

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070518\
 Data File : VL032209.D
 Acq On : 5 Jul 2018 18:44
 Operator : SY/AP
 Sample : J3867-01DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 539BDL

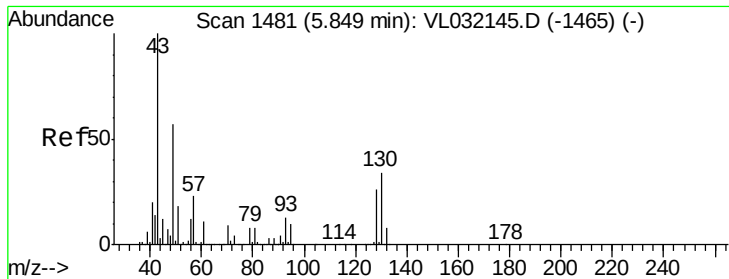
Quant Time: Jul 06 04:29:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Jun 29 22:27:58 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1481472	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3642650	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3623270	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	2786699	10.06	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.13	85	14511	0.074	ppbv	88
3) Chlorodifluoromethane	3.07	51	17332	0.096	ppbv	95
9) Propene	3.45	41	13857	0.164	ppbv	83
13) Ethanol	3.72	45	106697	4.172	ppbv	97
15) Acetone	3.97	43	522706	3.017	ppbv	99
19) Isopropyl Alcohol	4.11	45	12546	0.087	ppbv #	38
20) Methylene Chloride	4.48	84	241206	3.810	ppbv	97
23) Vinyl Acetate	5.22	43	16293	0.052	ppbv #	42
25) Ethyl Acetate	5.86	43	426757	1.191	ppbv #	78
26) Hexane	5.86	57	632474	3.832	ppbv #	44
34) 2-Butanone	5.42	43	16164	0.070	ppbv #	66
36) Benzene	7.09	78	14889	0.042	ppbv #	75
39) 1,2-Dichloropropane	7.38	63	1011868	7.277	ppbv #	27
41) Tetrahydrofuran	5.86	42	228016	1.645	ppbv #	50
53) Toluene	10.04	91	14641	0.034	ppbv #	20

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.84 min Scan# 1479

Delta R.T. -0.02 min

Lab File: VL032209.D

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MSVOA_L

ClientSampleId :

539BDL

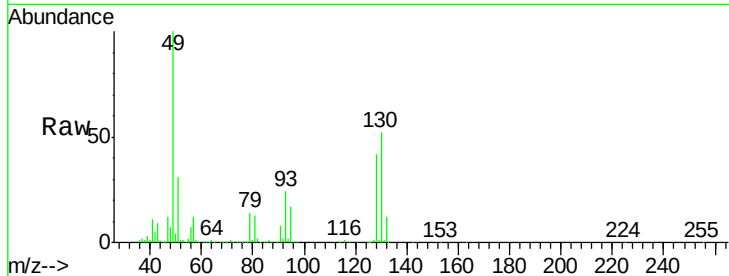
Tgt Ion: 49 Resp: 1481472

Ion Ratio Lower Upper

49 100

128 43.1 23.4 70.0

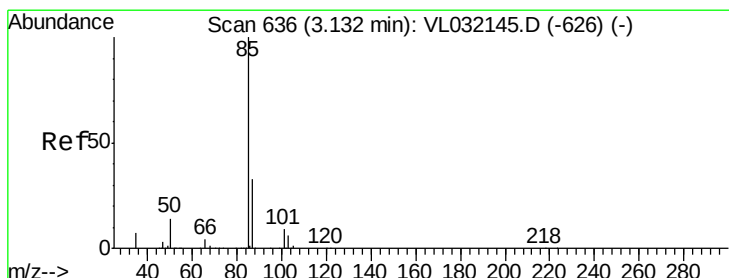
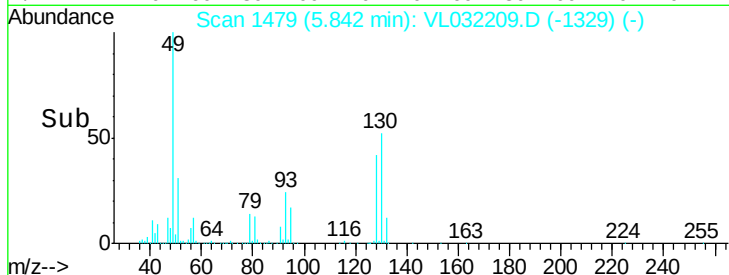
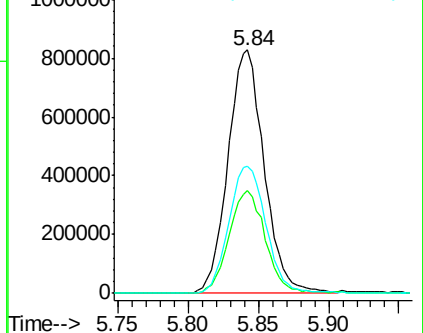
130 54.6 30.3 90.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.074 ppbv

RT: 3.13 min Scan# 636

Delta R.T. -0.01 min

Lab File: VL032209.D

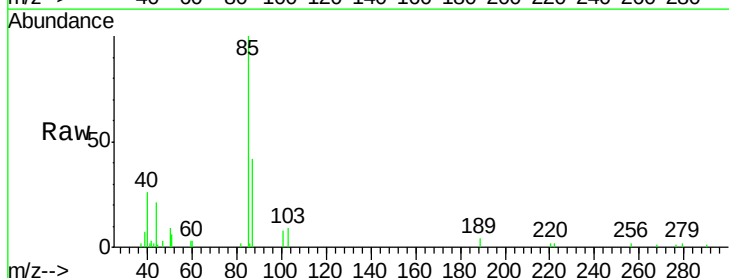
Acq: 5 Jul 2018 18:44

Tgt Ion: 85 Resp: 14511

Ion Ratio Lower Upper

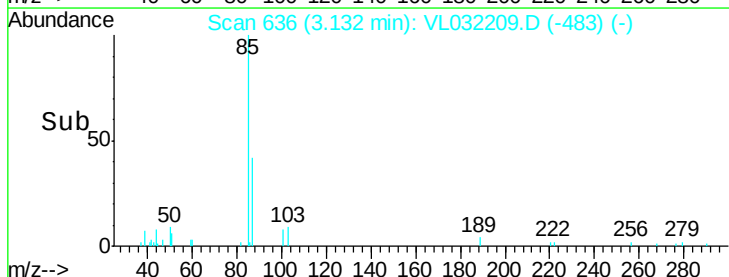
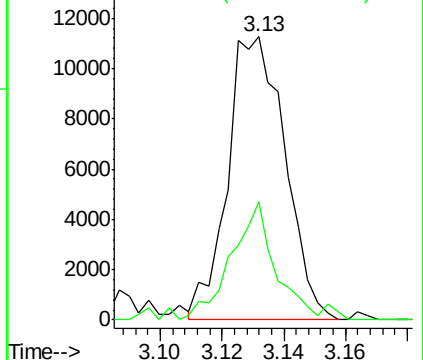
85 100

