

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080418\
 Data File : VF059876.D
 Acq On : 4 Aug 2018 10:42
 Operator : VA/AP
 Sample : J4323-01
 Misc : 6.58g/5mL/MSVOA F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 ES-RO-276

Quant Time: Aug 06 02:17:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F080418S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 04 07:08:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	3569	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.78	114	2960	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.93	117	1827	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.64	152	606	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.03	65	522	8.11	ug/l	0.00
Spiked Amount			Recovery	=	16.22%	
35) Dibromofluoromethane	4.29	113	772	26.21	ug/l	0.00
Spiked Amount			Recovery	=	52.42%	
50) Toluene-d8	7.71	98	1686	26.91	ug/l	0.00
Spiked Amount			Recovery	=	53.82%	
62) 4-Bromofluorobenzene	11.51	95	588	16.70	ug/l	0.00
Spiked Amount			Recovery	=	33.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.10	50	99	3.51	ug/l #	42
4) Vinyl Chloride	1.13	62	83	2.87	ug/l #	39
6) Chloroethane	1.38	64	80	4.41	ug/l #	41
8) Diethyl Ether	1.56	74	66	5.26	ug/l #	1
11) Tert butyl alcohol	2.61	59	62	23.89	ug/l #	74
12) 1,1-Dichloroethene	1.91	96	78	2.45	ug/l #	1
13) Acrolein	2.19	56	60	38.58	ug/l #	9
14) Allyl chloride	2.25	41	67	1.26	ug/l #	1
15) Acrylonitrile	3.02	53	67	14.09	ug/l #	13
16) Acetone	2.35	43	60	5.05	ug/l #	70
17) Carbon Disulfide	2.00	76	88	1.03	ug/l #	70
18) Methyl Acetate	2.45	43	203	10.13	ug/l #	74
20) Methylene Chloride	2.25	84	71	Below Cal	#	1
21) trans-1,2-Dichloroethene	2.43	96	63	1.99	ug/l #	1
22) Diisopropyl ether	2.90	45	190	1.86	ug/l #	31
23) Vinyl Acetate	3.31	43	68	1.37	ug/l #	80
25) 2-Butanone	4.51	43	62	4.80	ug/l #	60
26) 2,2-Dichloropropane	3.87	77	79	1.82	ug/l #	66
28) Bromochloromethane	3.84	49	74	2.81	ug/l #	6
29) Tetrahydrofuran	4.30	42	67	14.09	ug/l #	38
31) Cyclohexane	3.88	56	179	4.86	ug/l #	1
36) 1,1-Dichloropropene	4.32	75	64	1.87	ug/l #	46
37) Ethyl Acetate	4.24	43	65	4.42	ug/l #	1
39) Methylcyclohexane	5.69	83	92	3.58	ug/l #	13
40) Benzene	4.97	78	67	Below Cal	#	49
41) Methacrylonitrile	4.97	41	69	8.89	ug/l #	49
43) Isopropyl Acetate	7.10	43	61	4.03	ug/l #	51
45) 1,2-Dichloropropane	6.28	63	62	3.95	ug/l #	50
48) Methyl methacrylate	6.88	41	84	7.13	ug/l #	12
51) 4-Methyl-2-Pentanone	8.41	43	130	8.40	ug/l #	43
52) Toluene	7.85	92	80	1.85	ug/l #	1
53) t-1,3-Dichloropropene	8.38	75	63	1.91	ug/l #	44
54) cis-1,3-Dichloropropene	7.51	75	90	2.64	ug/l #	14
56) Ethyl methacrylate	8.84	69	93	8.44	ug/l #	7

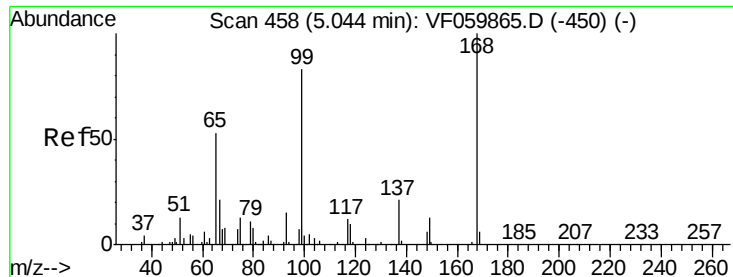
Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF080418\
 Data File : VF059876.D
 Acq On : 4 Aug 2018 10:42
 Operator : VA/AP
 Sample : J4323-01
 Misc : 6.58g/5mL/MSVOA F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 ES-RO-276

Quant Time: Aug 06 02:17:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F080418S.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 04 07:08:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) 1,3-Dichloropropane	8.92	76	94	3.52	ug/l #	44
58) 2-Chloroethyl Vinyl ether	7.80	63	62	30.11	ug/l	100
59) 2-Hexanone	9.65	43	373	34.12	ug/l #	34
65) Chlorobenzene	10.09	112	61	1.64	ug/l #	42
68) m/p-Xylenes	10.32	106	87	3.90	ug/l #	1
69) o-Xylene	10.84	106	64	2.71	ug/l #	1
74) N-amyl acetate	11.44	43	89	11.92	ug/l #	48
76) 1,2,3-Trichloropropane	11.97	75	96	15.77	ug/l #	1
77) Bromobenzene	11.57	156	99	9.64	ug/l #	1
81) trans-1,4-Dichloro-2-buten	11.97	75	96	43.91	ug/l #	13
83) tert-Butylbenzene	12.07	119	61	1.79	ug/l #	25
86) p-Isopropyltoluene	12.62	119	63	1.65	ug/l #	49
90) Hexachloroethane	12.95	117	71	6.75	ug/l #	13
91) 1,2-Dichlorobenzene	12.87	146	104	5.56	ug/l #	22
92) 1,2-Dibromo-3-Chloropropan	13.63	75	90	50.38	ug/l #	1
95) Naphthalene	14.37	128	72	2.93	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.04 min Scan# 457

Delta R.T. -0.01 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampleId :

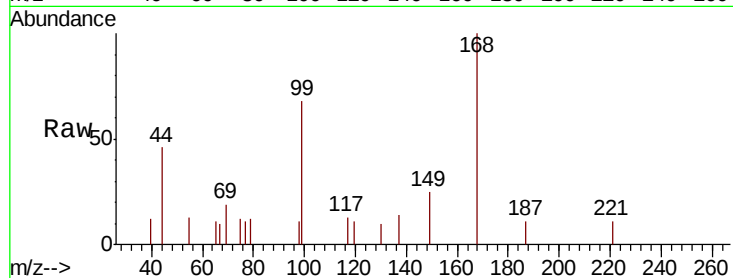
ES-RO-276

Tot Ion:168 Resp: 3569

Ion Ratio Lower Upper

168 100

99 68.0 66.3 99.5



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

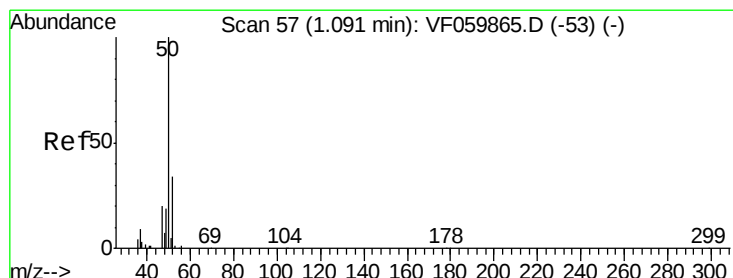
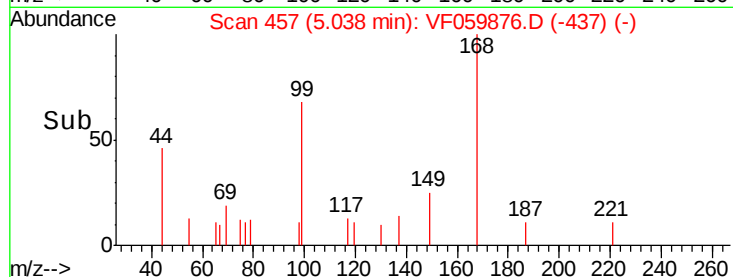
5.04

1000

500

0

Time-->



#3

Chloromethane

Concen: 3.51 ug/l

RT: 1.10 min Scan# 57

Delta R.T. 0.00 min

Lab File: VF059876.D

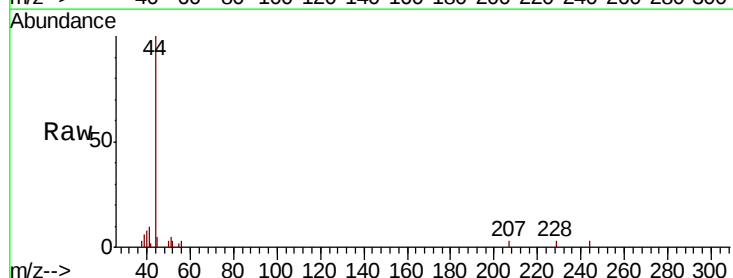
Acq: 4 Aug 2018 10:42

Tgt Ion: 50 Resp: 99

Ion Ratio Lower Upper

50 100

52 0.0 25.8 38.8#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

1.10

200

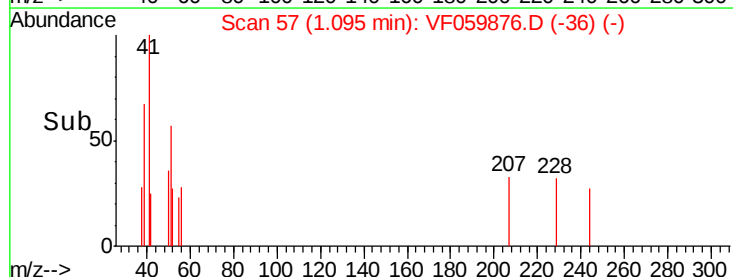
150

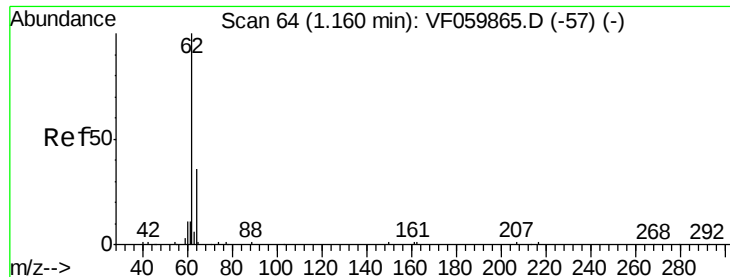
100

50

0

Time-->





#4

Vinyl Chloride

Concen: 2.87 ug/l

RT: 1.13 min Scan# 61

Delta R.T. -0.03 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampleId :

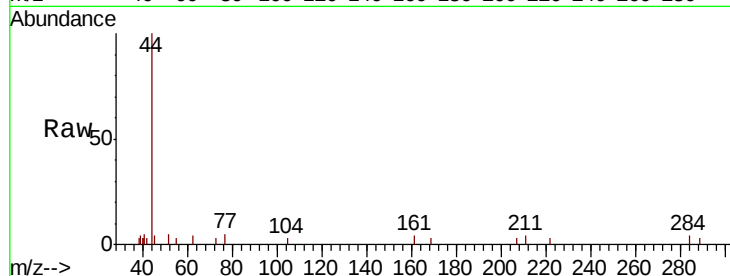
ES-RO-276

Tot Ion: 62 Resp: 83

Ion Ratio Lower Upper

62 100

64 0.0 28.5 42.7#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

1.13

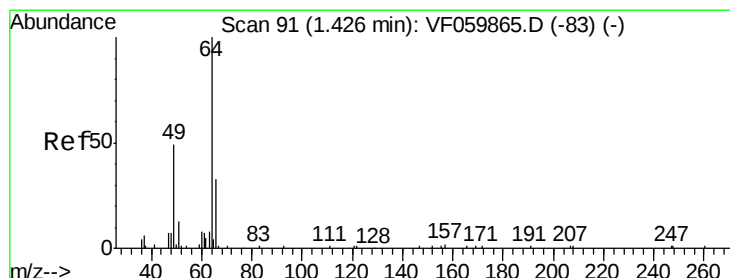
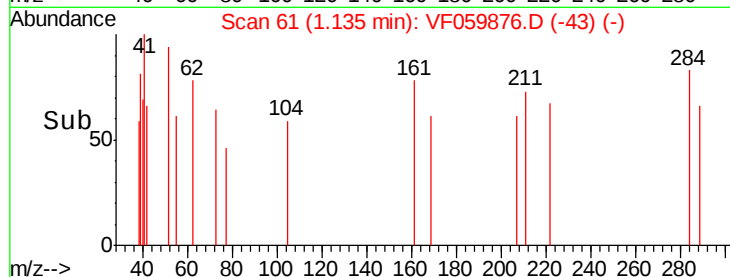
150

100

50

0

Time--> 1.10 1.12 1.14 1.16



#6

Chloroethane

Concen: 4.41 ug/l

RT: 1.38 min Scan# 86

Delta R.T. -0.04 min

Lab File: VF059876.D

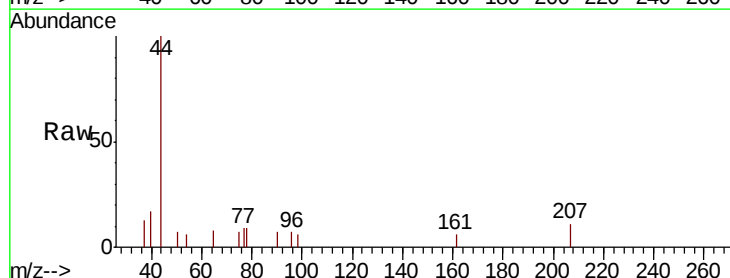
Acq: 4 Aug 2018 10:42

Tgt Ion: 64 Resp: 80

Ion Ratio Lower Upper

64 100

66 0.0 26.9 40.3#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

1.38

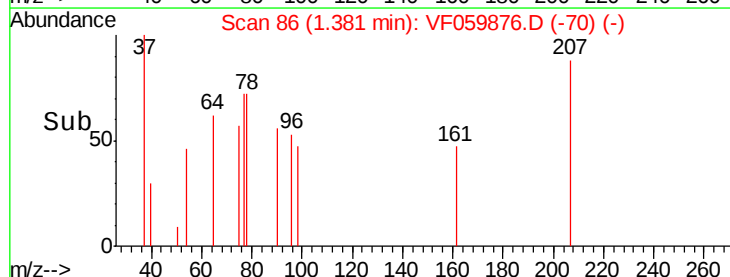
150

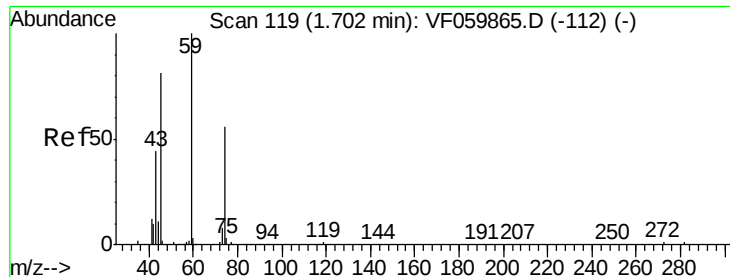
100

50

0

Time--> 1.36 1.38 1.40





#8

Diethyl Ether

Concen: 5.26 ug/l

RT: 1.56 min Scan# 104

Delta R.T. -0.14 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampleId :

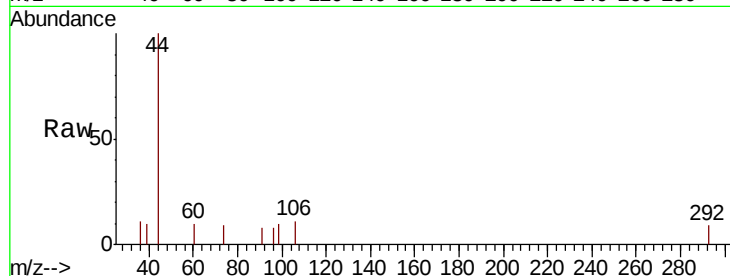
ES-RO-276

Tot Ion: 74 Resp: 66

Ion Ratio Lower Upper

74 100

45 0.0 73.6 220.7#



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.56

100

80

60

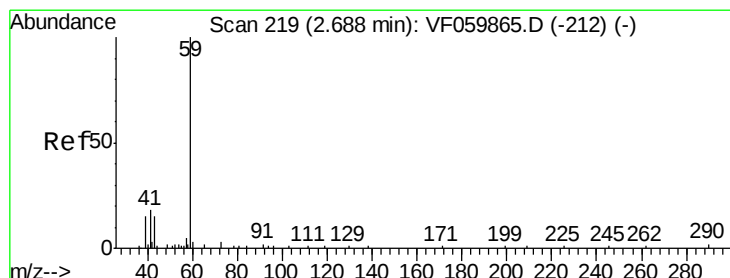
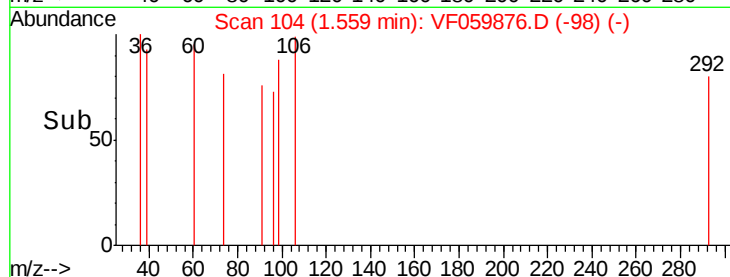
40

20

0

1.52 1.54 1.56 1.58

Time-->



#11

Tert butyl alcohol

Concen: 23.89 ug/l

RT: 2.61 min Scan# 211

Delta R.T. -0.07 min

Lab File: VF059876.D

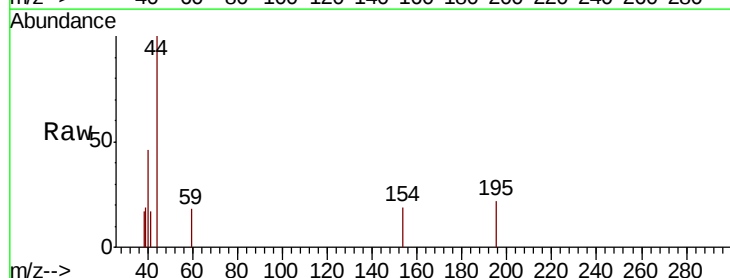
Acq: 4 Aug 2018 10:42

Tgt Ion: 59 Resp: 62

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

2.61

120

100

80

60

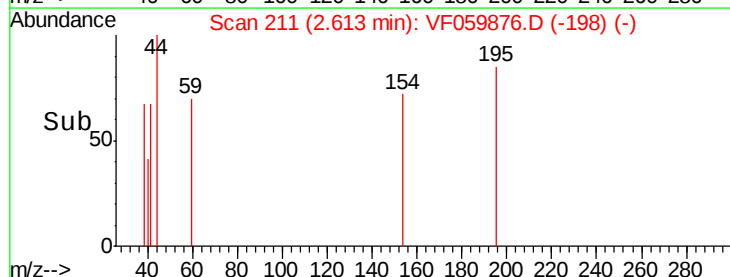
40

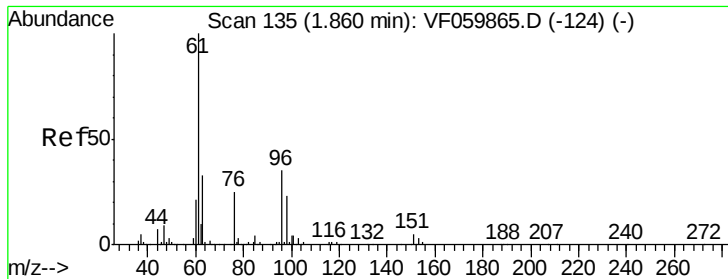
20

0

2.58 2.60 2.62 2.64

Time-->





#12

1,1-Dichloroethene

Concen: 2.45 ug/l

RT: 1.91 min Scan# 140

Delta R.T. 0.05 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampleId :

