

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL070518\
 Data File : VL032211.D
 Acq On : 5 Jul 2018 20:04
 Operator : SY/AP
 Sample : J3867-02DL 10X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 539IDL

Quant Time: Jul 06 04:29:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 22:27:58 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

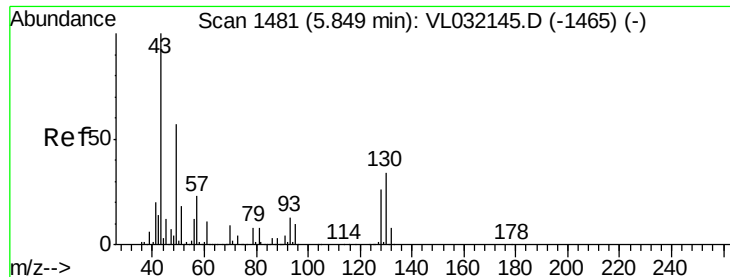
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.84	49	1568856	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3712820	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3802143	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	2910677	10.01	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.06	51	16249	0.085	ppbv	94
4) Chloromethane	3.23	50	6190	0.060	ppbv #	88
9) Propene	3.09	41	14952	0.167	ppbv #	81
13) Ethanol	3.71	45	205298	7.580	ppbv	100
15) Acetone	3.97	43	301989	1.646	ppbv	100
19) Isopropyl Alcohol	4.10	45	158159	1.038	ppbv #	46
20) Methylene Chloride	4.48	84	38973	0.581	ppbv #	90
23) Vinyl Acetate	5.22	43	12947	0.039	ppbv #	76
25) Ethyl Acetate	5.86	43	197543	0.520	ppbv #	82
26) Hexane	5.86	57	253240	1.449	ppbv #	48
34) 2-Butanone	5.41	43	48423	0.205	ppbv	97
39) 1,2-Dichloropropane	7.38	63	1026186	7.241	ppbv #	26
53) Toluene	10.03	91	16802	0.039	ppbv #	20
58) Ethyl Benzene	13.22	91	19017	0.031	ppbv	96

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.84 min Scan# 1478

Delta R.T. -0.02 min

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ClientSampleId :

539IDL

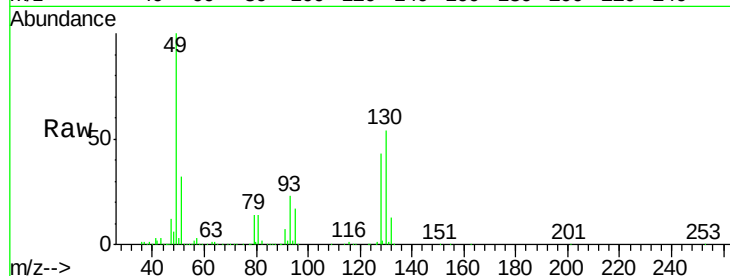
Tgt Ion: 49 Resp: 1568856

Ion Ratio Lower Upper

49 100

128 43.0 23.4 70.0

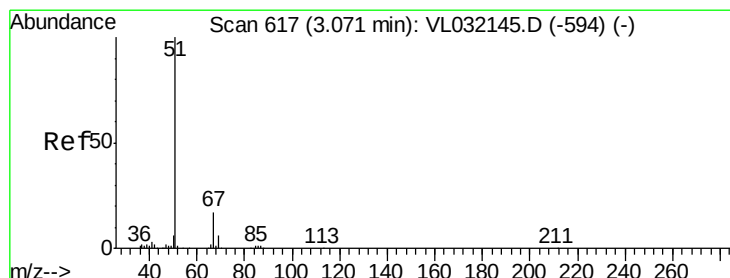
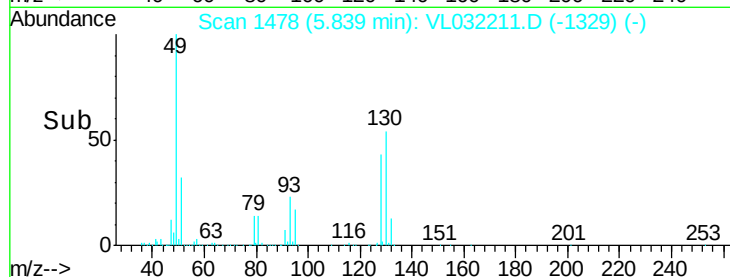
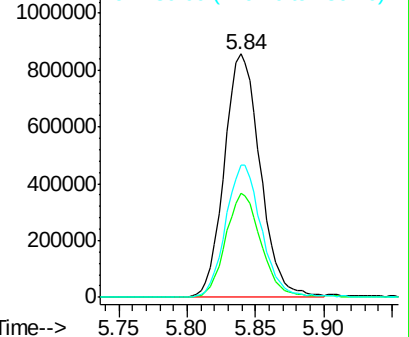
130 54.6 30.3 90.9



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



#3

Chlorodifluoromethane

Concen: 0.085 ppbv

RT: 3.06 min Scan# 614

Delta R.T. -0.02 min

Lab File: VL032211.D

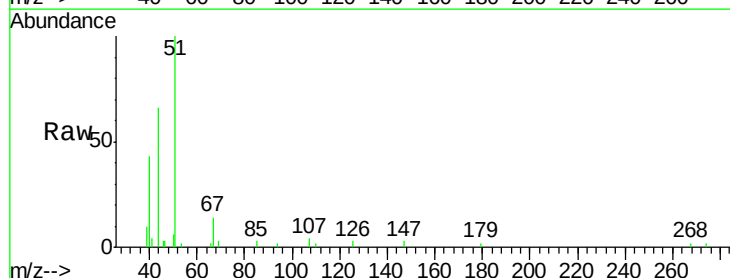
Acq: 5 Jul 2018 20:04

Tgt Ion: 51 Resp: 16249

Ion Ratio Lower Upper

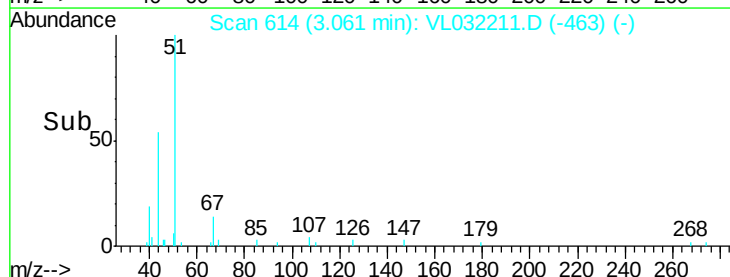
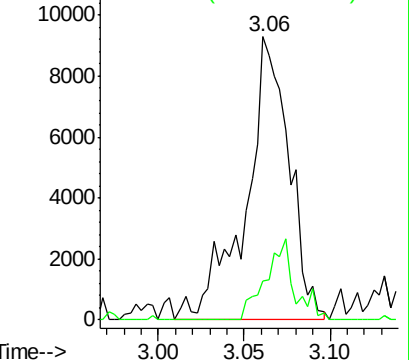
51 100

