
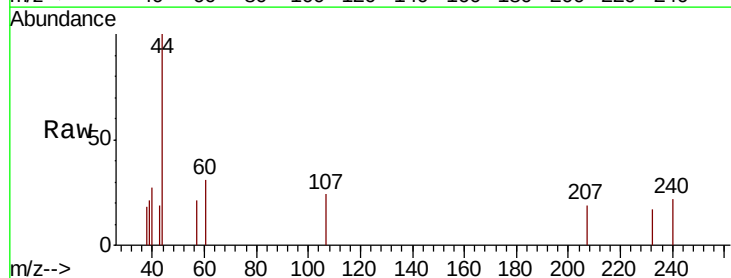
Acq: 2 Aug 2018 21:58

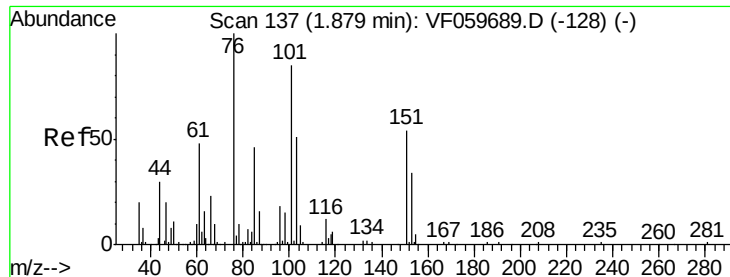
Tgt Ion: 43 Resp: 69

Ion Ratio Lower Upper

43 100

58 0.0 10.1 15.1#





#17

Carbon Disulfide

Concen: 10.55 ug/l

RT: 1.85 min Scan# 134

Delta R.T. -0.03 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

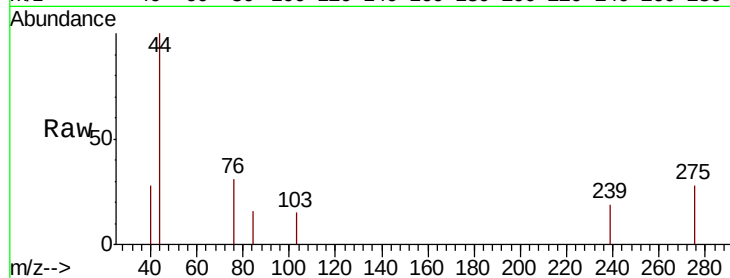
DUP-072518

Tot Ion: 76 Resp: 124

Ion Ratio Lower Upper

76 100

78 0.0 8.9 13.3#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

1.85

200

150

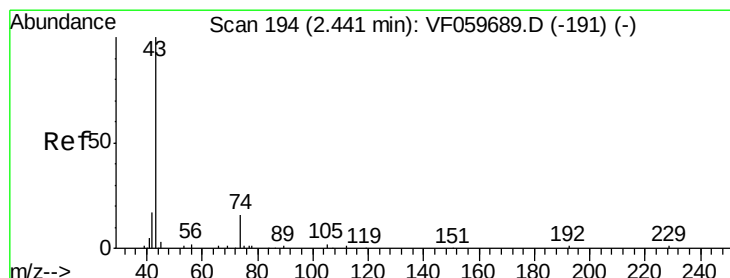
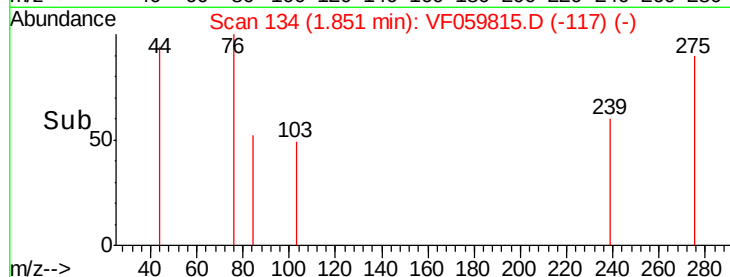
100

50

0

1.82 1.84 1.86 1.88

Time-->



#18

Methyl Acetate

Concen: 27.78 ug/l

RT: 2.45 min Scan# 195

Delta R.T. 0.01 min

Lab File: VF059815.D

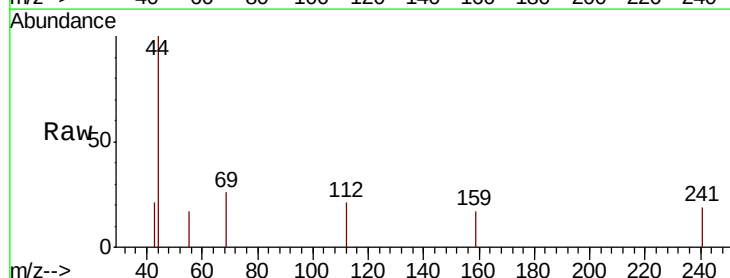
Acq: 2 Aug 2018 21:58

Tgt Ion: 43 Resp: 79

Ion Ratio Lower Upper

43 100

74 0.0 11.8 17.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

2.45

150

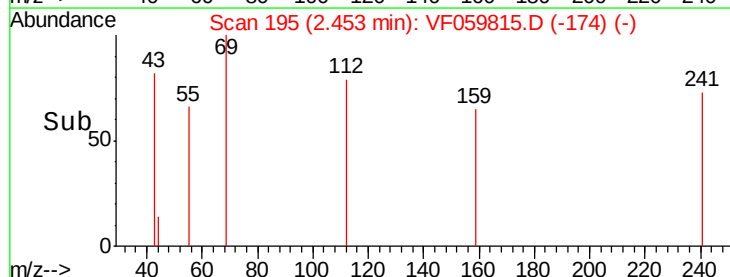
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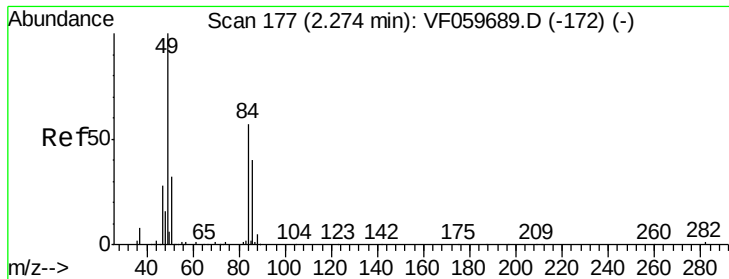
50

0

2.42 2.44 2.46 2.48

Time-->

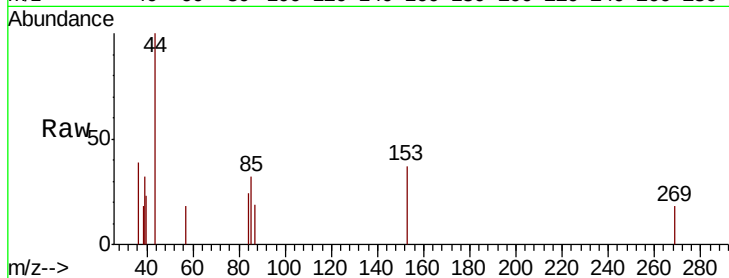




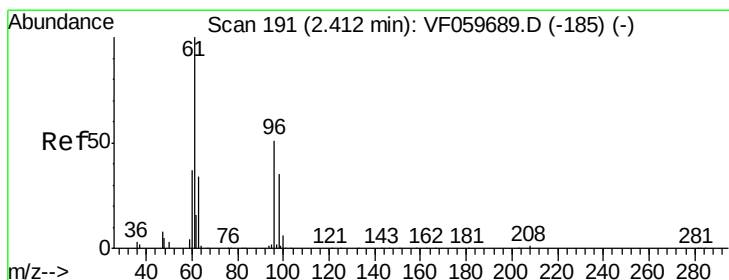
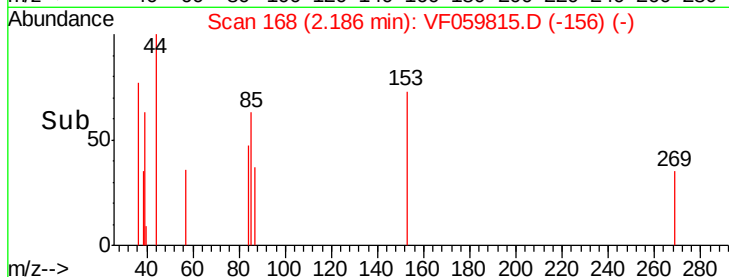
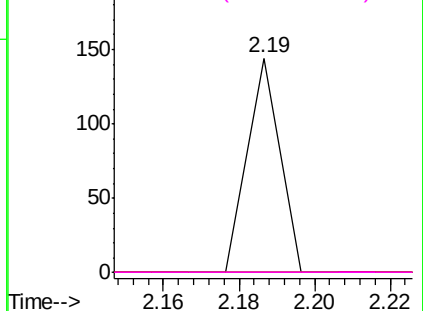
#20
Methylene Chloride
Concen: 18.49 ug/l
RT: 2.19 min Scan# 168
Delta R.T. -0.09 min
Lab File: VF059815.D
Acq: 2 Aug 2018 21:58

Instrument :
MSVOA_F
ClientSampleId :
DUP-072518

Tot Ion:	84	Resp:	85
Ion	Ratio	Lower	Upper
84	100		
49	0.0	142.2	213.4#
51	0.0	46.2	69.2#
86	0.0	57.1	85.7#

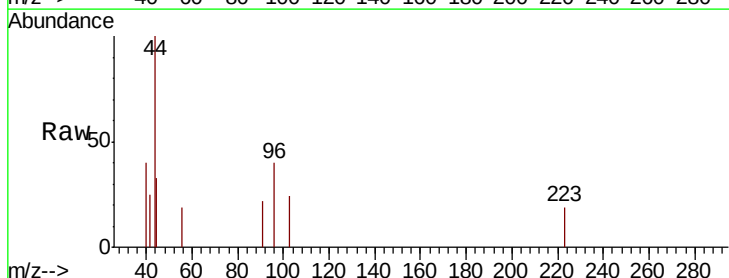


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

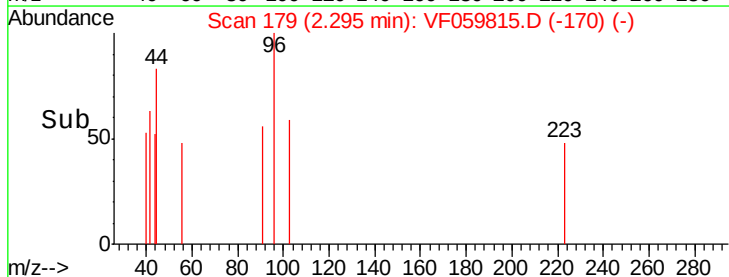
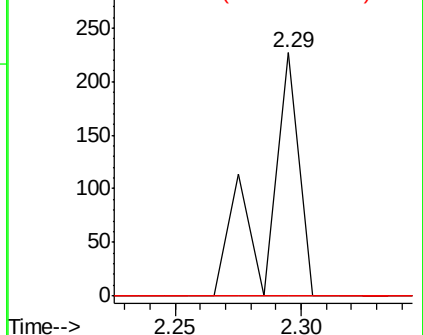


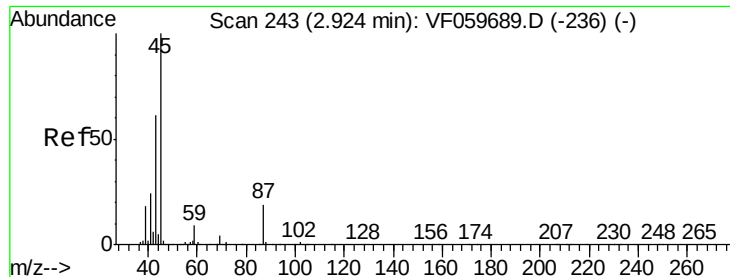
#21
trans-1,2-Dichloroethene
Concen: 57.12 ug/l
RT: 2.29 min Scan# 179
Delta R.T. -0.12 min
Lab File: VF059815.D
Acq: 2 Aug 2018 21:58

Tgt Ion:	96	Resp:	202
Ion	Ratio	Lower	Upper
96	100		
61	0.0	157.4	236.0#
98	0.0	55.0	82.4#



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: 11.22 ug/l

RT: 2.83 min Scan# 233

Delta R.T. -0.10 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

DUP-072518

Tot Ion: 45 Resp: 154

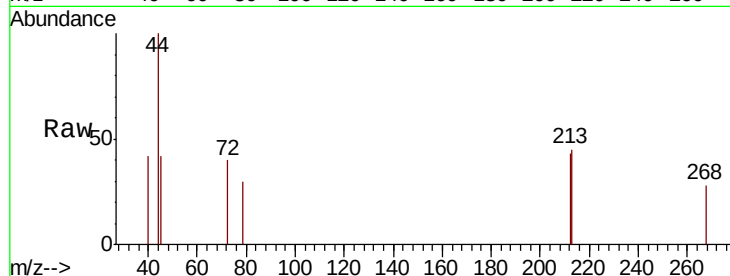
Ion Ratio Lower Upper

45 100

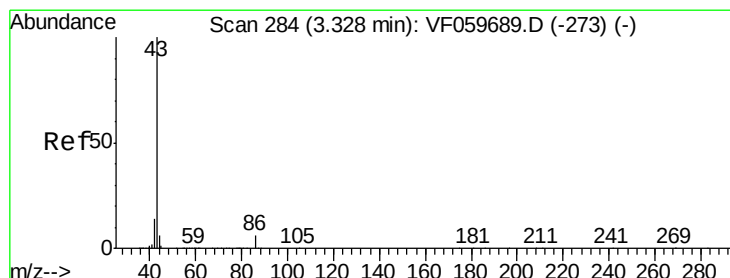
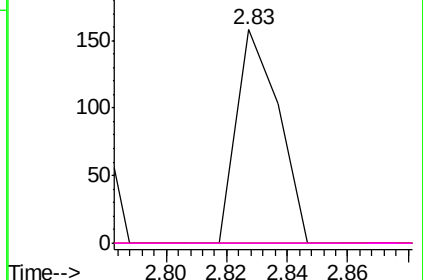
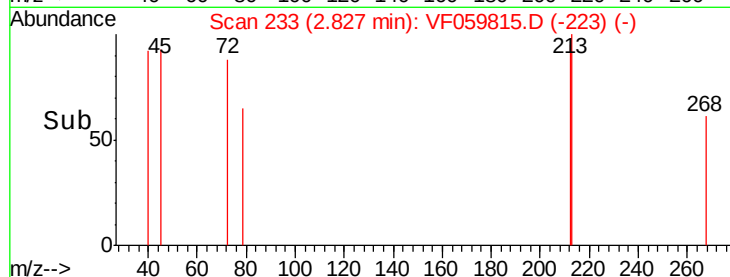
43 0.0 49.3 73.9#