ES-RO-276

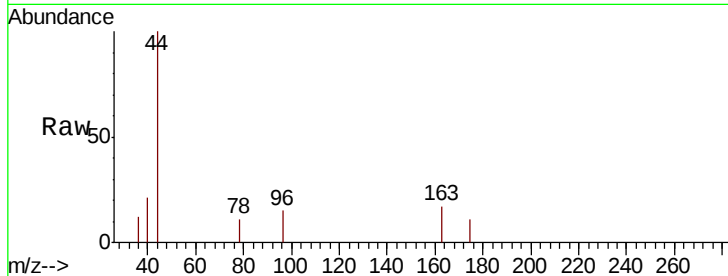
Tot Ion: 96 Resp: 78

Ion Ratio Lower Upper

96 100

61 0.0 230.2 345.2#

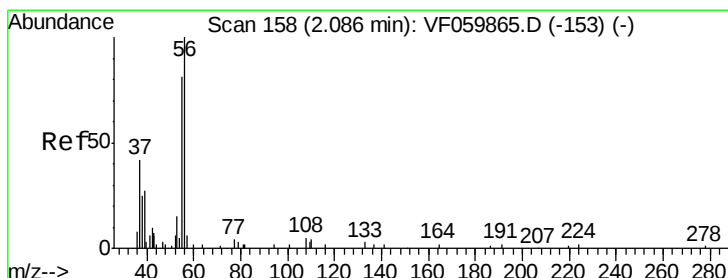
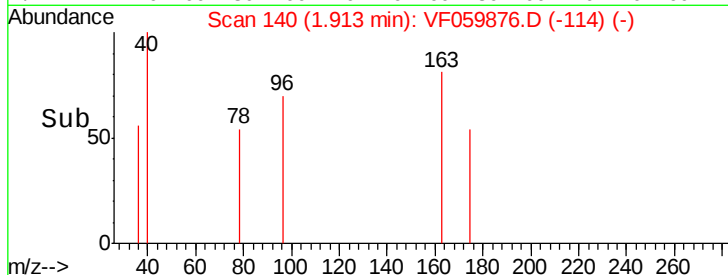
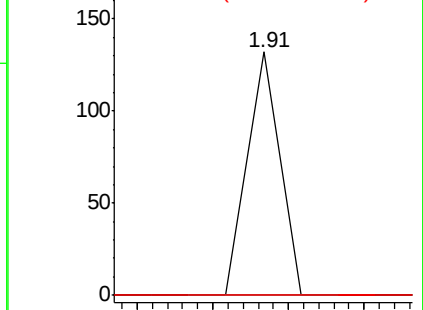
98 0.0 52.7 79.1#



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#13

Acrolein

Concen: 38.58 ug/l

RT: 2.19 min Scan# 168

Delta R.T. 0.10 min

Lab File: VF059876.D

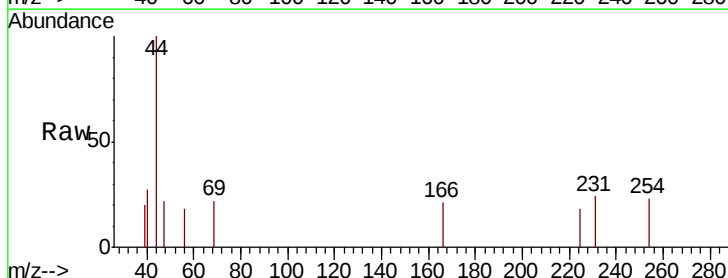
Acq: 4 Aug 2018 10:42

Tgt Ion: 56 Resp: 60

Ion Ratio Lower Upper

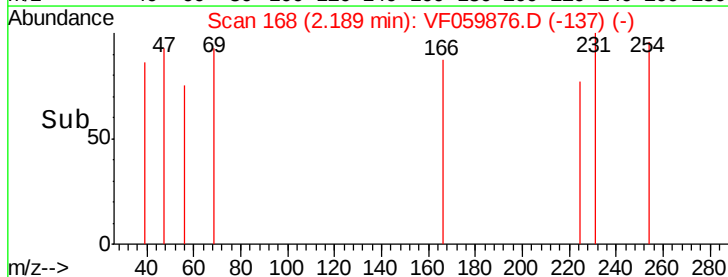
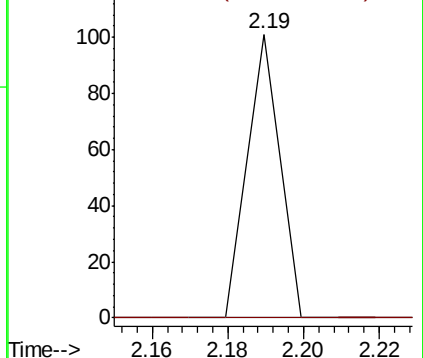
56 100

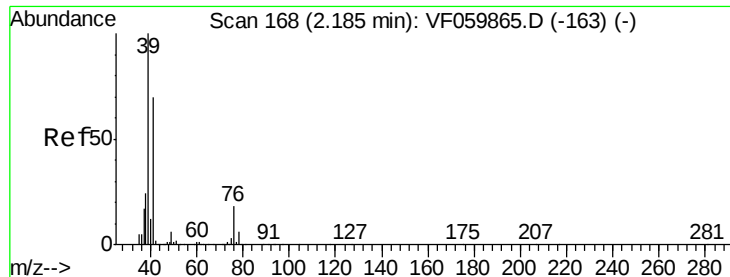
55 0.0 64.6 96.8#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#14

Allvl chloride

Concen: 1.26 ug/l

RT: 2.25 min Scan# 174

Delta R.T. 0.06 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampleId :

ES-RO-276

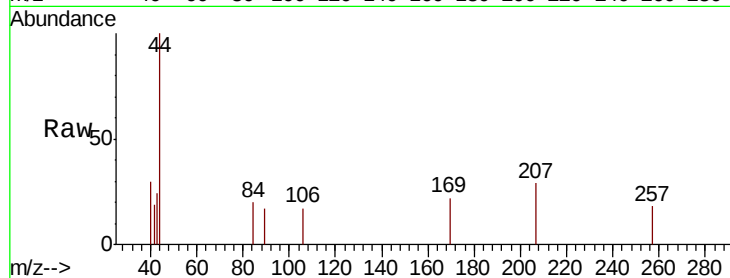
Tot Ion: 41 Resp: 67

Ion Ratio Lower Upper

41 100

39 0.0 114.6 171.8#

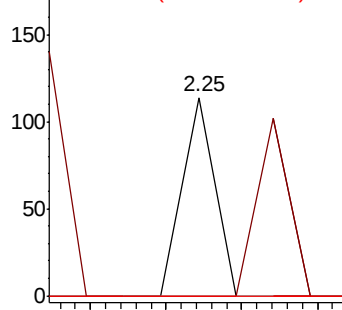
76 0.0 21.0 31.4#



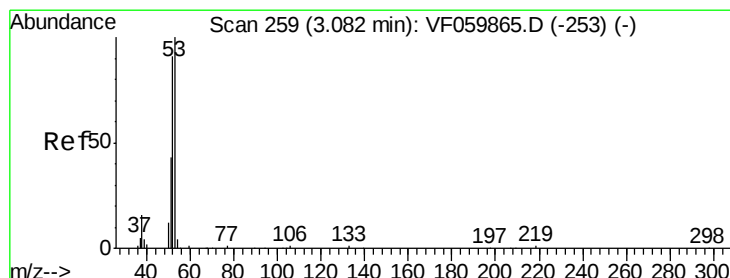
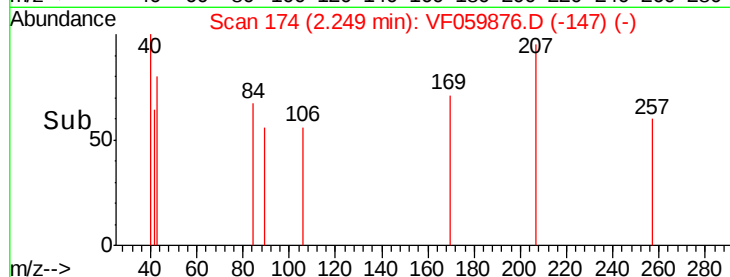
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0



Time-->



#15

Acrylonitrile

Concen: 14.09 ug/l

RT: 3.02 min Scan# 252

Delta R.T. -0.06 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

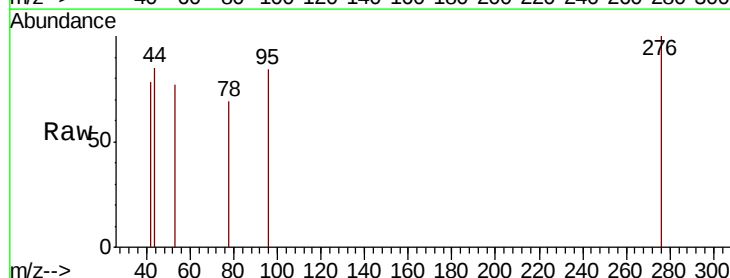
Tgt Ion: 53 Resp: 67

Ion Ratio Lower Upper

53 100

52 0.0 72.9 109.3#

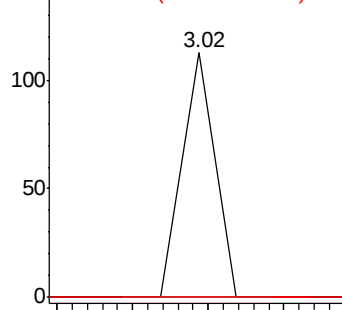
51 0.0 34.5 51.7#



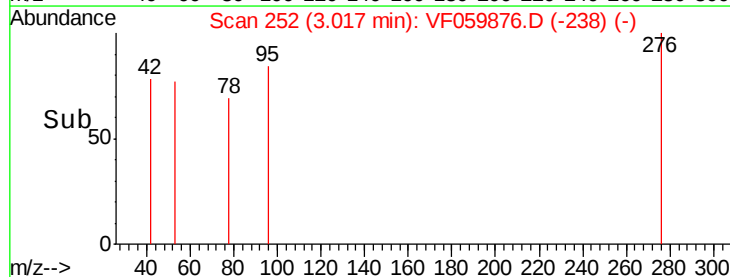
Abundance Ion 53.00 (52.70 to 53.70): VF0

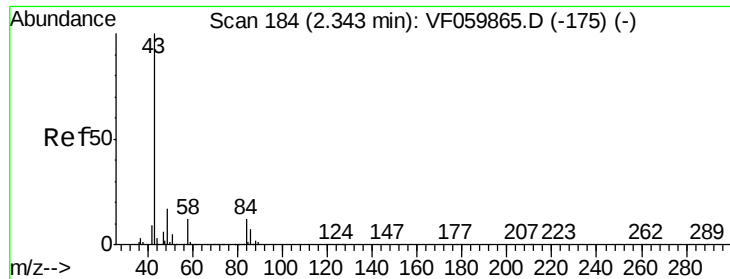
Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



Time-->





#16

Acetone

Concen: 5.05 ug/l

RT: 2.35 min Scan# 184

Delta R.T. 0.00 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampleId :

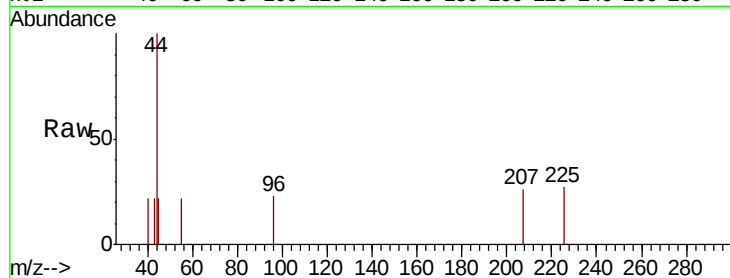
ES-RO-276

Tot Ion: 43 Resp: 60

Ion Ratio Lower Upper

43 100

58 0.0 9.4 14.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.35

100

80

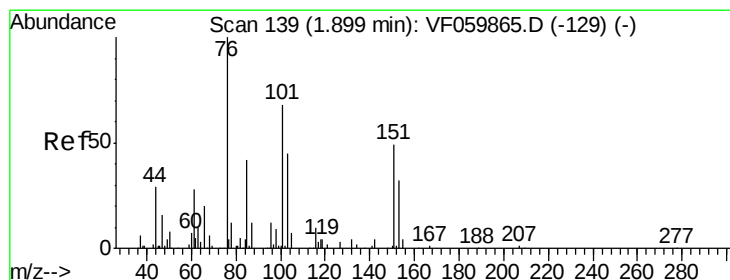
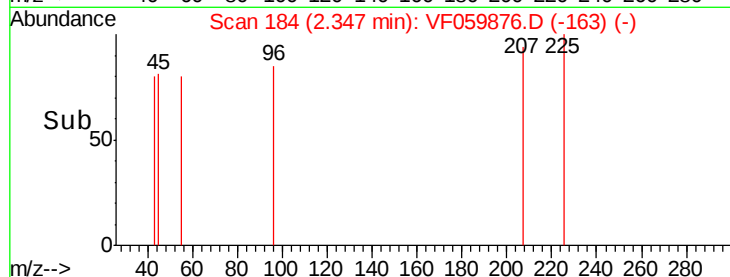
60

40

20

0

Time-->



#17

Carbon Disulfide

Concen: 1.03 ug/l

RT: 2.00 min Scan# 149

Delta R.T. 0.10 min

Lab File: VF059876.D

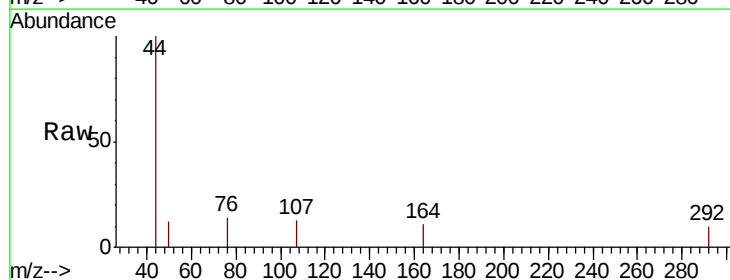
Acq: 4 Aug 2018 10:42

Tgt Ion: 76 Resp: 88

Ion Ratio Lower Upper

76 100

78 0.0 9.3 13.9#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

2.00

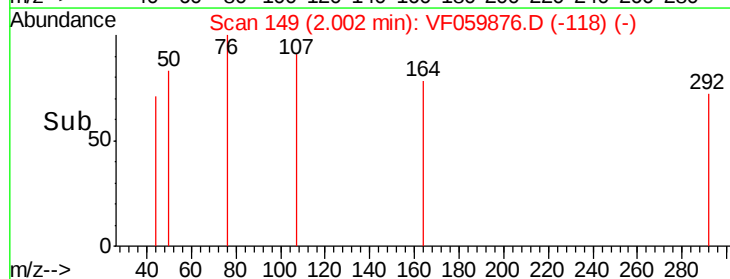
150

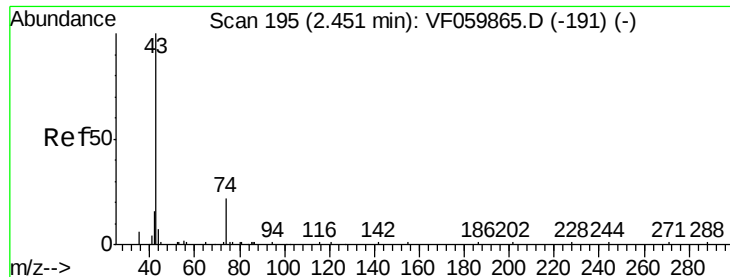
100

50

0

Time-->

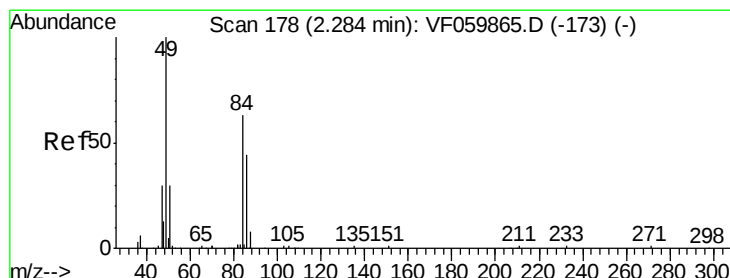
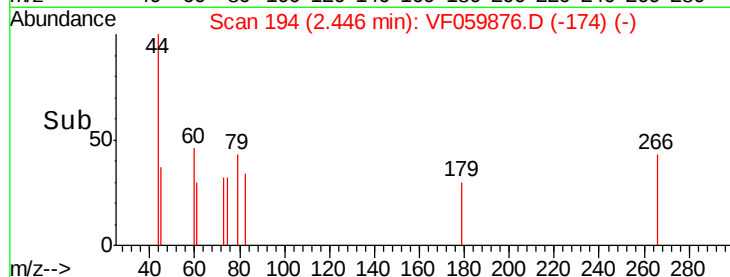
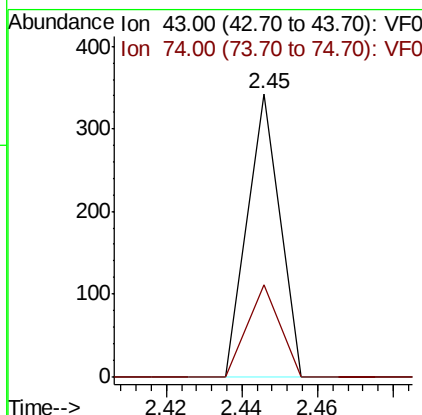
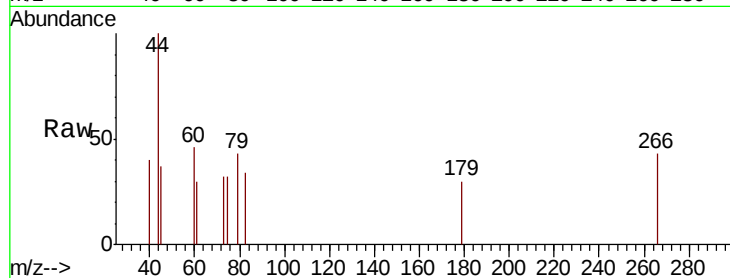




#18
Methyl Acetate
Concen: 10.13 ug/l
RT: 2.45 min Scan# 194
Delta R.T. -0.01 min
Lab File: VF059876.D
Acq: 4 Aug 2018 10:42

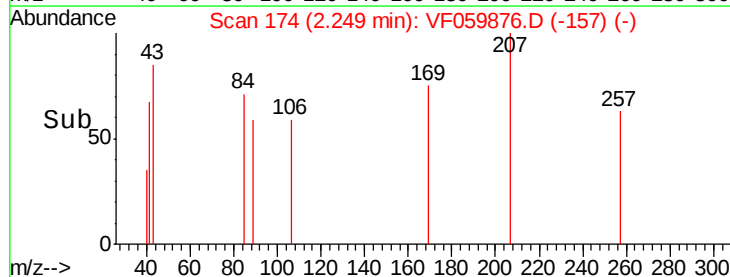
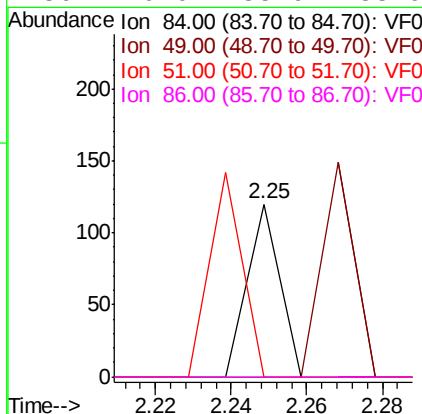
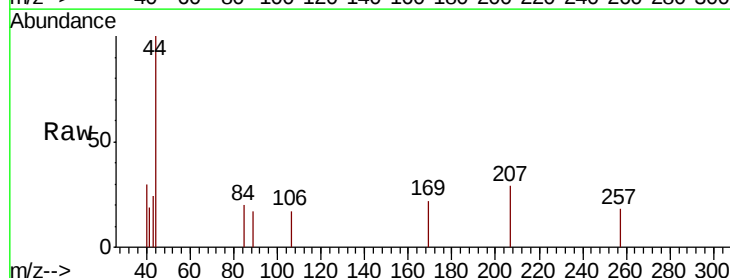
Instrument :
MSVOA_F
ClientSampleId :
ES-RO-276