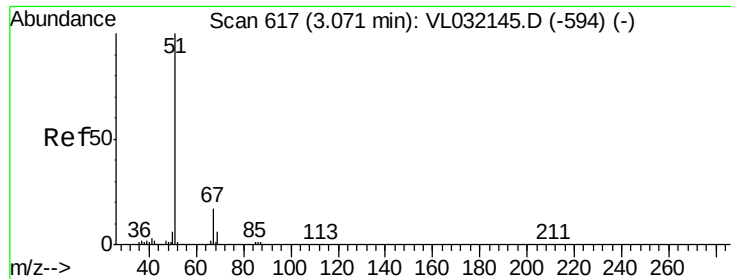
87 40.0 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.096 ppbv

RT: 3.07 min Scan# 616

Delta R.T. -0.01 min

Lab File: VL032209.D

Acq: 5 Jul 2018 18:44

Instrument :

MSVOA_L

ClientSampled :

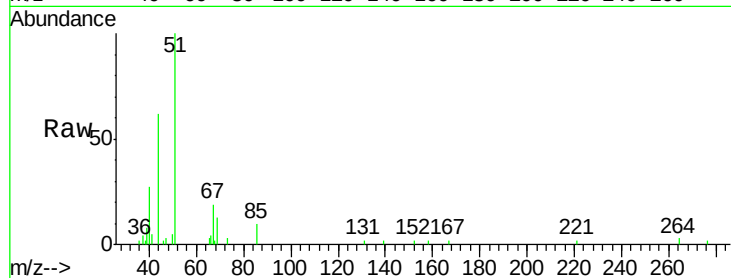
539BDL

Tgt Ion: 51 Resp: 17332

Ion Ratio Lower Upper

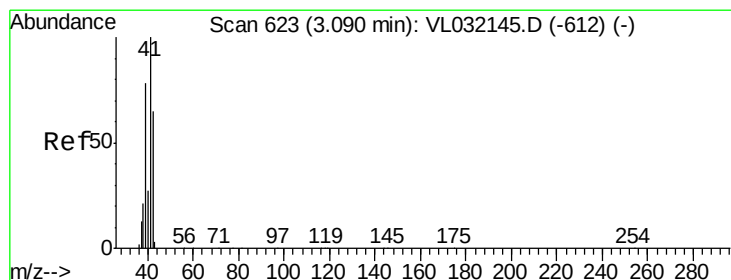
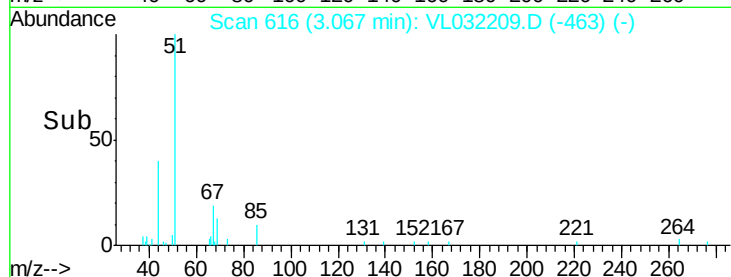
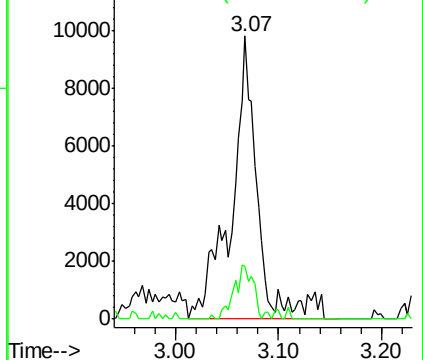
51 100

67 14.3 13.2 19.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.164 ppbv

RT: 3.45 min Scan# 736

Delta R.T. 0.35 min

Lab File: VL032209.D

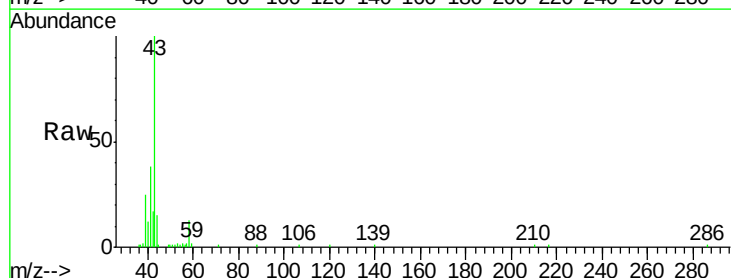
Acq: 5 Jul 2018 18:44

Tgt Ion: 41 Resp: 13857

Ion Ratio Lower Upper

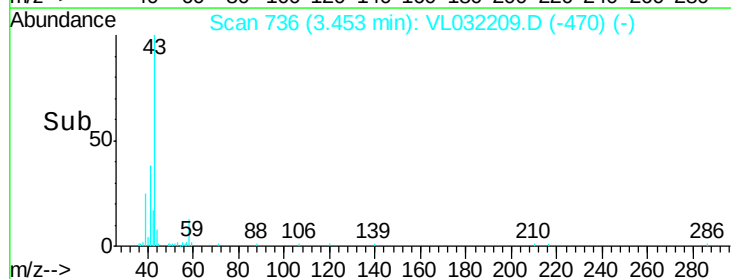
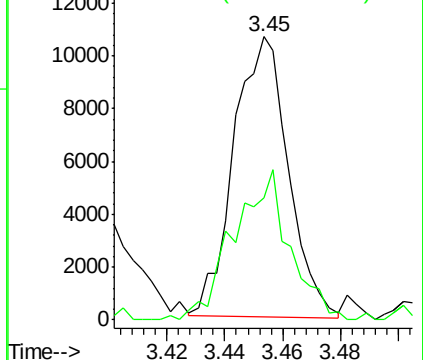
41 100

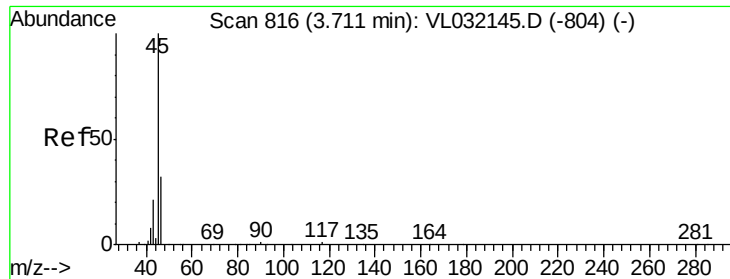
42 56.7 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