87 0.0 15.3 22.9#

59 0.0 7.1 10.7#



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



#23

Vinyl Acetate

Concen: 15.02 ug/l

RT: 3.32 min Scan# 283

Delta R.T. -0.01 min

Lab File: VF059815.D

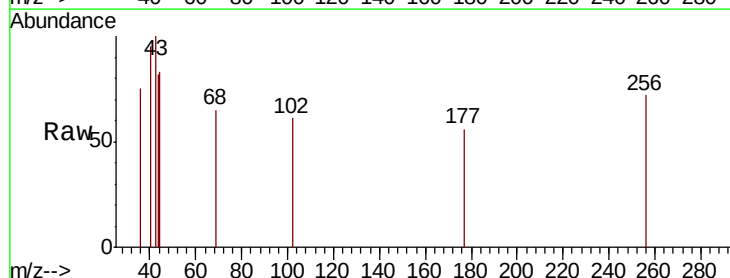
Acq: 2 Aug 2018 21:58

Tgt Ion: 43 Resp: 106

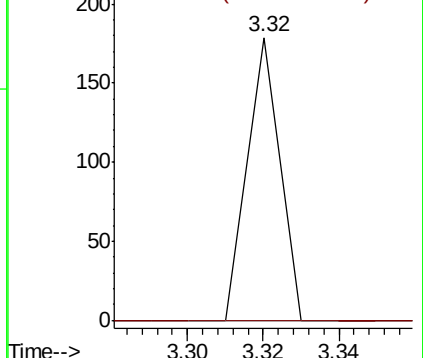
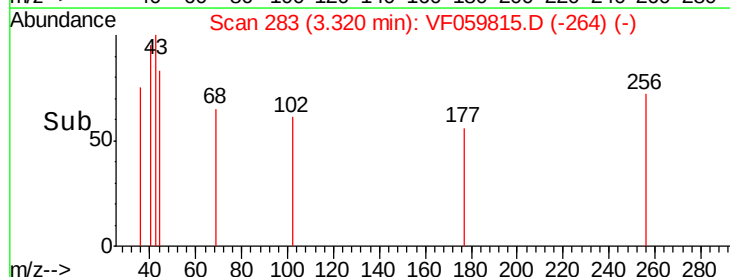
Ion Ratio Lower Upper

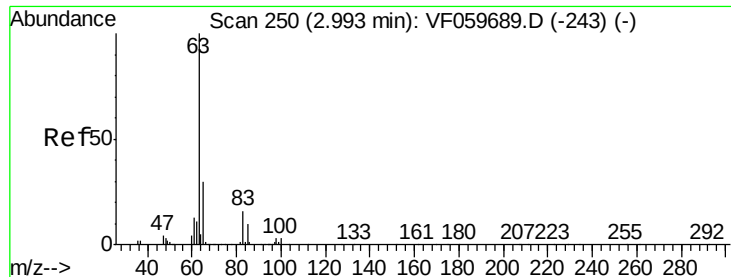
43 100

86 0.0 4.6 6.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 86.00 (85.70 to 86.70): VF0





#24

1,1-Dichloroethane

Concen: 11.64 ug/l

RT: 2.92 min Scan# 242

Delta R.T. -0.08 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

DUP-072518

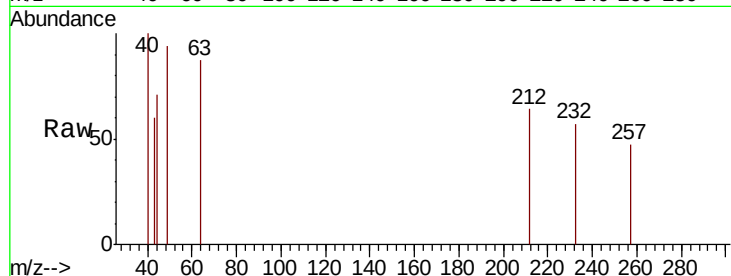
Tot Ion: 63 Resp: 111

Ion Ratio Lower Upper

63 100

98 0.0 1.4 4.2#

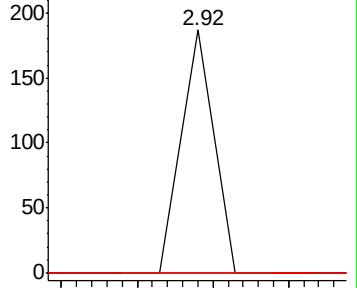
100 0.0 1.6 4.7#



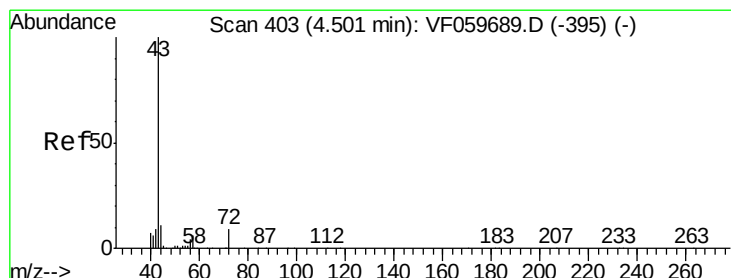
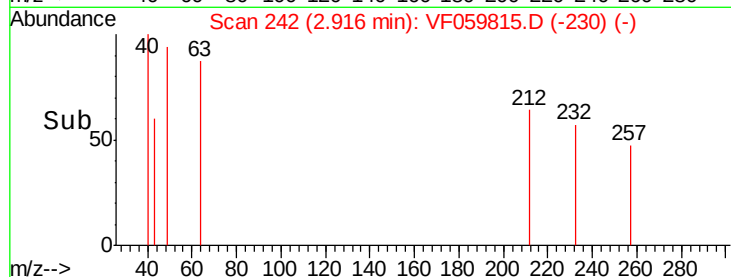
Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



Time--> 2.88 2.90 2.92 2.94



#25

2-Butanone

Concen: 261.35 ug/l

RT: 4.49 min Scan# 402

Delta R.T. -0.01 min

Lab File: VF059815.D

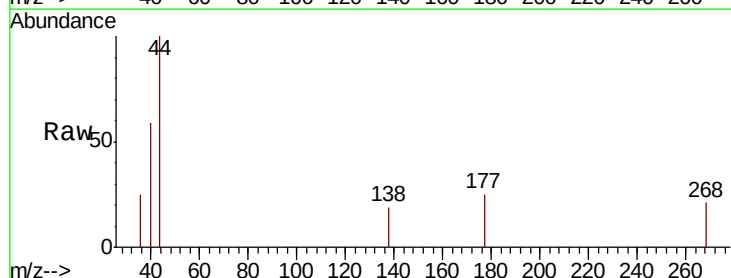
Acq: 2 Aug 2018 21:58

Tgt Ion: 43 Resp: 495

Ion Ratio Lower Upper

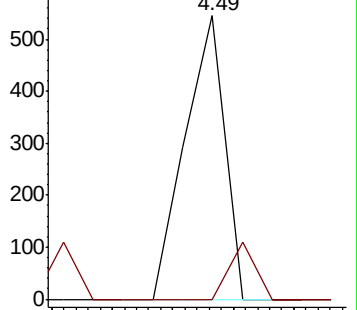
43 100

72 0.0 7.7 11.5#

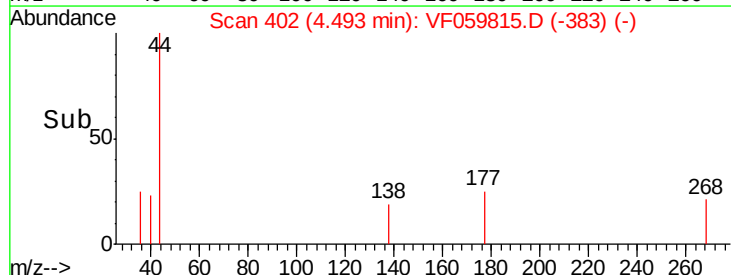


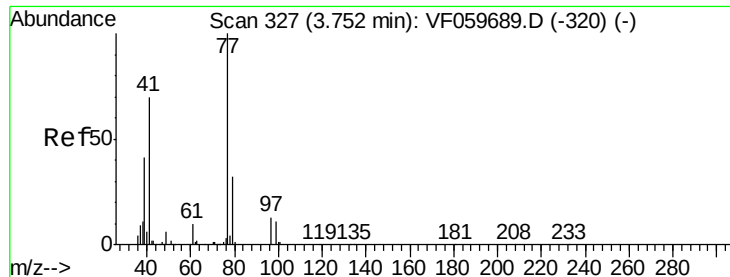
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



Time--> 4.44 4.46 4.48 4.50 4.52





#26

2,2-Dichloropropane

Concen: 18.39 ug/l

RT: 3.68 min Scan# 320

Delta R.T. -0.07 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

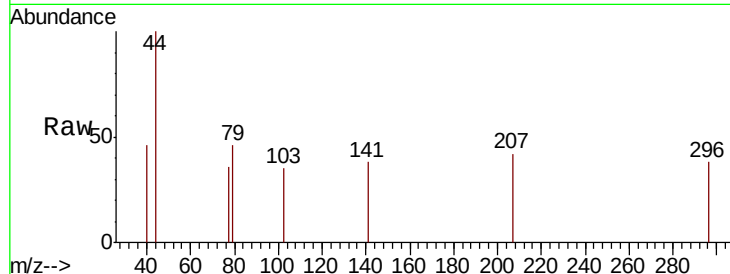
DUP-072518

Tot Ion: 77 Resp: 125

Ion Ratio Lower Upper

77 100

97 0.0 6.8 20.4#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

3.68

100

80

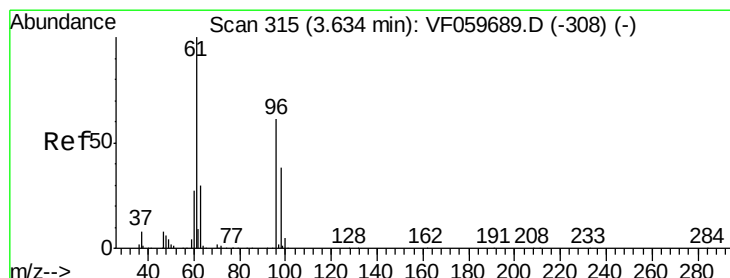
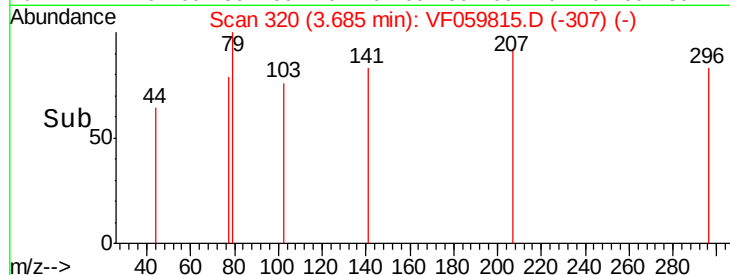
60

40

20

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 14.88 ug/l

RT: 3.49 min Scan# 300

Delta R.T. -0.15 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

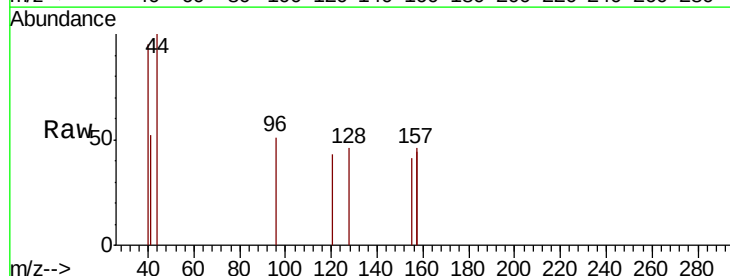
Tgt Ion: 96 Resp: 76

Ion Ratio Lower Upper

96 100

61 0.0 0.0 326.8

98 0.0 0.0 125.2



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

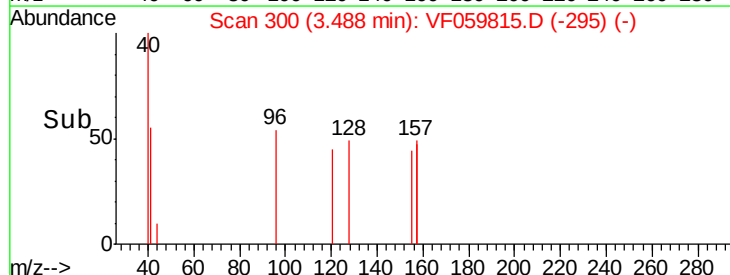
150

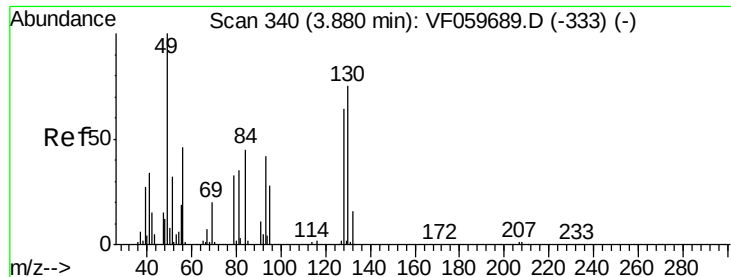
100

50

0

Time-->





#28

Bromochloromethane

Concen: 17.83 ug/l

RT: 4.01 min Scan# 353

Delta R.T. 0.13 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

DUP-072518

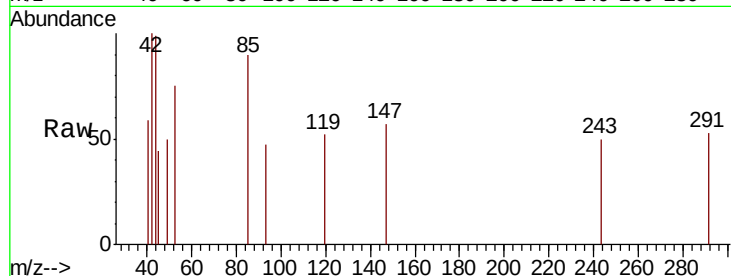
Tot Ion: 49 Resp: 69

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.8

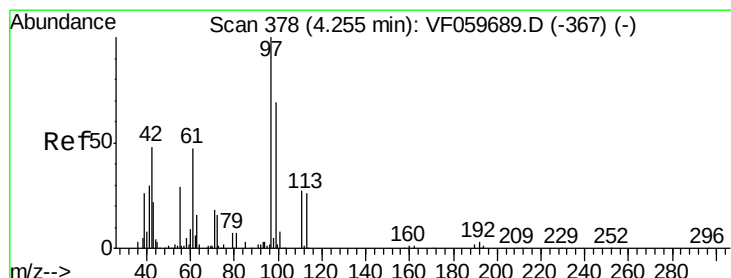
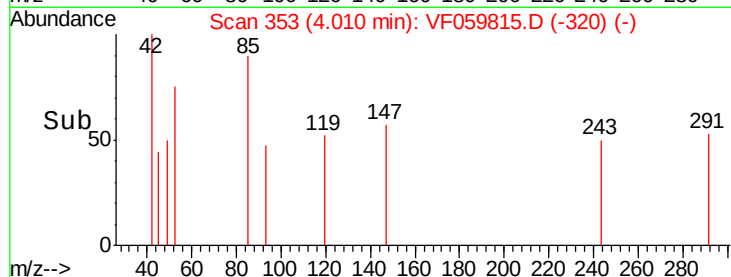
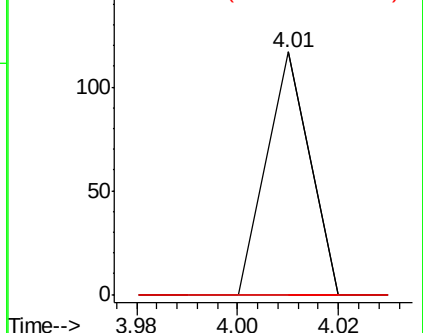
130 0.0 59.6 89.4#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): V

