

Data File : VL031868.D

Acq On : 12 Apr 2018 16:46

Operator : SY/AP

Sample : J2191-01DL 10X

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
GAC-INF-040218DL

Quant Time: Apr 14 01:36:04 2018

Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL041218AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 16:50:02 2018

QLast Update : Fri Apr 13 16:50:02 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1255837	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2625011	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2548166	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.73	95	2048740	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.16	85	101932	0.39	ppbv	95
3) Chlorodifluoromethane	3.08	51	15874	0.11	ppbv #	69
9) Propene	3.33	41	18833	0.37	ppbv	99
10) Heptane	8.39	43	13327	0.08	ppbv #	83
11) Trichlorofluoromethane	4.11	101	209152	0.82	ppbv	97
13) Ethanol	3.76	45	167452	9.77	ppbv	95
15) Acetone	4.02	43	327819	1.70	ppbv	96
20) Methylene Chloride	4.52	84	27603	0.39	ppbv #	79
24) 1,1-Dichloroethane	5.21	63	47025	0.24	ppbv #	94
25) Ethyl Acetate	5.91	43	30336	0.10	ppbv #	83
26) Hexane	5.91	57	37742	0.27	ppbv #	43
29) Chloroform	5.98	83	9591	0.04	ppbv	92
30) Cyclohexane	7.39	84	5436	0.05	ppbv #	1
31) cis-1,2-Dichloroethene	5.76	61	10977	0.09	ppbv	91
32) 1,1,1-Trichloroethane	6.76	97	68007	0.29	ppbv	99
38) Trichloroethene	8.10	130	40663	0.42	ppbv	85
39) 1,2-Dichloropropane	7.43	63	717062	8.17	ppbv #	22
52) Tetrachloroethene	11.52	164	2969	0.03	ppbv	82
53) Toluene	10.10	91	232038	0.88	ppbv	96

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

Data File : VL031868.D

Acq On : 12 Apr 2018 16:46

Operator : SY/AP

Sample : J2191-01DL 10X

Misc : 400ml/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

GAC-INF-040218DL

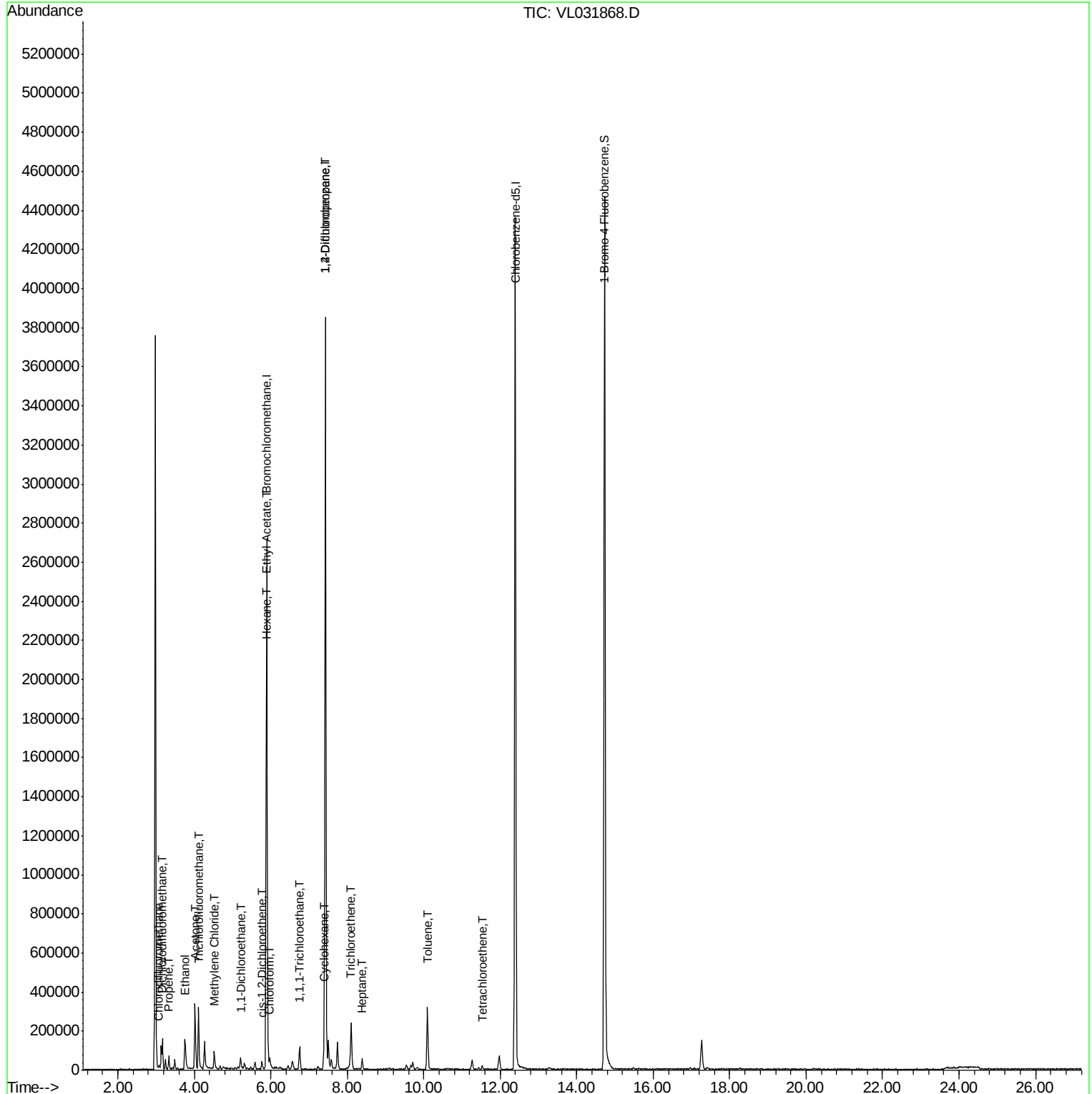
Quant Time: Apr 14 01:36:04 2018

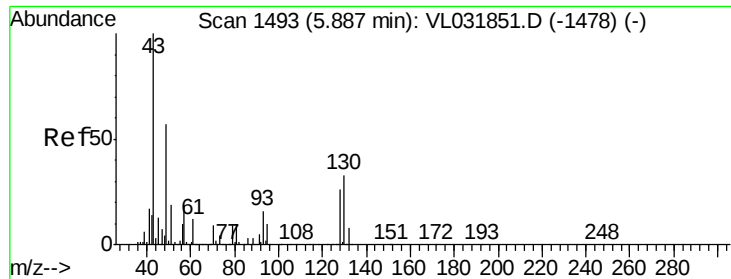
Quant Method : W:\HPCHEM1\MSVOA_L\METHODS\VL041218AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 16:50:02 2018

QLast Update : Fri Apr 13 16:50:02 2018

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.89 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VL031868.D

Acq: 12 Apr 2018 16:46

Instrument :

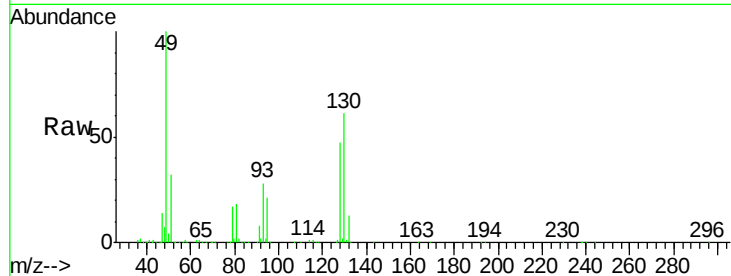
MSVOA_L

ClientSampleId :

GAC-INF-040218DL

Tgt Ion: 49 Resp: 1255837

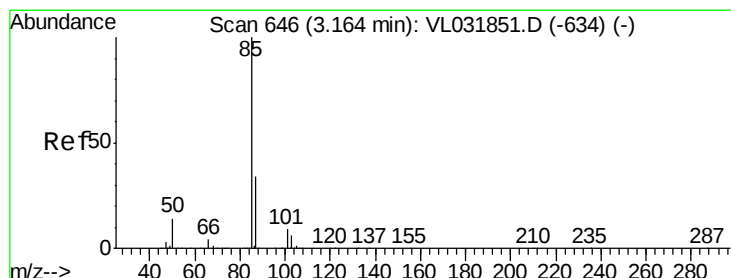
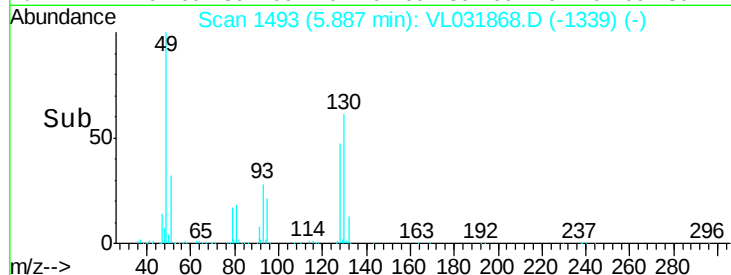
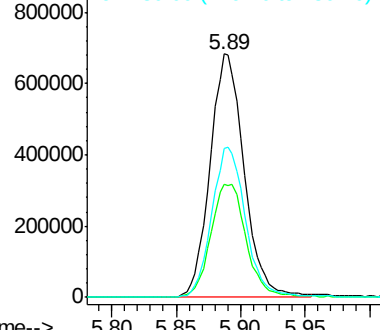
Ion	Ratio	Lower	Upper
49	100		
128	48.8	23.9	71.7
130	62.2	30.9	92.7