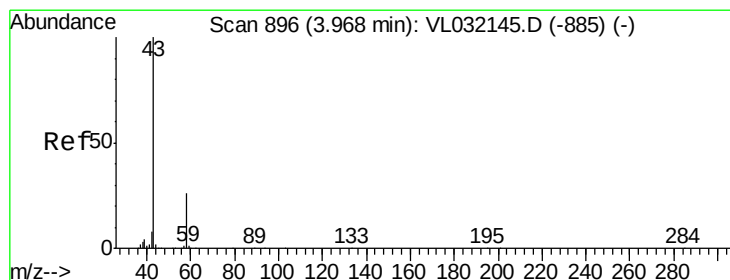
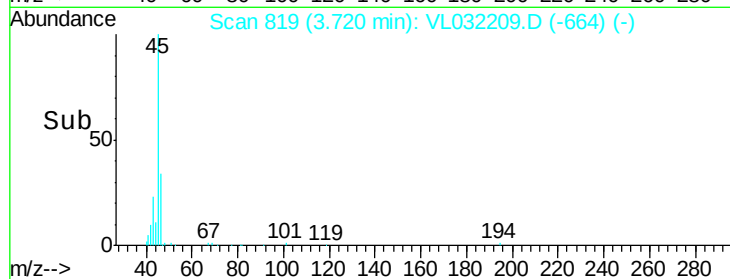
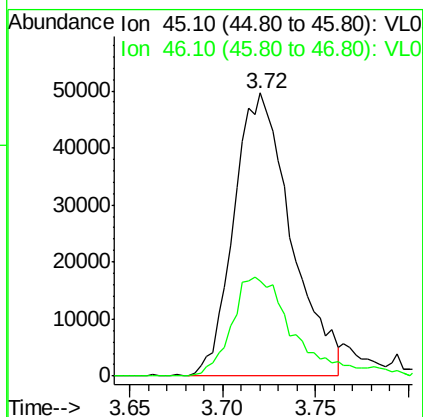
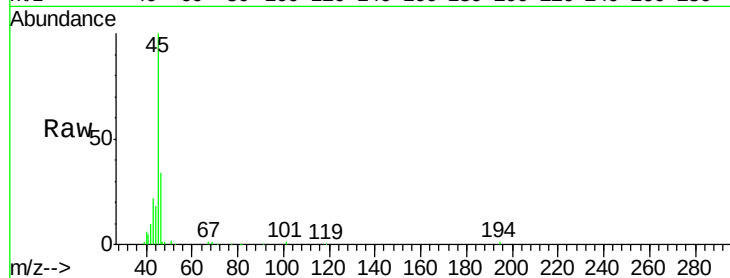




#13
Ethanol
Concen: 4.172 ppbv
RT: 3.72 min Scan# 819
Delta R.T. -0.00 min
Lab File: VL032209.D
Acq: 5 Jul 2018 18:44

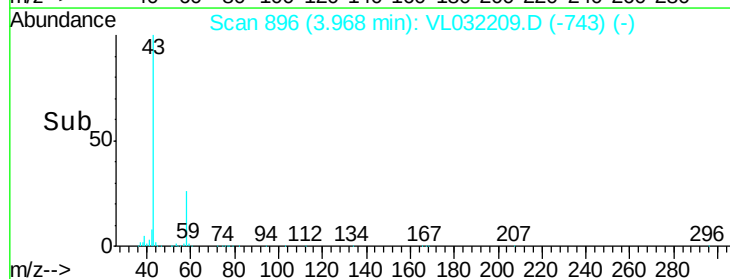
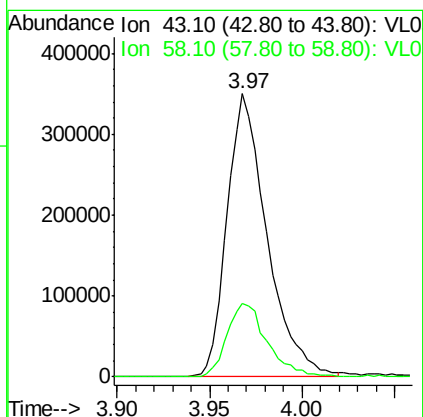
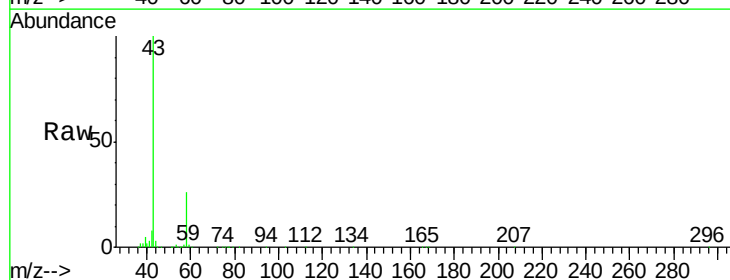
Instrument :
MSVOA_L
ClientSampled :
539BDL

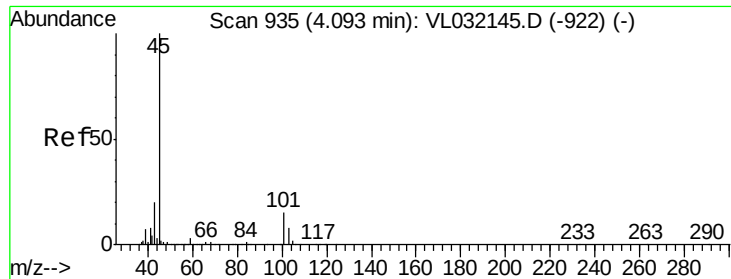
Tgt Ion: 45 Resp: 106697
Ion Ratio Lower Upper
45 100
46 38.1 14.6 58.4



#15
Acetone
Concen: 3.017 ppbv
RT: 3.97 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL032209.D
Acq: 5 Jul 2018 18:44

Tgt Ion: 43 Resp: 522706
Ion Ratio Lower Upper
43 100
58 26.3 21.4 32.0





#19

Isopropyl Alcohol

Concen: 0.087 ppbv

RT: 4.11 min Scan# 941

Delta R.T. 0.01 min

Lab File: VL032209.D

Acq: 5 Jul 2018 18:44

Instrument :

MSVOA_L

ClientSampleId :

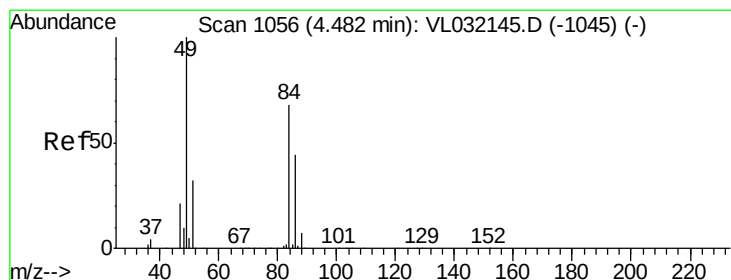
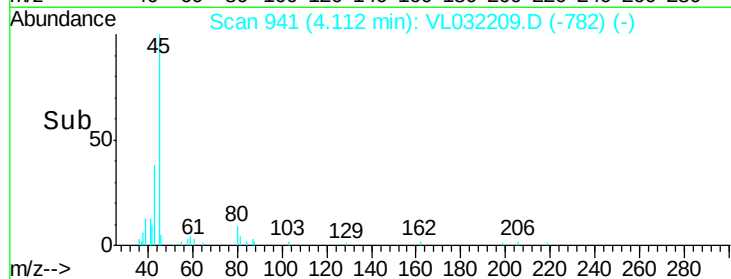
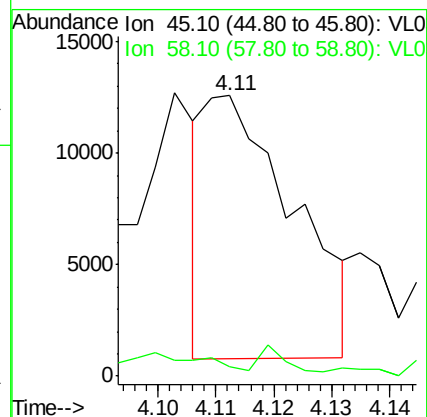
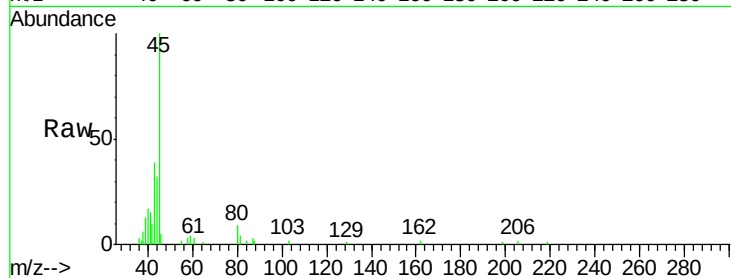
539BDL