Ion 130.00 (129.70 to 130.70): V



#29

Tetrahydrofuran

Concen: 152.48 ug/l

RT: 4.14 min Scan# 366

Delta R.T. -0.12 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

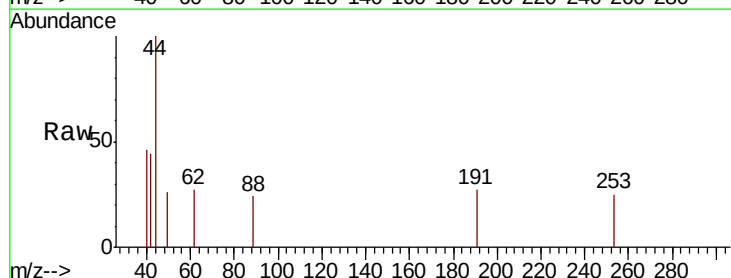
Tgt Ion: 42 Resp: 111

Ion Ratio Lower Upper

42 100

72 0.0 27.0 40.6#

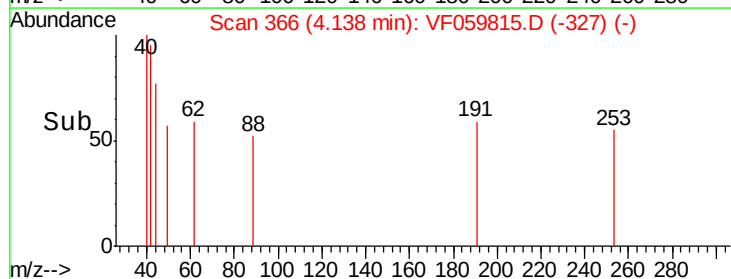
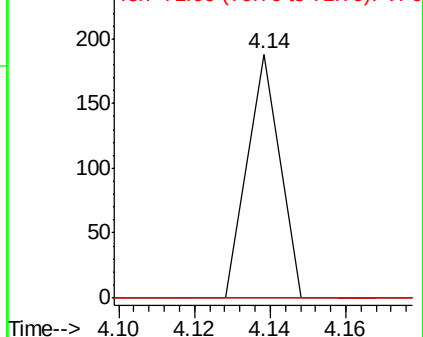
71 0.0 29.7 44.5#

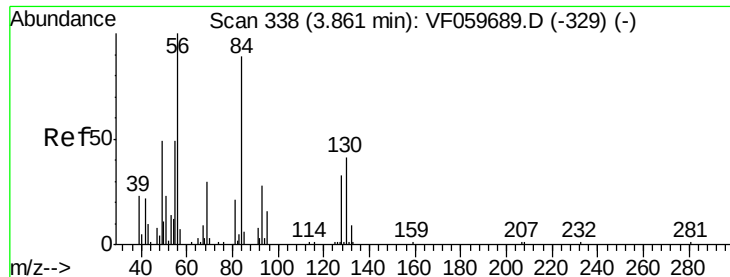


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

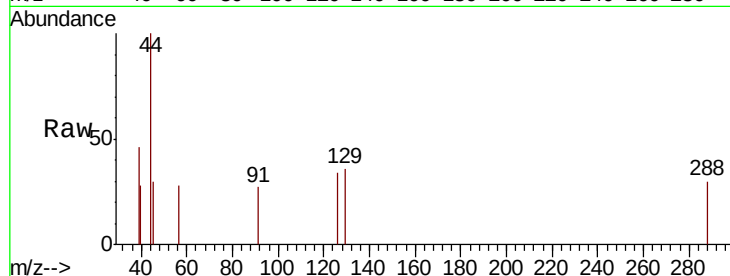




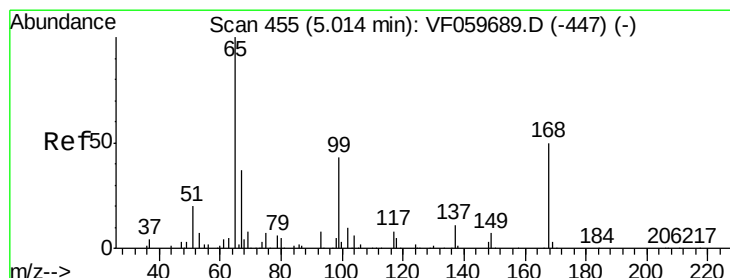
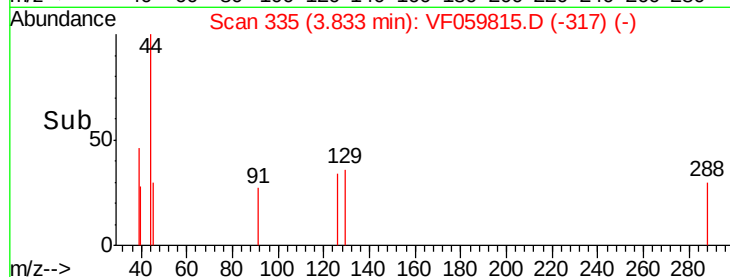
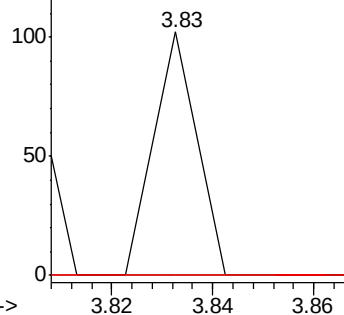
#31
Cyclohexane
Concen: 9.65 ug/l
RT: 3.83 min Scan# 335
Delta R.T. -0.03 min
Lab File: VF059815.D
Acq: 2 Aug 2018 21:58

Instrument :
MSVOA_F
ClientSampleId :
DUP-072518

Tot Ion: 56 Resp: 60
Ion Ratio Lower Upper
56 100
69 0.0 23.7 35.5#
84 0.0 71.1 106.7#

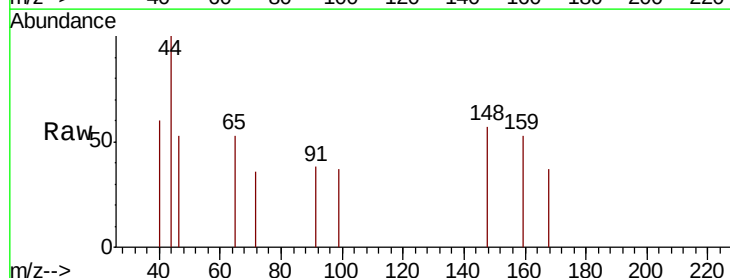


Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0

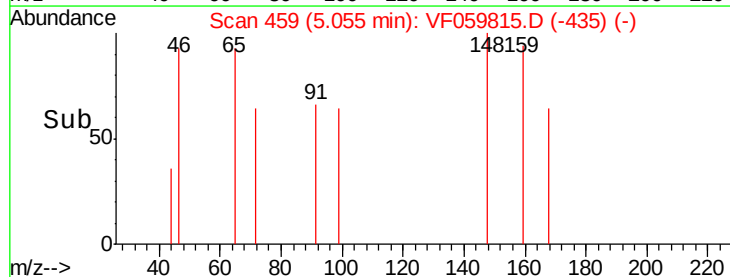
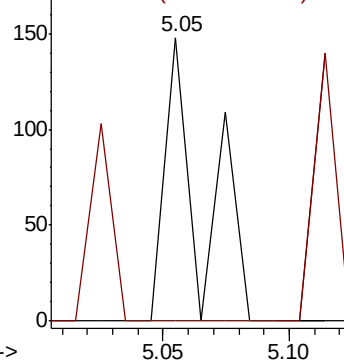


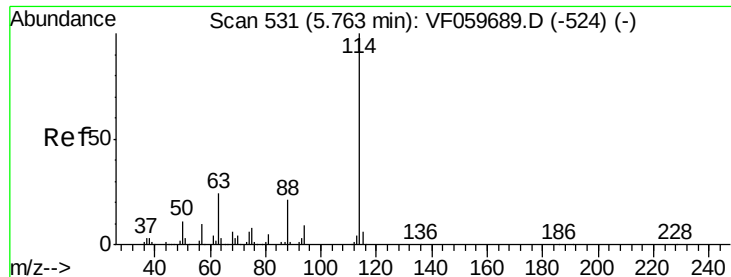
#33
1,2-Dichloroethane-d4
Concen: 16.11 ug/l
RT: 5.05 min Scan# 459
Delta R.T. 0.04 min
Lab File: VF059815.D
Acq: 2 Aug 2018 21:58

Tgt Ion: 65 Resp: 152
Ion Ratio Lower Upper
65 100
67 0.0 0.0 84.6



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.76 min Scan# 531

Delta R.T. 0.00 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

DUP-072518

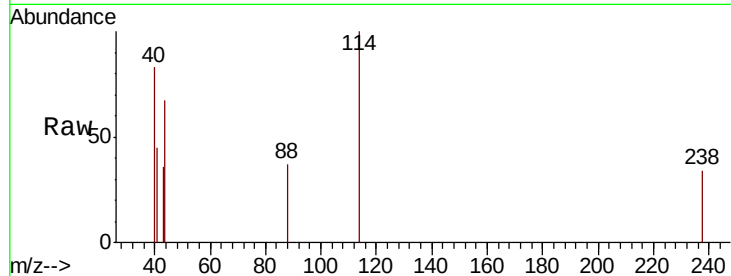
Tot Ion:114 Resp: 184

Ion Ratio Lower Upper

114 100

63 0.0 0.0 47.4

88 37.0 0.0 41.2

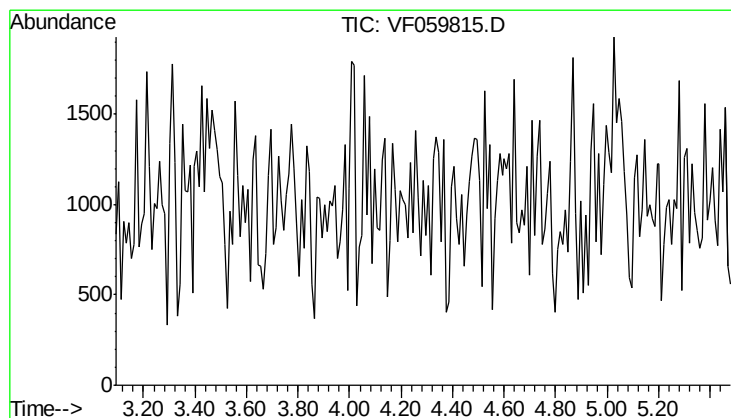
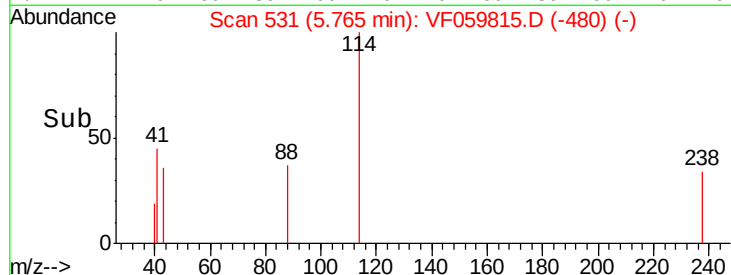