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: 0.39 ppbv

RT: 3.16 min Scan# 646

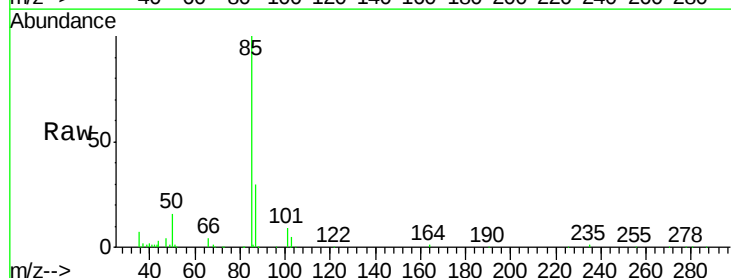
Delta R.T. -0.00 min

Lab File: VL031868.D

Acq: 12 Apr 2018 16:46

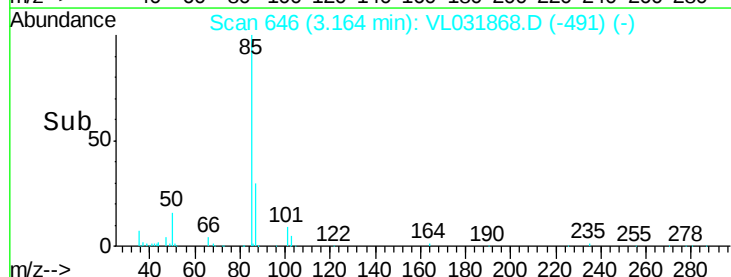
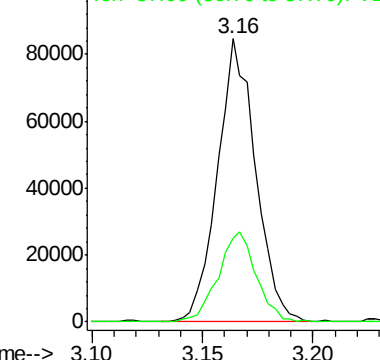
Tgt Ion: 85 Resp: 101932

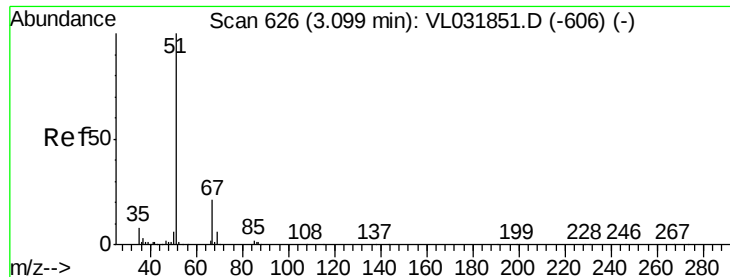
Ion	Ratio	Lower	Upper
85	100		
87	29.7	25.9	38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

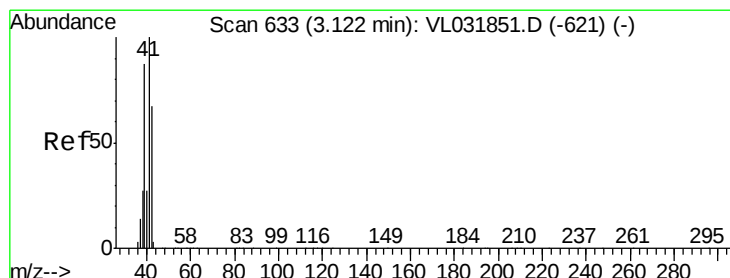
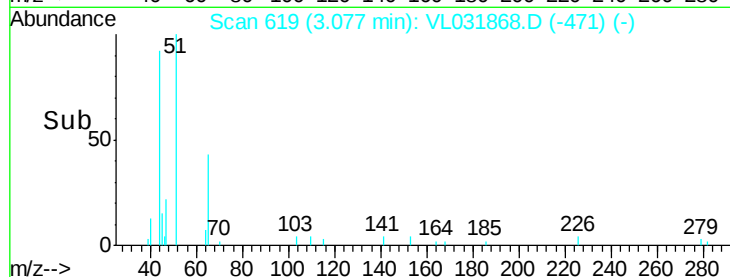
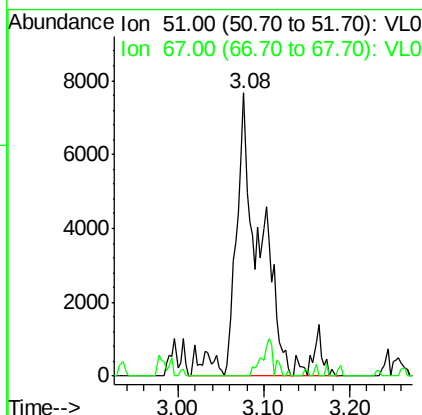
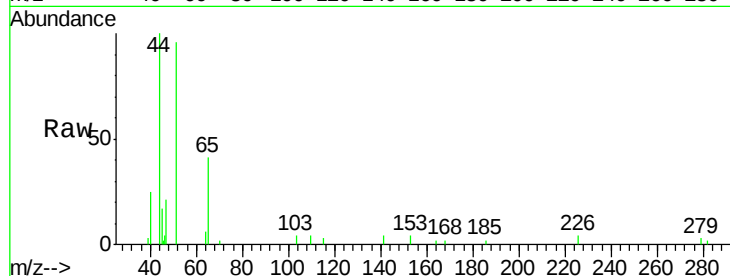




#3
 Chlorodifluoromethane
 Concen: 0.11 ppbv
 RT: 3.08 min Scan# 619
 Delta R.T. -0.02 min
 Lab File: VL031868.D
 Acq: 12 Apr 2018 16:46

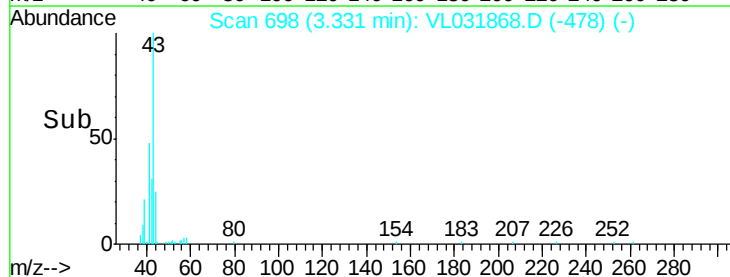
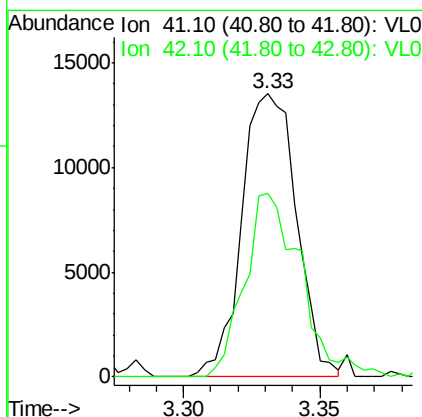
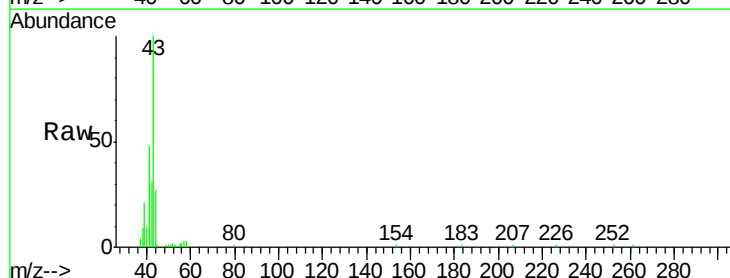
Instrument :
 MSVOA_L
 ClientSampleId :
 GAC-INF-040218DL

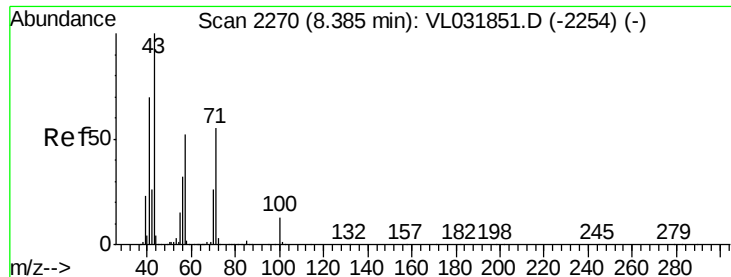
Tgt Ion: 51 Resp: 15874
 Ion Ratio Lower Upper
 51 100
 67 7.3 17.5 26.3#