Tgt Ion: 45 Resp: 12546

Ion Ratio Lower Upper

45 100

58 0.0 29.4 44.0#



#20

Methylene Chloride

Concen: 3.810 ppbv

RT: 4.48 min Scan# 1055

Delta R.T. -0.01 min

Lab File: VL032209.D

Acq: 5 Jul 2018 18:44

Tgt Ion: 84 Resp: 241206

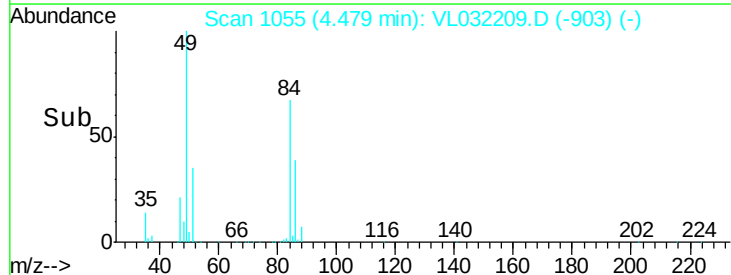
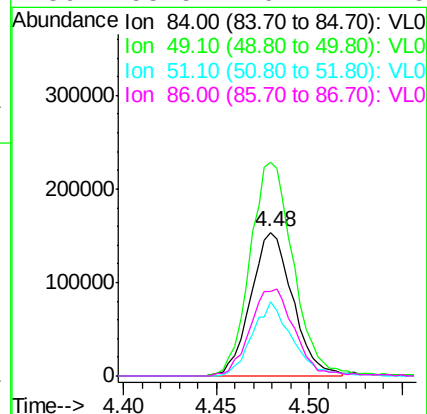
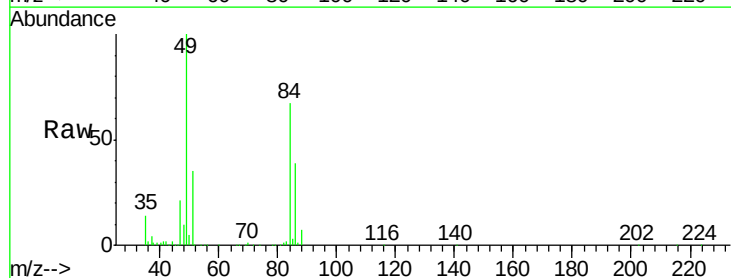
Ion Ratio Lower Upper

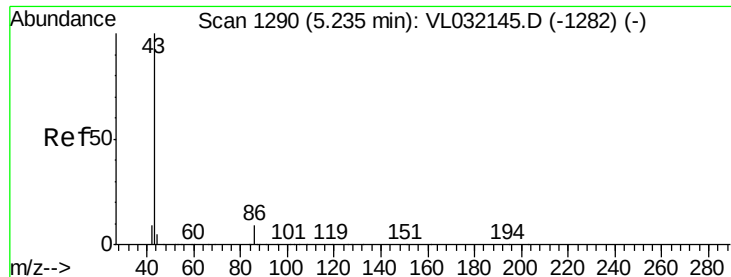
84 100

49 148.8 119.6 179.4

51 52.4 36.3 54.5

86 58.5 49.7 74.5





#23

Vinyl Acetate

Concen: 0.052 ppbv

RT: 5.22 min Scan# 1285

Delta R.T. -0.03 min

Lab File: VL032209.D

Acq: 5 Jul 2018 18:44

Instrument :

MSVOA_L

ClientSampleId :

539BDL

Tgt Ion: 43 Resp: 16293

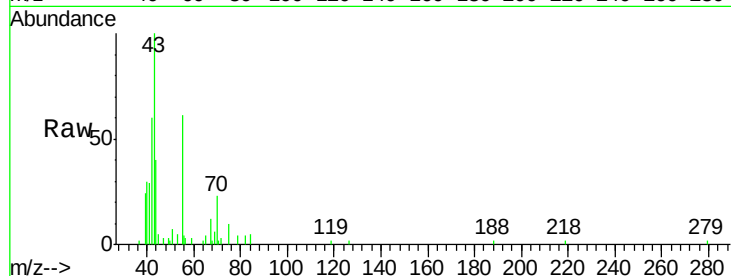
Ion Ratio Lower Upper

43 100

86 0.0 6.2 9.4#

42 50.4 6.9 10.3#

44 8.0 3.8 5.8#

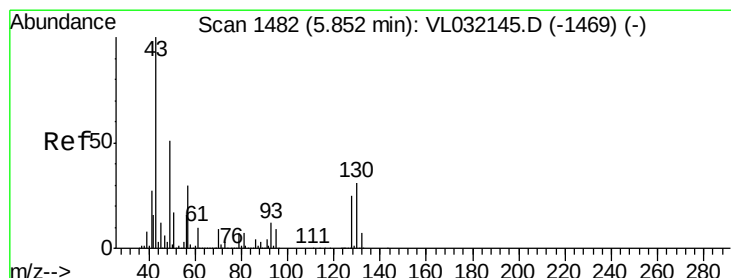
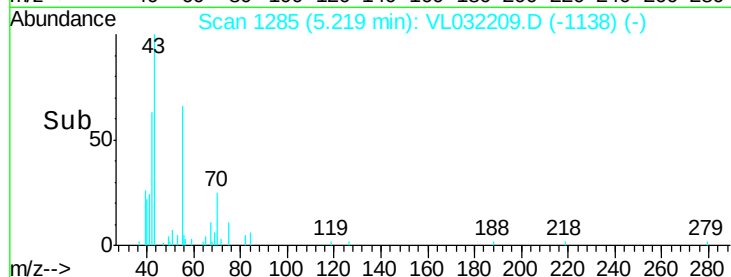
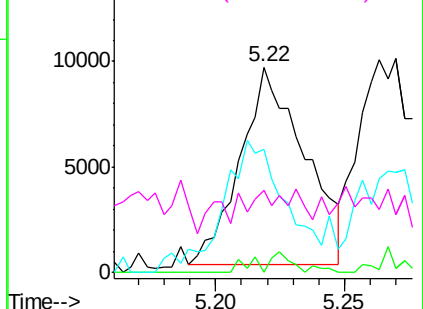