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

Time--> 5.74 5.76 5.78



#35

Dibromofluoromethane

Concen: 0.00 ug/l

Expected RT: 4.28 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

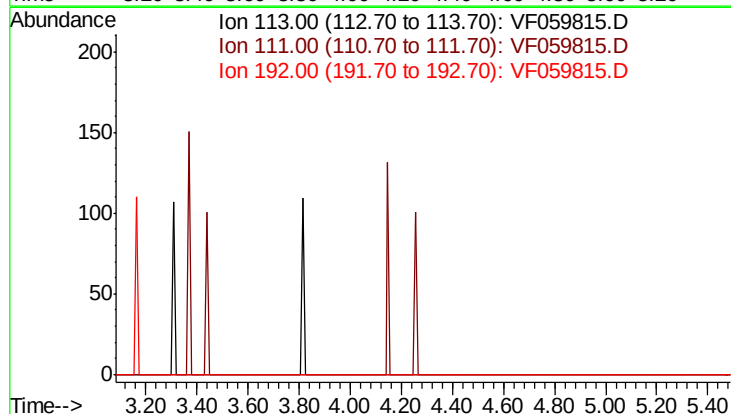
Tgt Ion: 113

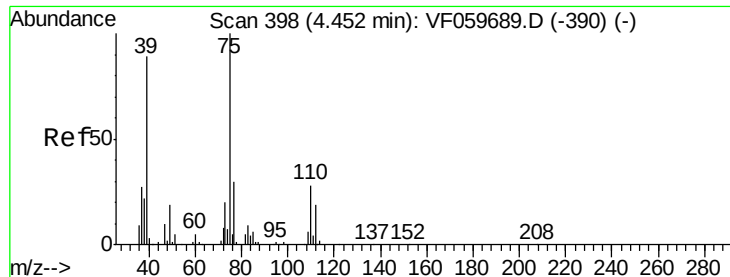
Sig Exp Ratio

113 100

111 98.7

192 16.5

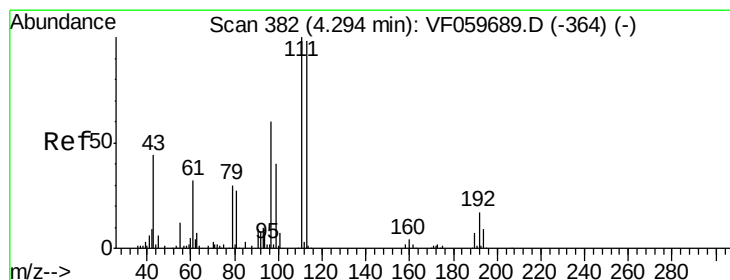
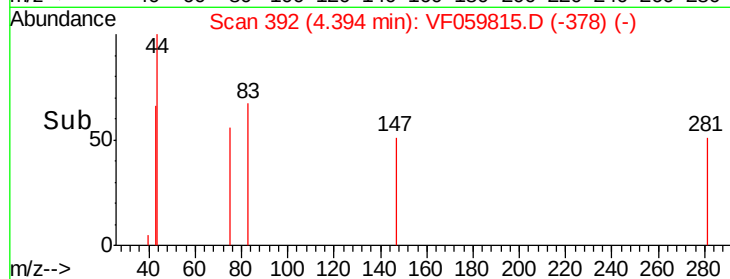
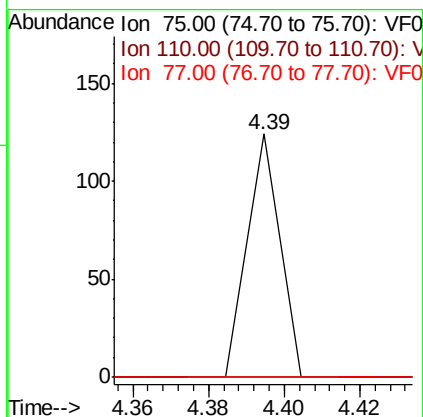
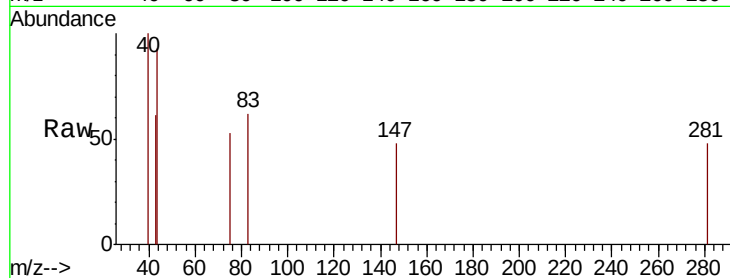




#36
 1,1-Dichloropropene
 Concen: 38.26 ug/l
 RT: 4.39 min Scan# 392
 Delta R.T. -0.06 min
 Lab File: VF059815.D
 Acq: 2 Aug 2018 21:58

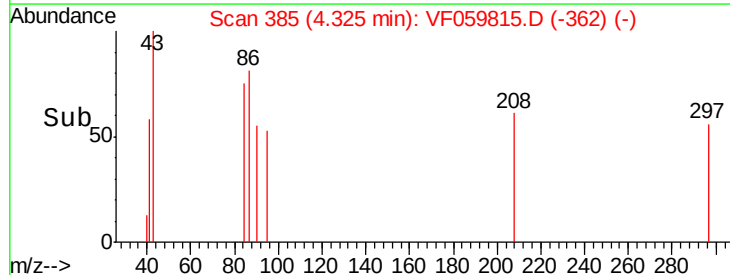
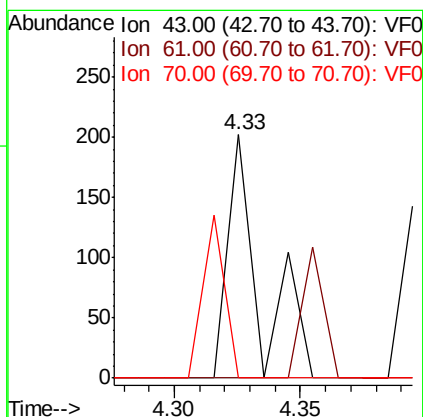
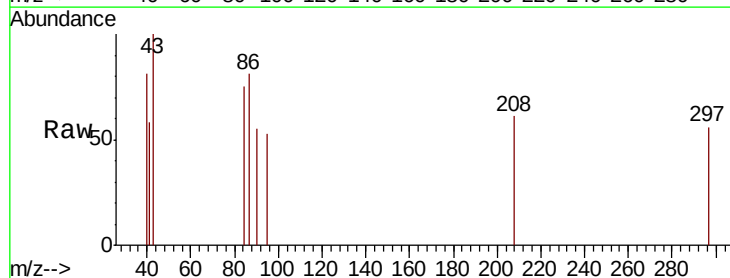
Instrument :
 MSVOA_F
 ClientSampleId :
 DUP-072518

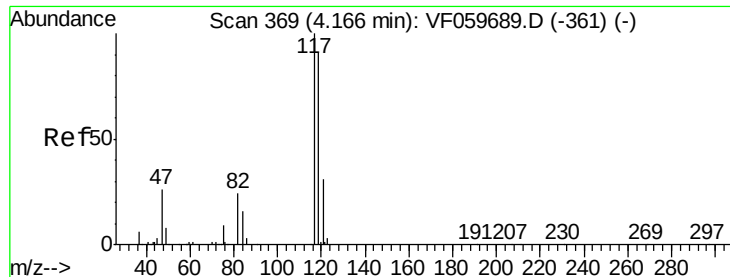
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	14.0	41.9#
77	0.0	24.2	36.2#



#37
 Ethyl Acetate
 Concen: 213.35 ug/l
 RT: 4.33 min Scan# 385
 Delta R.T. 0.03 min
 Lab File: VF059815.D
 Acq: 2 Aug 2018 21:58

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	58.2	87.2#
70	0.0	6.0	9.0#





#38

Carbon Tetrachloride

Concen: 33.84 ug/l

RT: 4.06 min Scan# 358

Delta R.T. -0.11 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

DUP-072518

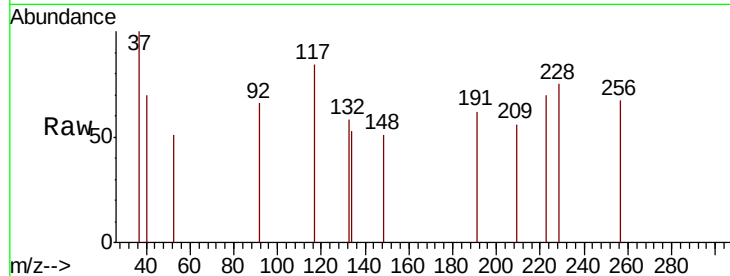
Tot Ion:117 Resp: 99

Ion Ratio Lower Upper

117 100

119 0.0 72.9 109.3#

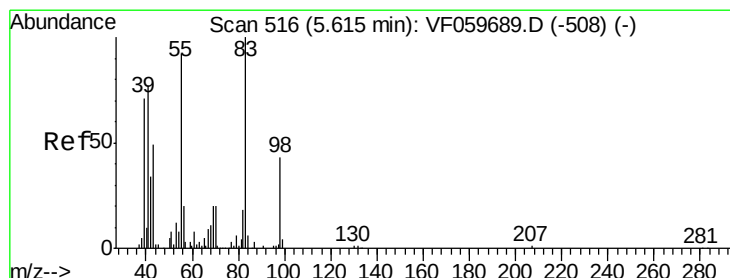
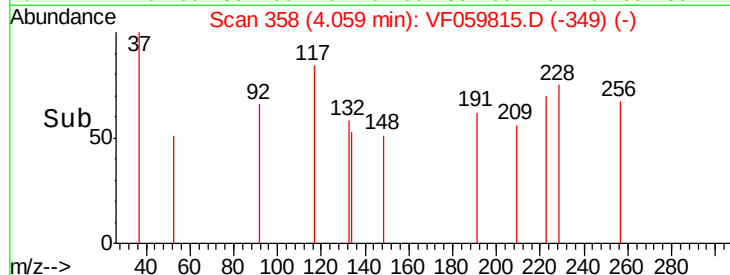
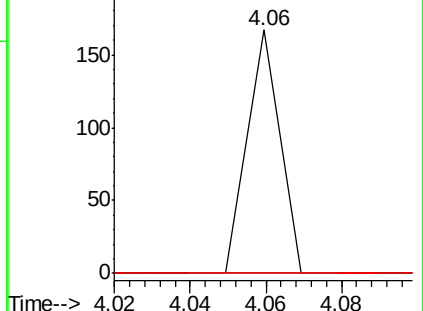
121 0.0 25.0 37.4#



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



#39

Methylcyclohexane

Concen: 46.91 ug/l

RT: 5.71 min Scan# 525

Delta R.T. 0.09 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

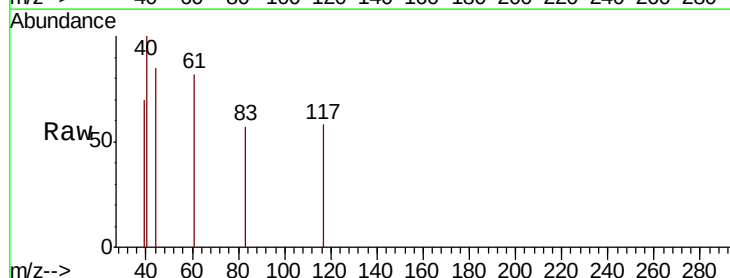
Tgt Ion: 83 Resp: 67

Ion Ratio Lower Upper

83 100

55 0.0 73.4 110.2#

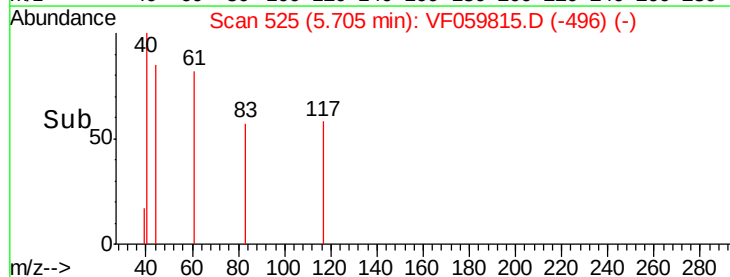
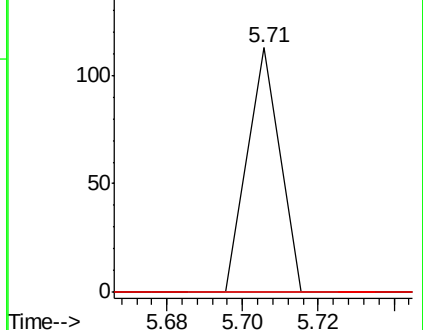
98 0.0 34.2 51.4#

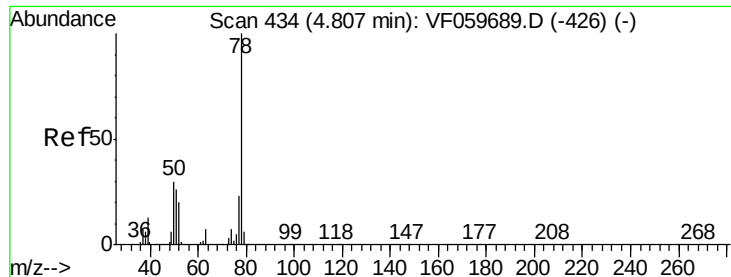


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#40

Benzene

Concen: 24.22 ug/l

RT: 4.85 min Scan# 438

Delta R.T. 0.04 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

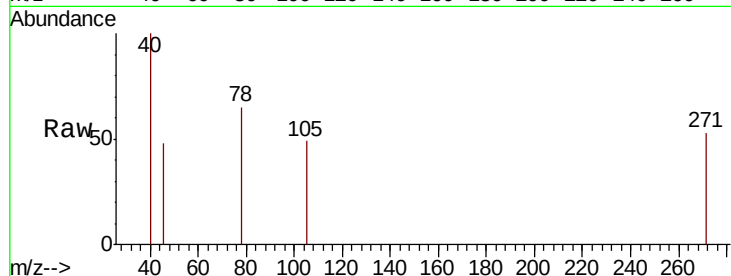
DUP-072518

Tot Ion: 78 Resp: 90

Ion Ratio Lower Upper

78 100

77 0.0 18.9 28.3#



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0

4.85

150

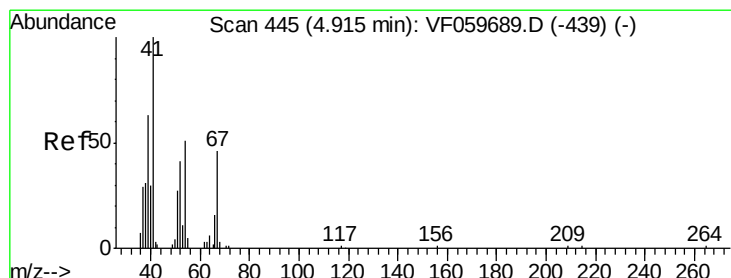
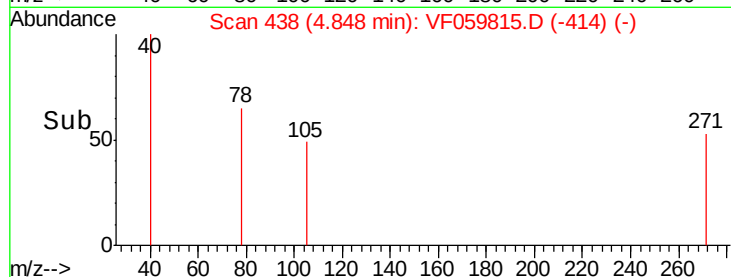
100