#9
 Propene
 Concen: 0.37 ppbv
 RT: 3.33 min Scan# 698
 Delta R.T. 0.21 min
 Lab File: VL031868.D
 Acq: 12 Apr 2018 16:46

Tgt Ion: 41 Resp: 18833
 Ion Ratio Lower Upper
 41 100
 42 67.8 55.0 82.4





#10

Heptane

Concen: 0.08 ppbv

RT: 8.39 min Scan# 2271

Delta R.T. 0.00 min

Lab File: VL031868.D

Acq: 12 Apr 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

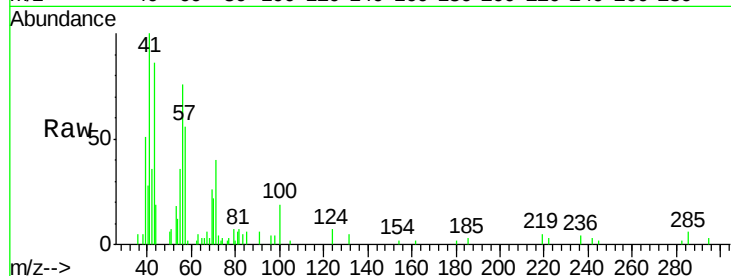
GAC-INF-040218DL

Tgt Ion: 43 Resp: 13327

Ion Ratio Lower Upper

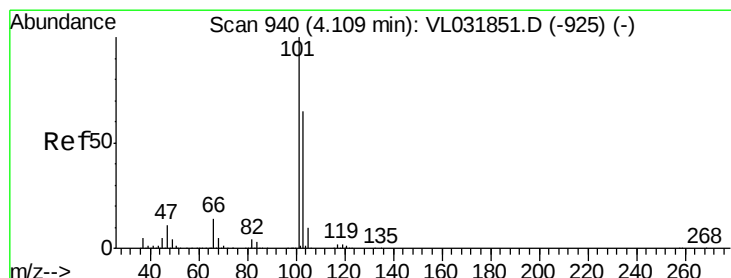
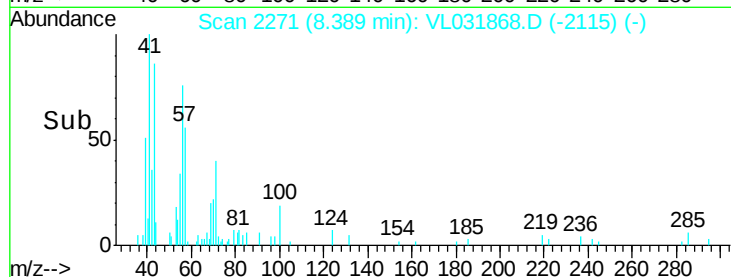
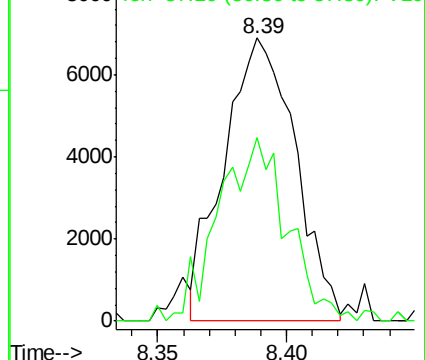
43 100

57 63.6 41.5 62.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.82 ppbv

RT: 4.11 min Scan# 940

Delta R.T. -0.00 min

Lab File: VL031868.D

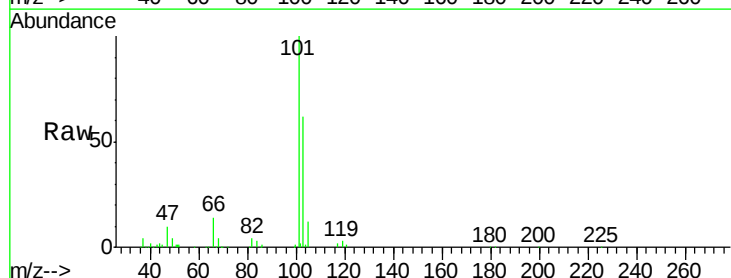
Acq: 12 Apr 2018 16:46

Tgt Ion: 101 Resp: 209152

Ion Ratio Lower Upper

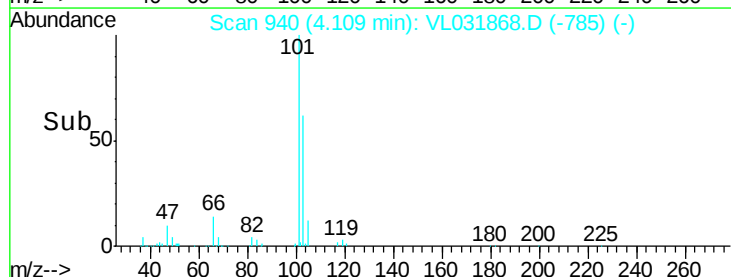
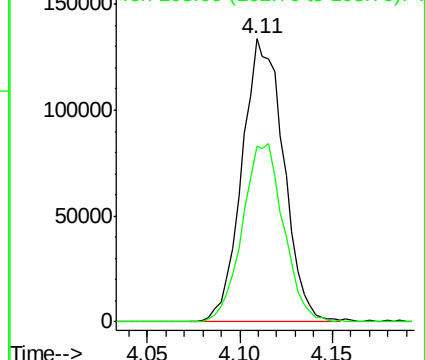
101 100

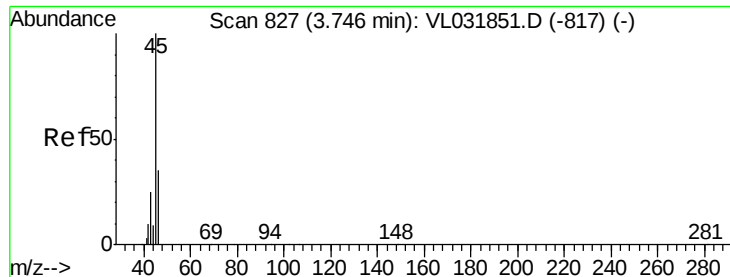
103 62.2 51.8 77.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 9.77 ppbv

RT: 3.76 min Scan# 830

Delta R.T. 0.00 min

Lab File: VL031868.D

Acq: 12 Apr 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

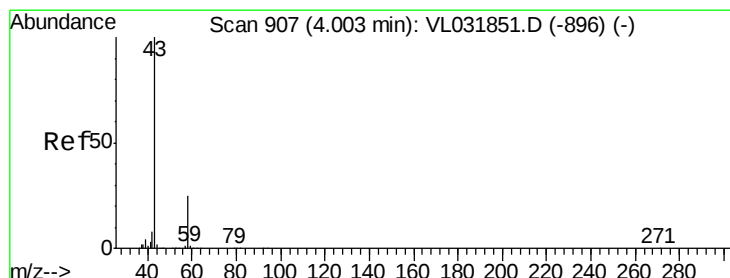
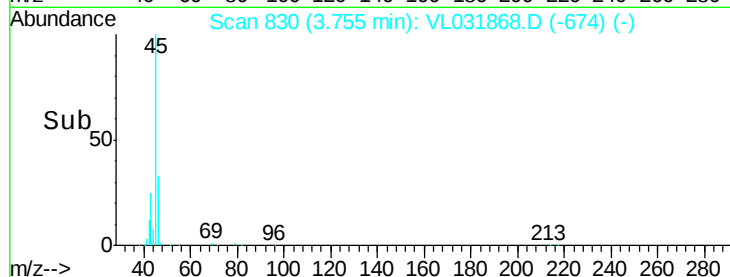
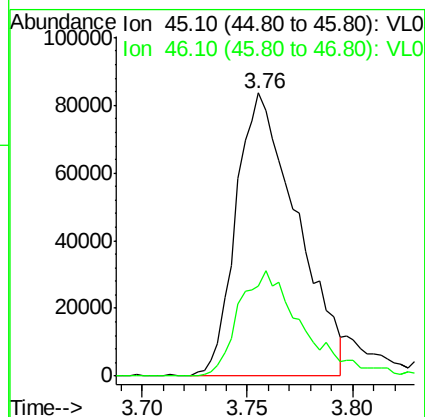
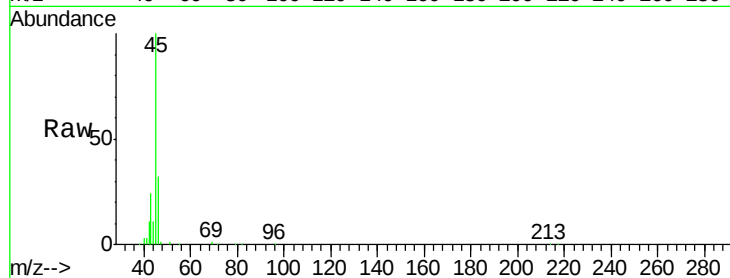
GAC-INF-040218DL