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 1.191 ppbv

RT: 5.86 min Scan# 1484

Delta R.T. -0.01 min

Lab File: VL032209.D

Acq: 5 Jul 2018 18:44

Tgt Ion: 43 Resp: 426757

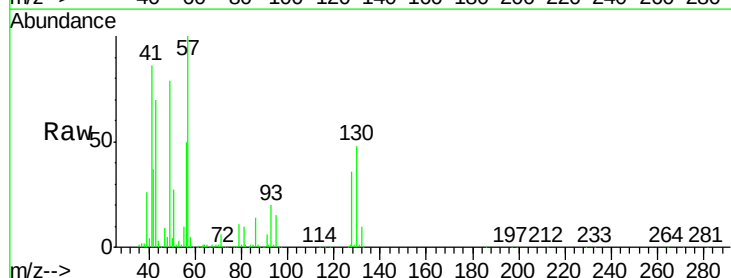
Ion Ratio Lower Upper

43 100

45 0.5 7.8 11.8#

61 0.4 7.4 11.0#

70 1.7 6.1 9.1#

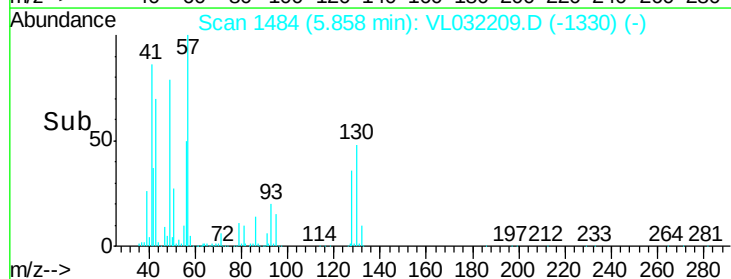
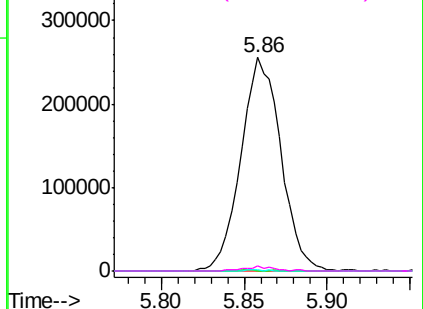


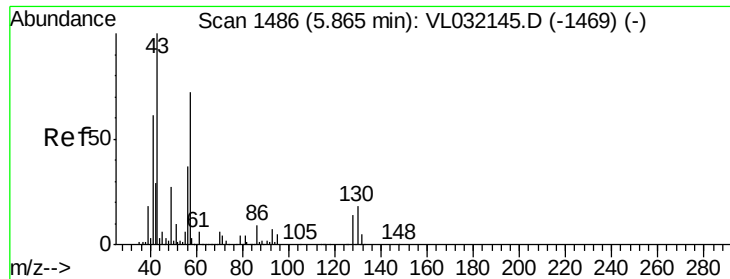
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

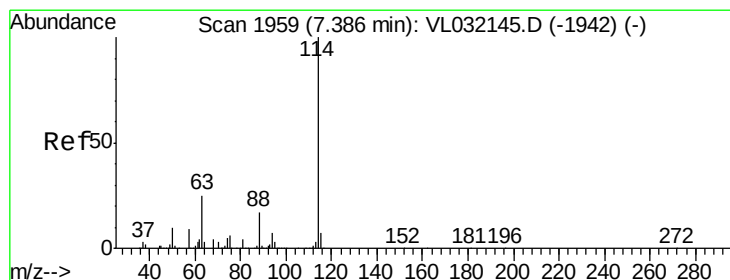
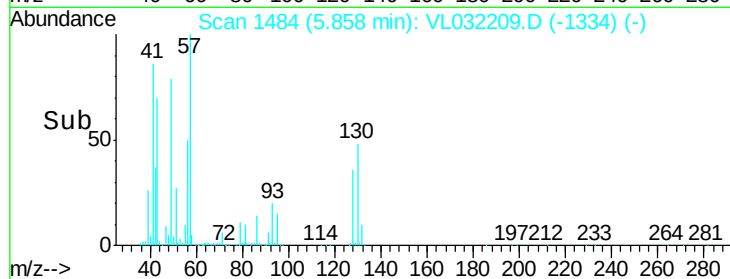
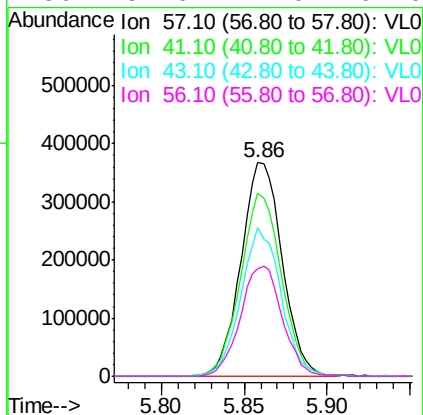
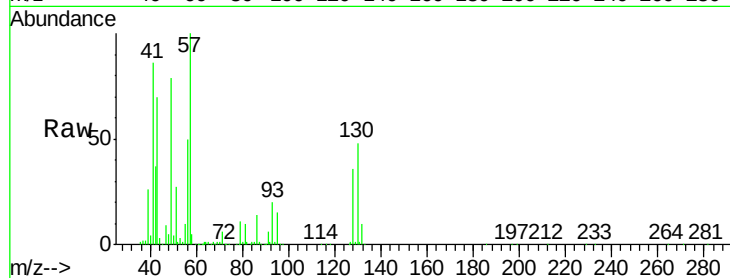




#26
Hexane
Concen: 3.832 ppbv
RT: 5.86 min Scan# 1484
Delta R.T. -0.02 min
Lab File: VL032209.D
Acq: 5 Jul 2018 18:44