50

0

4.82 4.84 4.86 4.88

Time-->



#41

Methacrylonitrile

Concen: 385.88 ug/l

RT: 4.95 min Scan# 448

Delta R.T. 0.03 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

Tgt Ion: 41 Resp: 170

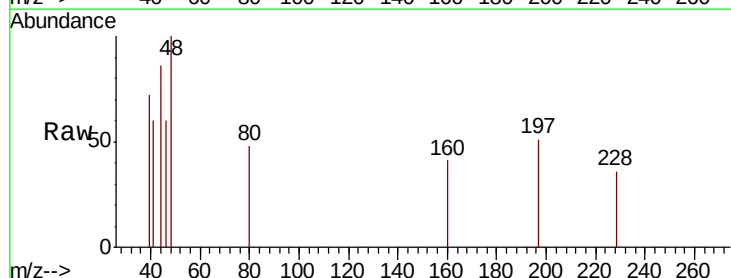
Ion Ratio Lower Upper

41 100

39 120.1 55.2 82.8#

67 0.0 36.2 54.2#

52 0.0 37.7 56.5#



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

4.95

250

200

150

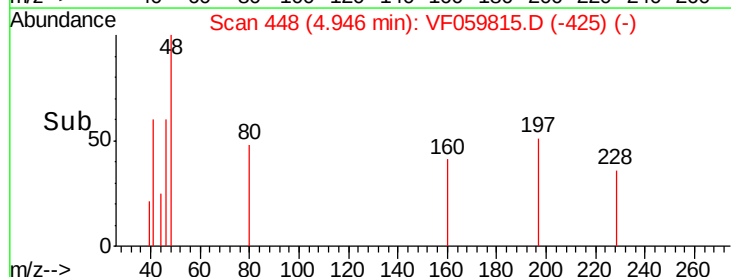
100

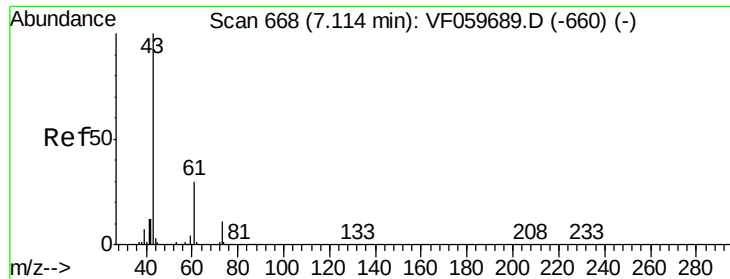
50

0

4.90 4.92 4.94 4.96 4.98

Time-->





#43

Isopropyl Acetate

Concen: 82.71 ug/l

RT: 7.13 min Scan# 670

Delta R.T. 0.02 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

DUP-072518

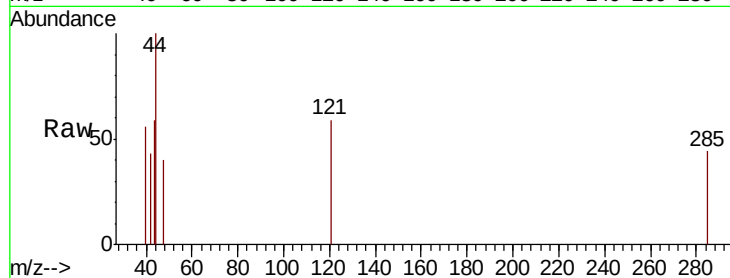
Tot Ion: 43 Resp: 91

Ion Ratio Lower Upper

43 100

61 0.0 23.8 35.8#

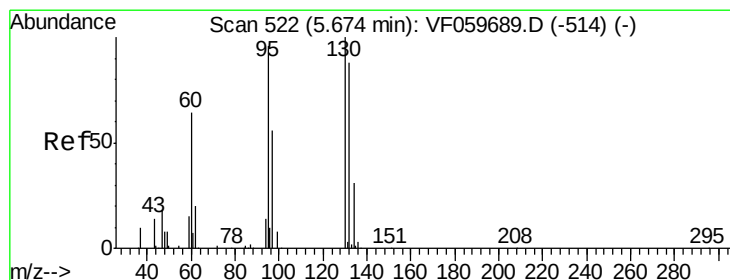
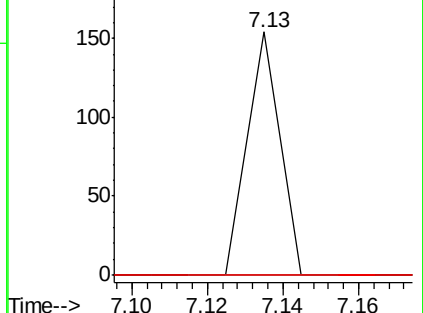
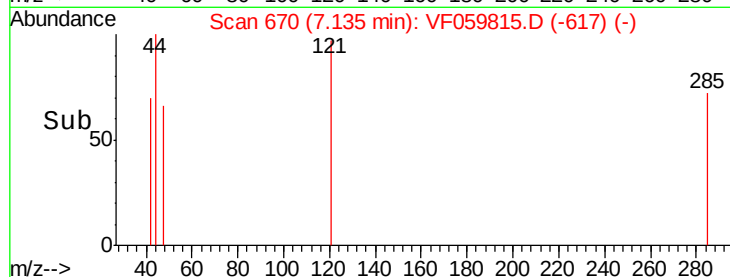
87 0.0 0.6 1.0#



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: 47.92 ug/l

RT: 5.73 min Scan# 527

Delta R.T. 0.05 min

Lab File: VF059815.D

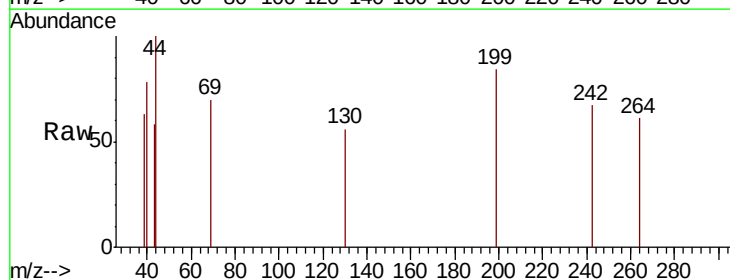
Acq: 2 Aug 2018 21:58

Tgt Ion: 130 Resp: 60

Ion Ratio Lower Upper

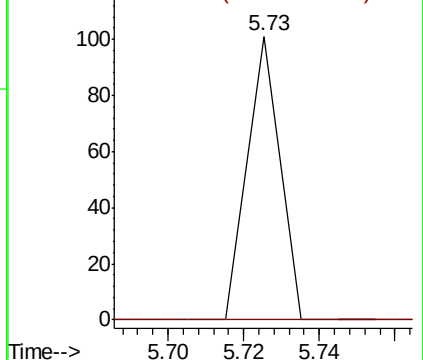
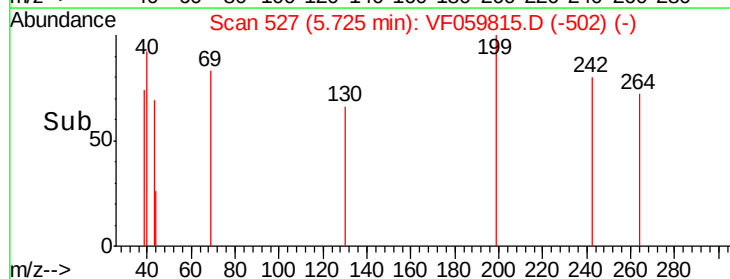
130 100

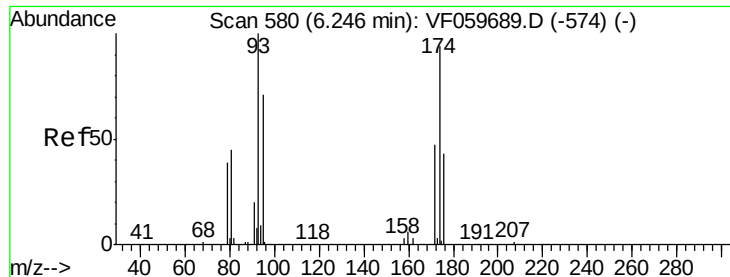
95 0.0 0.0 191.0



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0





#46

Dibromomethane

Concen: 104.12 ug/l

RT: 6.38 min Scan# 593

Delta R.T. 0.13 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

DUP-072518

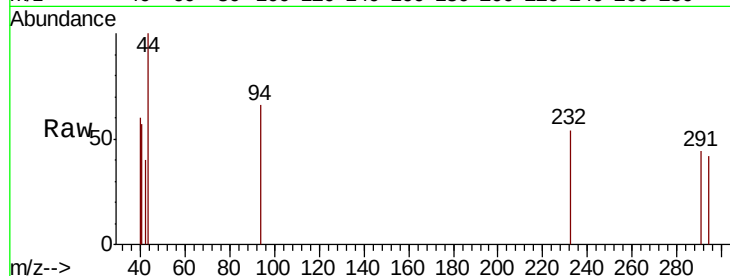
Tot Ion: 93 Resp: 97

Ion Ratio Lower Upper

93 100

95 0.0 57.1 85.7#

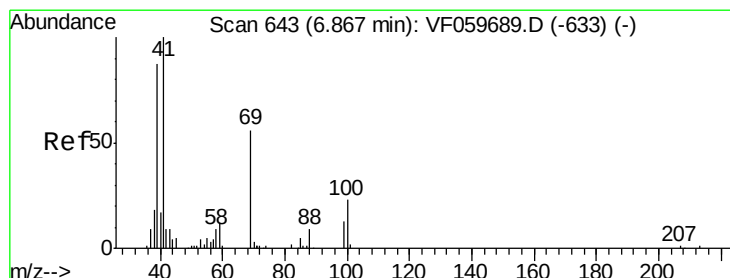
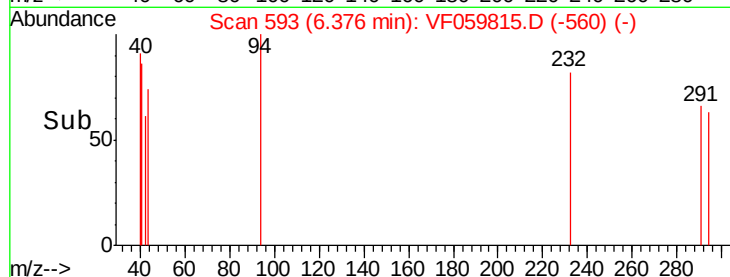
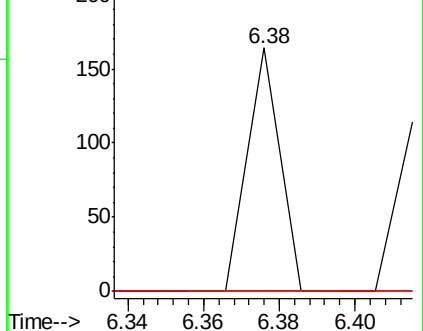
174 0.0 74.8 112.2#



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V



#48

Methyl methacrylate

Concen: 174.00 ug/l

RT: 6.95 min Scan# 651

Delta R.T. 0.08 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

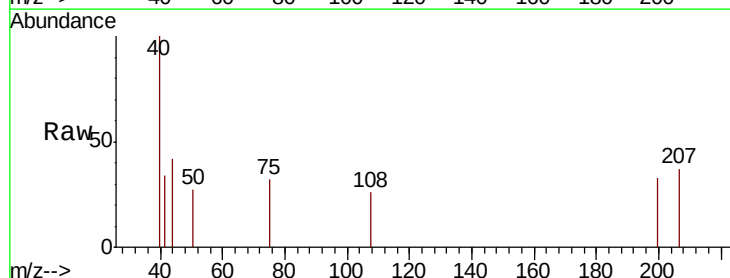
Tgt Ion: 41 Resp: 144

Ion Ratio Lower Upper

41 100

69 0.0 44.4 66.6#

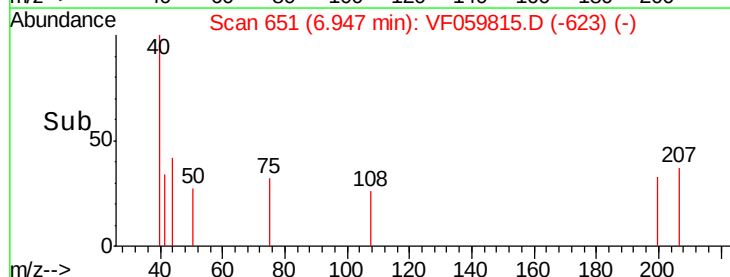
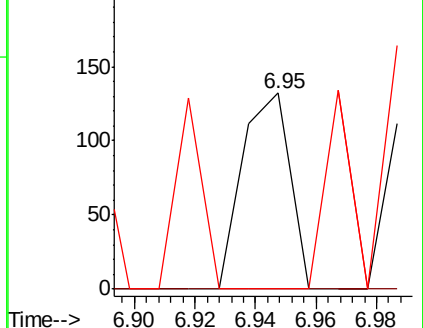
39 290.2 69.4 104.2#