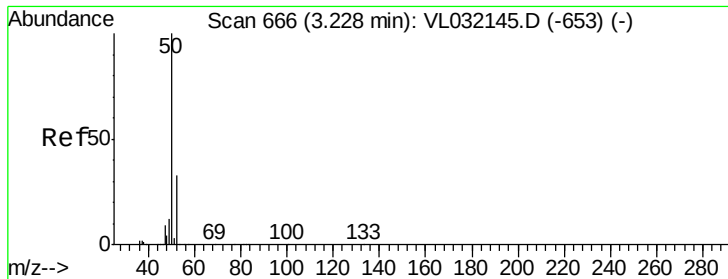
67 19.1 13.2 19.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.060 ppbv

RT: 3.23 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL032211.D

Acq: 5 Jul 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

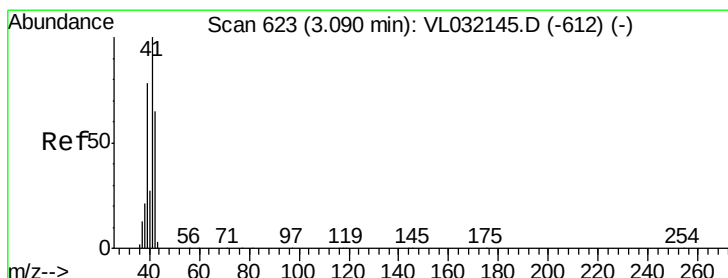
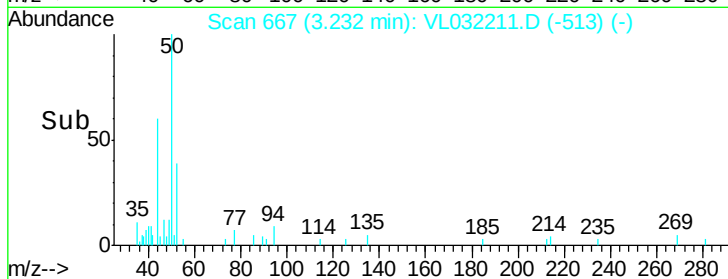
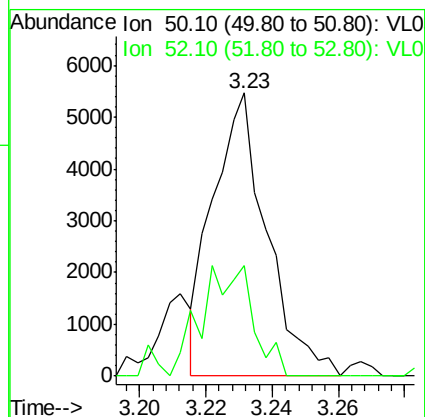
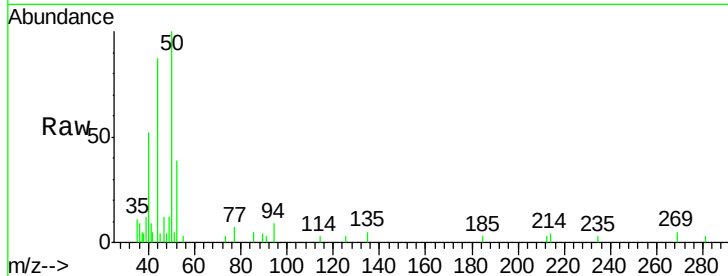
539IDL

Tgt Ion: 50 Resp: 6190

Ion Ratio Lower Upper

50 100

52 39.1 26.0 39.0#



#9

Propene

Concen: 0.167 ppbv

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL032211.D

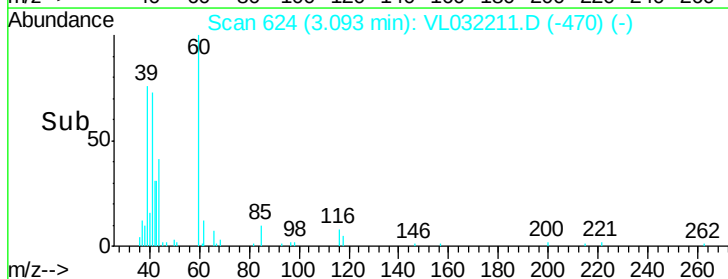
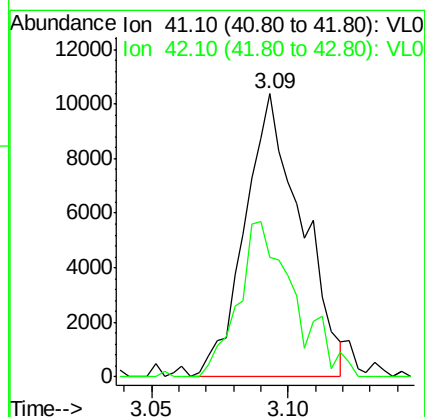
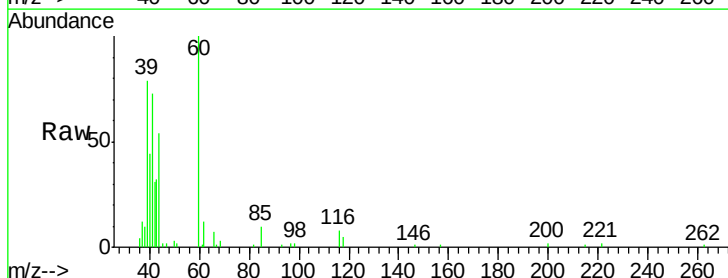
Acq: 5 Jul 2018 20:04