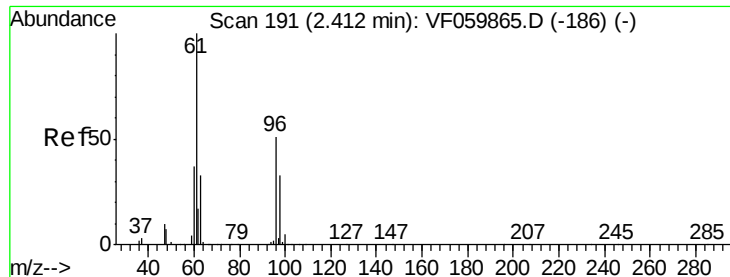
Tot Ion: 43 Resp: 203
Ion Ratio Lower Upper
43 100
74 32.4 16.3 24.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.25 min Scan# 174
Delta R.T. -0.03 min
Lab File: VF059876.D
Acq: 4 Aug 2018 10:42

Tgt Ion: 84 Resp: 71
Ion Ratio Lower Upper
84 100
49 0.0 128.7 193.1#
51 0.0 39.3 58.9#
86 0.0 55.9 83.9#





#21

trans-1,2-Dichloroethene

Concen: 1.99 ug/l

RT: 2.43 min Scan# 192

Delta R.T. 0.01 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampleId :

ES-RO-276

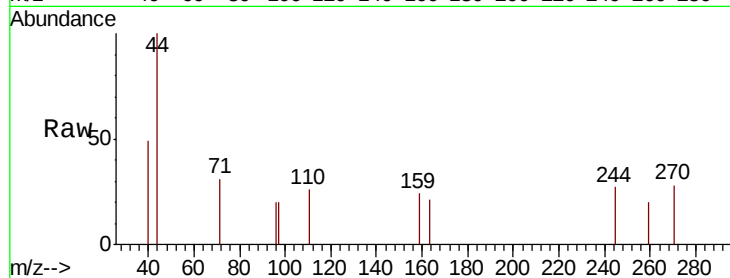
Tot Ion: 96 Resp: 63

Ion Ratio Lower Upper

96 100

61 0.0 158.2 237.4#

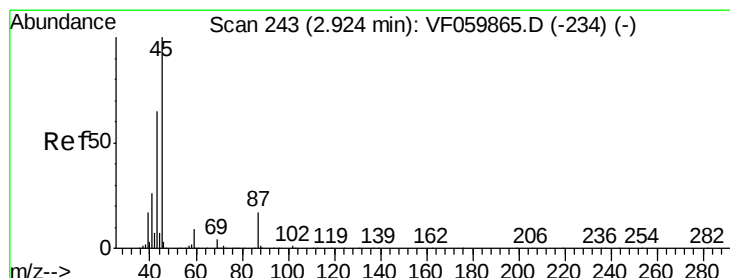
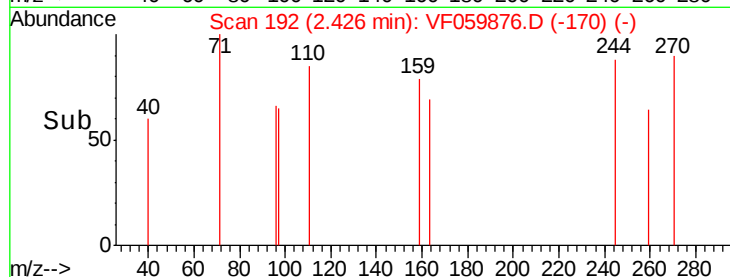
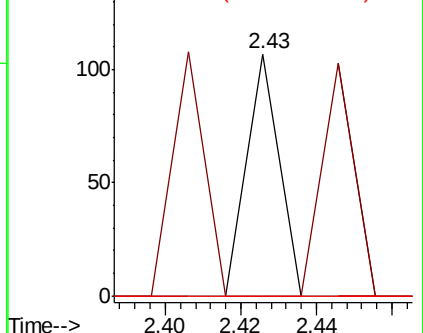
98 0.0 52.0 78.0#



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 1.86 ug/l

RT: 2.90 min Scan# 240

Delta R.T. -0.03 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Tgt Ion: 45 Resp: 190

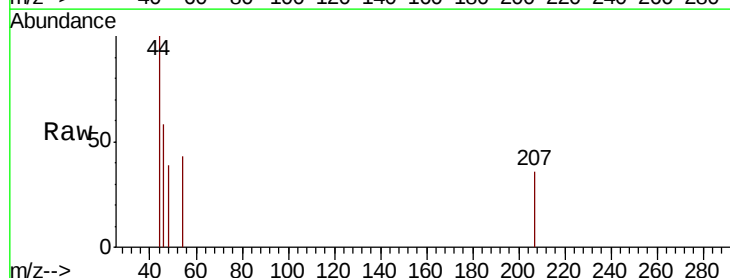
Ion Ratio Lower Upper

45 100

43 0.0 52.1 78.1#

87 0.0 13.8 20.8#

59 0.0 7.5 11.3#

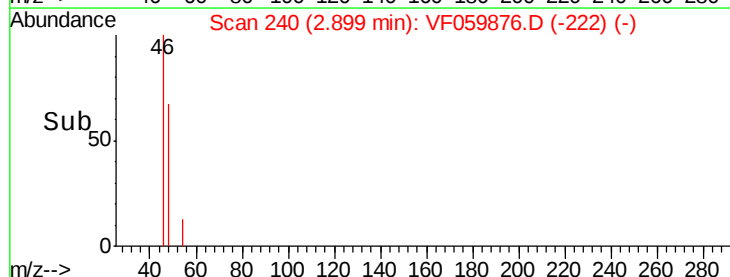
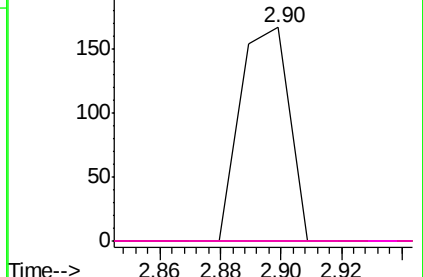


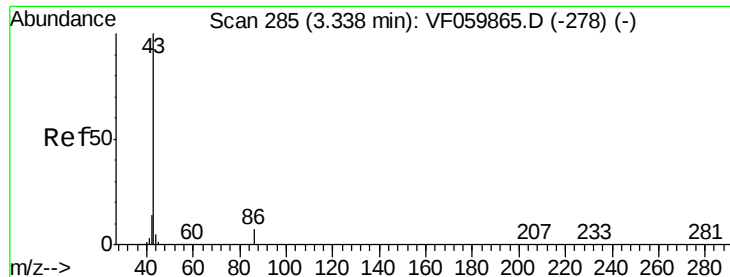
Abundance Ion 45.00 (44.70 to 45.70): VF0

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: 1.37 ug/l

RT: 3.31 min Scan# 282

Delta R.T. -0.03 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampleId :

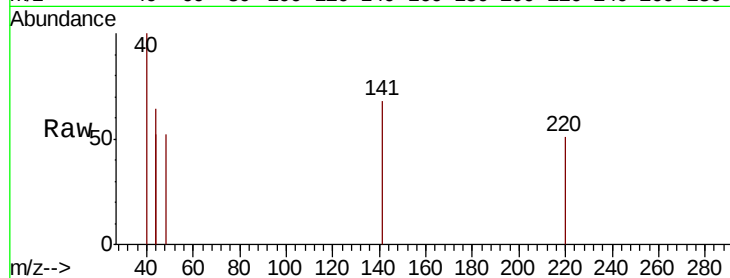
ES-RO-276

Tot Ion: 43 Resp: 68

Ion Ratio Lower Upper

43 100

86 0.0 5.6 8.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.31

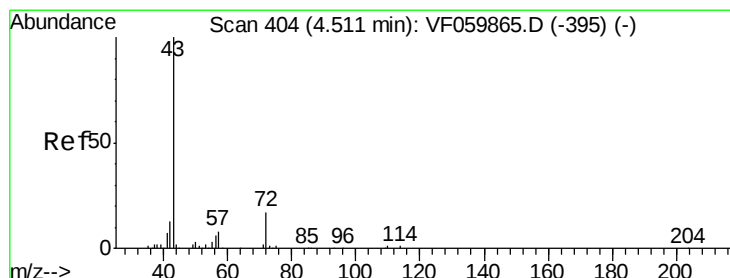
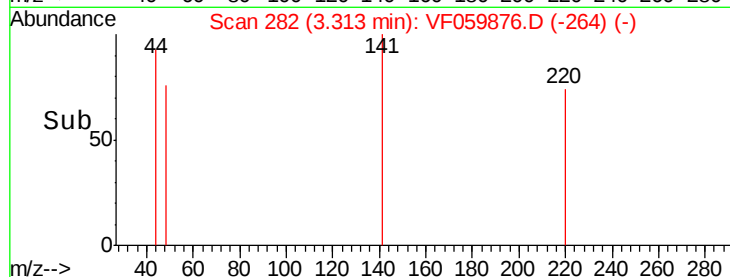
100

50

0

3.30 3.32 3.34

Time-->



#25

2-Butanone

Concen: 4.80 ug/l

RT: 4.51 min Scan# 403

Delta R.T. -0.01 min

Lab File: VF059876.D

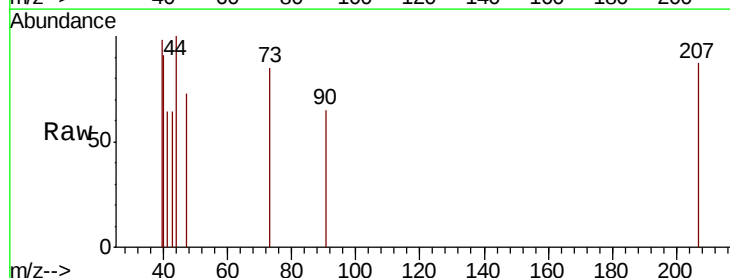
Acq: 4 Aug 2018 10:42

Tgt Ion: 43 Resp: 62

Ion Ratio Lower Upper

43 100

72 0.0 13.9 20.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

120

100

80

60

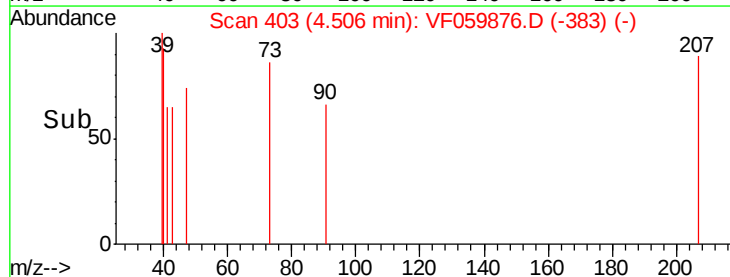
40

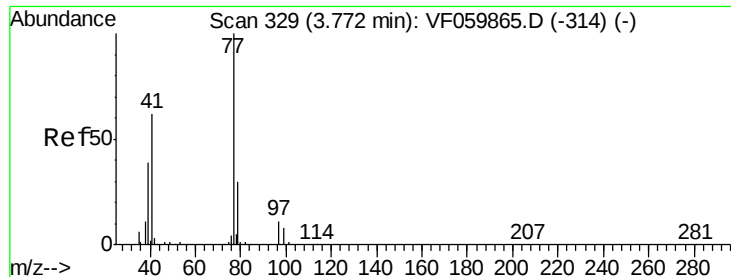
20

0

4.48 4.50 4.52

Time-->





#26

2,2-Dichloropropane

Concen: 1.82 ug/l

RT: 3.87 min Scan# 338

Delta R.T. 0.09 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampleId :

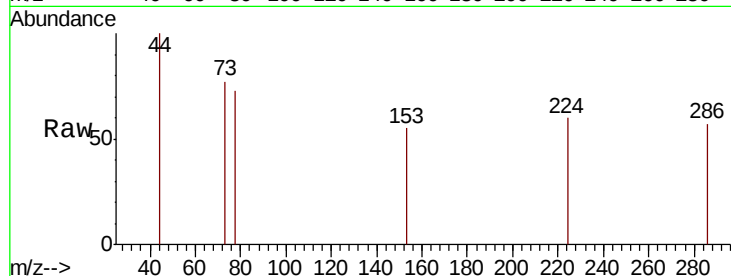
ES-RO-276

Tot Ion: 77 Resp: 79

Ion Ratio Lower Upper

77 100

97 0.0 6.8 20.3#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

3.87

150

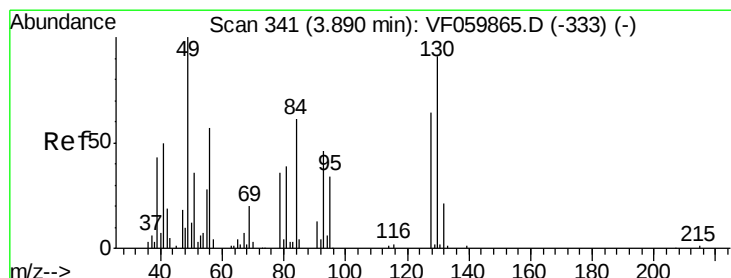
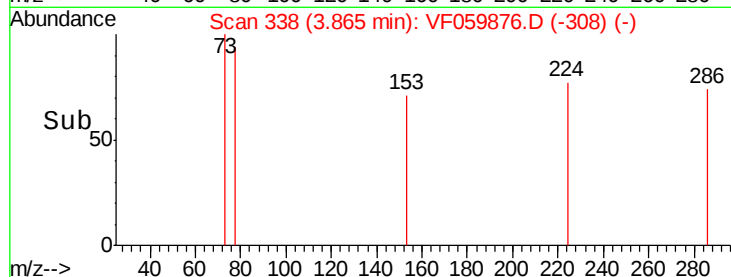
100

50

0

3.84 3.86 3.88

Time-->



#28

Bromochloromethane

Concen: 2.81 ug/l

RT: 3.84 min Scan# 335

Delta R.T. -0.05 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

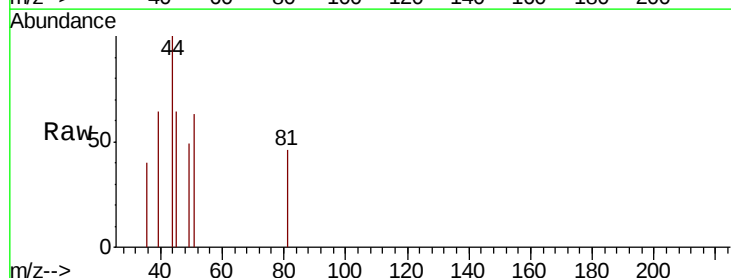
Tgt Ion: 49 Resp: 74

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.6

130 0.0 73.8 110.8#



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

150

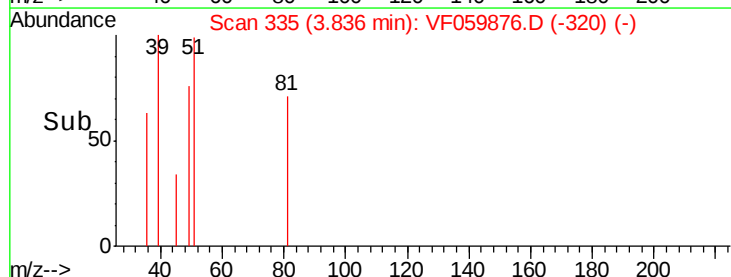
100

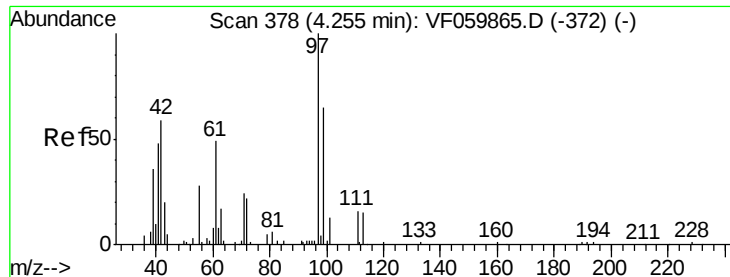
50

0

3.80 3.82 3.84 3.86

Time-->





#29

Tetrahydrofuran

Concen: 14.09 ug/l

RT: 4.30 min Scan# 382

Delta R.T. 0.04 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampled :

ES-RO-276

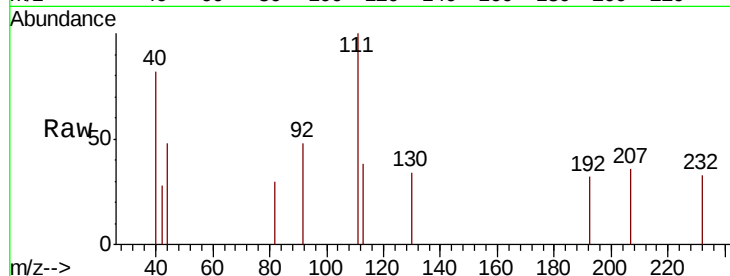
Tot Ion: 42 Resp: 67

Ion Ratio Lower Upper

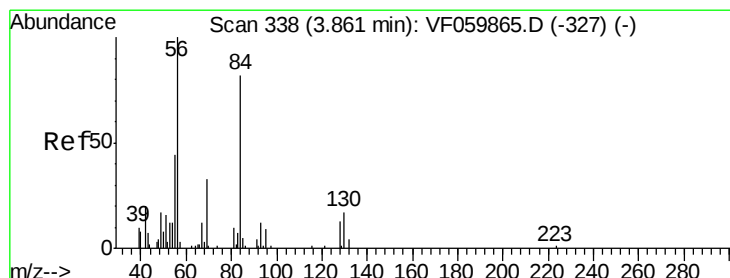
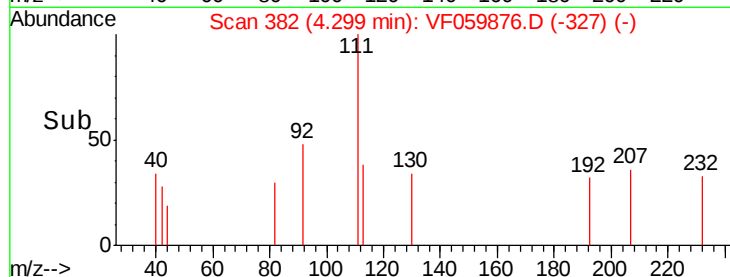
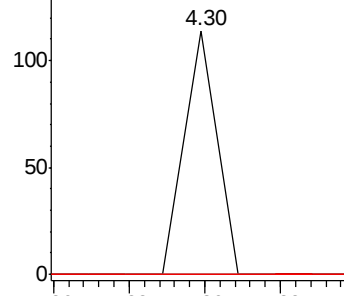
42 100