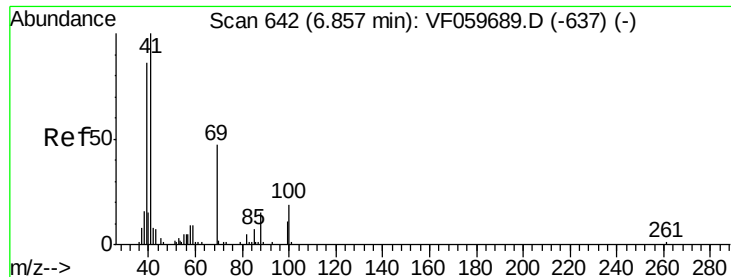


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 11659.42 ug/l

RT: 7.01 min Scan# 657

Delta R.T. 0.15 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

DUP-072518

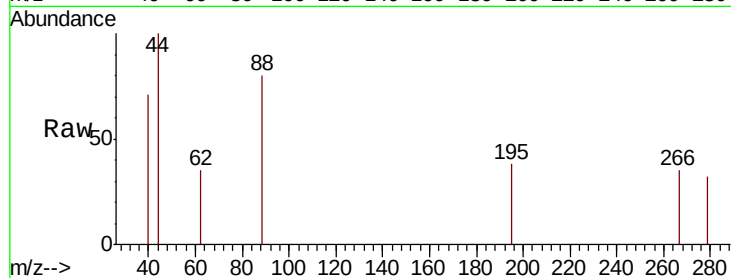
Tot Ion: 88 Resp: 154

Ion Ratio Lower Upper

88 100

43 0.0 45.2 67.8#

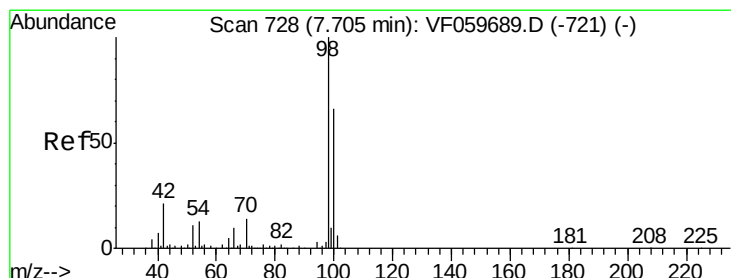
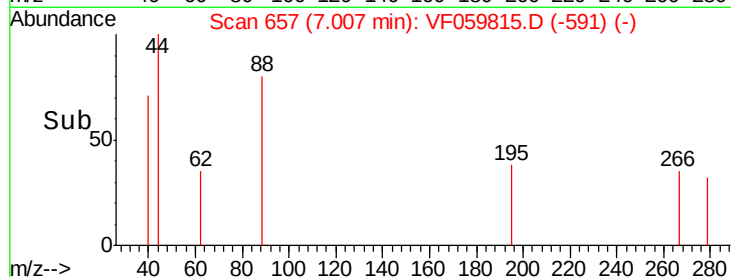
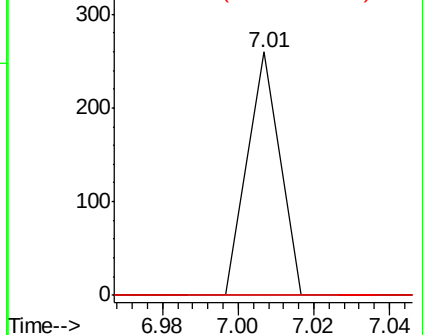
58 0.0 49.0 73.6#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 44.43 ug/l

RT: 7.69 min Scan# 726

Delta R.T. -0.02 min

Lab File: VF059815.D

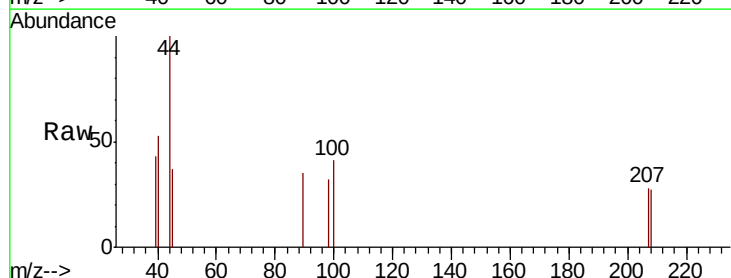
Acq: 2 Aug 2018 21:58

Tgt Ion: 98 Resp: 198

Ion Ratio Lower Upper

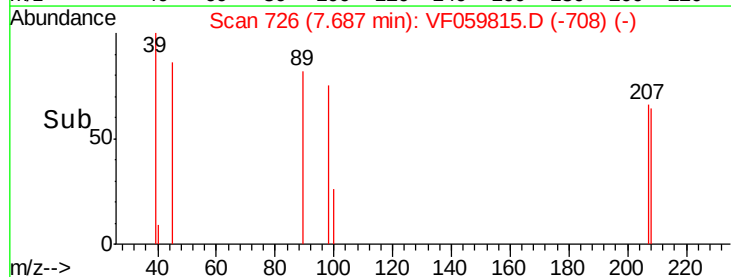
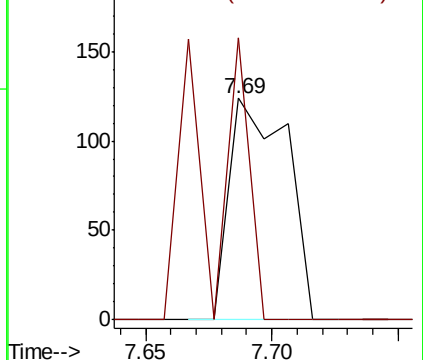
98 100

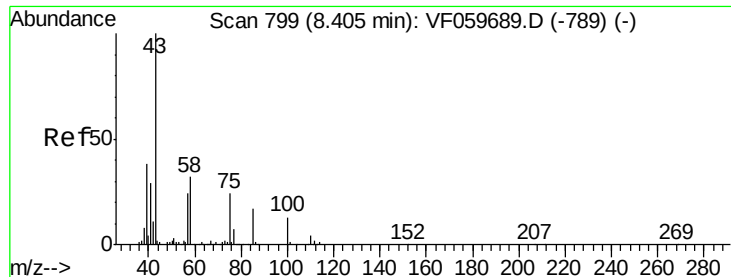
100 127.4 52.8 79.2#



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 72.88 ug/l

RT: 8.48 min Scan# 806

Delta R.T. 0.07 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

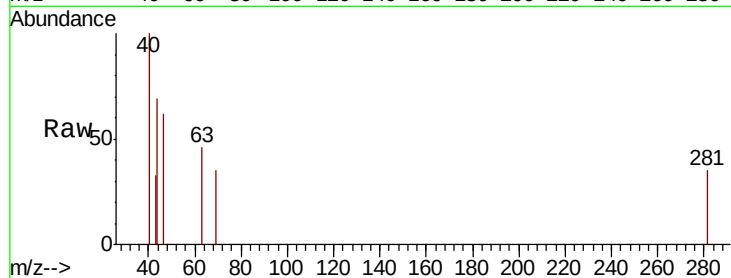
DUP-072518

Tot Ion: 43 Resp: 61

Ion Ratio Lower Upper

43 100

58 0.0 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.48

100

80

60

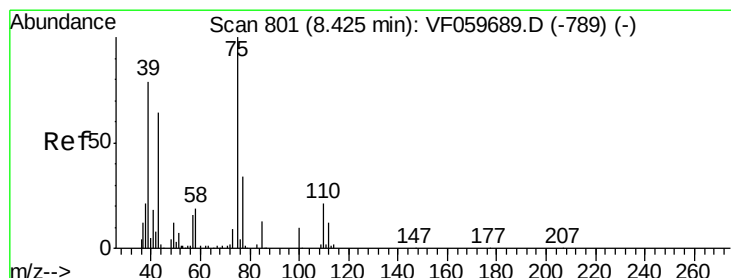
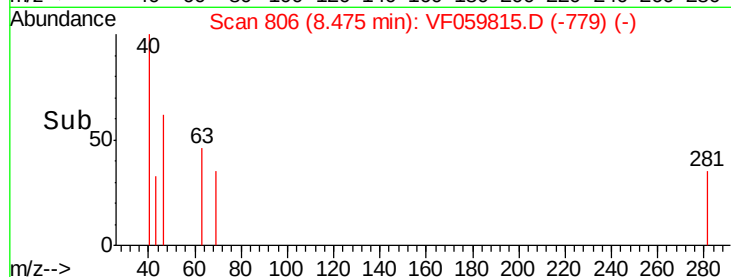
40

20

0

8.46 8.48

Time-->



#53

t-1,3-Dichloropropene

Concen: 34.52 ug/l

RT: 8.57 min Scan# 816

Delta R.T. 0.15 min

Lab File: VF059815.D

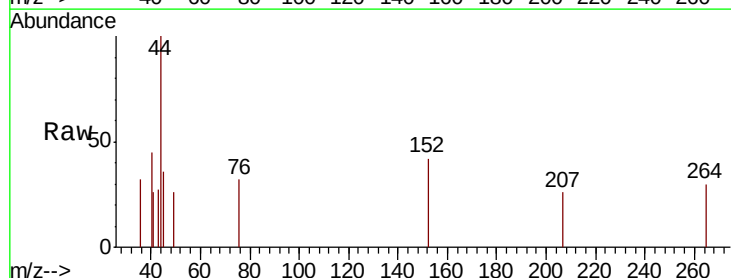
Acq: 2 Aug 2018 21:58

Tgt Ion: 75 Resp: 76

Ion Ratio Lower Upper

75 100

77 0.0 27.0 40.4#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

150

100

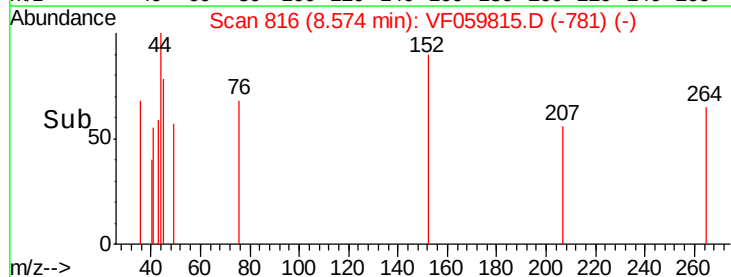
8.57

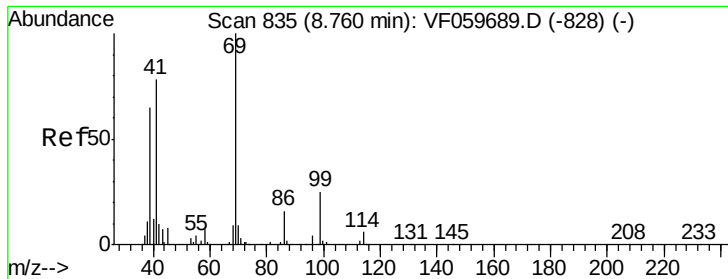
50

0

8.54 8.56 8.58

Time-->





#56

Ethyl methacrylate

Concen: 67.65 ug/l

RT: 8.59 min Scan# 818

Delta R.T. -0.17 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

DUP-072518

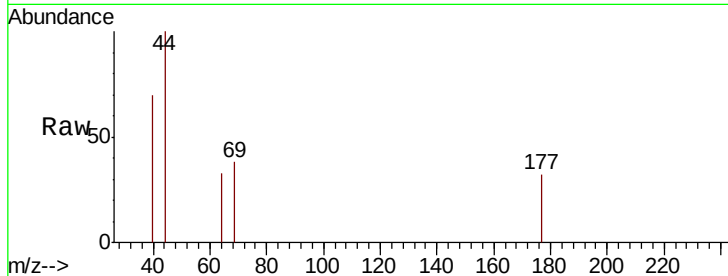
Tot Ion: 69 Resp: 71

Ion Ratio Lower Upper

69 100

41 0.0 62.3 93.5#

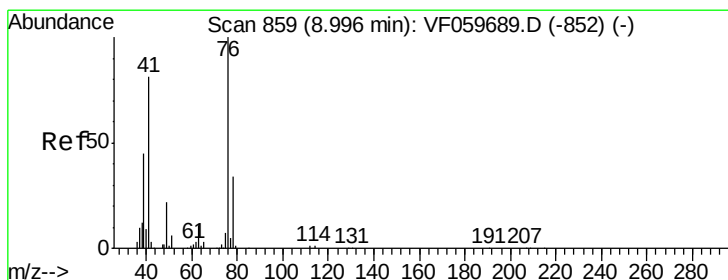
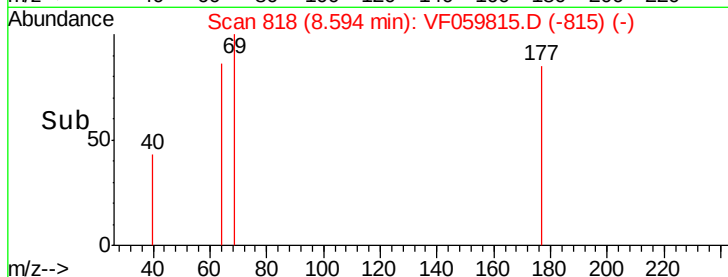
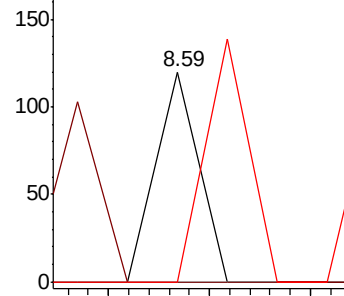
39 0.0 52.4 78.6#



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



#57

1,3-Dichloropropane

Concen: 39.97 ug/l

RT: 9.09 min Scan# 868

Delta R.T. 0.09 min

Lab File: VF059815.D

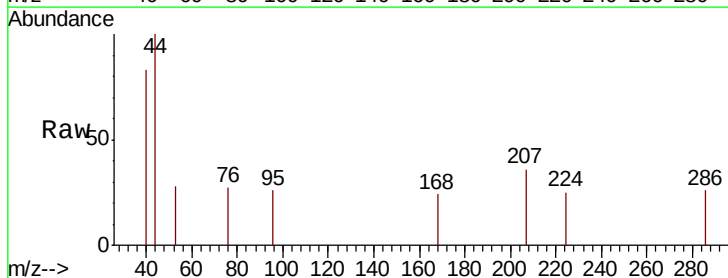
Acq: 2 Aug 2018 21:58

Tgt Ion: 76 Resp: 69

Ion Ratio Lower Upper

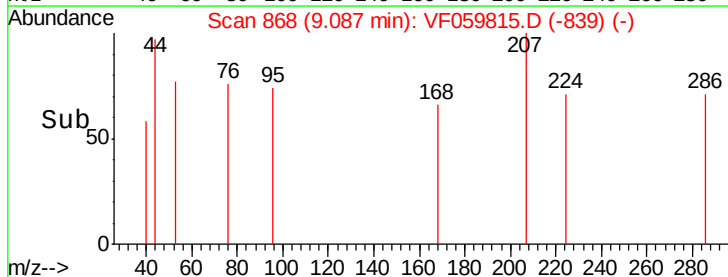
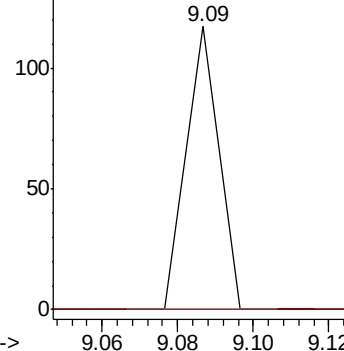
76 100