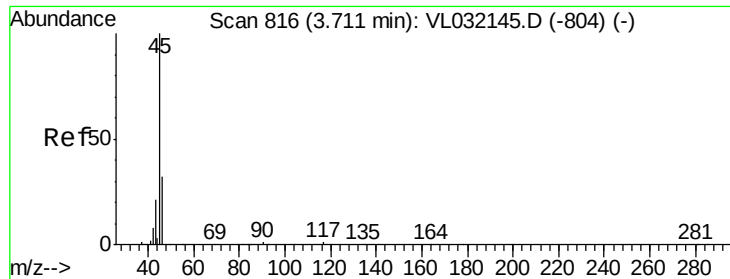
Tgt Ion: 41 Resp: 14952

Ion Ratio Lower Upper

41 100

42 54.7 56.2 84.4#





#13

Ethanol

Concen: 7.580 ppbv

RT: 3.71 min Scan# 817

Delta R.T. -0.01 min

Lab File: VL032211.D

Acq: 5 Jul 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

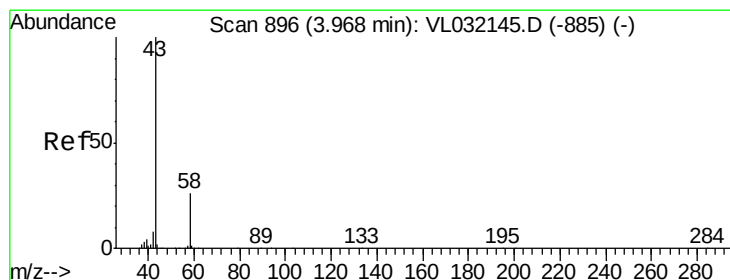
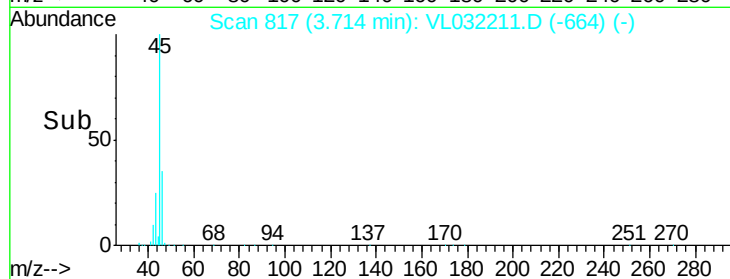
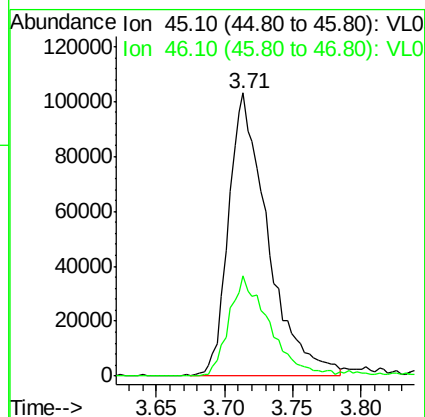
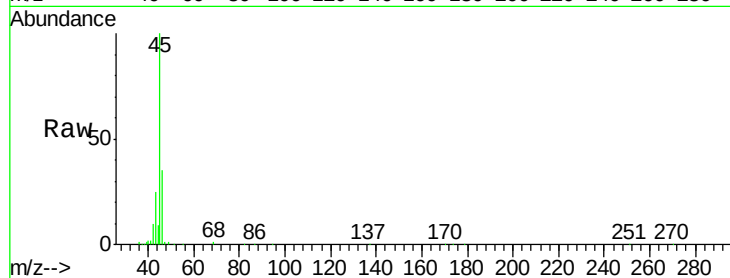
539IDL

Tgt Ion: 45 Resp: 205298

Ion Ratio Lower Upper

45 100

46 36.4 14.6 58.4



#15

Acetone

Concen: 1.646 ppbv

RT: 3.97 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL032211.D

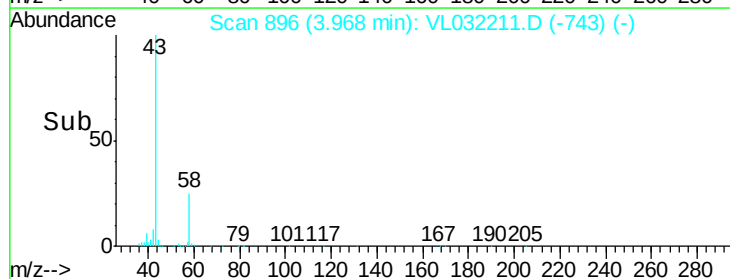
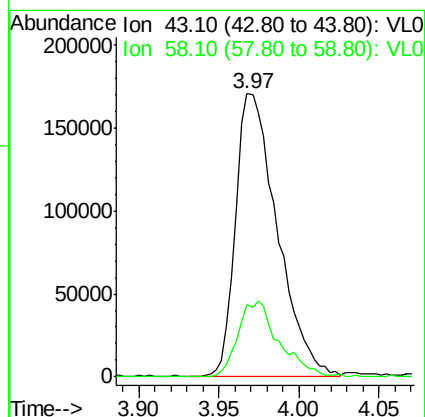
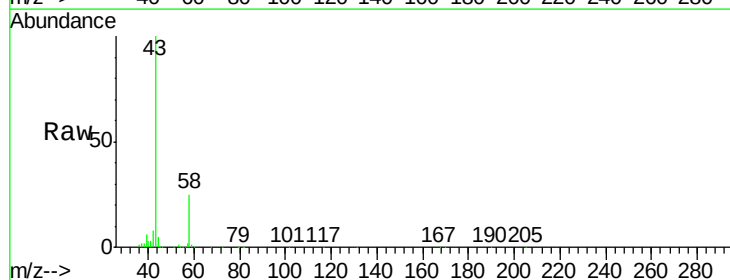
Acq: 5 Jul 2018 20:04