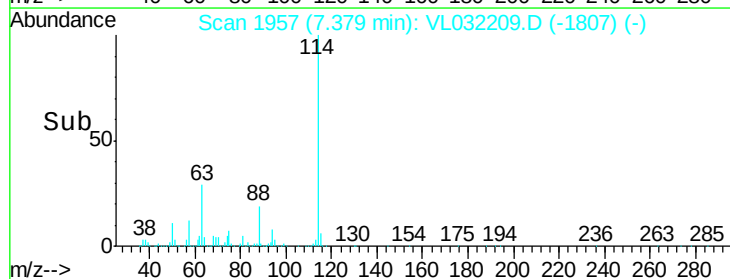
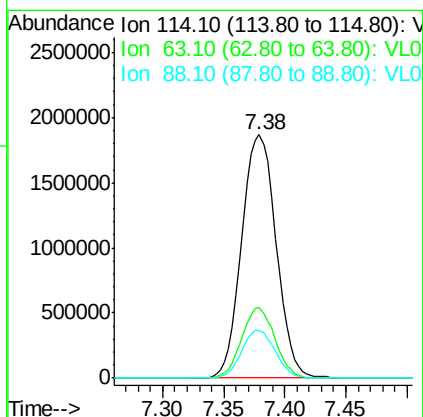
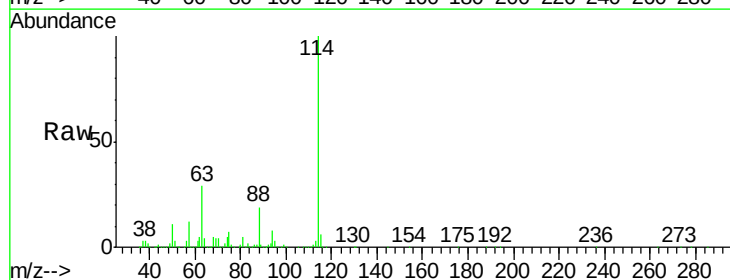
Instrument :
MSVOA_L
ClientSampleId :
539BDL

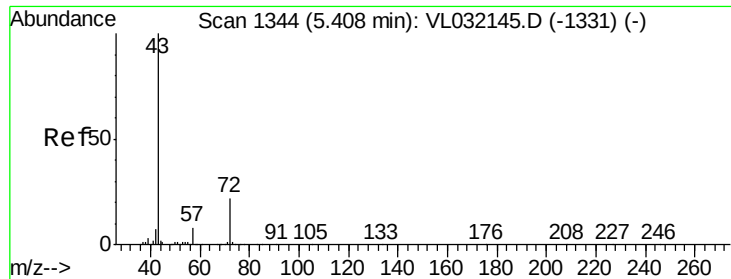
Tgt Ion: 57 Resp: 632474
Ion Ratio Lower Upper
57 100
41 85.3 68.6 103.0
43 68.0 168.6 252.8#
56 52.6 41.0 61.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.38 min Scan# 1957
Delta R.T. -0.02 min
Lab File: VL032209.D
Acq: 5 Jul 2018 18:44

Tgt Ion: 114 Resp: 3642650
Ion Ratio Lower Upper
114 100
63 28.0 19.1 28.7
88 19.1 13.9 20.9

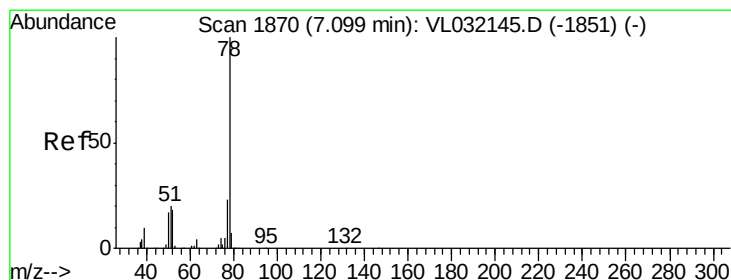
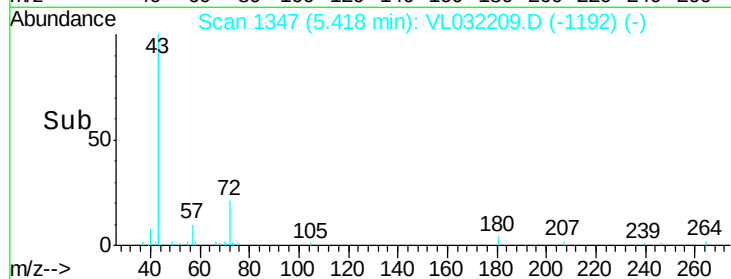
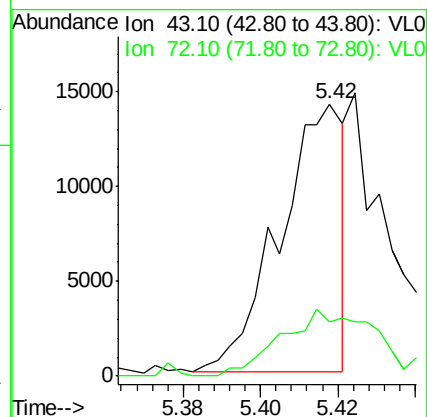
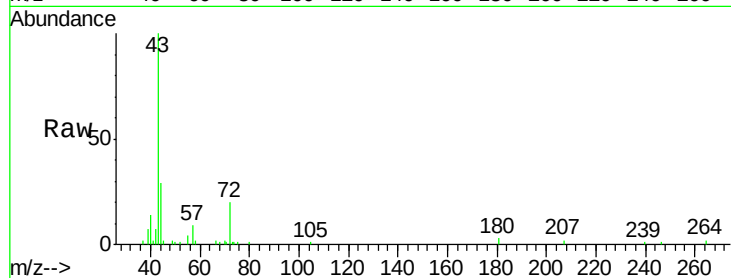




#34
 2-Butanone
 Concen: 0.070 ppbv
 RT: 5.42 min Scan# 1347
 Delta R.T. -0.00 min
 Lab File: VL032209.D
 Acq: 5 Jul 2018 18:44

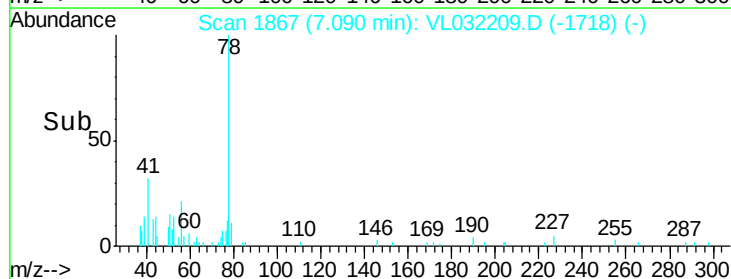
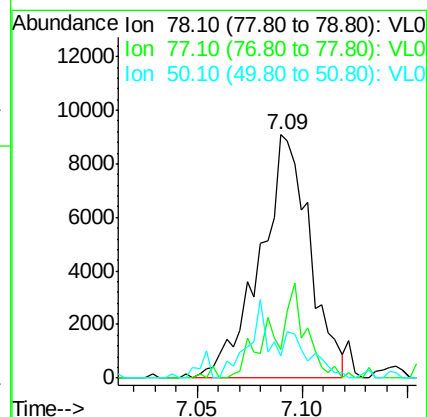
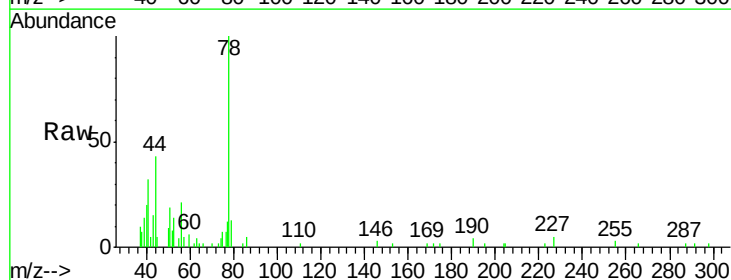
Instrument :
 MSVOA_L
 ClientSampleId :
 539BDL