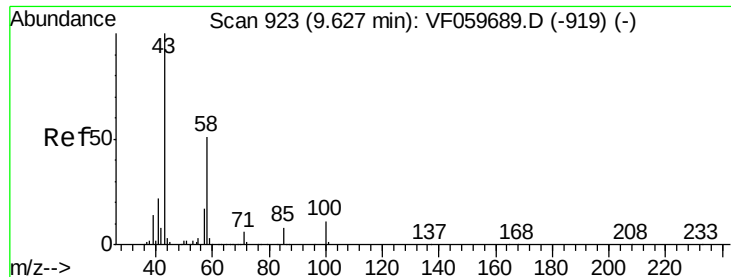
78 0.0 27.2 40.8#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

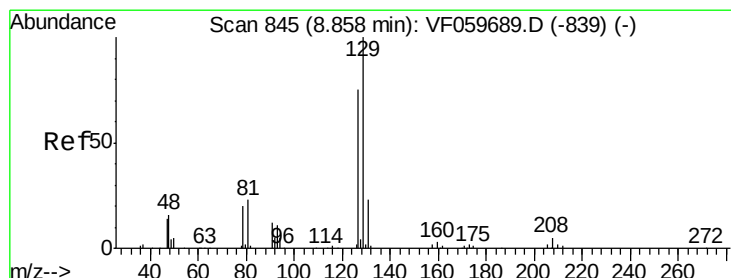
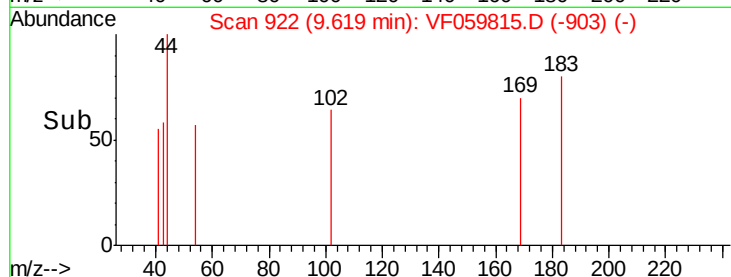
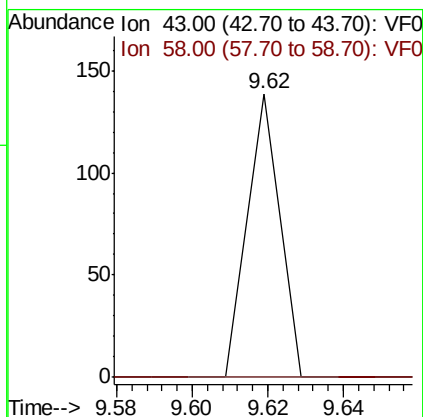
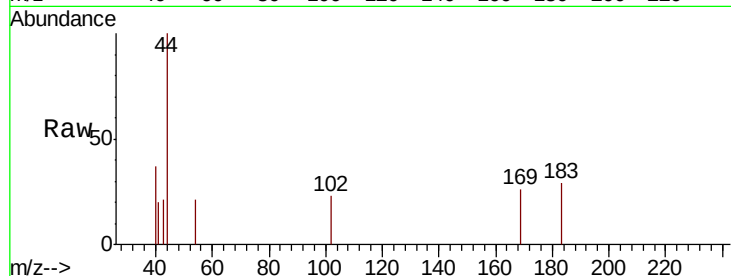




#59
2-Hexanone
Concen: 122.26 ug/l
RT: 9.62 min Scan# 922
Delta R.T. -0.01 min
Lab File: VF059815.D
Acq: 2 Aug 2018 21:58

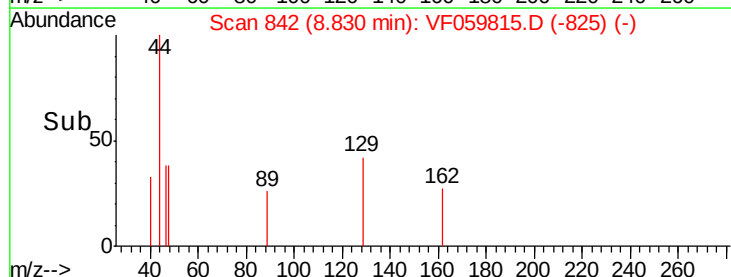
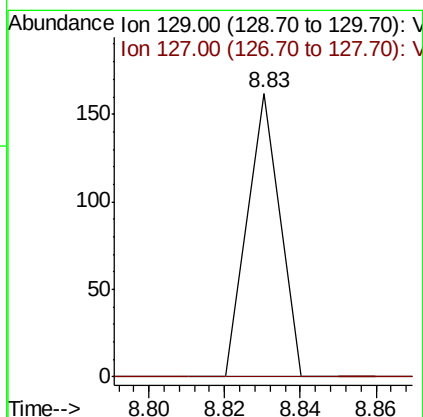
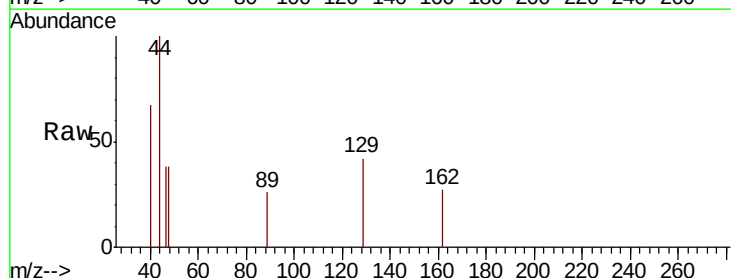
Instrument :
MSVOA_F
ClientSampleId :
DUP-072518

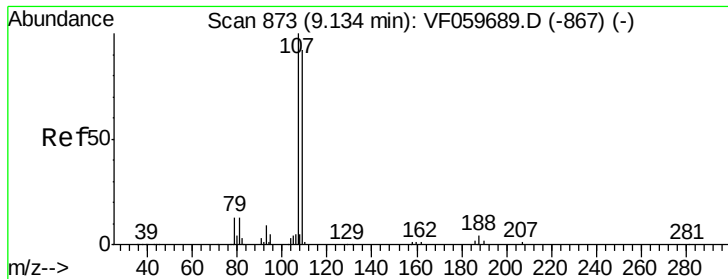
Tot Ion: 43 Resp: 82
Ion Ratio Lower Upper
43 100
58 0.0 23.3 69.8#



#60
Dibromochloromethane
Concen: 54.06 ug/l
RT: 8.83 min Scan# 842
Delta R.T. -0.03 min
Lab File: VF059815.D
Acq: 2 Aug 2018 21:58

Tgt Ion: 129 Resp: 96
Ion Ratio Lower Upper
129 100
127 0.0 37.7 113.1#





#61

1,2-Dibromoethane

Concen: 54.46 ug/l

RT: 9.22 min Scan# 882

Delta R.T. 0.09 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

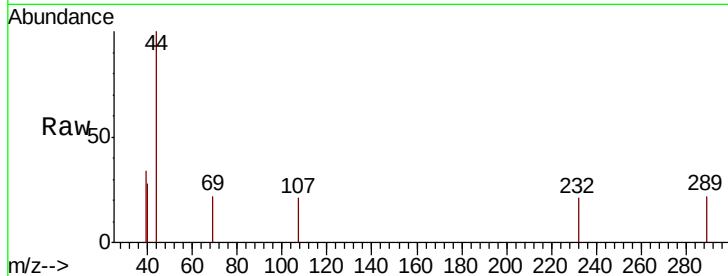
DUP-072518

Tot Ion:107 Resp: 64

Ion Ratio Lower Upper

107 100

109 0.0 73.6 110.4#

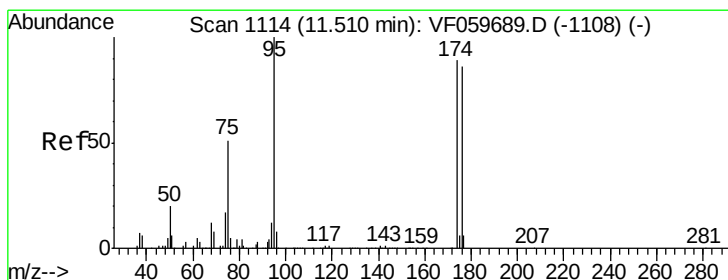
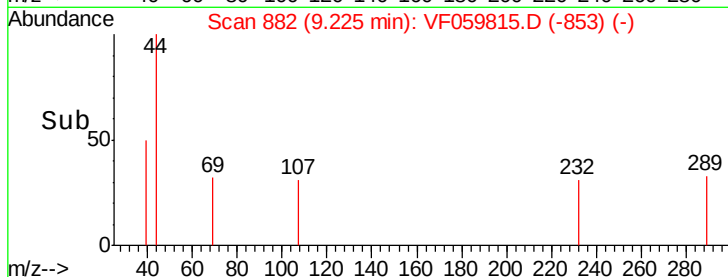


Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.22

Time-->



#62

4-Bromofluorobenzene

Concen: 25.13 ug/l

RT: 11.37 min Scan# 1100

Delta R.T. -0.14 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

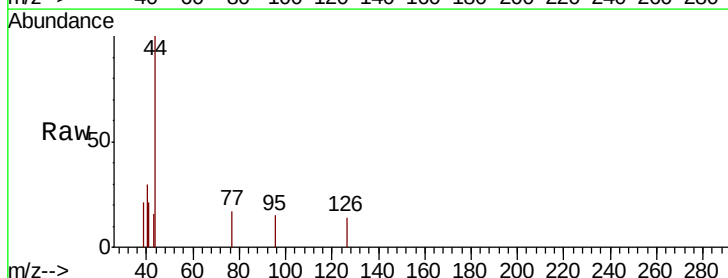
Tgt Ion: 95 Resp: 62

Ion Ratio Lower Upper

95 100

174 0.0 0.0 178.4

176 0.0 0.0 173.0



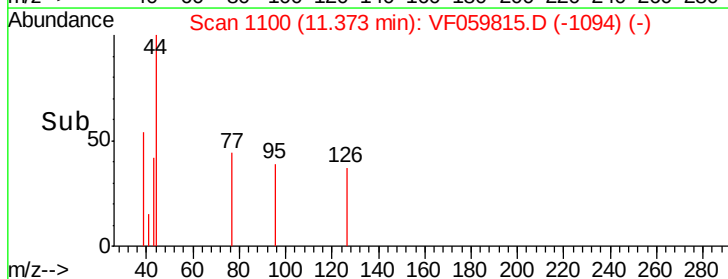
Abundance Ion 95.00 (94.70 to 95.70): VF0

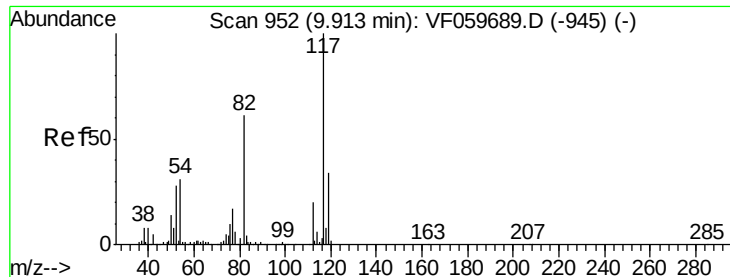
Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

11.37

Time-->

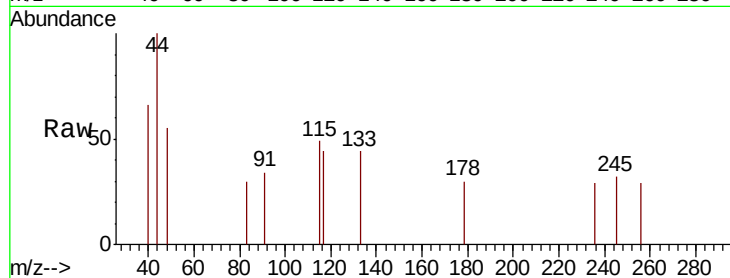




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.90 min Scan# 951
Delta R.T. -0.01 min
Lab File: VF059815.D
Acq: 2 Aug 2018 21:58

Instrument :
MSVOA_F
ClientSampleId :
DUP-072518

Tot Ion	Ratio	Lower	Upper
117	100		
82	0.0	49.0	73.4#
119	0.0	27.3	40.9#



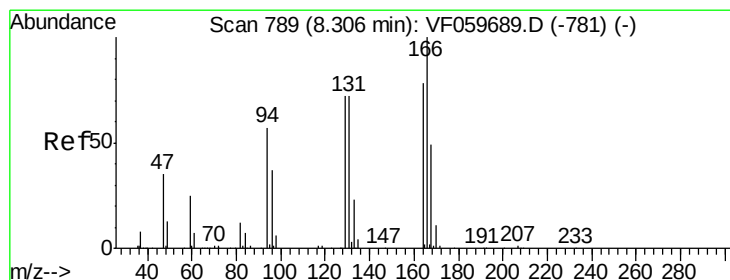
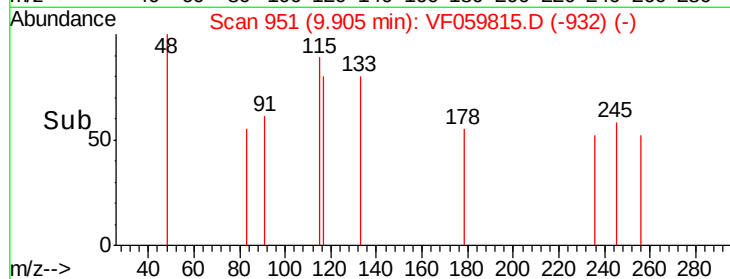
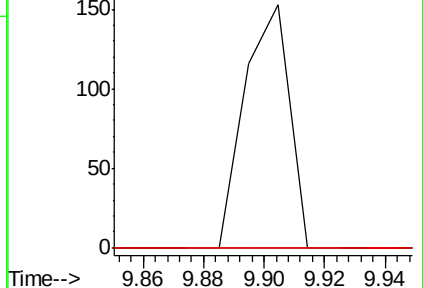
Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

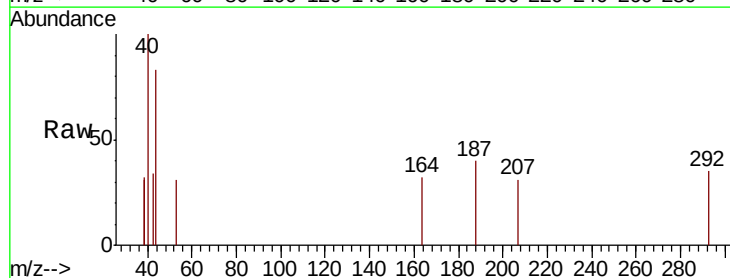
Ion 119.00 (118.70 to 119.70): V

9.90



#64
Tetrachloroethene
Concen: 64.65 ug/l
RT: 8.42 min Scan# 800
Delta R.T. 0.11 min
Lab File: VF059815.D
Acq: 2 Aug 2018 21:58