72 0.0 29.3 43.9#

71 0.0 30.0 45.0#



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: 4.86 ug/l

RT: 3.88 min Scan# 340

Delta R.T. 0.02 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

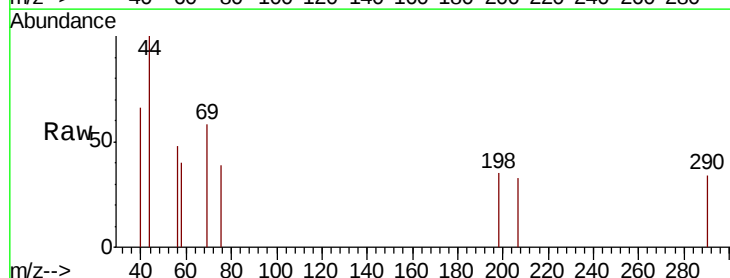
Tgt Ion: 56 Resp: 179

Ion Ratio Lower Upper

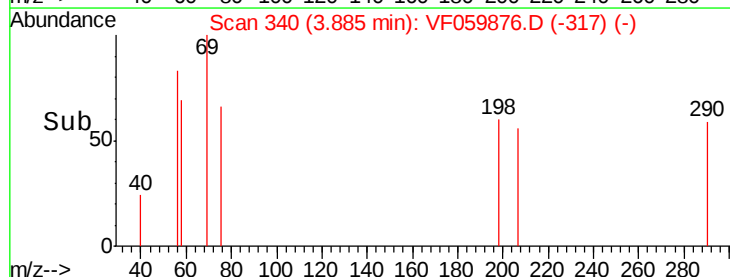
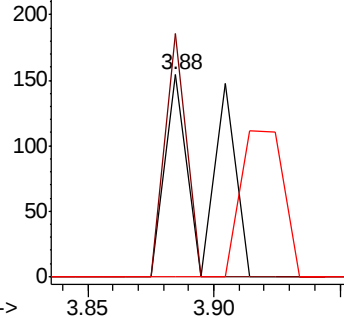
56 100

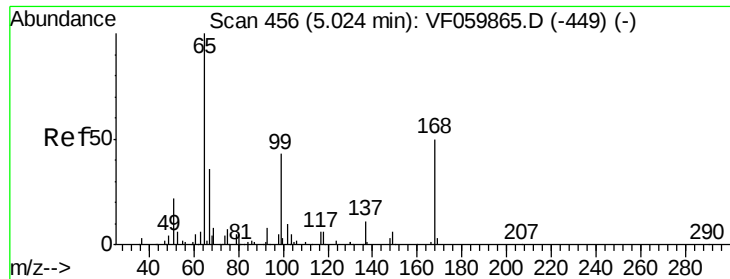
69 120.8 26.7 40.1#

84 0.0 65.9 98.9#



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: 8.11 ug/l

RT: 5.03 min Scan# 456

Delta R.T. 0.00 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampleId :

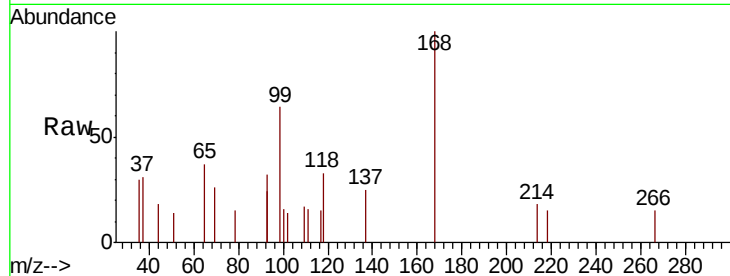
ES-RO-276

Tot Ion: 65 Resp: 522

Ion Ratio Lower Upper

65 100

67 0.0 0.0 77.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

5.03

250

200

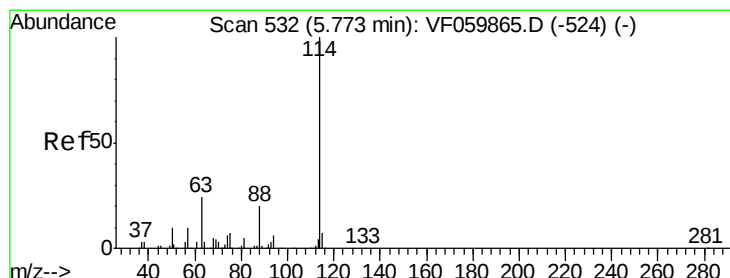
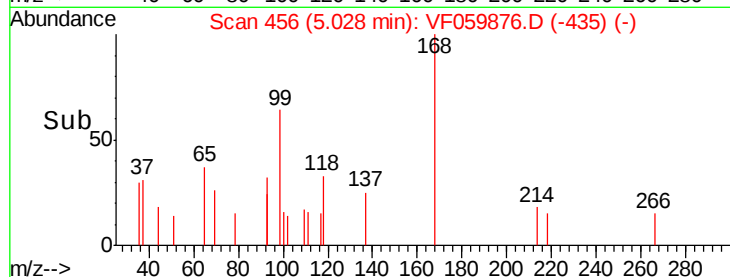
150

100

50

0

Time--> 4.95 5.00 5.05



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.78 min Scan# 532

Delta R.T. 0.00 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

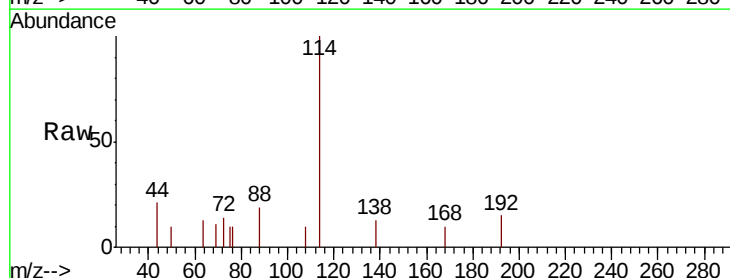
Tgt Ion: 114 Resp: 2960

Ion Ratio Lower Upper

114 100

63 13.1 0.0 48.0

88 18.5 0.0 39.4



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

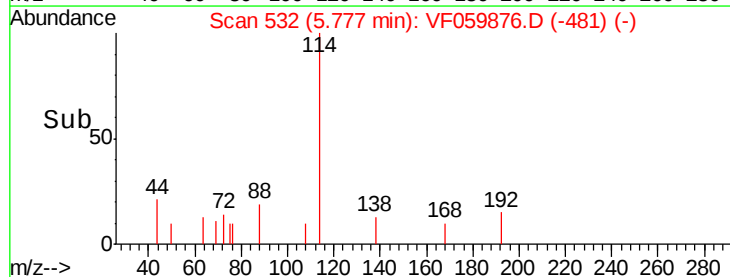
Ion 88.00 (87.70 to 88.70): VF0

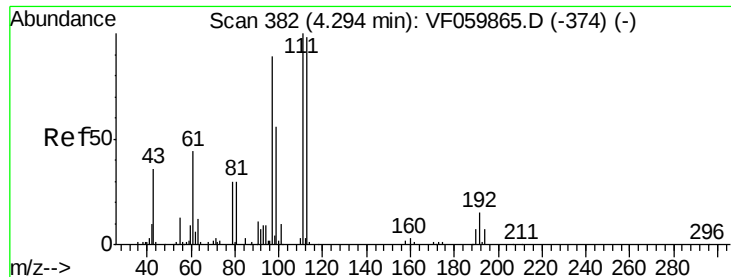
1000

500

0

Time--> 5.70 5.80





#35

Dibromofluoromethane

Concen: 26.21 ug/l

RT: 4.29 min Scan# 381

Delta R.T. -0.01 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampleId :

ES-RO-276

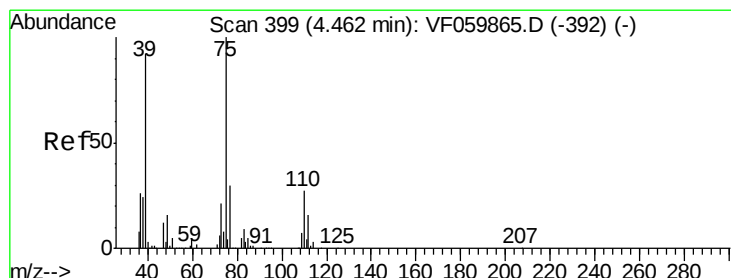
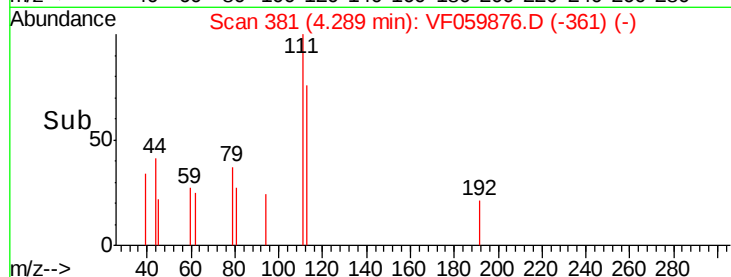
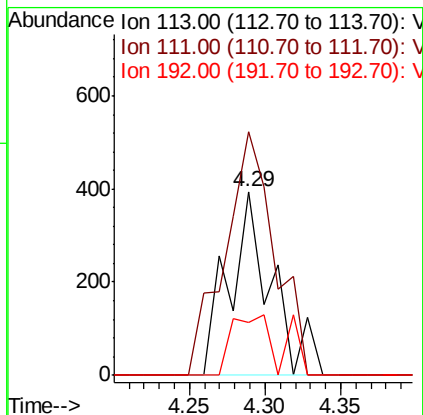
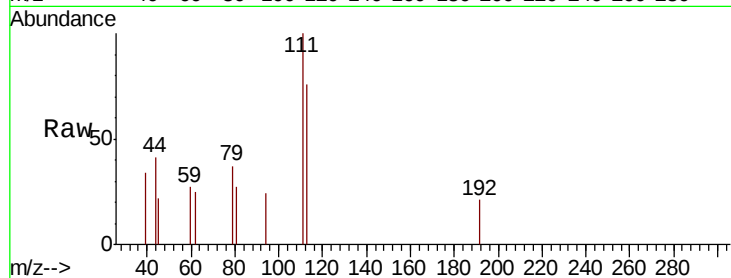
Tot Ion: 113 Resp: 772

Ion Ratio Lower Upper

113 100

111 132.4 81.8 122.8#

192 28.4 12.4 18.6#



#36

1,1-Dichloropropene

Concen: 1.87 ug/l

RT: 4.32 min Scan# 384

Delta R.T. -0.14 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

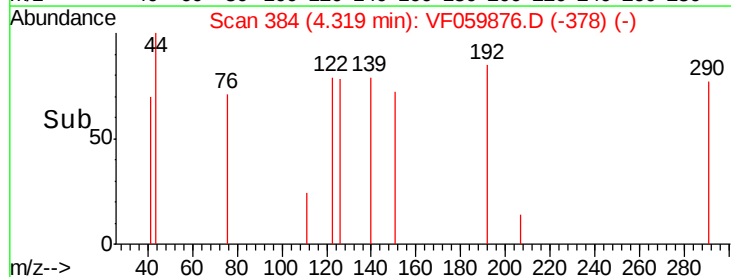
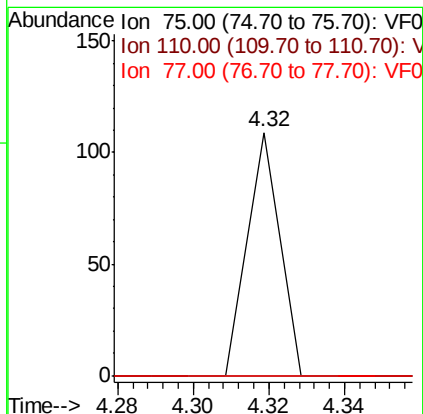
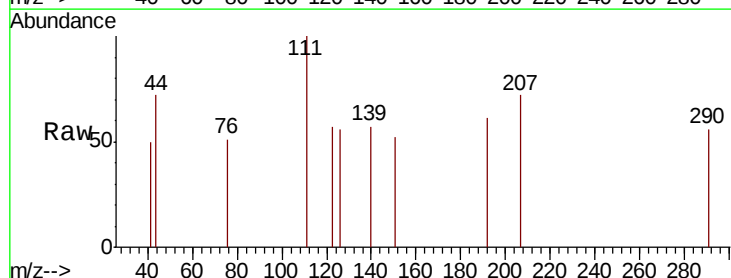
Tgt Ion: 75 Resp: 64

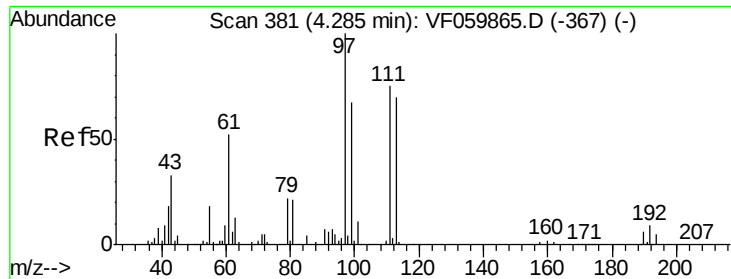
Ion Ratio Lower Upper

75 100

110 0.0 13.6 40.7#

77 0.0 23.7 35.5#





#37

Ethyl Acetate

Concen: 4.42 ug/l

RT: 4.24 min Scan# 376

Delta R.T. -0.04 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampleId :

ES-RO-276

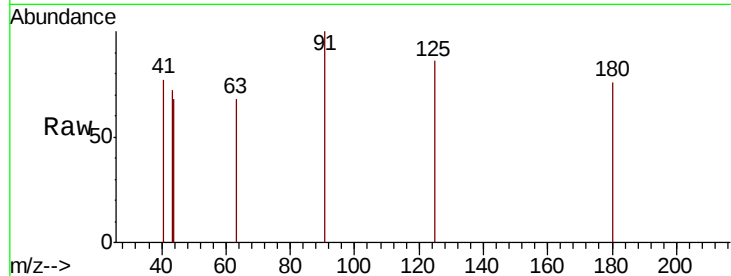
Tot Ion: 43 Resp: 65

Ion Ratio Lower Upper

43 100

61 0.0 123.7 185.5#

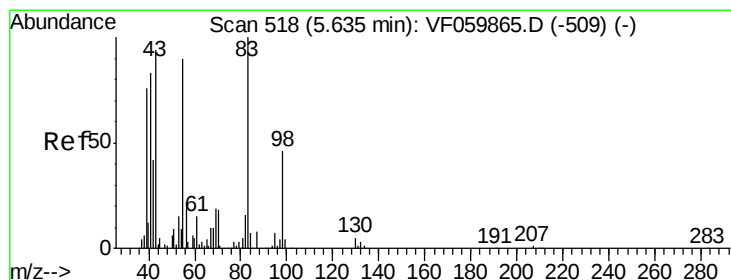
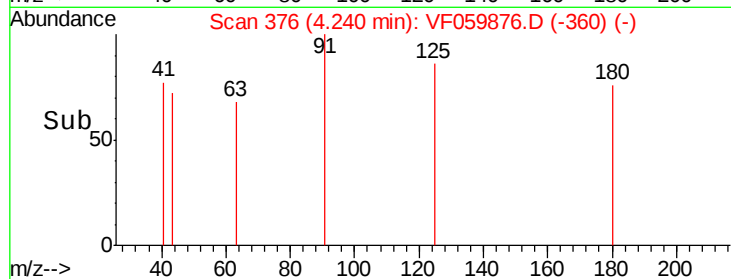
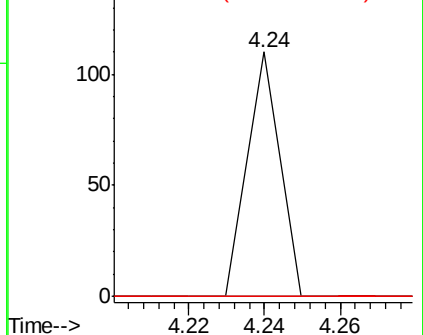
70 0.0 7.8 11.8#



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



#39

Methylcyclohexane

Concen: 3.58 ug/l

RT: 5.69 min Scan# 523

Delta R.T. 0.05 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

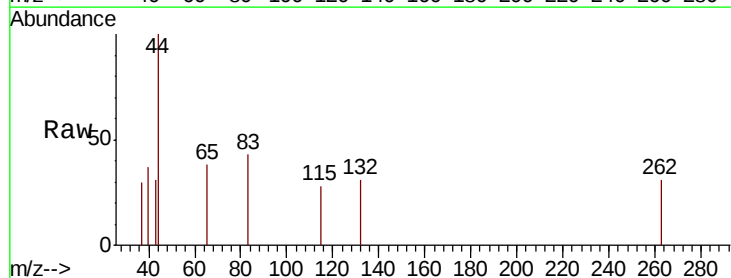
Tgt Ion: 83 Resp: 92

Ion Ratio Lower Upper

83 100

55 0.0 72.0 108.0#

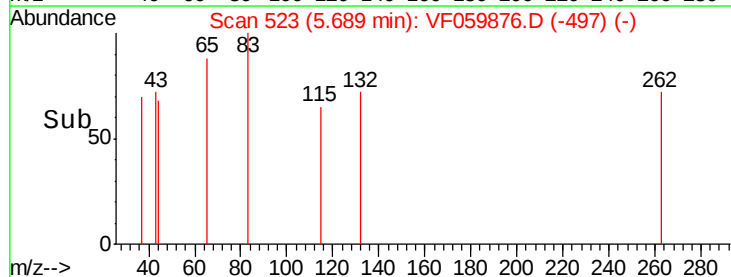
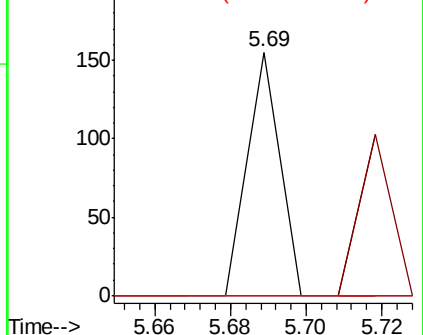
98 0.0 36.6 54.8#

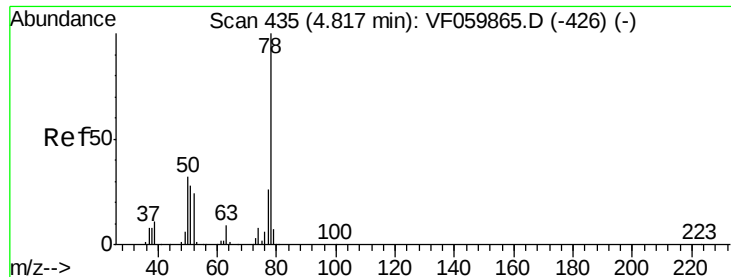


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#40

Benzene

Concen: Below Cal

RT: 4.97 min Scan# 450

Delta R.T. 0.15 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampled :

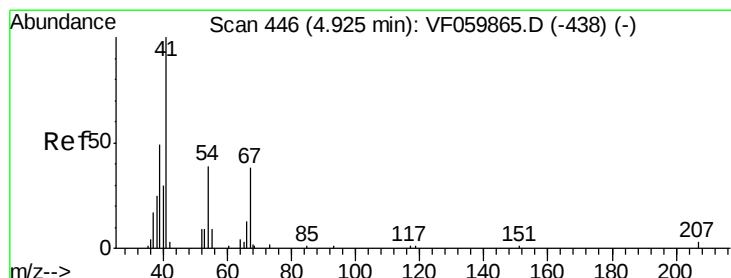
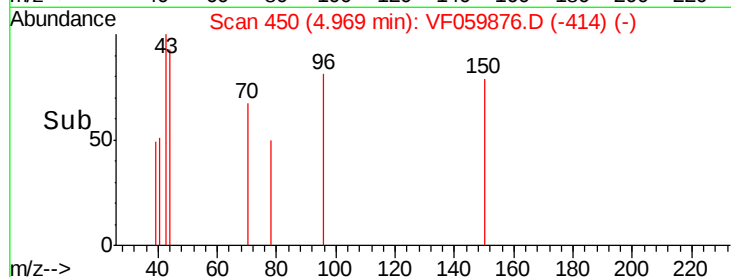
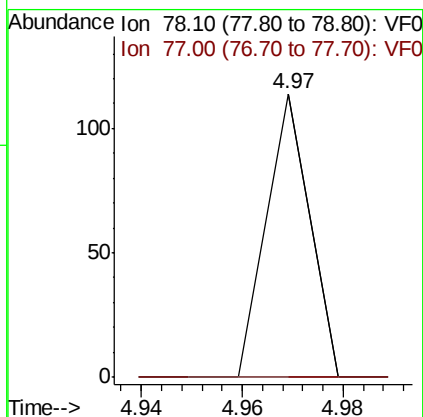
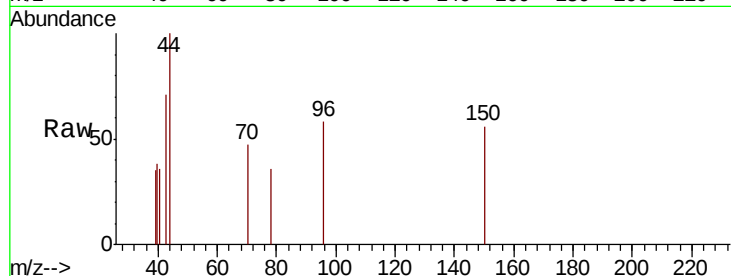
ES-RO-276

Tot Ion: 78 Resp: 67

Ion Ratio Lower Upper

78 100

77 0.0 20.7 31.1#



#41

Methacrylonitrile

Concen: 8.89 ug/l

RT: 4.97 min Scan# 450

Delta R.T. 0.04 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Tgt Ion: 41 Resp: 69

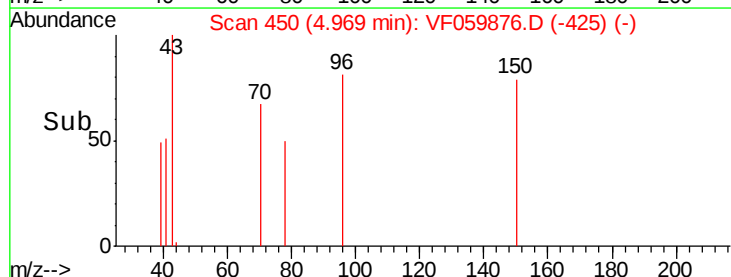
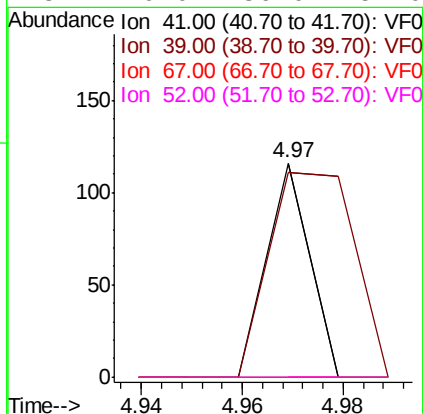
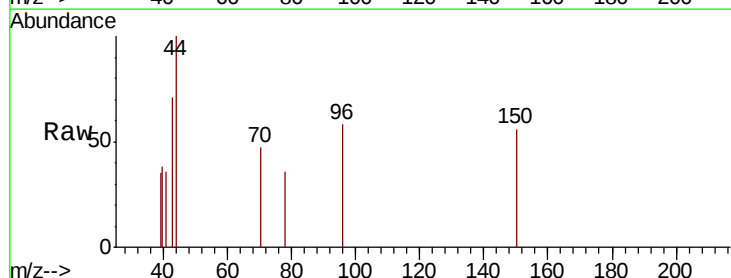
Ion Ratio Lower Upper

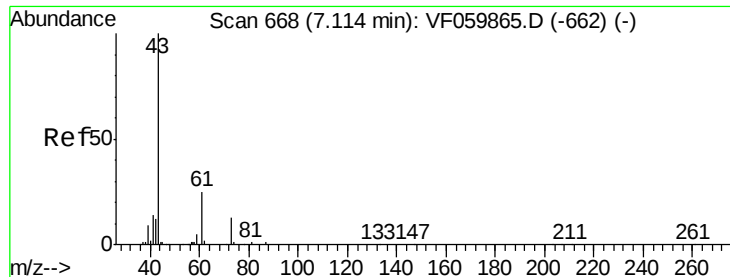
41 100

39 95.7 55.1 82.7#

67 0.0 30.3 45.5#

52 0.0 36.0 54.0#





#43

Isopropyl Acetate

Concen: 4.03 ug/l

RT: 7.10 min Scan# 666

Delta R.T. -0.02 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

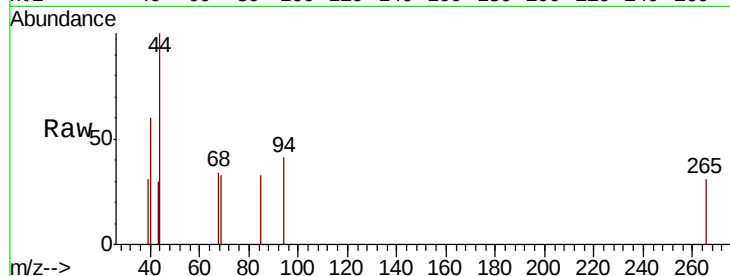
Instrument :

MSVOA_F

ClientSampleId :

ES-RO-276

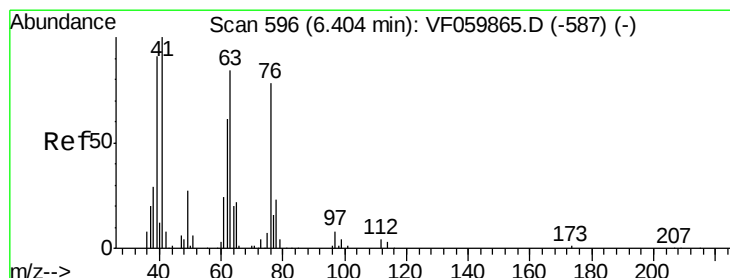
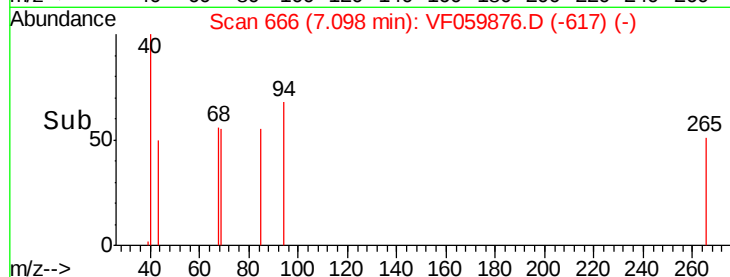
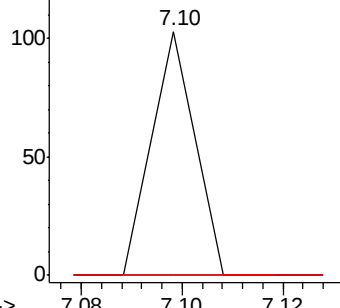
Tot Ion:	43	Resp:	61
Ion	Ratio	Lower	Upper
43	100		
61	0.0	20.3	30.5#
87	0.0	0.7	1.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0



#45

1,2-Dichloropropane

Concen: 3.95 ug/l

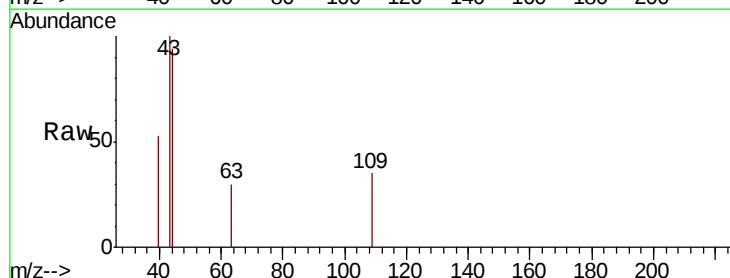
RT: 6.28 min Scan# 583

Delta R.T. -0.12 min

Lab File: VF059876.D

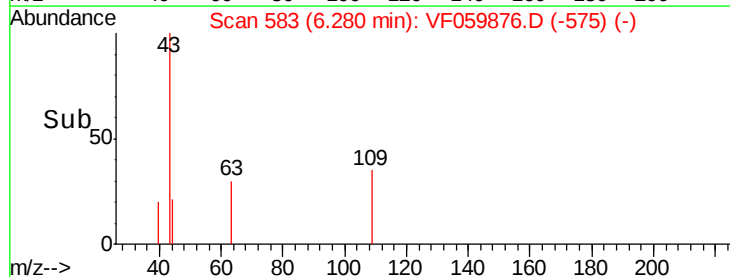
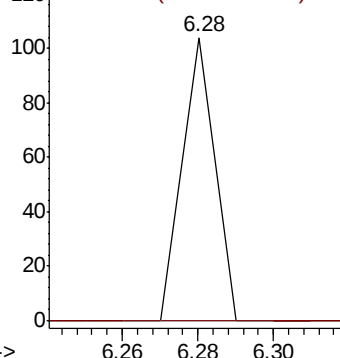
Acq: 4 Aug 2018 10:42

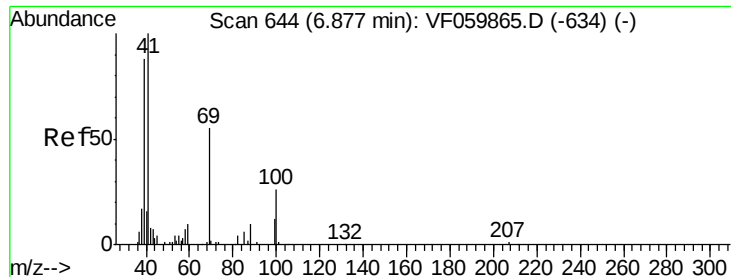
Tgt Ion:	63	Resp:	62
Ion	Ratio	Lower	Upper
63	100		
65	0.0	20.4	30.6#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

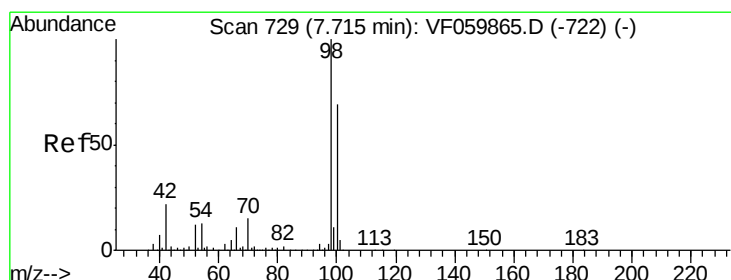
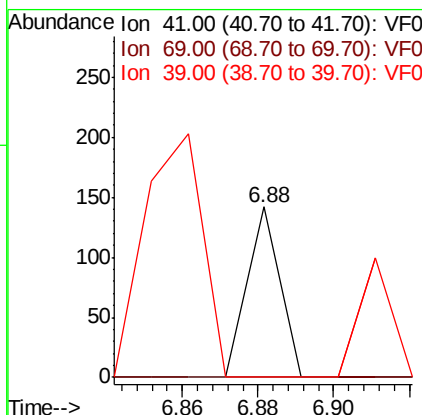
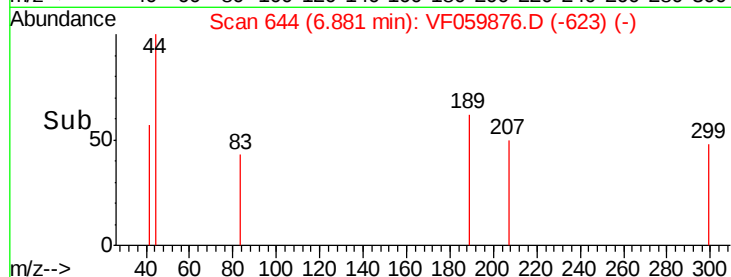
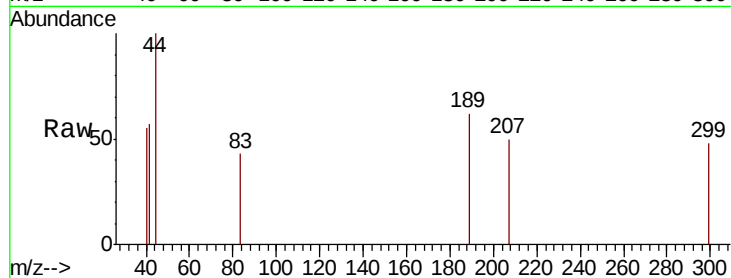




#48
Methvl methacrylate
Concen: 7.13 ug/l
RT: 6.88 min Scan# 644
Delta R.T. 0.00 min
Lab File: VF059876.D
Acq: 4 Aug 2018 10:42

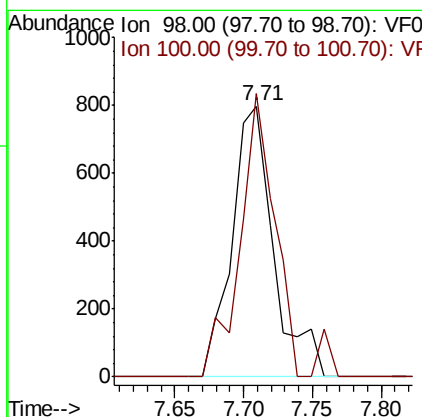
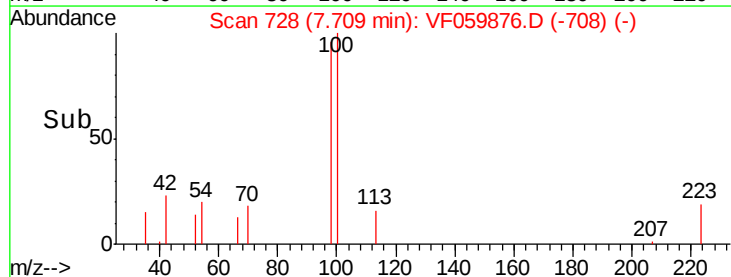
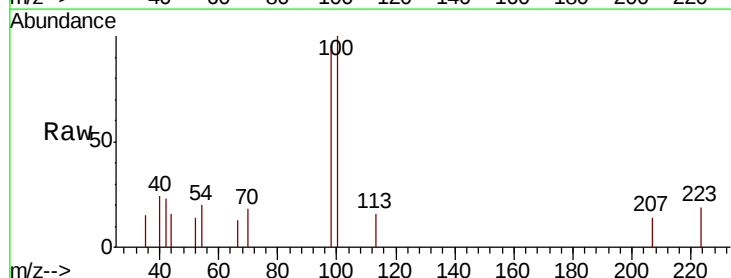
Instrument :
MSVOA_F
ClientSampleId :
ES-RO-276

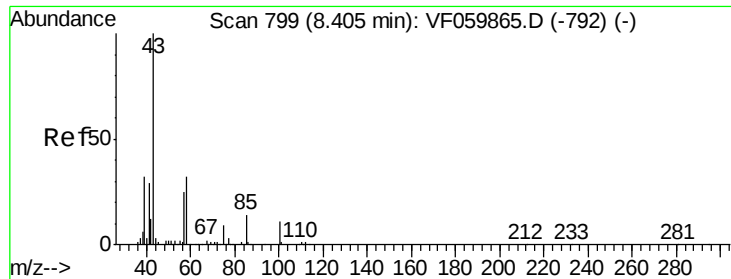
Tot Ion: 41 Resp: 84
Ion Ratio Lower Upper
41 100
69 0.0 44.4 66.6#
39 0.0 70.6 106.0#



#50
Toluene-d8
Concen: 26.91 ug/l
RT: 7.71 min Scan# 728
Delta R.T. -0.01 min
Lab File: VF059876.D
Acq: 4 Aug 2018 10:42

Tgt Ion: 98 Resp: 1686
Ion Ratio Lower Upper
98 100
100 104.4 55.0 82.6#





#51

4-Methyl-2-Pentanone

Concen: 8.40 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.00 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampleId :

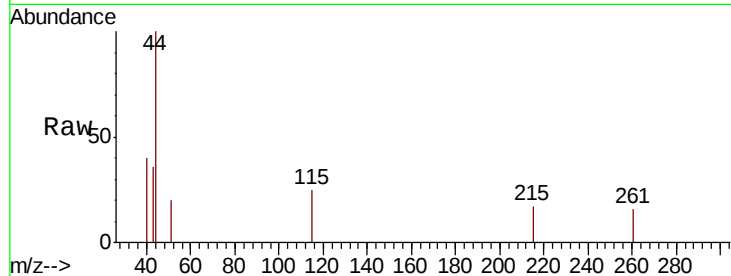
ES-RO-276

Tot Ion: 43 Resp: 130

Ion Ratio Lower Upper

43 100

58 0.0 25.4 38.0#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.41

200

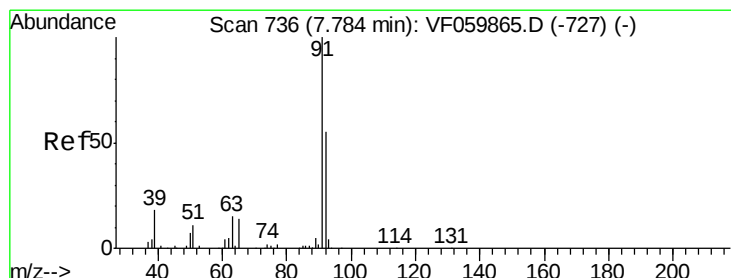
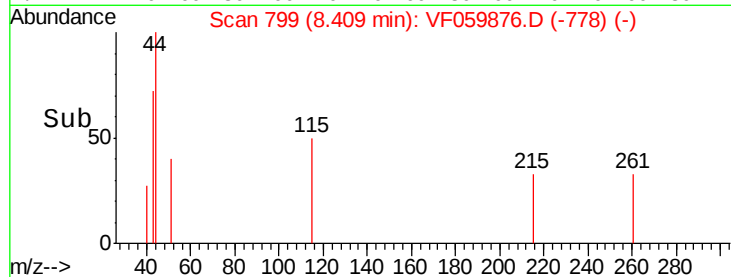
150

100

50

0

Time-->



#52

Toluene

Concen: 1.85 ug/l

RT: 7.85 min Scan# 742

Delta R.T. 0.06 min

Lab File: VF059876.D

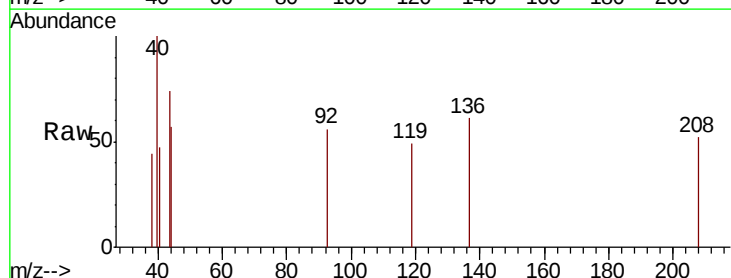
Acq: 4 Aug 2018 10:42

Tgt Ion: 92 Resp: 80

Ion Ratio Lower Upper

92 100

91 0.0 145.7 218.5#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

7.85

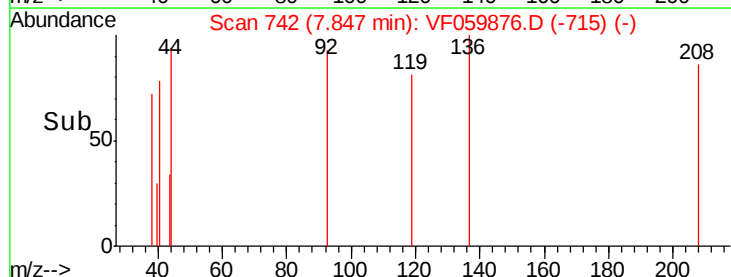
150

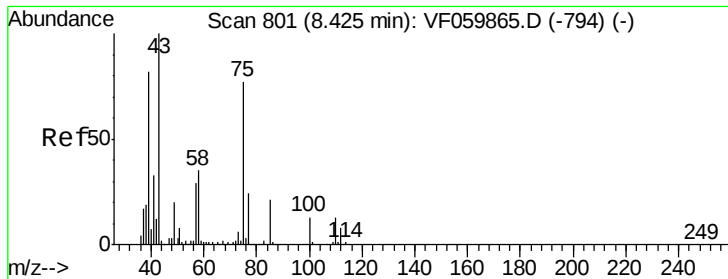
100

50

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 1.91 ug/l

RT: 8.38 min Scan# 796

Delta R.T. -0.04 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampleId :

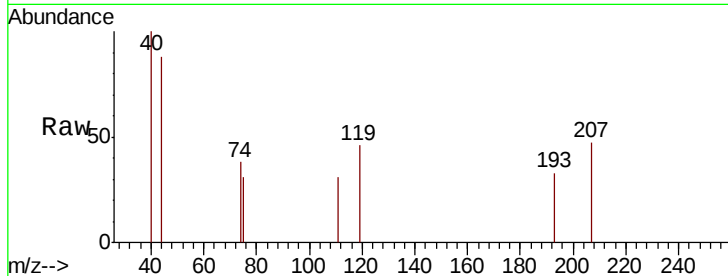
ES-RO-276

Tot Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

77 0.0 24.5 36.7#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

8.38

120

100

80

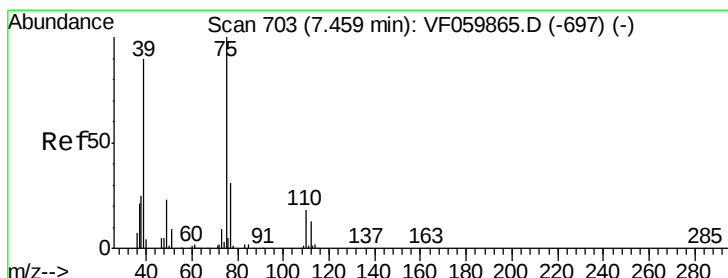
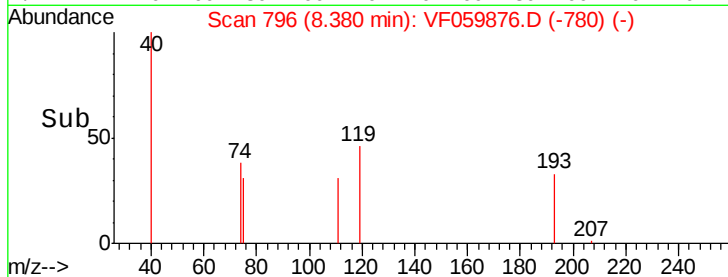
60

40

20

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 2.64 ug/l

RT: 7.51 min Scan# 708

Delta R.T. 0.05 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

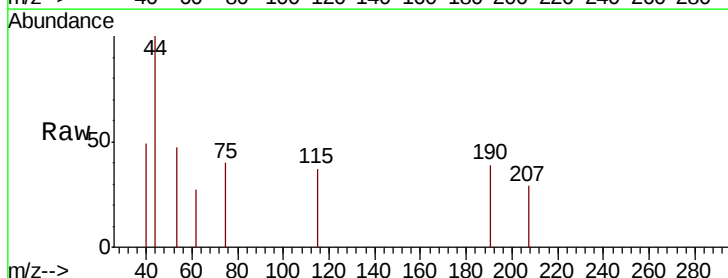
Tgt Ion: 75 Resp: 90

Ion Ratio Lower Upper

75 100

77 0.0 24.7 37.1#

39 0.0 72.0 108.0#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

200

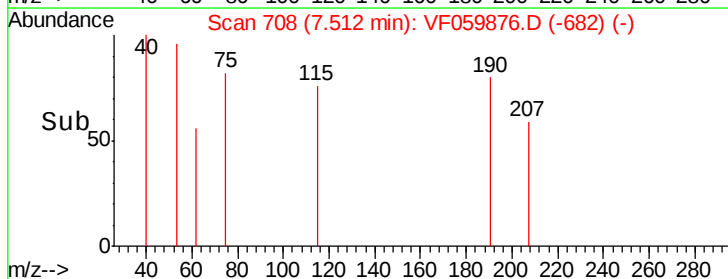
150

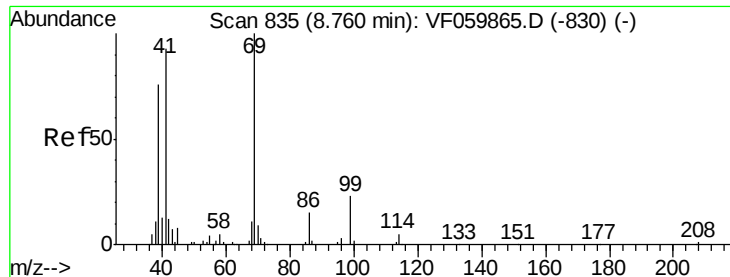
100

50

0

Time-->





#56

Ethyl methacrylate

Concen: 8.44 ug/l

RT: 8.84 min Scan# 843

Delta R.T. 0.08 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampleId :

ES-RO-276

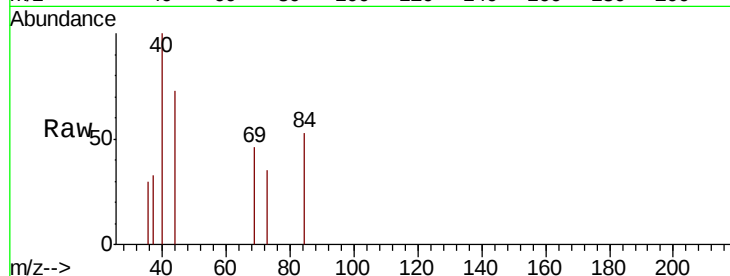
Tot Ion: 69 Resp: 93

Ion Ratio Lower Upper

69 100

41 0.0 74.7 112.1#

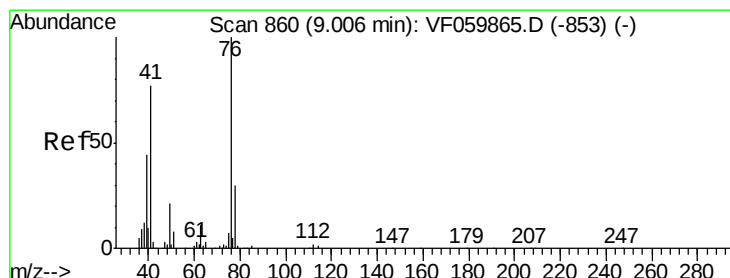
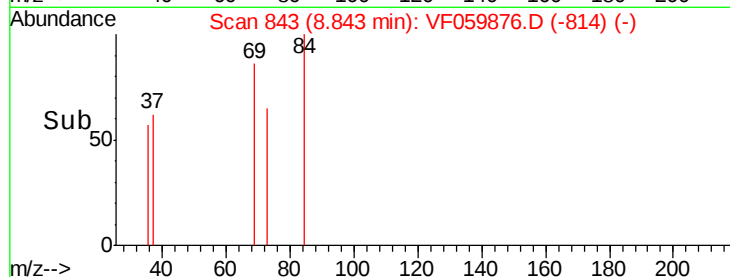
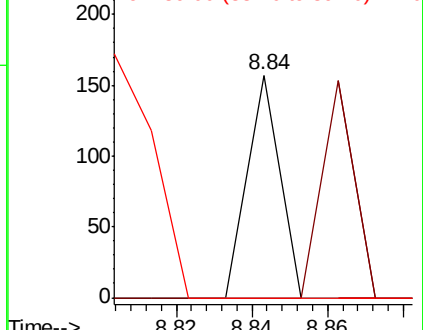
39 0.0 61.1 91.7#



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: 3.52 ug/l

RT: 8.92 min Scan# 851

Delta R.T. -0.08 min

Lab File: VF059876.D

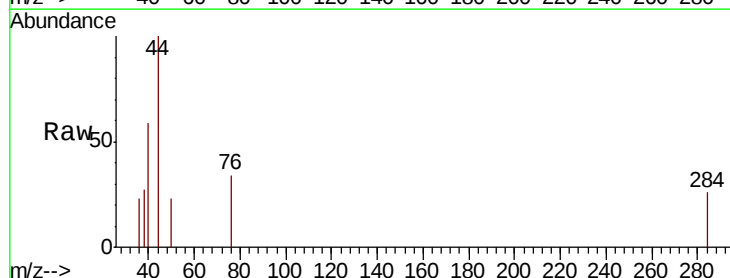
Acq: 4 Aug 2018 10:42

Tgt Ion: 76 Resp: 94

Ion Ratio Lower Upper

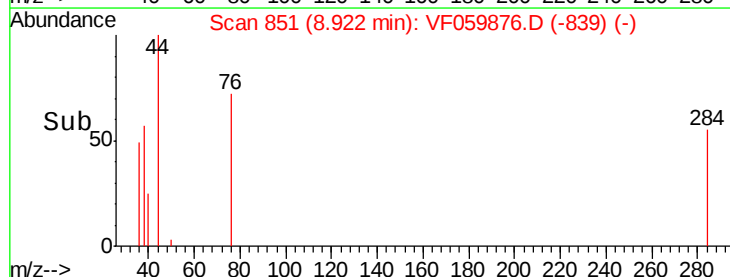
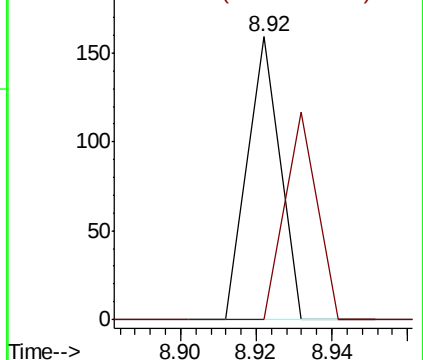
76 100

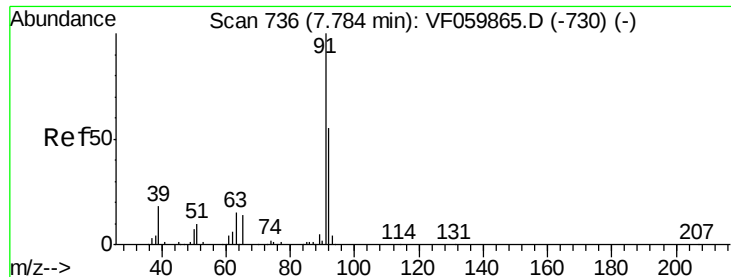
78 0.0 24.2 36.2#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

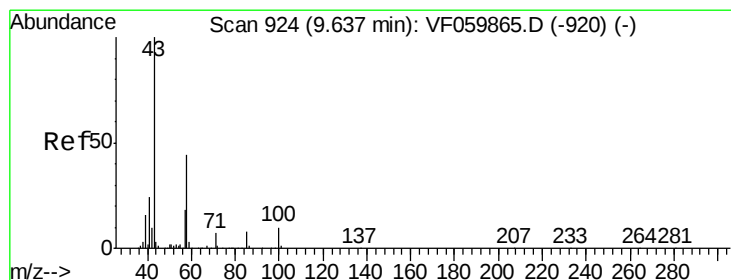
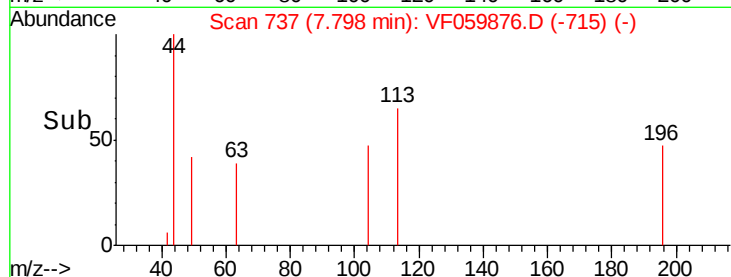
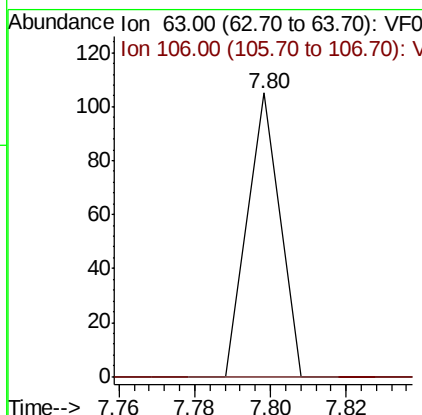
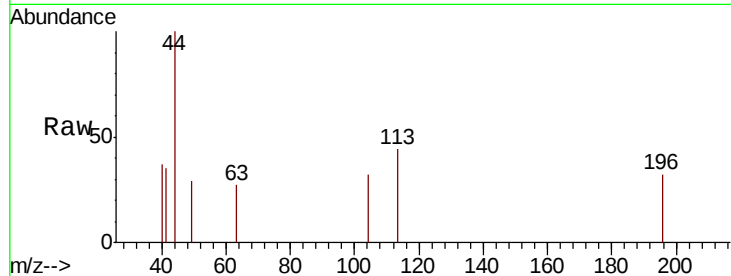




#58
 2-Chloroethyl Vinyl ether
 Concen: 30.11 ug/l
 RT: 7.80 min Scan# 737
 Delta R.T. 0.01 min
 Lab File: VF059876.D
 Acq: 4 Aug 2018 10:42

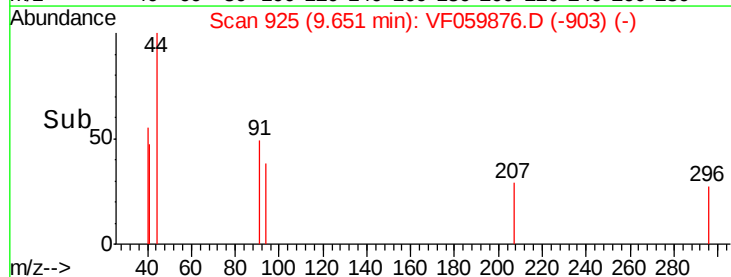
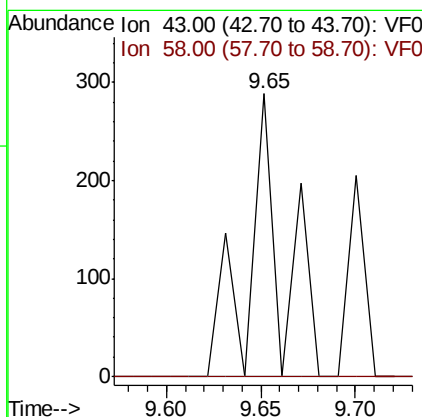
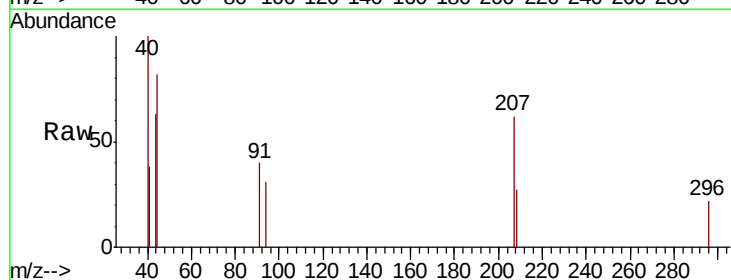
Instrument :
 MSVOA_F
 ClientSampleId :
 ES-RO-276

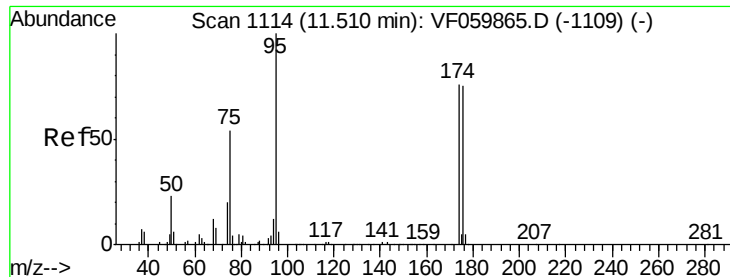
Tot Ion: 63 Resp: 62
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#59
 2-Hexanone
 Concen: 34.12 ug/l
 RT: 9.65 min Scan# 925
 Delta R.T. 0.01 min
 Lab File: VF059876.D
 Acq: 4 Aug 2018 10:42

Tgt Ion: 43 Resp: 373
 Ion Ratio Lower Upper
 43 100
 58 0.0 20.8 62.2#





#62

4-Bromofluorobenzene

Concen: 16.70 ug/l

RT: 11.51 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampled :

ES-RO-276

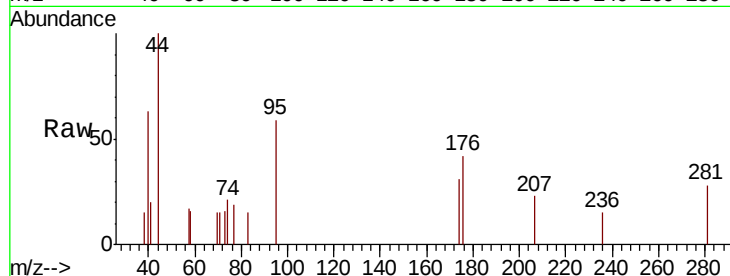
Tot Ion: 95 Resp: 588

Ion Ratio Lower Upper

95 100

174 52.6 0.0 151.6

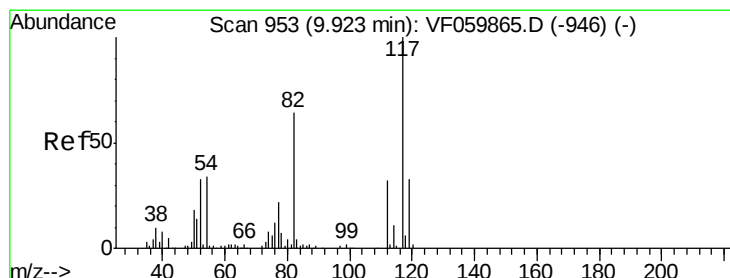
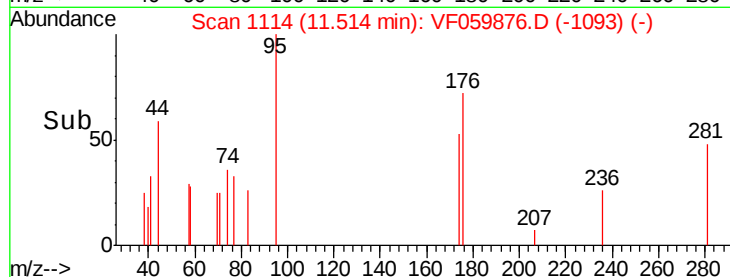
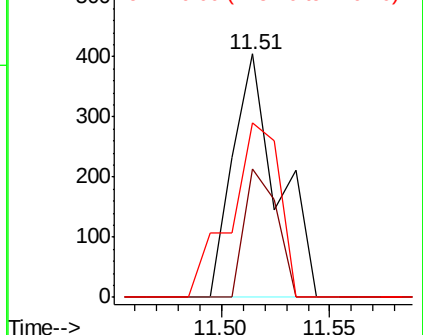
176 71.6 0.0 149.8