Tgt Ion: 45 Resp: 167452

Ion Ratio Lower Upper

45 100

46 39.6 14.6 58.6



#15

Acetone

Concen: 1.70 ppbv

RT: 4.02 min Scan# 911

Delta R.T. 0.01 min

Lab File: VL031868.D

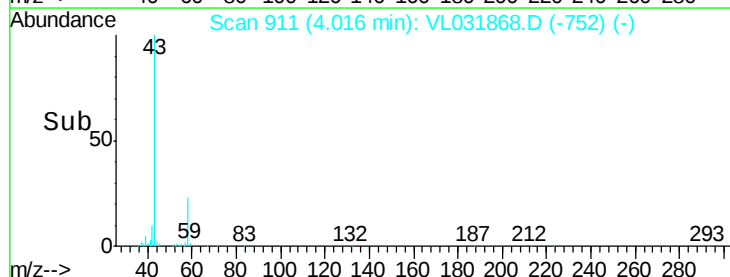
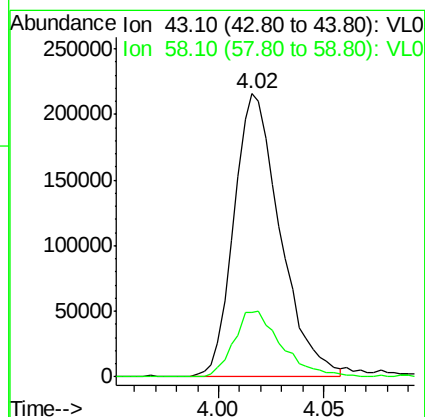
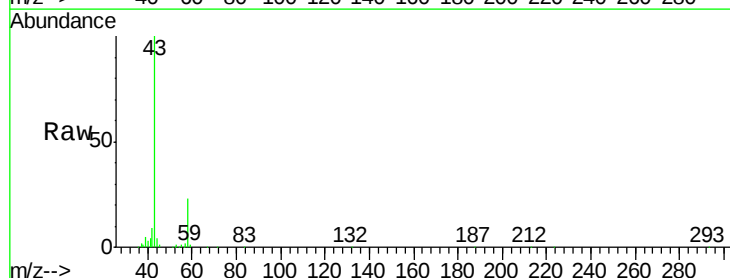
Acq: 12 Apr 2018 16:46

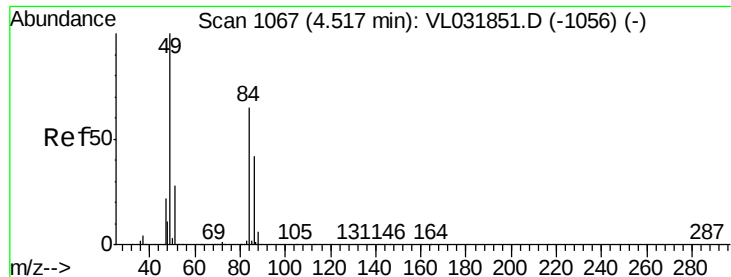
Tgt Ion: 43 Resp: 327819

Ion Ratio Lower Upper

43 100

58 24.0 20.9 31.3

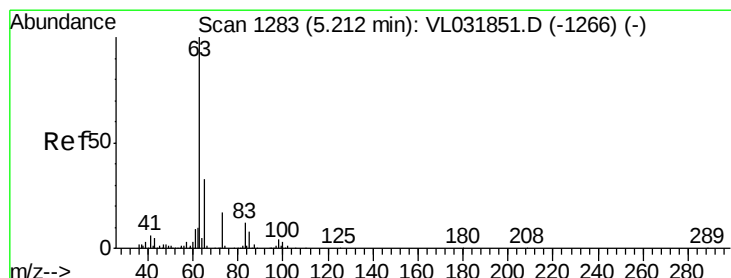
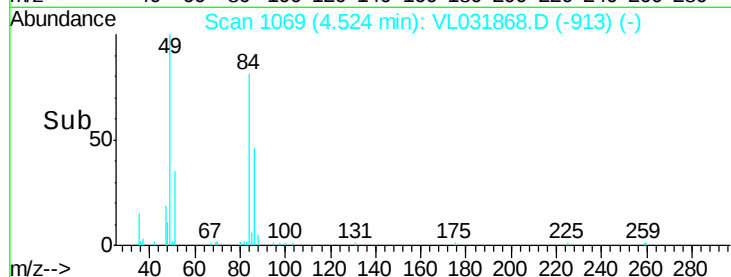
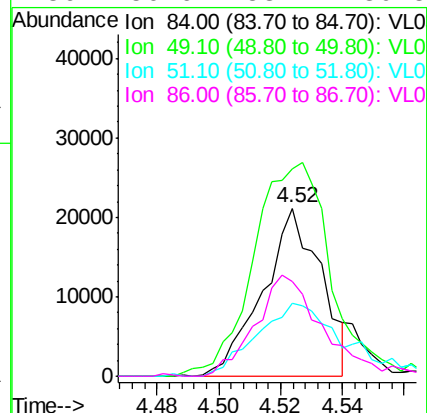
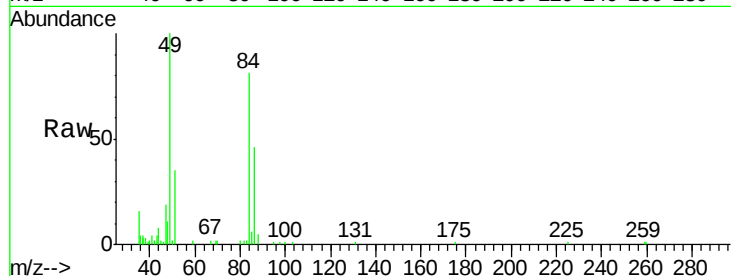




#20
Methylene Chloride
Concen: 0.39 ppbv
RT: 4.52 min Scan# 1069
Delta R.T. 0.00 min
Lab File: VL031868.D
Acq: 12 Apr 2018 16:46

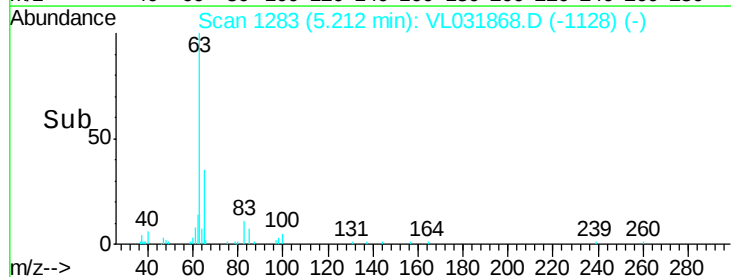
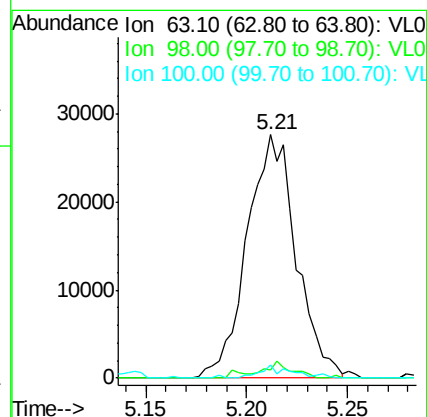
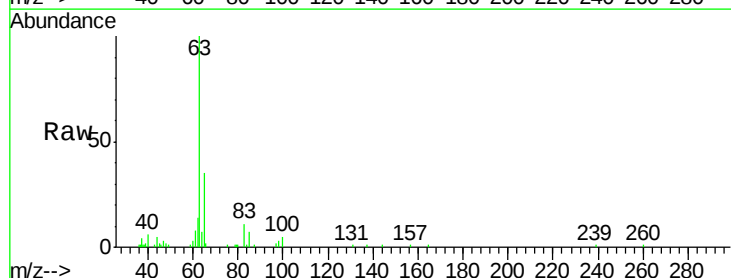
Instrument :
MSVOA_L
ClientSampleId :
GAC-INF-040218DL

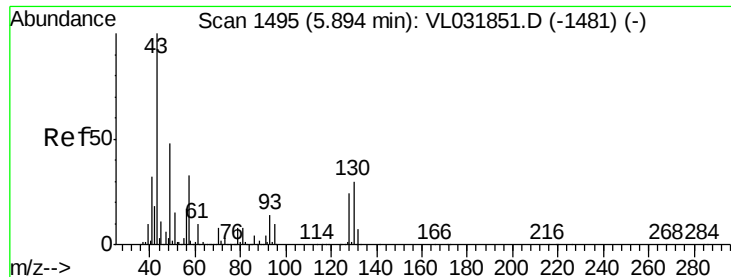
Tgt Ion: 84 Resp: 27603
Ion Ratio Lower Upper
84 100
49 118.7 125.6 188.4#
51 43.2 36.4 54.6
86 56.6 53.7 80.5