Tgt Ion	Ratio	Lower	Upper
164	100		
166	0.0	102.1	153.1#
129	0.0	73.8	110.6#
131	0.0	73.1	109.7#



Abundance

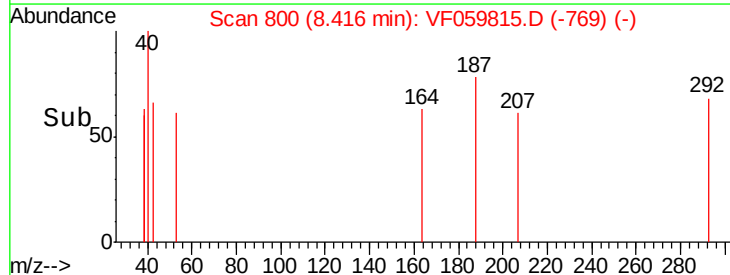
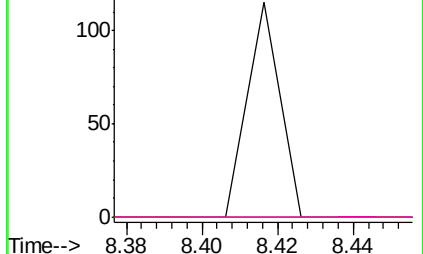
Ion 163.85 (163.55 to 164.55): V

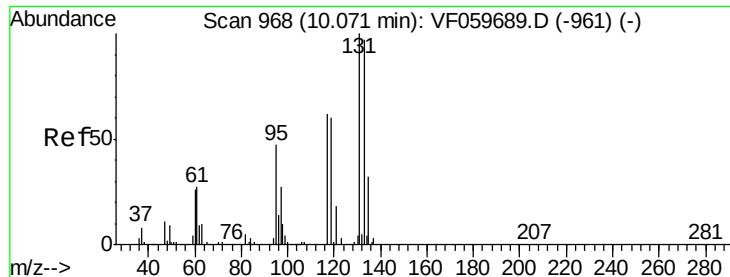
Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V

8.42





#66

1,1,1,2-Tetrachloroethane

Concen: 41.75 ug/l

RT: 10.14 min Scan# 975

Delta R.T. 0.07 min

Lab File: VF059815.D

Acq: 2 Aug 2018 21:58

Instrument :

MSVOA_F

ClientSampleId :

DUP-072518

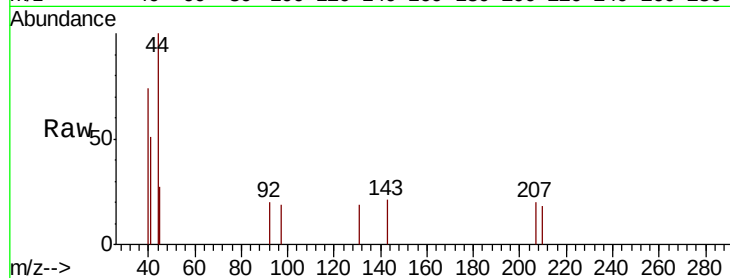
Tot Ion:131 Resp: 62

Ion Ratio Lower Upper

131 100

133 0.0 48.5 145.5#

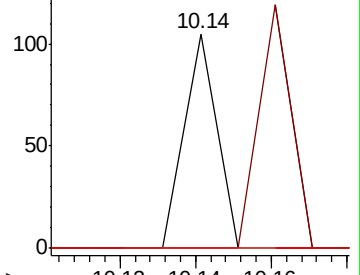
119 0.0 30.3 90.8#



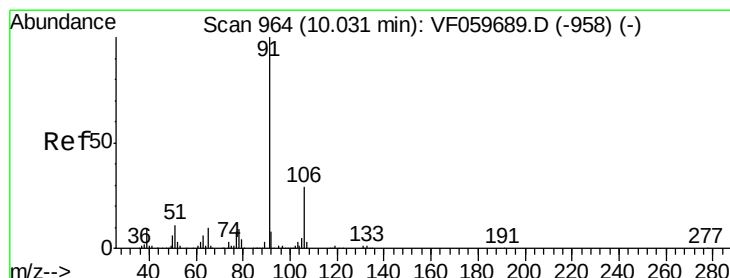
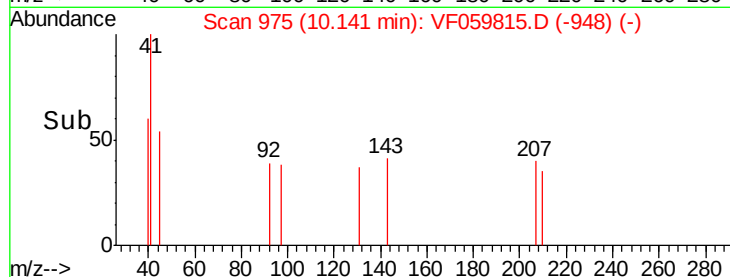
Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



Time-->



#67

Ethyl Benzene

Concen: 12.72 ug/l

RT: 9.90 min Scan# 951

Delta R.T. -0.13 min

Lab File: VF059815.D

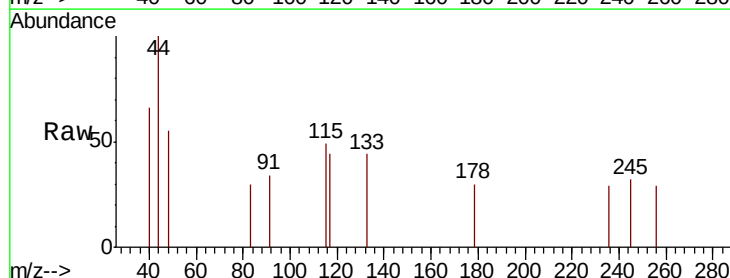
Acq: 2 Aug 2018 21:58

Tgt Ion: 91 Resp: 70

Ion Ratio Lower Upper

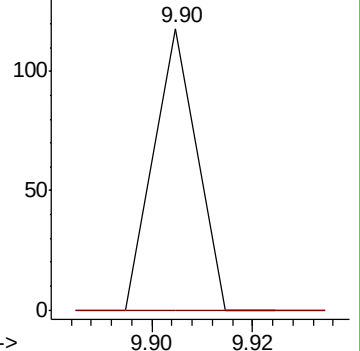
91 100

106 0.0 22.9 34.3#

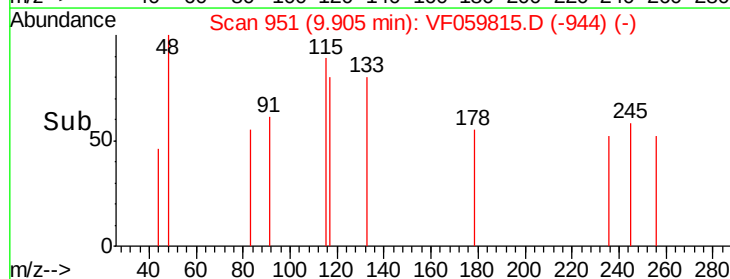


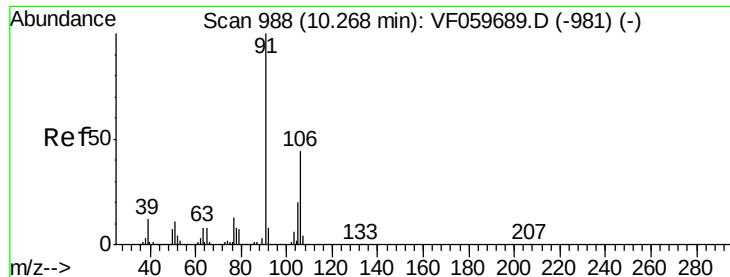
Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



Time-->

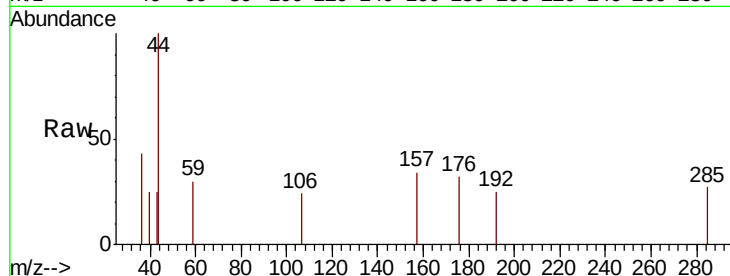




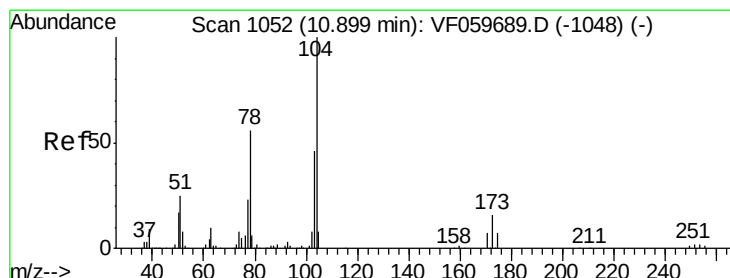
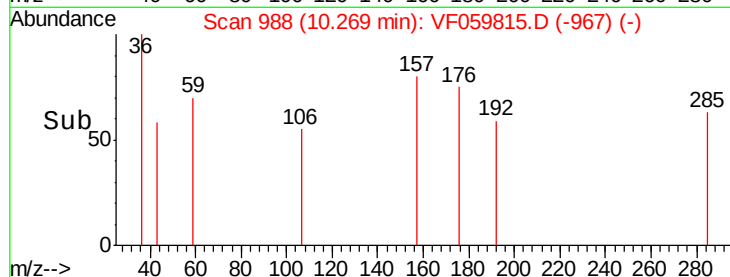
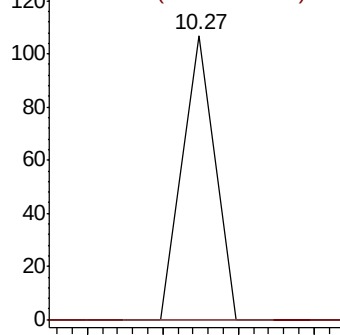
#68
m/p-Xylenes
Concen: 31.20 ug/l
RT: 10.27 min Scan# 988
Delta R.T. 0.00 min
Lab File: VF059815.D
Acq: 2 Aug 2018 21:58

Instrument :
MSVOA_F
ClientSampleId :
DUP-072518

Tot Ion:106 Resp: 63
Ion Ratio Lower Upper
106 100
91 0.0 181.7 272.5#

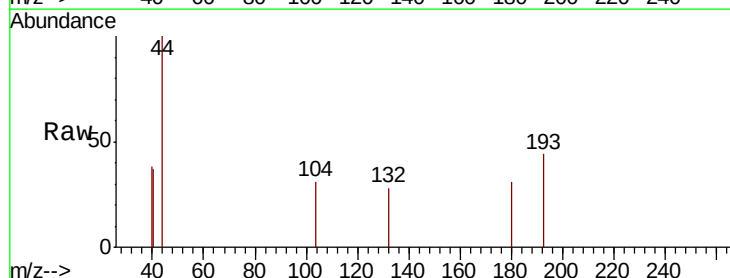


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

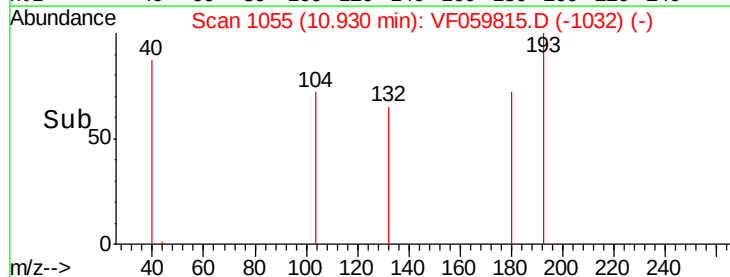
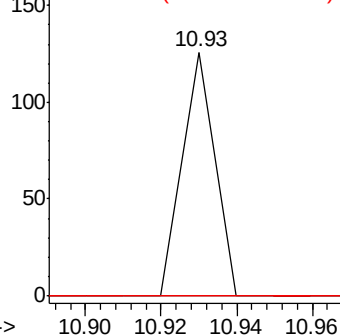


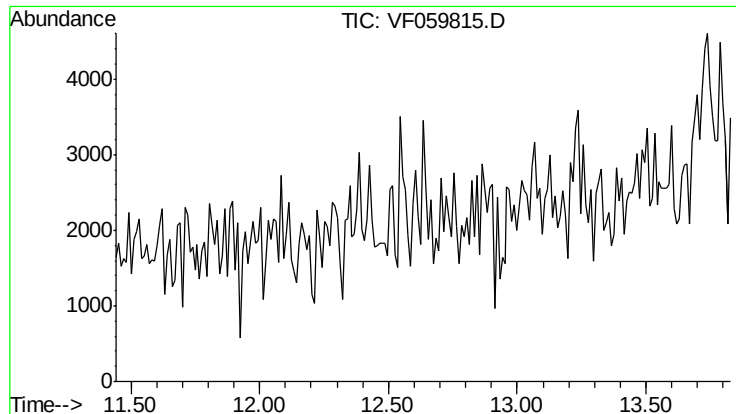
#70
Styrene
Concen: 24.42 ug/l
RT: 10.93 min Scan# 1055
Delta R.T. 0.03 min
Lab File: VF059815.D
Acq: 2 Aug 2018 21:58

Tgt Ion:104 Resp: 75
Ion Ratio Lower Upper
104 100
78 0.0 45.3 67.9#
103 0.0 36.6 54.8#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VF0
Ion 103.00 (102.70 to 103.70): V





#72
1,4-Dichlorobenzene-d4
Concen: 0.00 ug/l
Expected RT: 12.63 min
Lab File: VF059815.D
Acq: 2 Aug 2018 21:58

Instrument :
MSVOA_F
ClientSampleId :
DUP-072518

Tot Ion	152
Sig	Exp Ratio
152	100
115	56.4
150	158.1