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.93 min Scan# 953

Delta R.T. 0.00 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

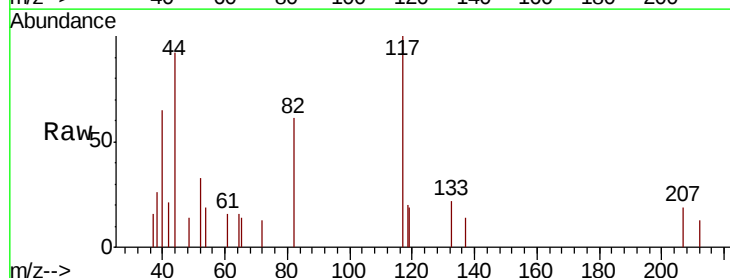
Tgt Ion: 117 Resp: 1827

Ion Ratio Lower Upper

117 100

82 61.5 51.3 76.9

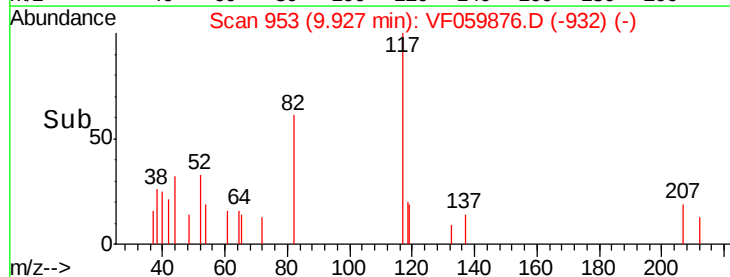
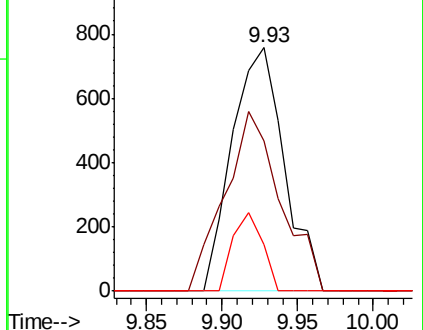
119 18.9 26.4 39.6#

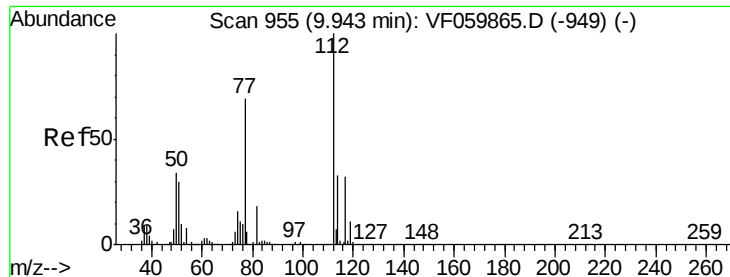


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#65

Chlorobenzene

Concen: 1.64 ug/l

RT: 10.09 min Scan# 969

Delta R.T. 0.14 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampleId :

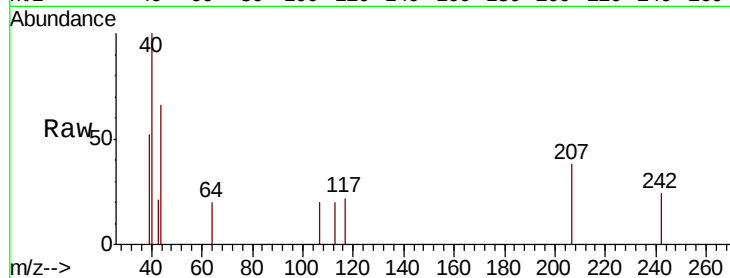
ES-RO-276

Tot Ion:112 Resp: 61

Ion Ratio Lower Upper

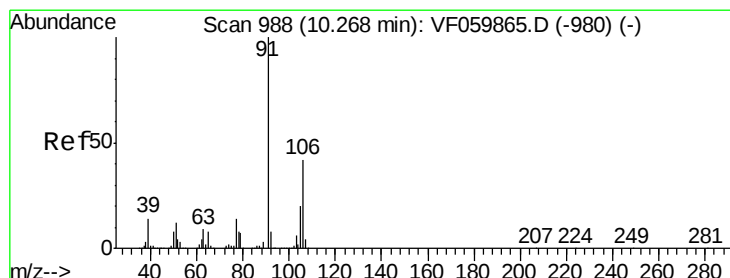
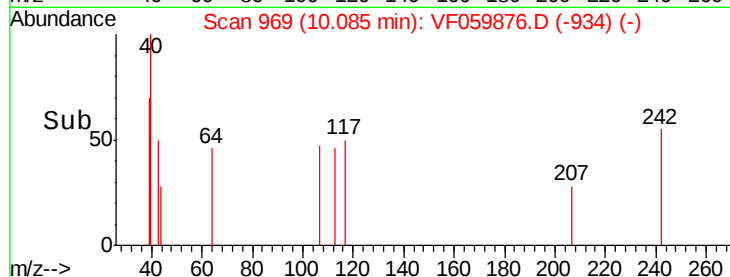
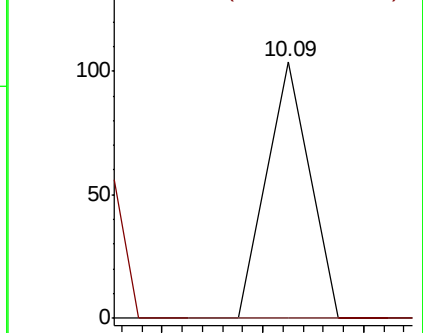
112 100

114 0.0 26.4 39.6#



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#68

m/p-Xylenes

Concen: 3.90 ug/l

RT: 10.32 min Scan# 993

Delta R.T. 0.05 min

Lab File: VF059876.D

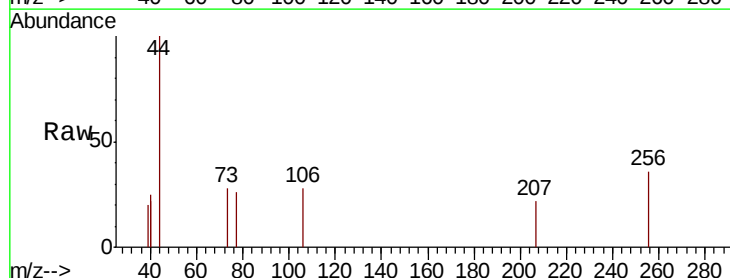
Acq: 4 Aug 2018 10:42

Tgt Ion:106 Resp: 87

Ion Ratio Lower Upper

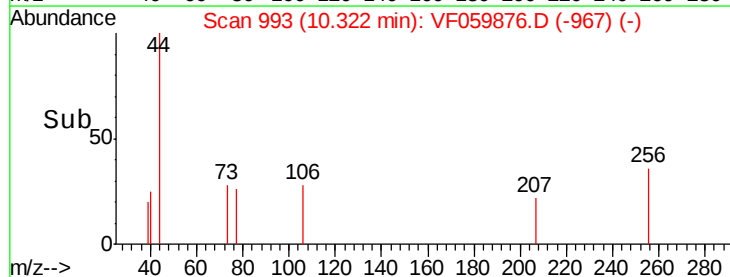
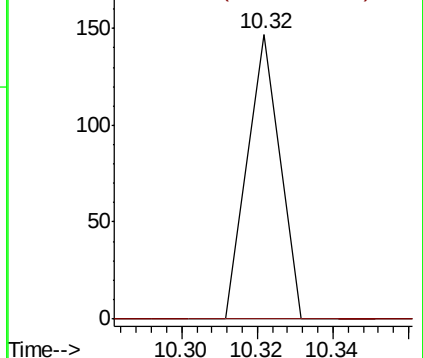
106 100

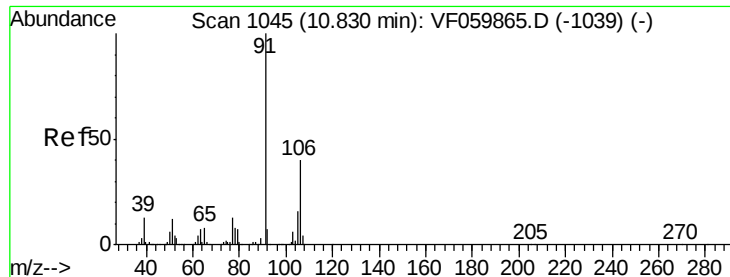
91 0.0 192.1 288.1#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

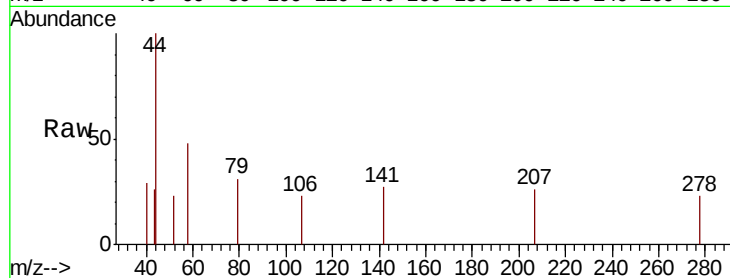




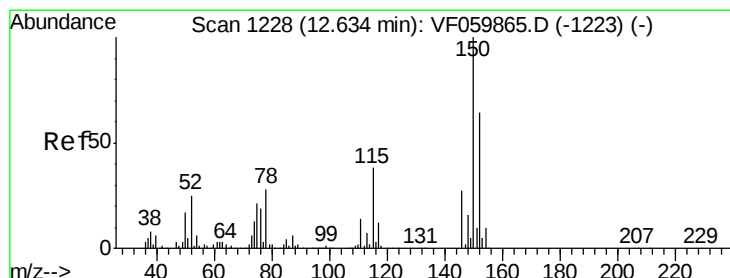
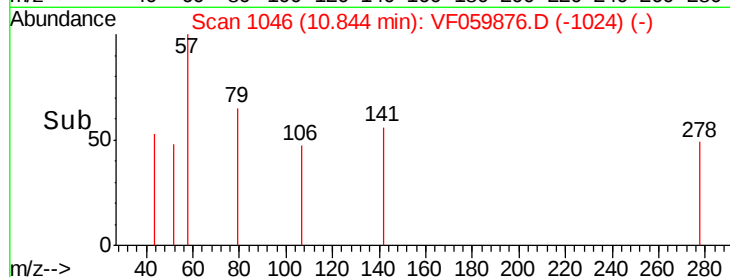
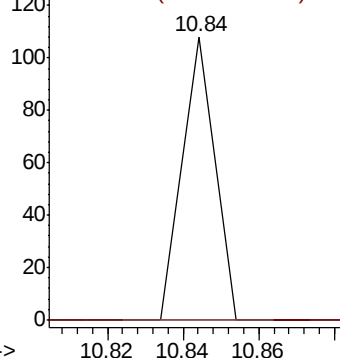
#69
o-Xylene
Concen: 2.71 ug/l
RT: 10.84 min Scan# 1046
Delta R.T. 0.01 min
Lab File: VF059876.D
Acq: 4 Aug 2018 10:42

Instrument :
MSVOA_F
ClientSampleId :
ES-RO-276

Tot Ion:106 Resp: 64
Ion Ratio Lower Upper
106 100
91 0.0 125.4 376.2#

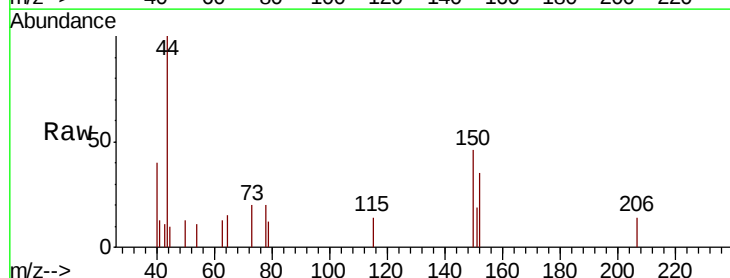


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

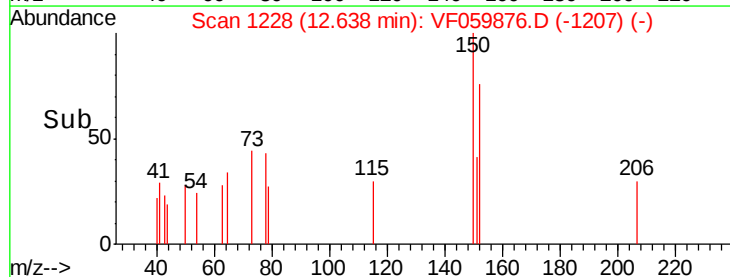
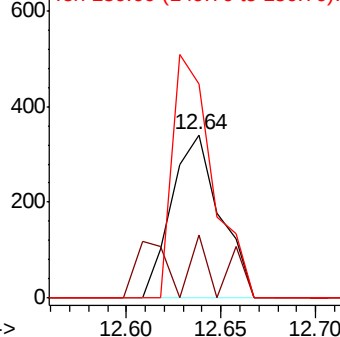


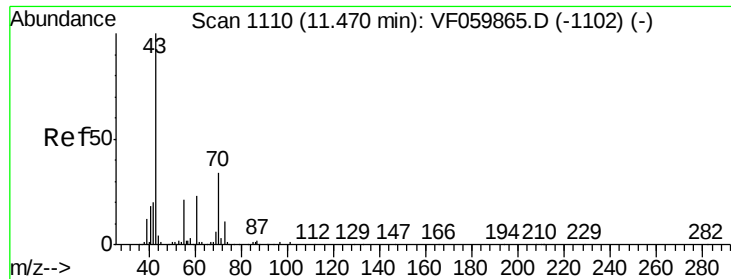
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.64 min Scan# 1228
Delta R.T. 0.00 min
Lab File: VF059876.D
Acq: 4 Aug 2018 10:42

Tgt Ion:152 Resp: 606
Ion Ratio Lower Upper
152 100
115 39.0 29.8 89.4
150 131.1 0.0 315.6



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#74

N-amvl acetate

Concen: 11.92 ug/l

RT: 11.44 min Scan# 1106

Delta R.T. -0.03 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

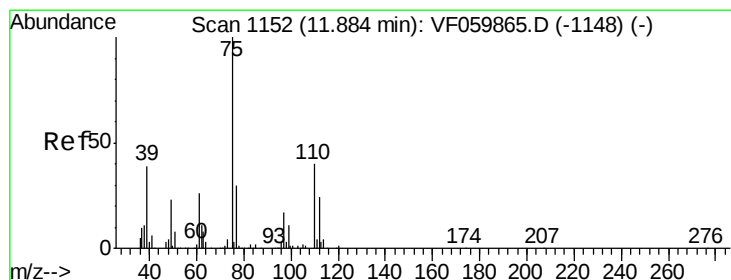
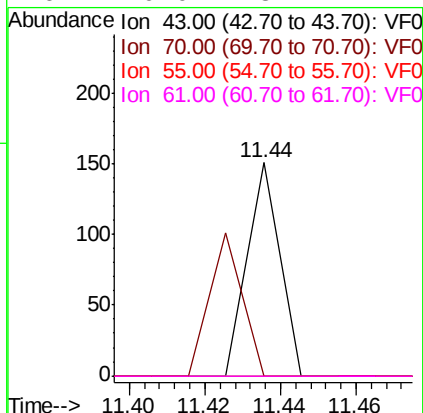
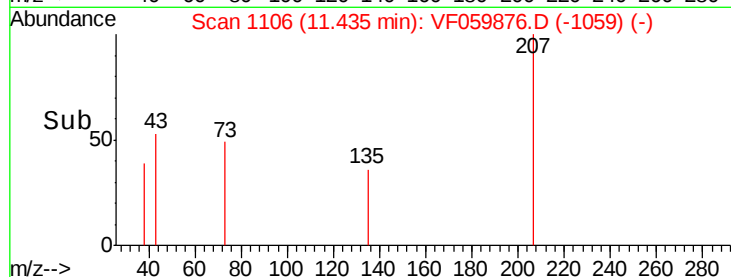
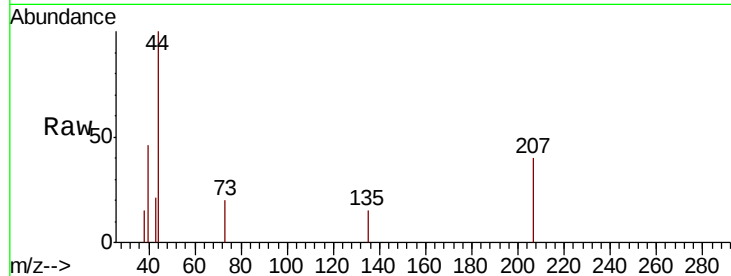
MSVOA_F

ClientSampleId :

ES-RO-276

Tot Ion: 43 Resp: 89

Ion	Ratio	Lower	Upper
43	100		
70	0.0	27.5	41.3#
55	0.0	16.6	25.0#
61	0.0	18.2	27.4#



#76

1,2,3-Trichloropropane

Concen: 15.77 ug/l

RT: 11.97 min Scan# 1160

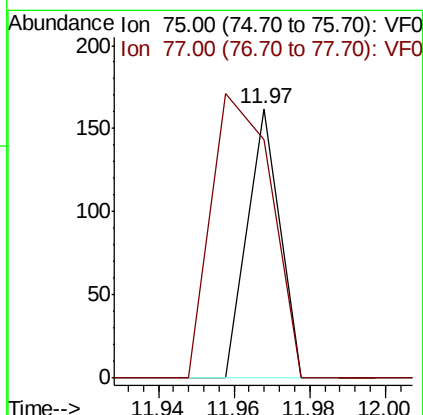
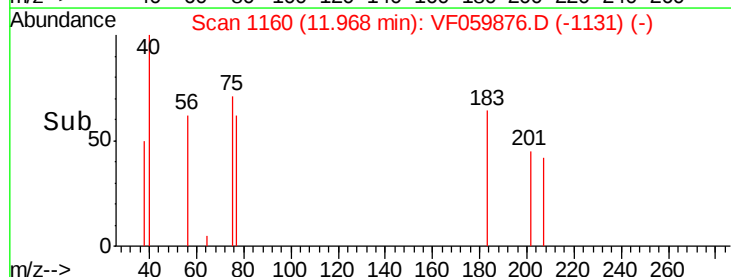
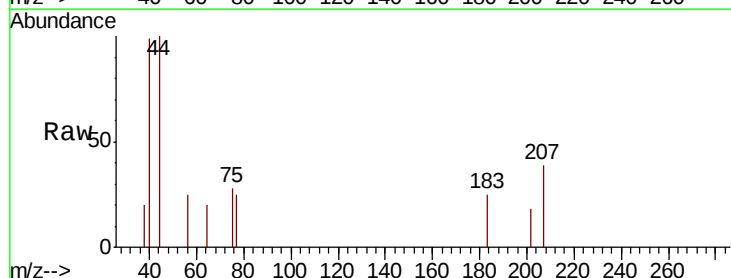
Delta R.T. 0.08 min

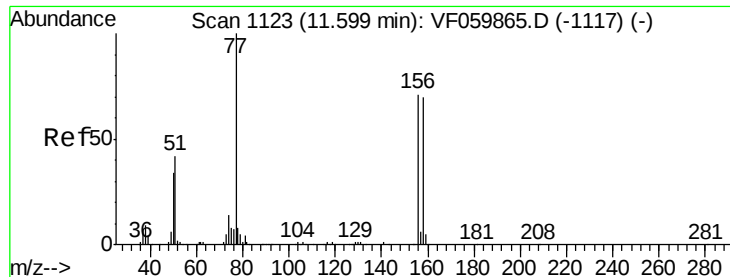
Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Tgt Ion: 75 Resp: 96

Ion	Ratio	Lower	Upper
75	100		
77	88.3	15.4	46.2#





#77

Bromobenzene

Concen: 9.64 ug/l

RT: 11.57 min Scan# 1120

Delta R.T. -0.03 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampleId :