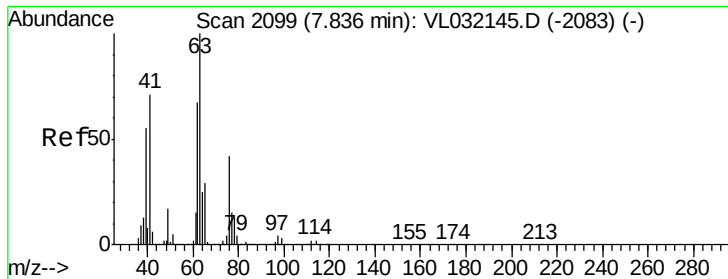
Tgt Ion: 43 Resp: 16164
 Ion Ratio Lower Upper
 43 100
 72 39.6 18.4 27.6#



#36
 Benzene
 Concen: 0.042 ppbv
 RT: 7.09 min Scan# 1867
 Delta R.T. -0.02 min
 Lab File: VL032209.D
 Acq: 5 Jul 2018 18:44

Tgt Ion: 78 Resp: 14889
 Ion Ratio Lower Upper
 78 100
 77 11.8 17.7 26.5#
 50 4.8 14.0 21.0#





#39

1,2-Dichloropropane

Concen: 7.277 ppbv

RT: 7.38 min Scan# 1957

Delta R.T. -0.47 min

Lab File: VL032209.D

Acq: 5 Jul 2018 18:44

Instrument :

MSVOA_L

ClientSampleId :

539BDL

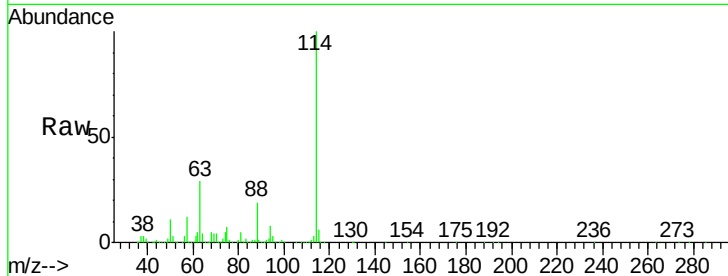
Tgt Ion: 63 Resp: 1011868

Ion Ratio Lower Upper

63 100

41 0.0 53.3 79.9#

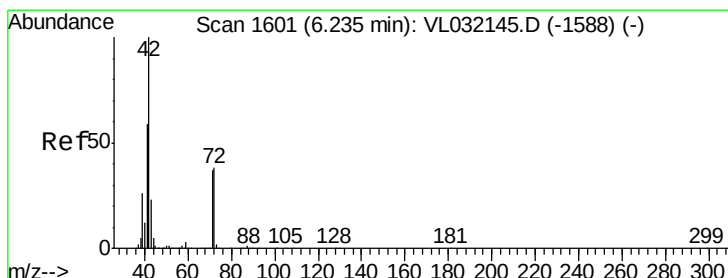
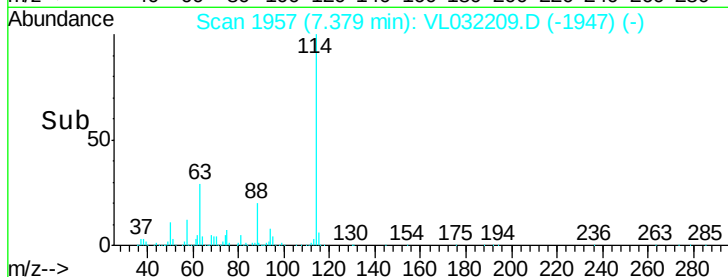
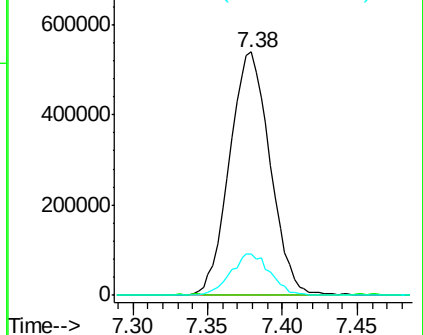
62 16.8 54.8 82.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#41

Tetrahydrofuran

Concen: 1.645 ppbv

RT: 5.86 min Scan# 1484

Delta R.T. -0.39 min

Lab File: VL032209.D

Acq: 5 Jul 2018 18:44

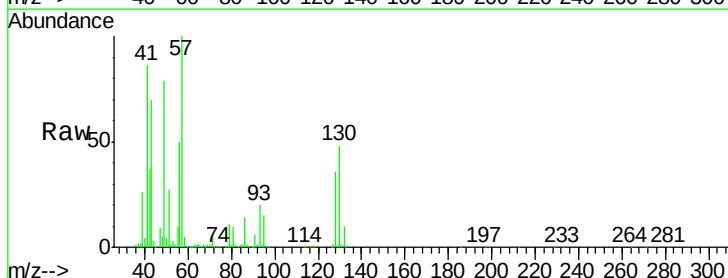
Tgt Ion: 42 Resp: 228016

Ion Ratio Lower Upper

42 100

72 1.1 31.1 46.7#

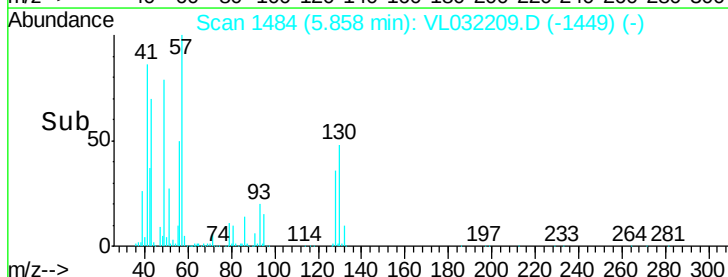
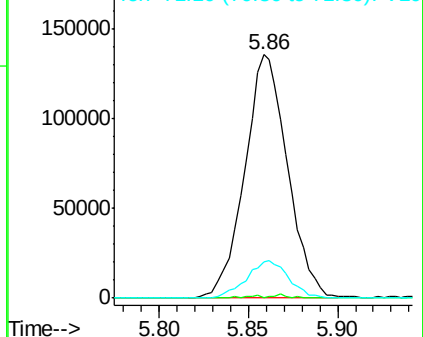
71 15.2 29.5 44.3#

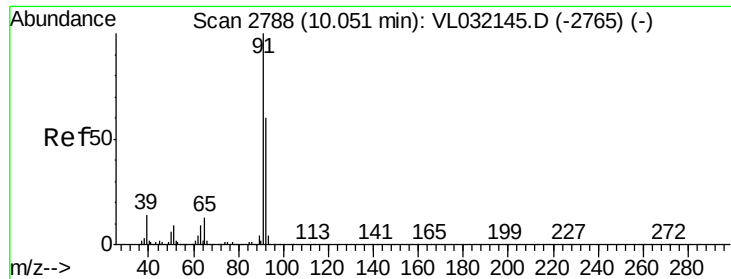


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#53

Toluene

Concen: 0.034 ppbv

RT: 10.04 min Scan# 2783

Delta R.T. -0.03 min

Lab File: VL032209.D

Acq: 5 Jul 2018 18:44

Instrument :