#24
1,1-Dichloroethane
Concen: 0.24 ppbv
RT: 5.21 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VL031868.D
Acq: 12 Apr 2018 16:46

Tgt Ion: 63 Resp: 47025
Ion Ratio Lower Upper
63 100
98 3.1 2.4 7.2
100 5.4 1.5 4.4#

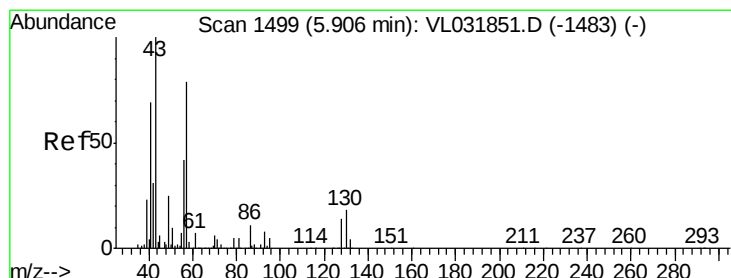
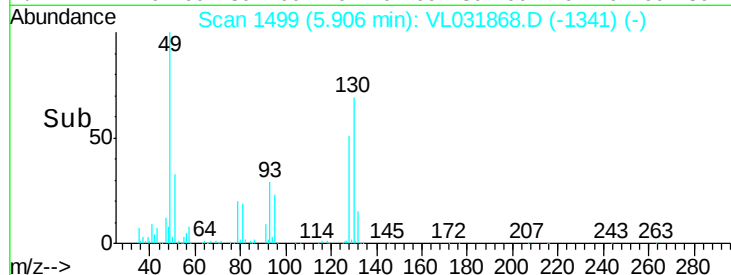
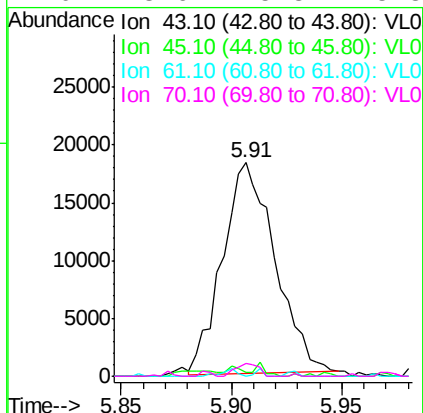
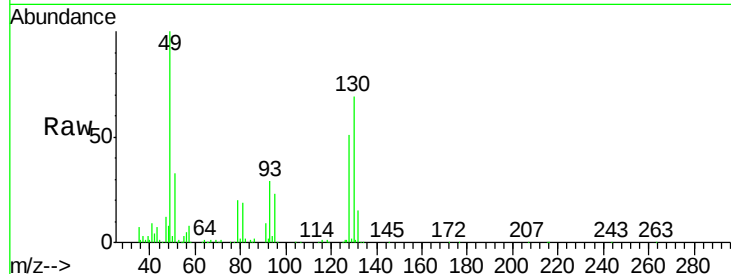




#25
Ethyl Acetate
Concen: 0.10 ppbv
RT: 5.91 min Scan# 1499
Delta R.T. 0.01 min
Lab File: VL031868.D
Acq: 12 Apr 2018 16:46

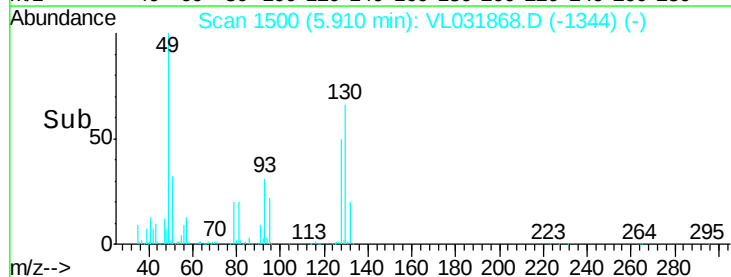
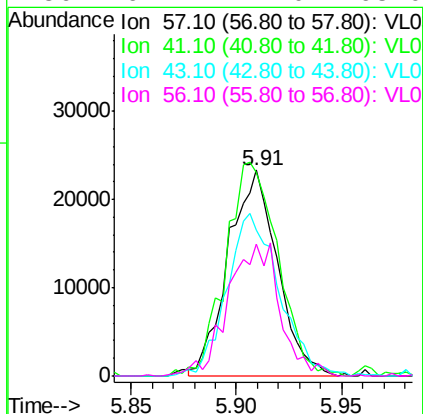
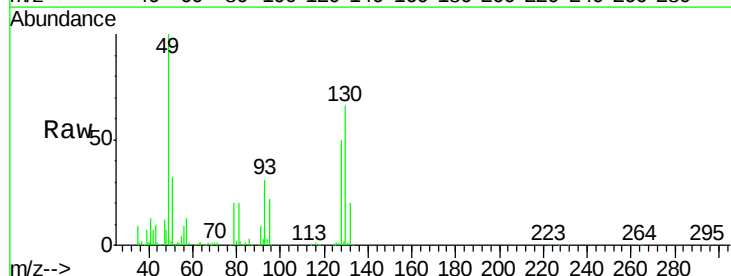
Instrument :
MSVOA_L
ClientSampleId :
GAC-INF-040218DL

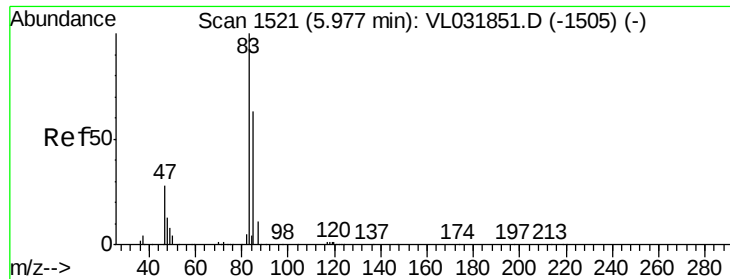
Tgt Ion:	43	Resp:	30336
Ion	Ratio	Lower	Upper
43	100		
45	4.5	7.8	11.8#
61	0.0	7.2	10.8#
70	3.6	5.8	8.8#



#26
Hexane
Concen: 0.27 ppbv
RT: 5.91 min Scan# 1500
Delta R.T. 0.00 min
Lab File: VL031868.D
Acq: 12 Apr 2018 16:46

Tgt Ion:	57	Resp:	37742
Ion	Ratio	Lower	Upper
57	100		
41	110.7	72.0	108.0#
43	84.8	169.8	254.8#
56	67.7	42.0	63.0#





#29

Chloroform

Concen: 0.04 ppbv

RT: 5.98 min Scan# 1521

Delta R.T. -0.00 min

Lab File: VL031868.D

Acq: 12 Apr 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

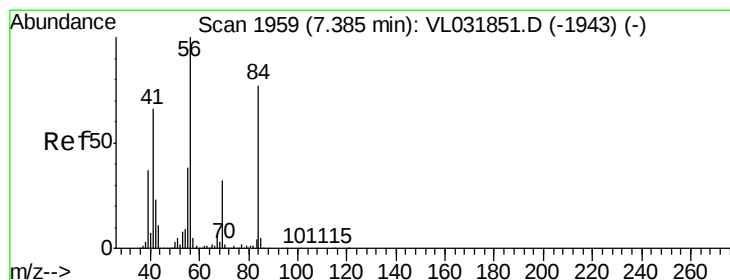
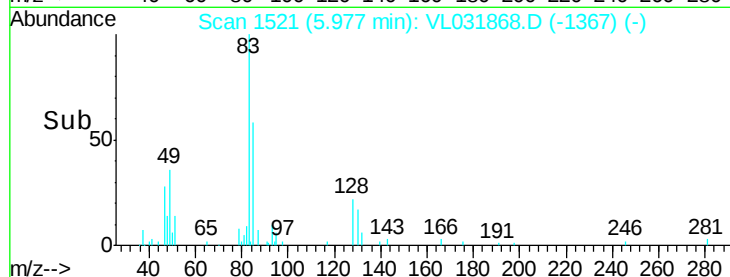
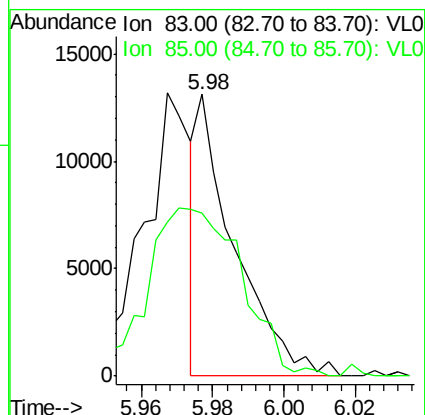
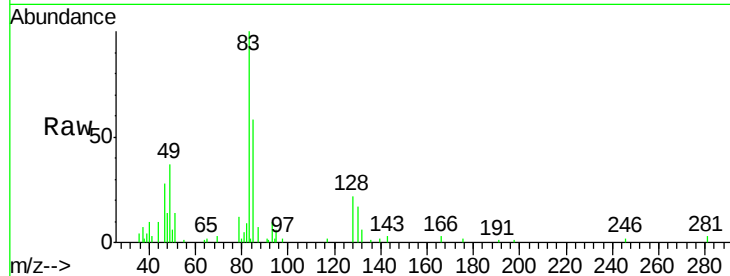
GAC-INF-040218DL