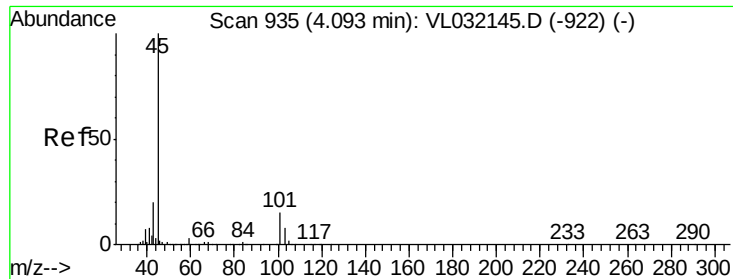
Tgt Ion: 43 Resp: 301989

Ion Ratio Lower Upper

43 100

58 26.5 21.4 32.0





#19

Isopropyl Alcohol

Concen: 1.038 ppbv

RT: 4.10 min Scan# 938

Delta R.T. 0.00 min

Lab File: VL032211.D

Acq: 5 Jul 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

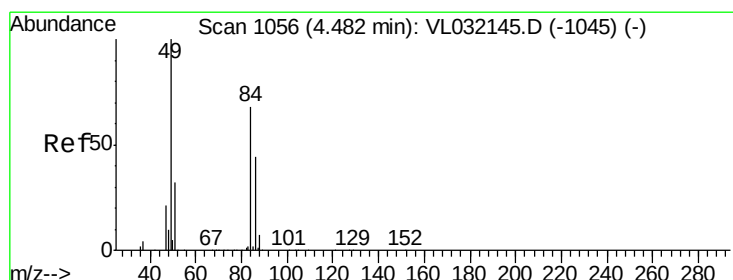
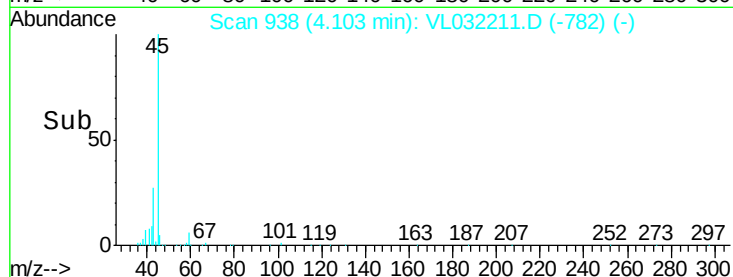
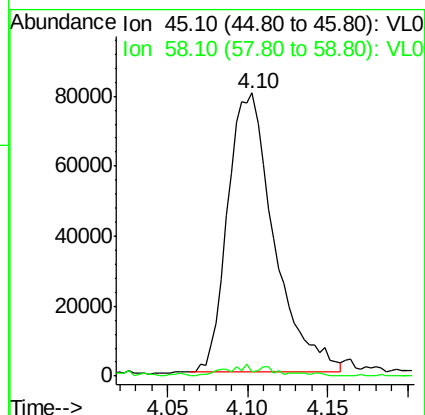
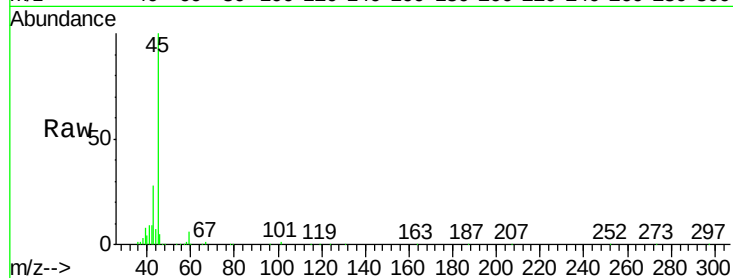
539IDL

Tgt Ion: 45 Resp: 158159

Ion Ratio Lower Upper

45 100

58 4.5 29.4 44.0#



#20

Methylene Chloride

Concen: 0.581 ppbv

RT: 4.48 min Scan# 1054

Delta R.T. -0.02 min

Lab File: VL032211.D

Acq: 5 Jul 2018 20:04

Tgt Ion: 84 Resp: 38973

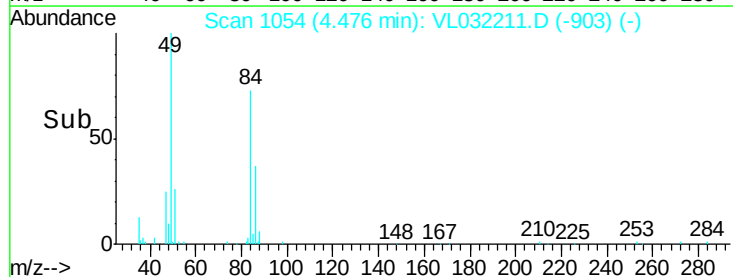
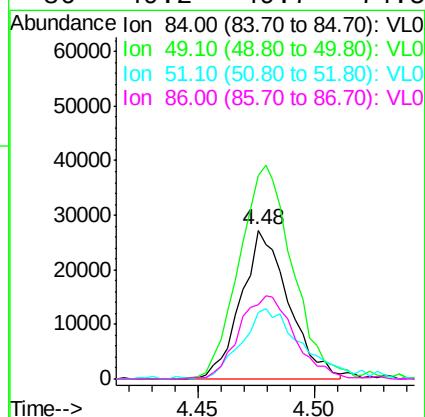
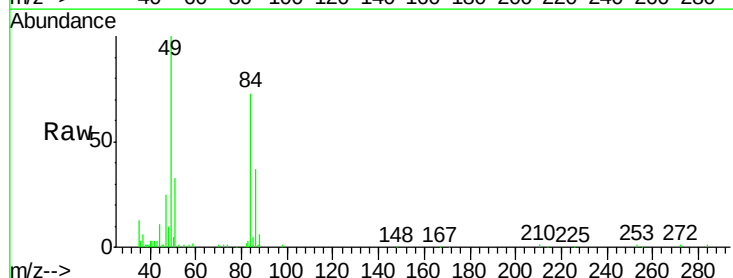
Ion Ratio Lower Upper

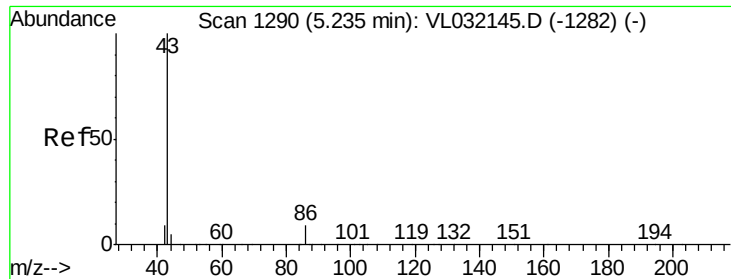
84 100

49 136.0 119.6 179.4

51 44.5 36.3 54.5

86 49.2 49.7 74.5#

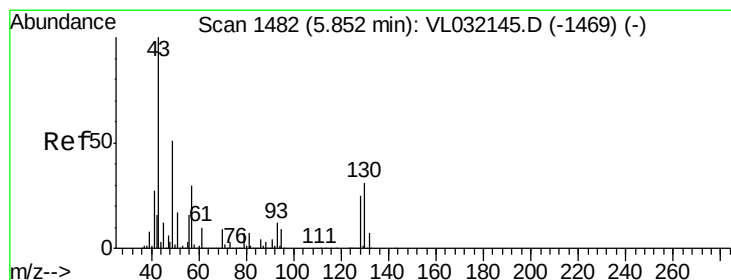
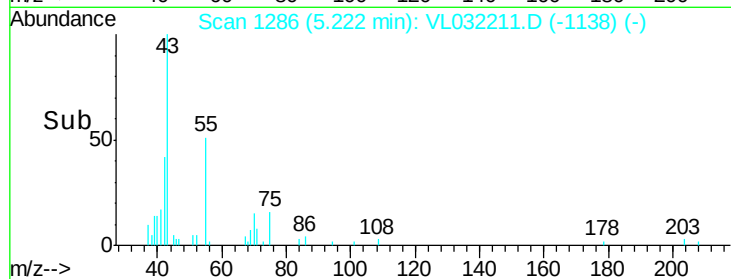
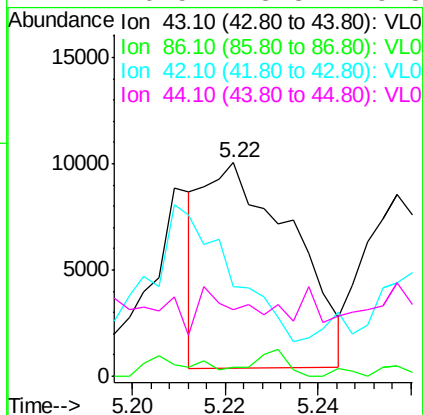
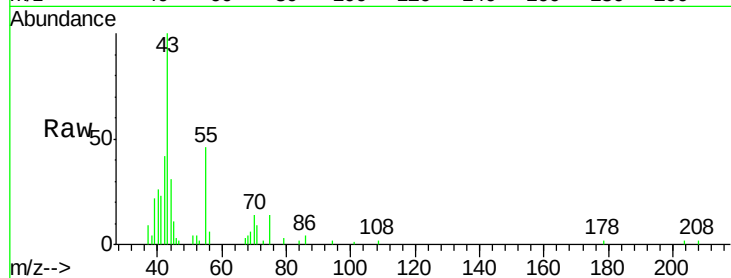