MSVOA_L

ClientSampleId :

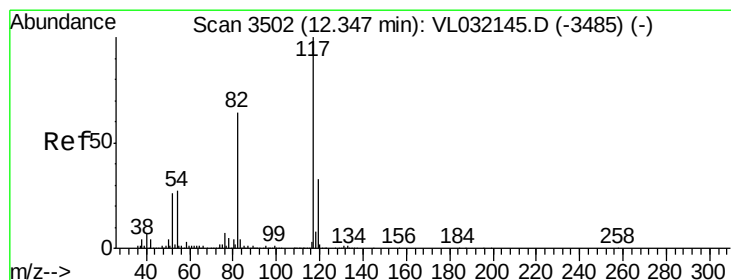
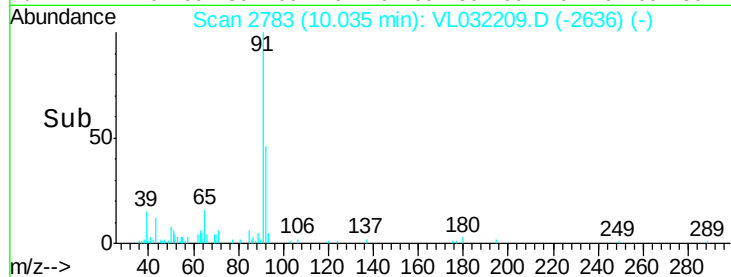
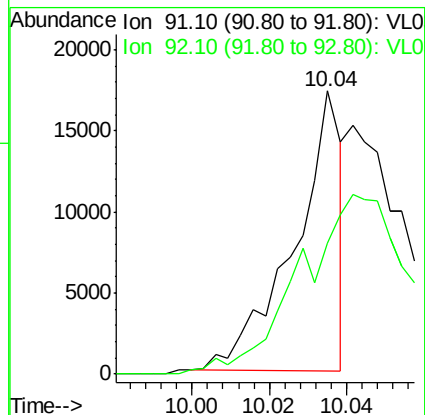
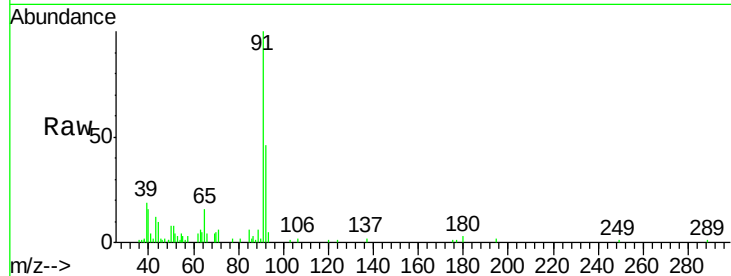
539BDL

Tgt Ion: 91 Resp: 14641

Ion Ratio Lower Upper

91 100

92 0.0 49.2 73.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.34 min Scan# 3499

Delta R.T. -0.02 min

Lab File: VL032209.D

Acq: 5 Jul 2018 18:44

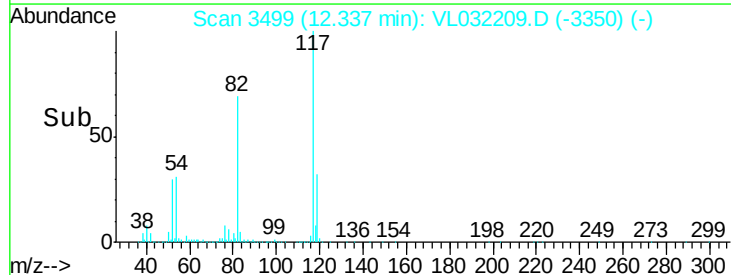
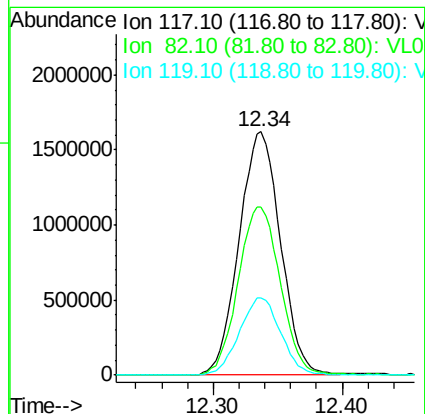
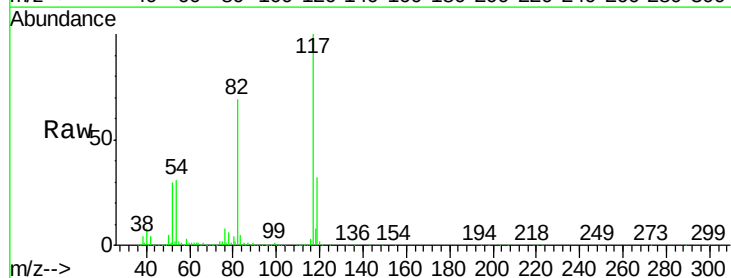
Tgt Ion: 117 Resp: 3623270

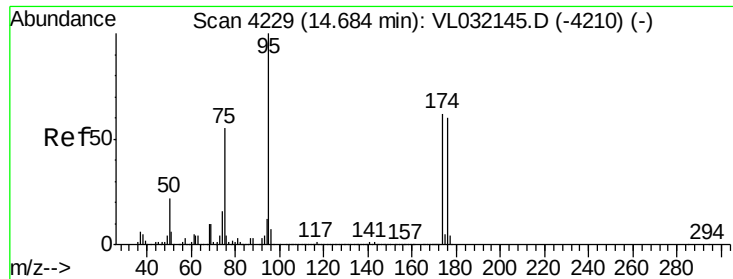
Ion Ratio Lower Upper

117 100

82 70.7 47.8 71.8

119 32.0 43.3 64.9#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.062 ppbv

RT: 14.67 min Scan# 4225

Delta R.T. -0.03 min

Lab File: VL032209.D

Acq: 5 Jul 2018 18:44

Instrument :

MSVOA_L

ClientSampleId :

539BDL

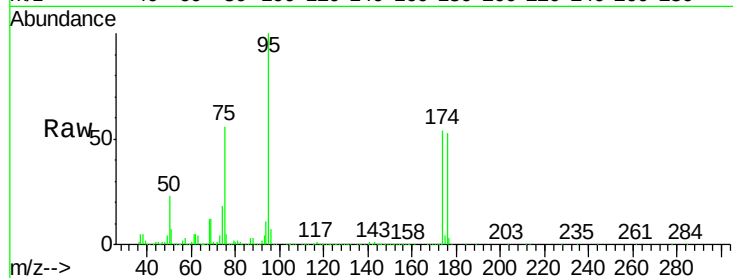
Tgt Ion: 95 Resp: 2786699

Ion Ratio Lower Upper

95 100

174 55.9 52.1 78.1

175 4.1 4.0 6.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