Tgt Ion: 83 Resp: 9591

Ion Ratio Lower Upper

83 100

85 57.7 51.4 77.0



#30

Cyclohexane

Concen: 0.05 ppbv

RT: 7.39 min Scan# 1960

Delta R.T. -0.00 min

Lab File: VL031868.D

Acq: 12 Apr 2018 16:46

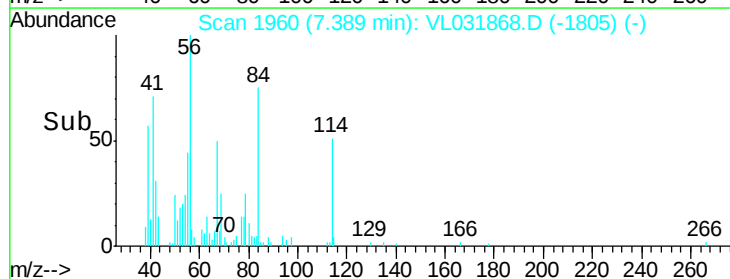
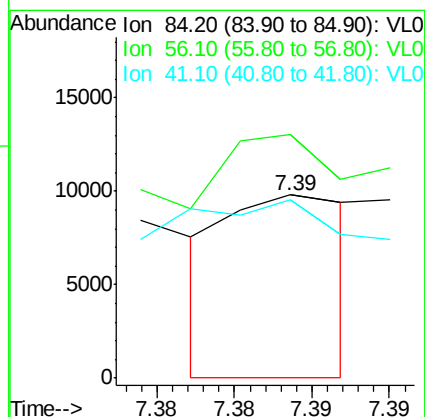
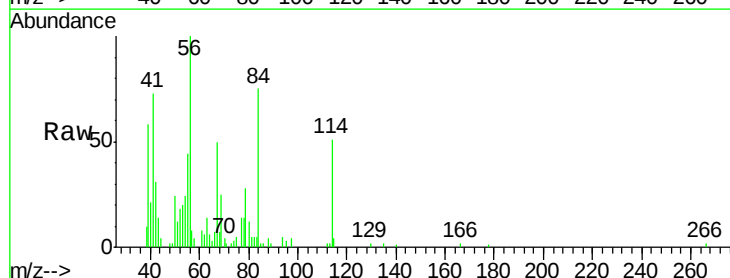
Tgt Ion: 84 Resp: 5436

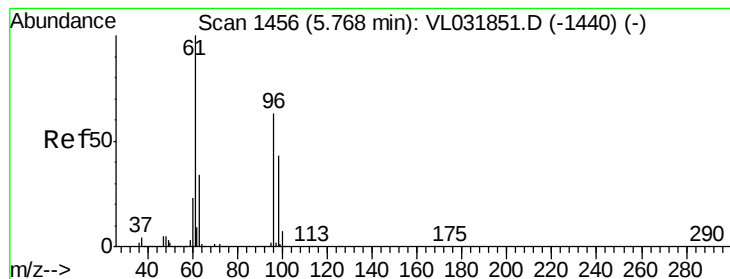
Ion Ratio Lower Upper

84 100

56 0.0 107.7 161.5#

41 376.8 68.2 102.2#





#31

cis-1,2-Dichloroethene

Concen: 0.09 ppbv

RT: 5.76 min Scan# 1455

Delta R.T. -0.00 min

Lab File: VL031868.D

Acq: 12 Apr 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

GAC-INF-040218DL

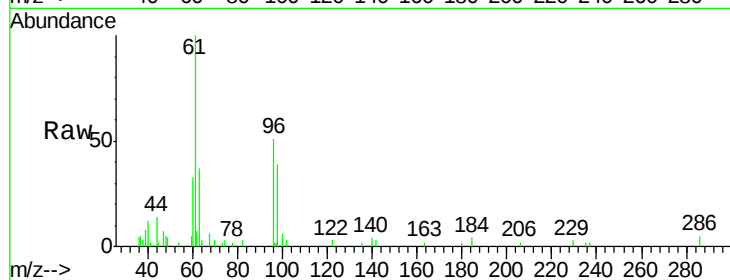
Tgt Ion: 61 Resp: 10977

Ion Ratio Lower Upper

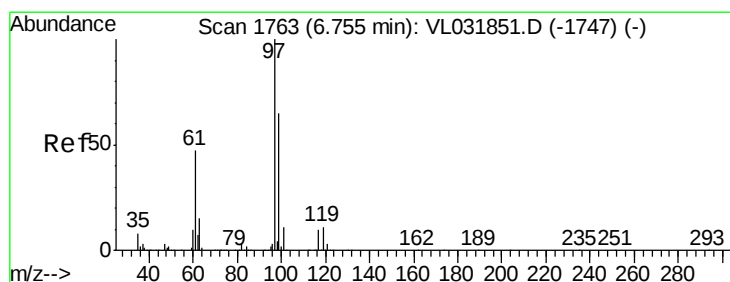
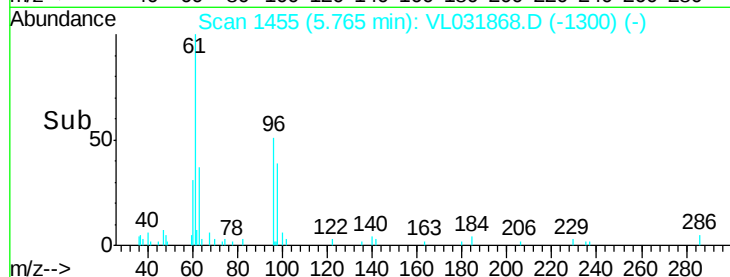
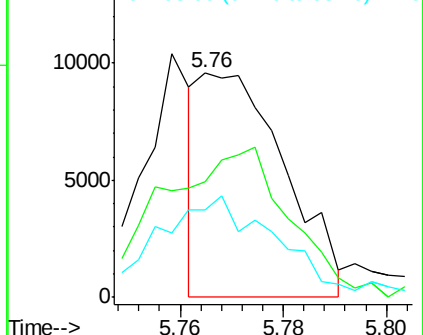
61 100

96 48.5 47.6 71.4

98 37.9 30.3 45.5



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.29 ppbv

RT: 6.76 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VL031868.D

Acq: 12 Apr 2018 16:46

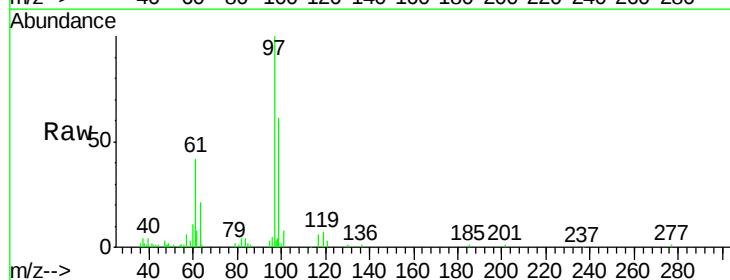
Tgt Ion: 97 Resp: 68007

Ion Ratio Lower Upper

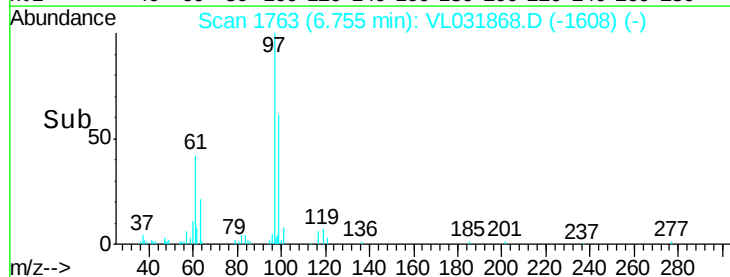
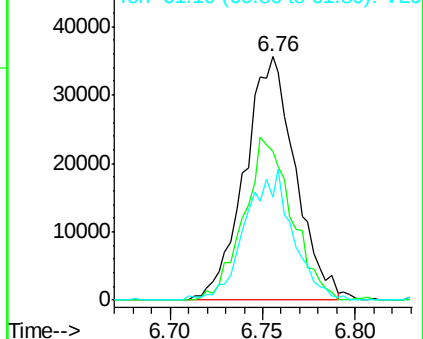
97 100