#23
 Vinyl Acetate
 Concen: 0.039 ppbv
 RT: 5.22 min Scan# 1286
 Delta R.T. -0.03 min
 Lab File: VL032211.D
 Acq: 5 Jul 2018 20:04

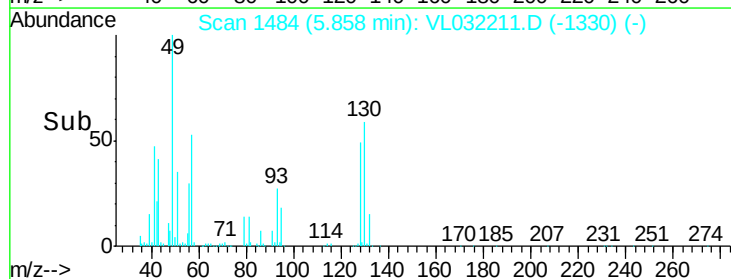
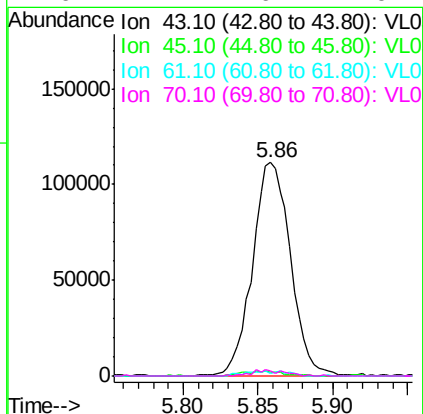
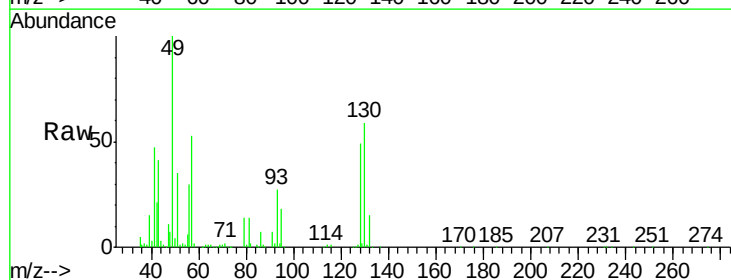
Instrument :
 MSVOA_L
 ClientSampleID :
 539IDL

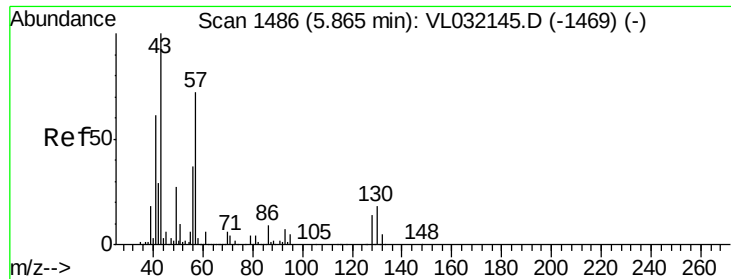
Tgt Ion:	43	Resp:	12947
Ion	Ratio	Lower	Upper
43	100		
86	0.6	6.2	9.4#
42	16.4	6.9	10.3#
44	16.5	3.8	5.8#



#25
 Ethyl Acetate
 Concen: 0.520 ppbv
 RT: 5.86 min Scan# 1484
 Delta R.T. -0.01 min
 Lab File: VL032211.D
 Acq: 5 Jul 2018 20:04

Tgt Ion:	43	Resp:	197543
Ion	Ratio	Lower	Upper
43	100		
45	2.5	7.8	11.8#
61	2.6	7.4	11.0#
70	2.7	6.1	9.1#

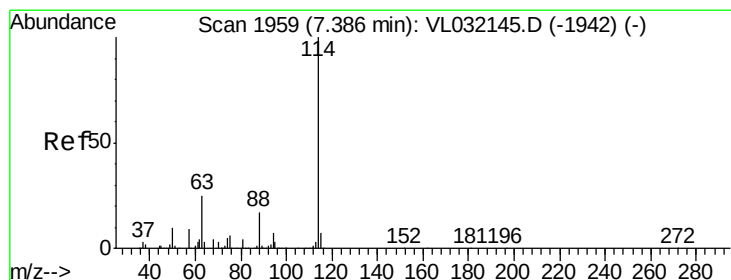
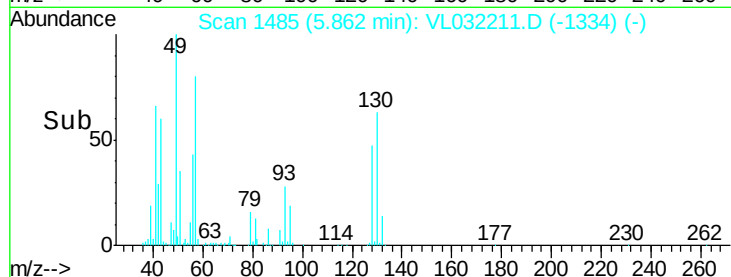
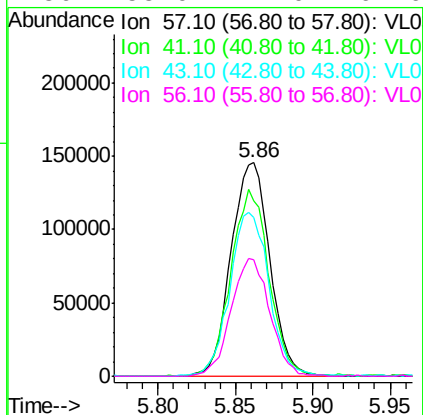
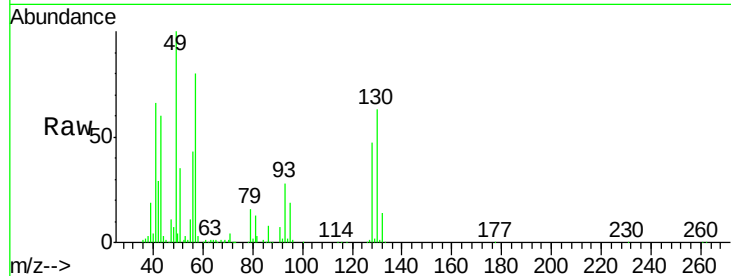