ES-RO-276

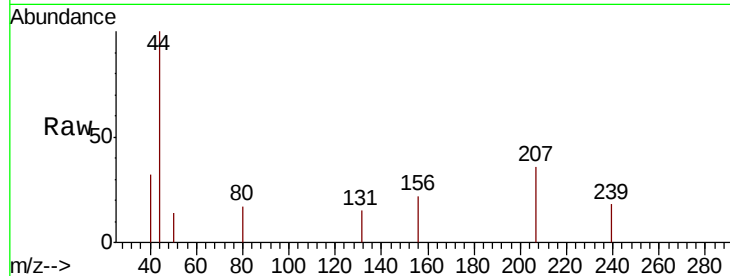
Tot Ion:156 Resp: 99

Ion Ratio Lower Upper

156 100

77 0.0 70.2 210.6#

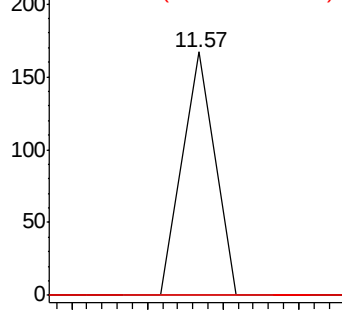
158 0.0 49.2 147.6#



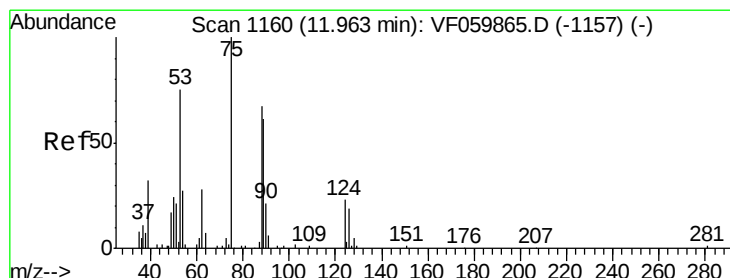
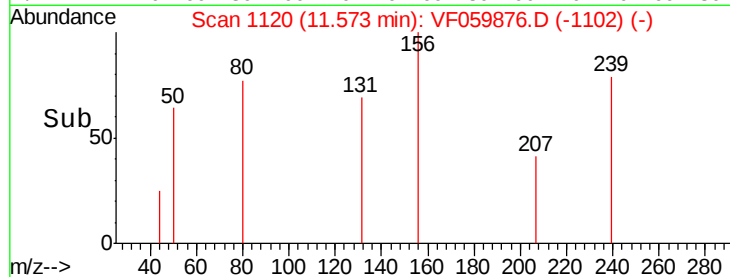
Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 43.91 ug/l

RT: 11.97 min Scan# 1160

Delta R.T. 0.00 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

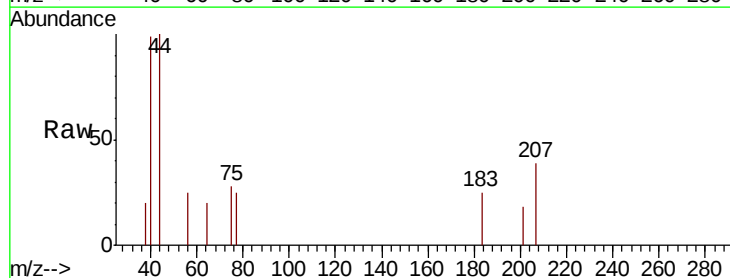
Tgt Ion: 75 Resp: 96

Ion Ratio Lower Upper

75 100

53 0.0 65.9 98.9#

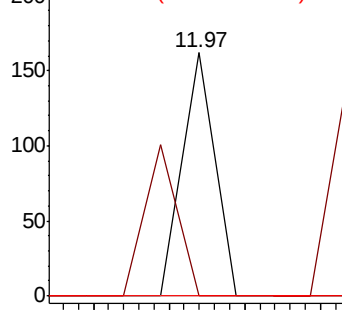
89 0.0 50.6 76.0#



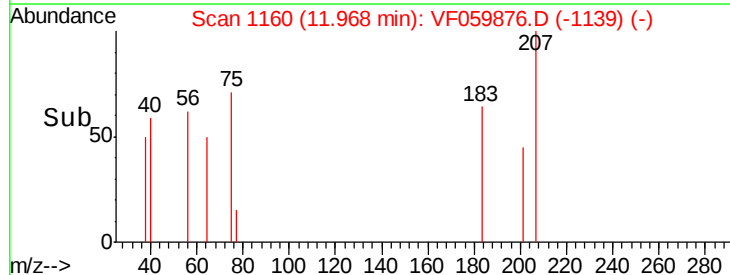
Abundance Ion 75.00 (74.70 to 75.70): VF0

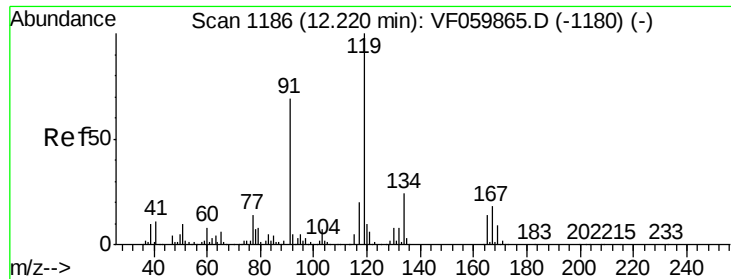
Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0



Time-->

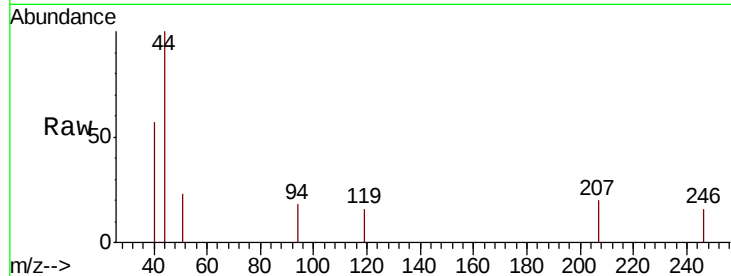




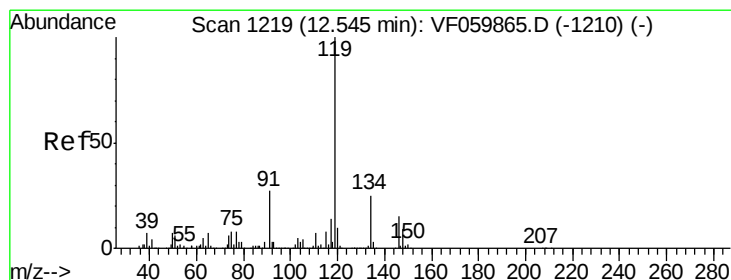
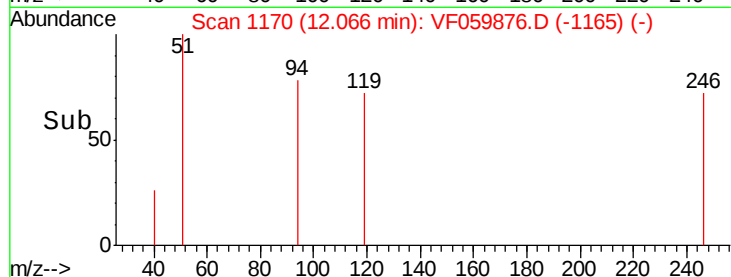
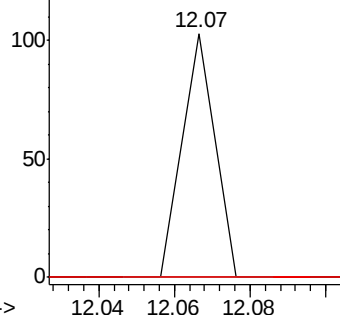
#83
tert-Butylbenzene
Concen: 1.79 ug/l
RT: 12.07 min Scan# 1170
Delta R.T. -0.15 min
Lab File: VF059876.D
Acq: 4 Aug 2018 10:42

Instrument :
MSVOA_F
ClientSampled :
ES-RO-276

Tot Ion	Ratio	Lower	Upper
119	100		
91	0.0	34.4	103.2#
134	0.0	12.1	36.3#

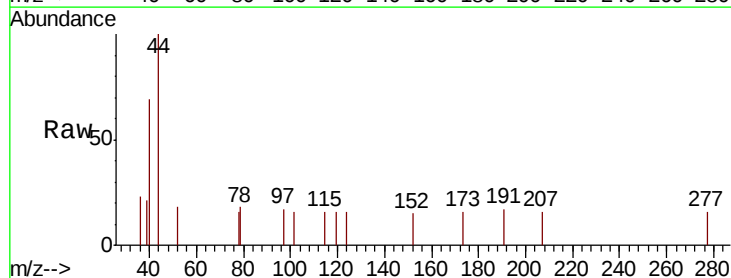


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): VF0
Ion 134.00 (133.70 to 134.70): V

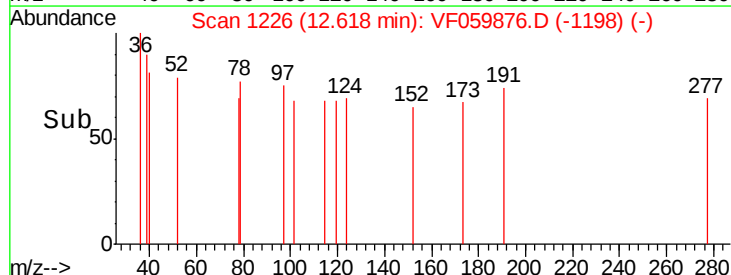
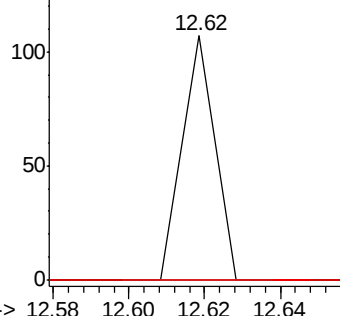


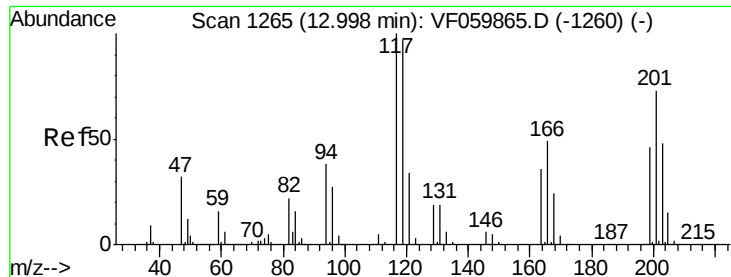
#86
p-Isopropyltoluene
Concen: 1.65 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. 0.07 min
Lab File: VF059876.D
Acq: 4 Aug 2018 10:42

Tgt Ion	Ratio	Lower	Upper
119	100		
134	0.0	12.4	37.0#
91	0.0	13.6	40.7#



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): VF0





#90

Hexachloroethane

Concen: 6.75 ug/l

RT: 12.95 min Scan# 1260

Delta R.T. -0.04 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampleId :

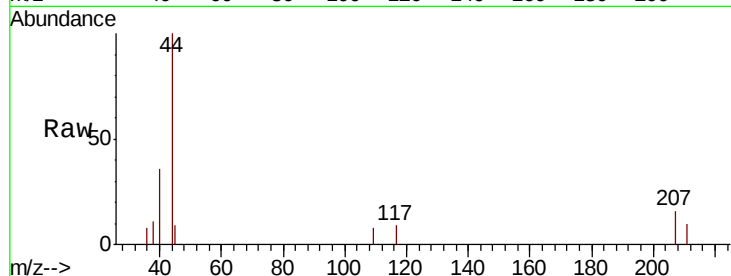
ES-RO-276

Tot Ion:117 Resp: 71

Ion Ratio Lower Upper

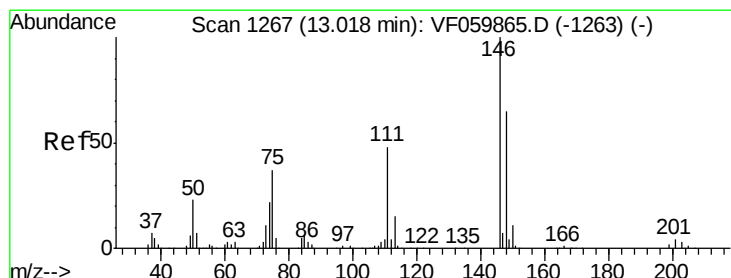
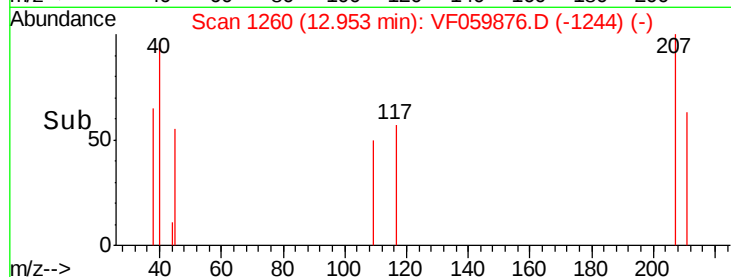
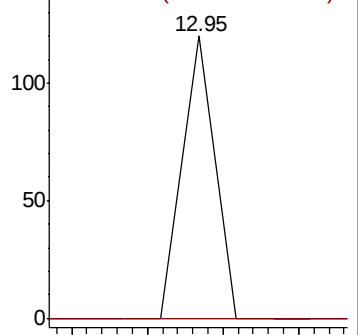
117 100

201 0.0 36.6 109.8#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V



#91

1,2-Dichlorobenzene

Concen: 5.56 ug/l

RT: 12.87 min Scan# 1252

Delta R.T. -0.14 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

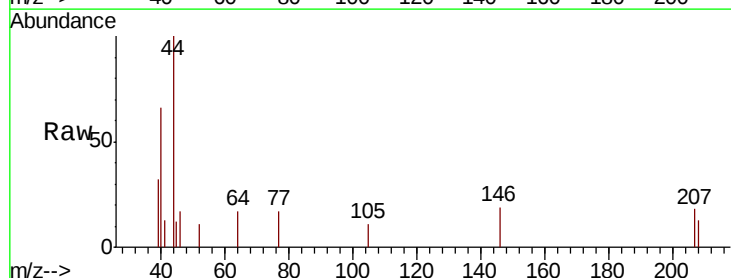
Tgt Ion:146 Resp: 104

Ion Ratio Lower Upper

146 100

111 0.0 24.1 72.2#

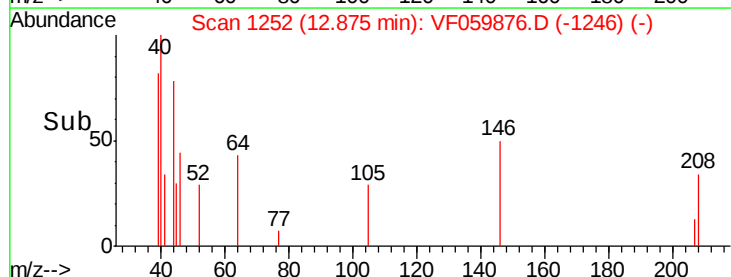
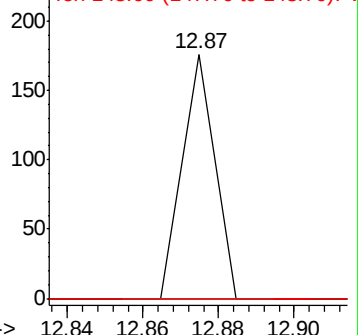
148 0.0 32.8 98.3#

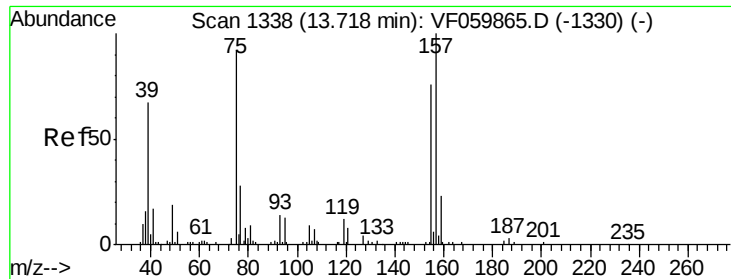


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 50.38 ug/l

RT: 13.63 min Scan# 1329

Delta R.T. -0.08 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

Instrument :

MSVOA_F

ClientSampleId :

ES-RO-276

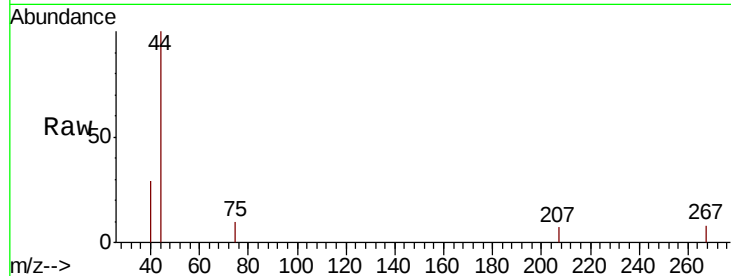
Tot Ion: 75 Resp: 90

Ion Ratio Lower Upper

75 100

155 0.0 41.2 123.6#

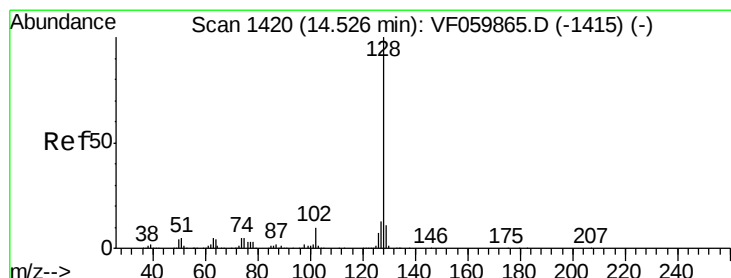
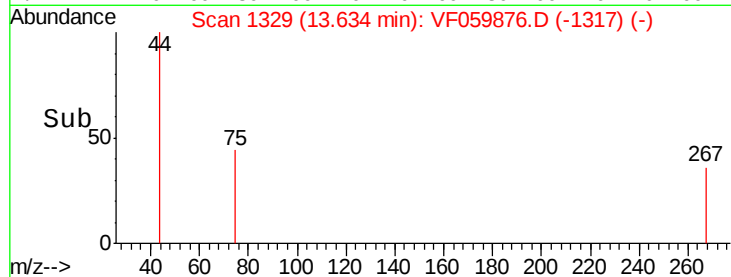
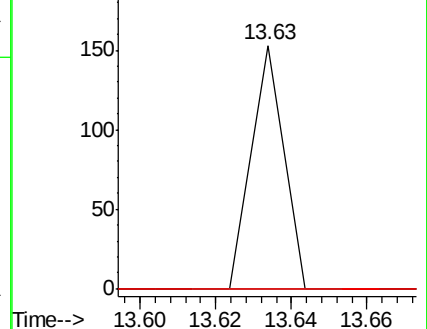
157 0.0 54.5 163.6#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



#95

Naphthalene

Concen: 2.93 ug/l

RT: 14.37 min Scan# 1404

Delta R.T. -0.15 min

Lab File: VF059876.D

Acq: 4 Aug 2018 10:42

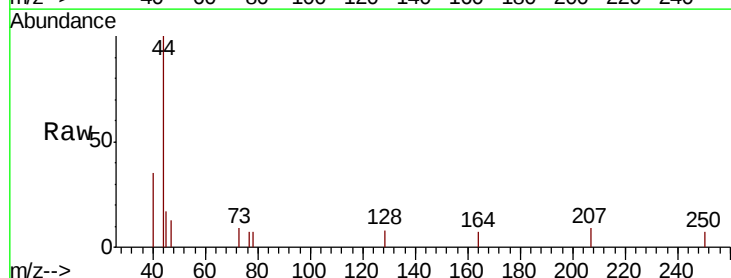
Tgt Ion: 128 Resp: 72

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 9.0 13.6#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