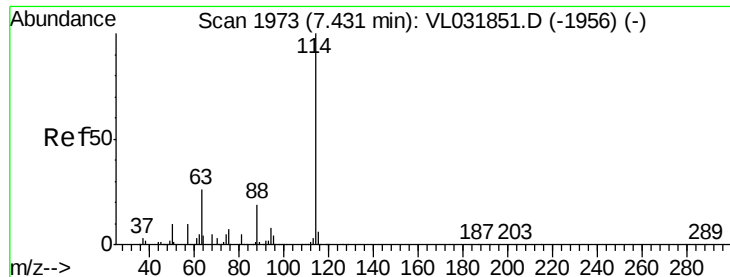
99 63.2 51.5 77.3

61 49.6 40.0 60.0



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.43 min Scan# 1972

Delta R.T. -0.01 min

Lab File: VL031868.D

Acq: 12 Apr 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

GAC-INF-040218DL

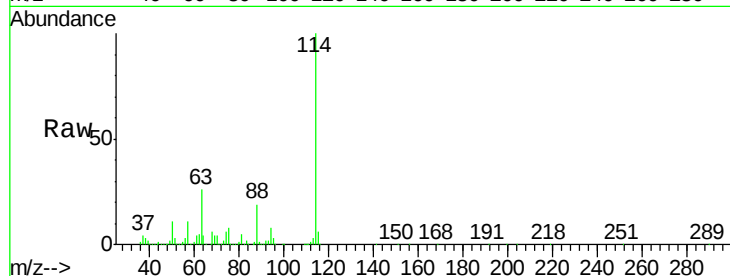
Tgt Ion:114 Resp: 2625011

Ion Ratio Lower Upper

114 100

63 27.5 21.8 32.6

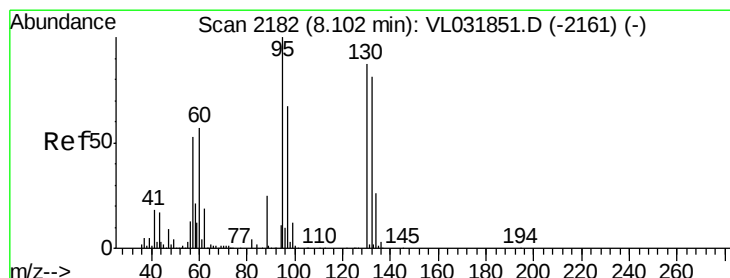
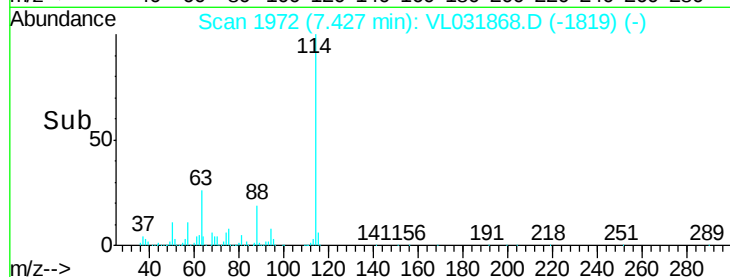
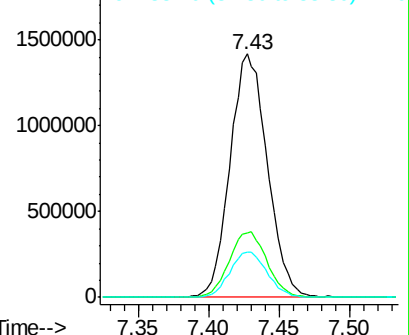
88 18.8 14.6 22.0



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#38

Trichloroethene

Concen: 0.42 ppbv

RT: 8.10 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL031868.D

Acq: 12 Apr 2018 16:46

Tgt Ion:130 Resp: 40663

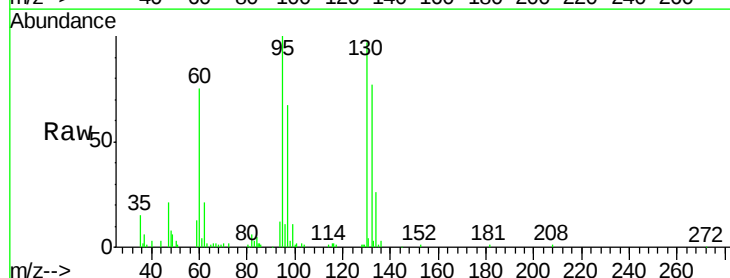
Ion Ratio Lower Upper

130 100

95 103.3 96.6 144.8

132 80.0 79.1 118.7

97 68.2 61.5 92.3

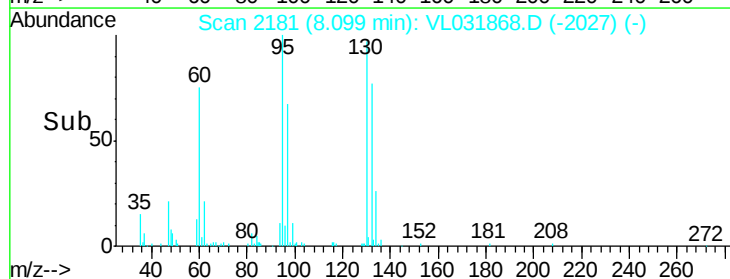
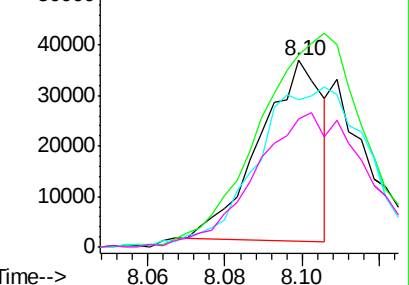


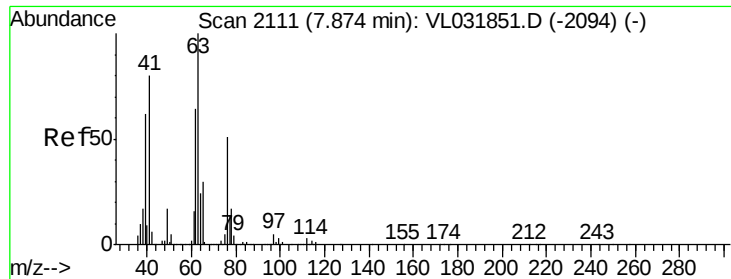
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

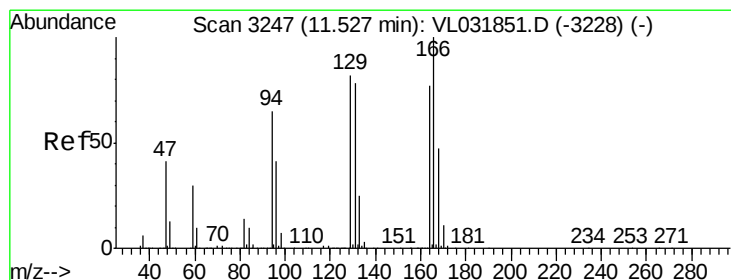
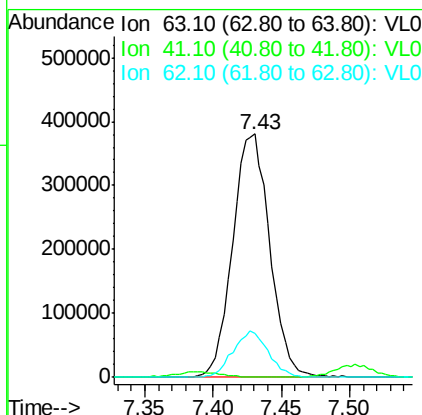
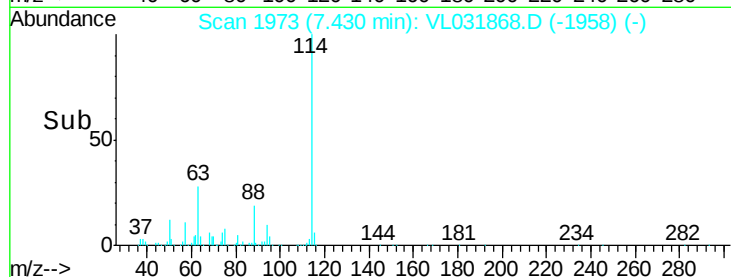
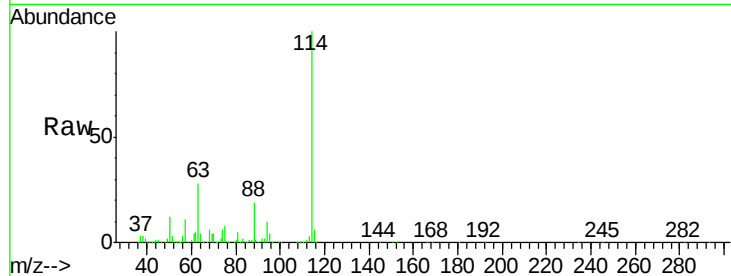




#39
 1,2-Dichloropropane
 Concen: 8.17 ppbv
 RT: 7.43 min Scan# 1973
 Delta R.T. -0.45 min
 Lab File: VL031868.D
 Acq: 12 Apr 2018 16:46