#26
Hexane
Concen: 1.449 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.02 min
Lab File: VL032211.D
Acq: 5 Jul 2018 20:04

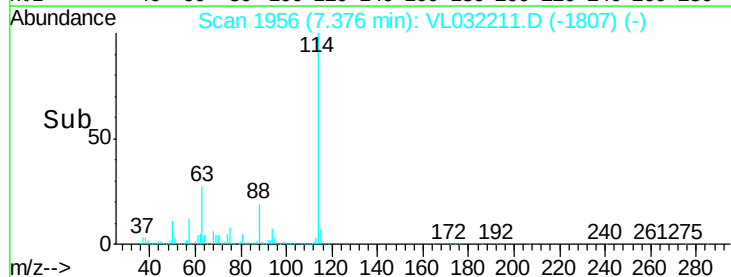
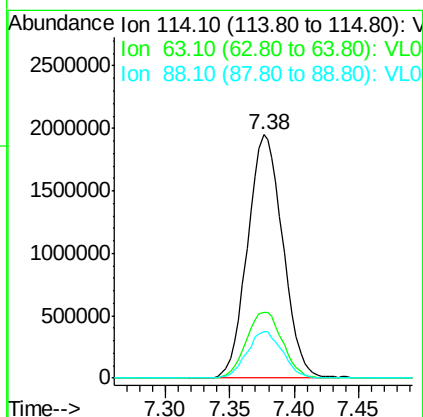
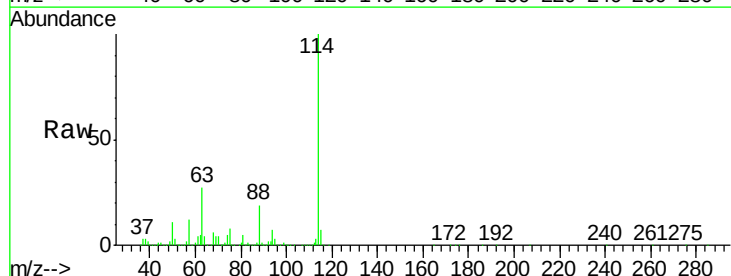
Instrument :
MSVOA_L
ClientSampleId :
539IDL

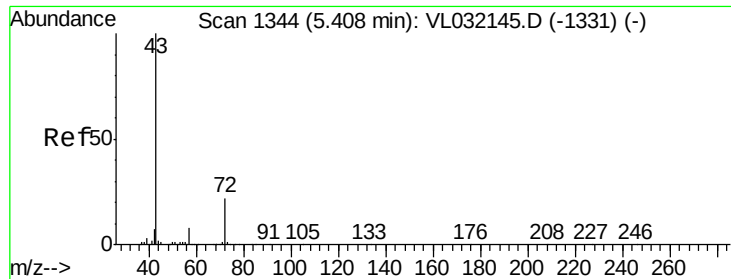
Tgt Ion: 57 Resp: 253240
Ion Ratio Lower Upper
57 100
41 87.6 68.6 103.0
43 78.7 168.6 252.8#
56 55.0 41.0 61.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.38 min Scan# 1956
Delta R.T. -0.02 min
Lab File: VL032211.D
Acq: 5 Jul 2018 20:04

Tgt Ion: 114 Resp: 3712820
Ion Ratio Lower Upper
114 100
63 28.1 19.1 28.7
88 19.4 13.9 20.9

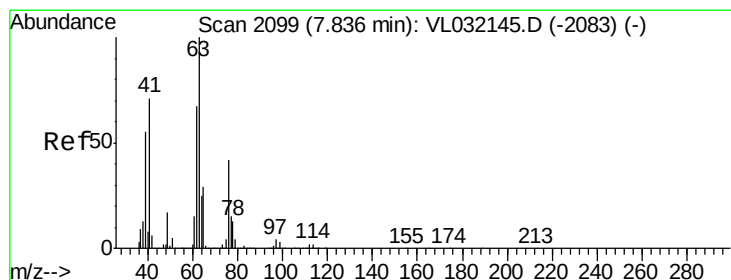
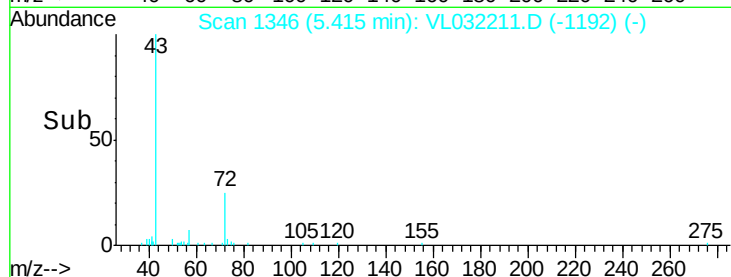
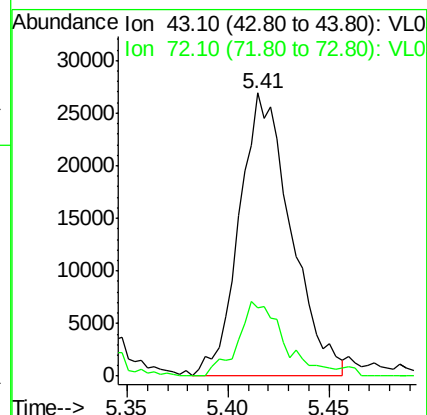
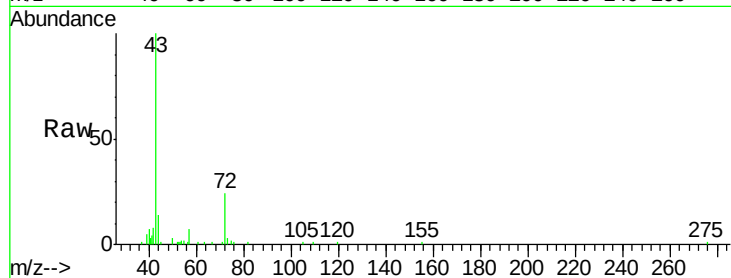




#34
 2-Butanone
 Concen: 0.205 ppbv
 RT: 5.41 min Scan# 1346
 Delta R.T. -0.01 min
 Lab File: VL032211.D
 Acq: 5 Jul 2018 20:04

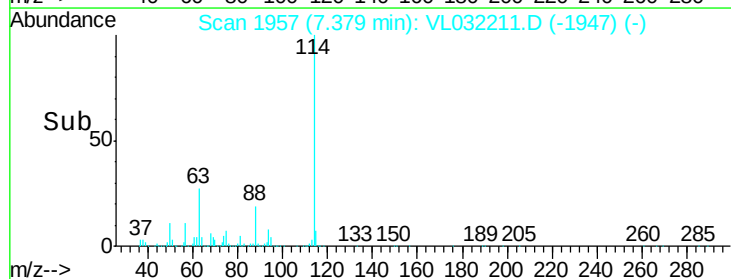
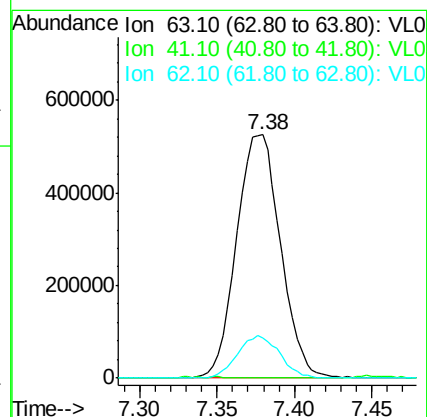
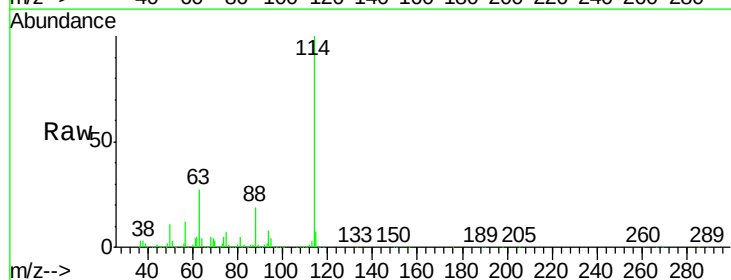
Instrument :
 MSVOA_L
 ClientSampleID :
 539IDL

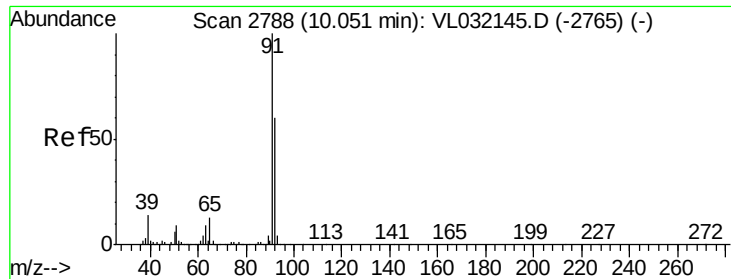
Tgt Ion: 43 Resp: 48423
 Ion Ratio Lower Upper
 43 100
 72 24.5 18.4 27.6



#39
 1,2-Dichloropropane
 Concen: 7.241 ppbv
 RT: 7.38 min Scan# 1957
 Delta R.T. -0.47 min
 Lab File: VL032211.D
 Acq: 5 Jul 2018 20:04

Tgt Ion: 63 Resp: 1026186
 Ion Ratio Lower Upper
 63 100
 41 0.0 53.3 79.9#
 62 16.5 54.8 82.2#





#53

Toluene

Concen: 0.039 ppbv

RT: 10.03 min Scan# 2782

Delta R.T. -0.03 min

Lab File: VL032211.D

Acq: 5 Jul 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

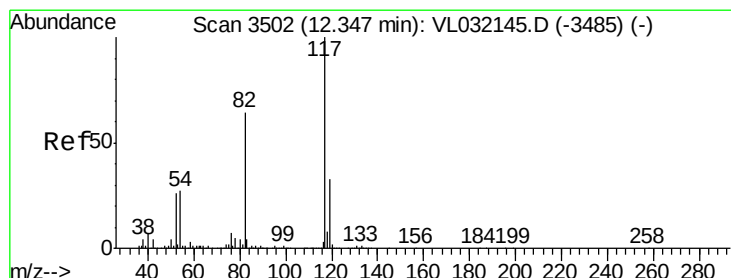
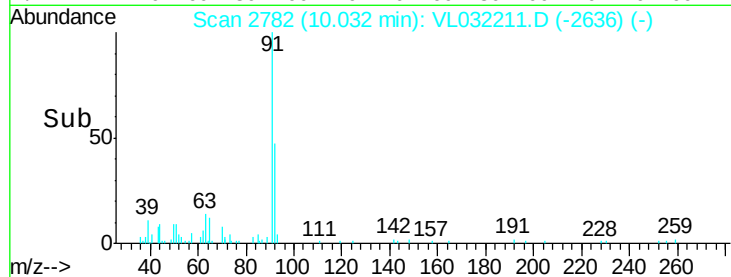
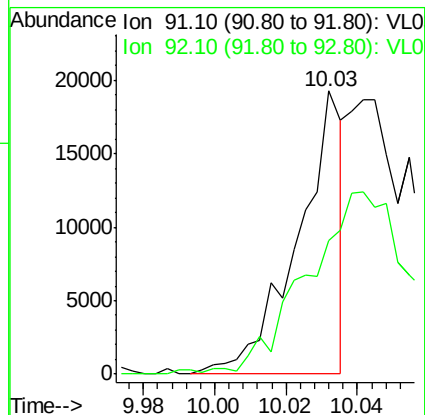
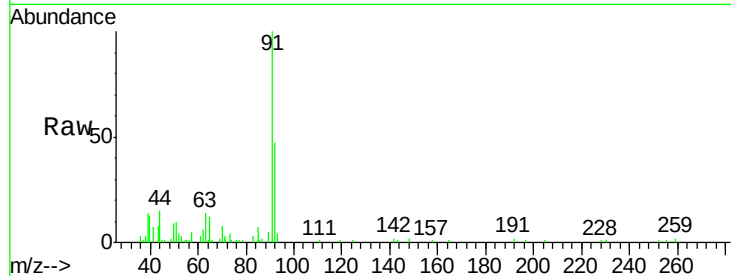
539IDL

Tgt Ion: 91 Resp: 16802

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: VL032211.D

Acq: 5 Jul 2018 20:04

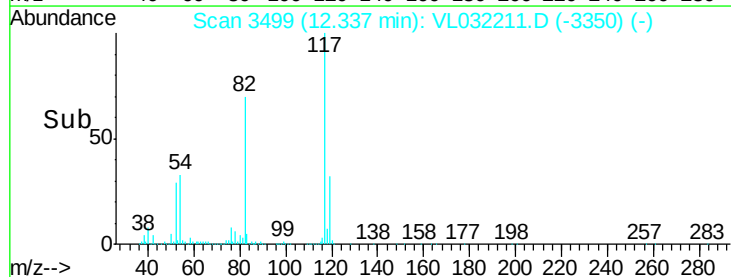
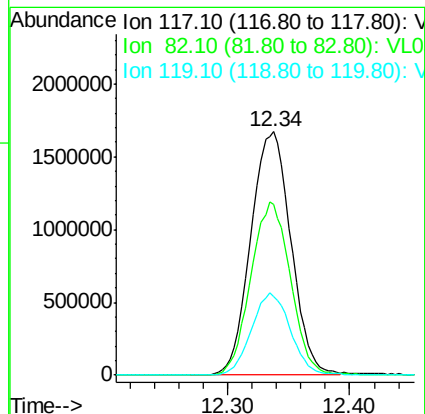
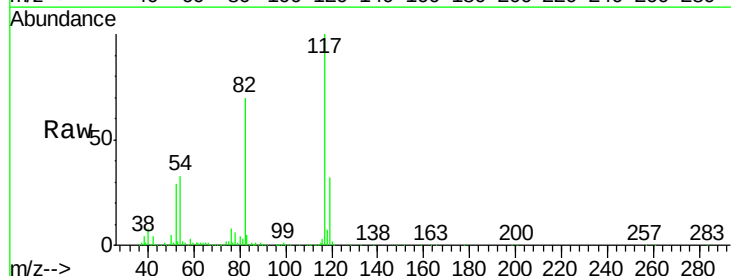
Tgt Ion: 117 Resp: 3802143

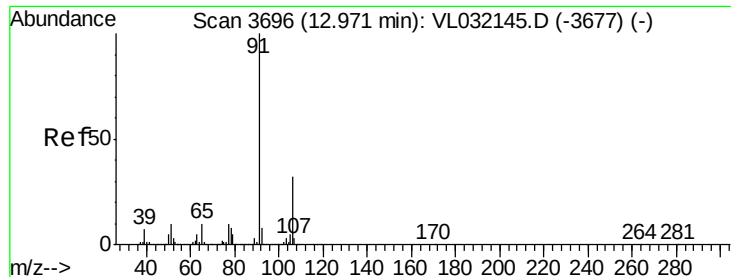
Ion Ratio Lower Upper

117 100

82 70.6 47.8 71.8

119 33.1 43.3 64.9#





#58

Ethyl Benzene

Concen: 0.031 ppbv

RT: 13.22 min Scan# 3772

Delta R.T. 0.23 min

Lab File: VL032211.D

Acq: 5 Jul 2018 20:04

Instrument :

MSVOA_L

ClientSampleId :

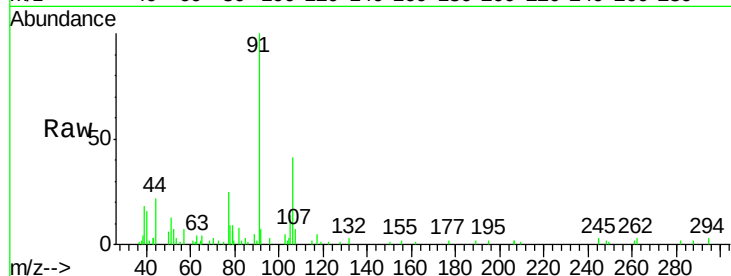
539IDL

Tgt Ion: 91 Resp: 19017

Ion Ratio Lower Upper

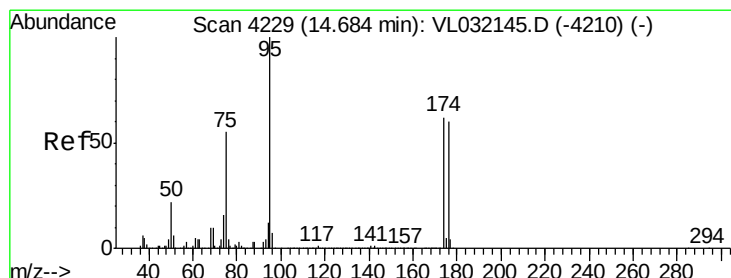
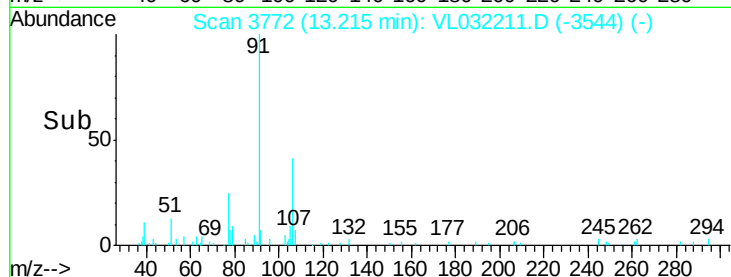
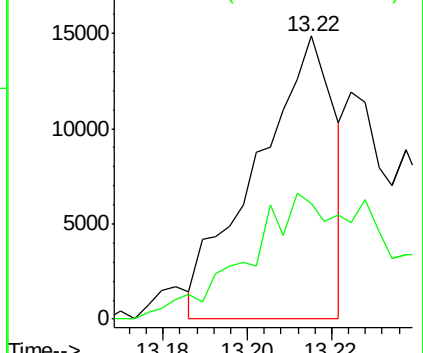
91 100

106 35.3 26.5 39.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.015 ppbv

RT: 14.67 min Scan# 4225

Delta R.T. -0.03 min

Lab File: VL032211.D

Acq: 5 Jul 2018 20:04

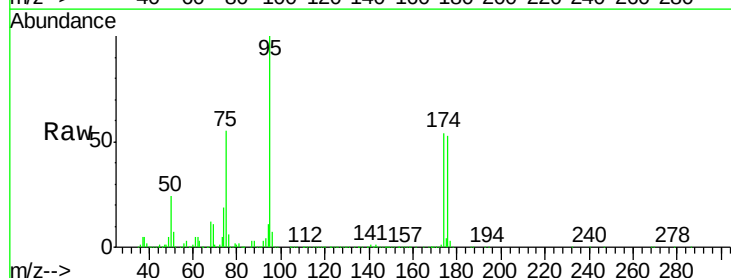
Tgt Ion: 95 Resp: 2910677

Ion Ratio Lower Upper

95 100

174 55.5 52.1 78.1

175 4.0 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