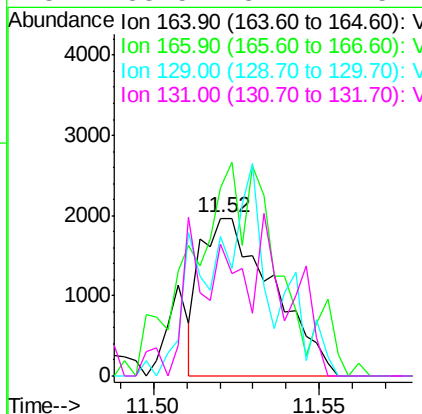
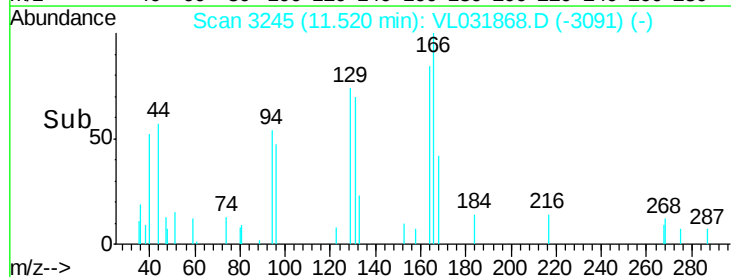
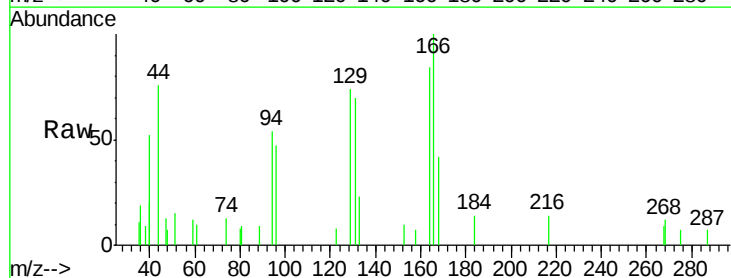
Instrument :
 MSVOA_L
 ClientSampleId :
 GAC-INF-040218DL

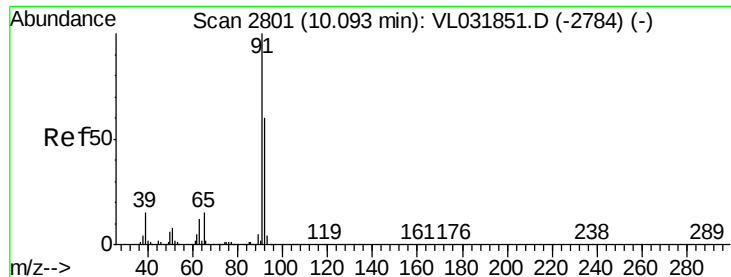
Tgt Ion: 63 Resp: 717062
 Ion Ratio Lower Upper
 63 100
 41 0.0 65.8 98.6#
 62 18.0 55.0 82.6#



#52
 Tetrachloroethene
 Concen: 0.03 ppbv
 RT: 11.52 min Scan# 3245
 Delta R.T. -0.00 min
 Lab File: VL031868.D
 Acq: 12 Apr 2018 16:46

Tgt Ion: 164 Resp: 2969
 Ion Ratio Lower Upper
 164 100
 166 105.6 98.2 147.4
 129 87.9 86.5 129.7
 131 83.5 82.2 123.2





#53

Toluene

Concen: 0.88 ppbv

RT: 10.10 min Scan# 2802

Delta R.T. 0.00 min

Lab File: VL031868.D

Acq: 12 Apr 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

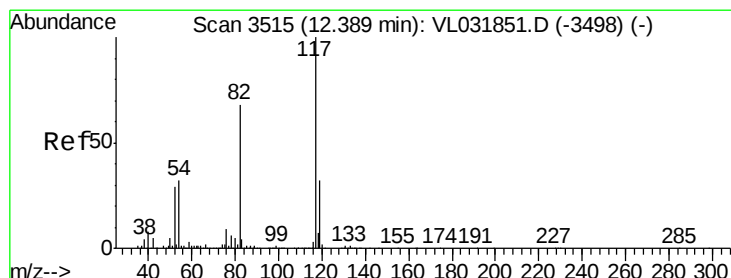
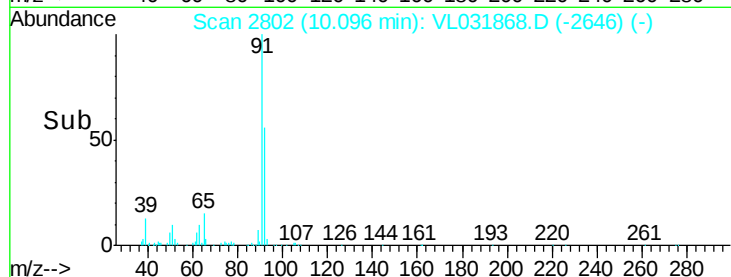
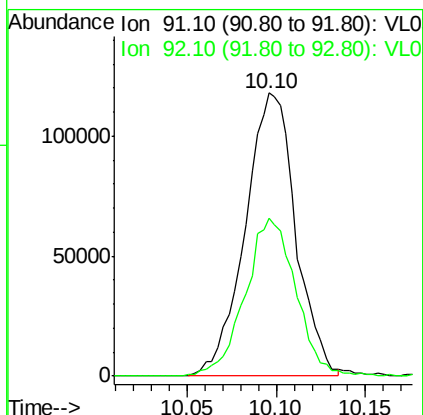
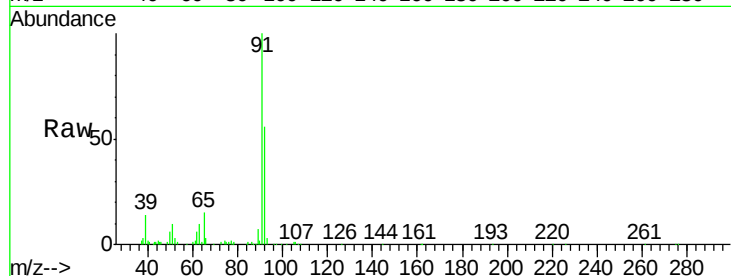
GAC-INF-040218DL

Tgt Ion: 91 Resp: 232038

Ion Ratio Lower Upper

91 100

92 56.5 47.4 71.2



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.39 min Scan# 3516

Delta R.T. -0.00 min

Lab File: VL031868.D

Acq: 12 Apr 2018 16:46

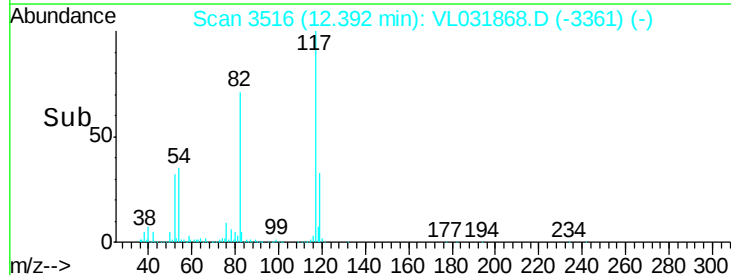
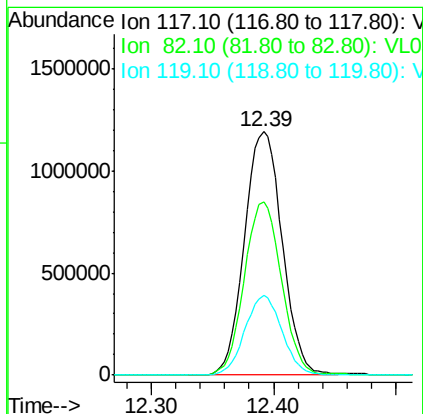
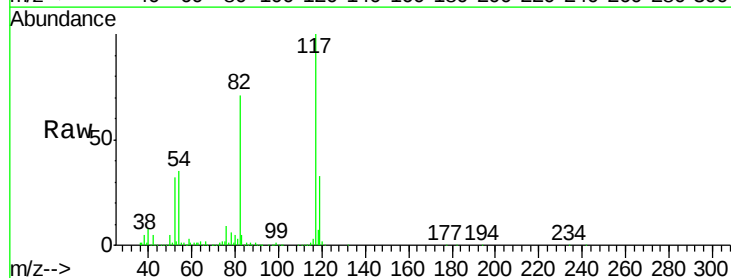
Tgt Ion: 117 Resp: 2548166

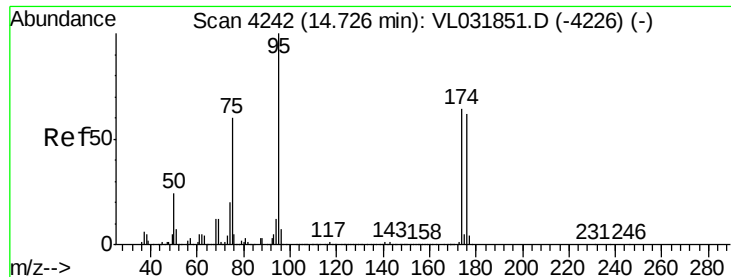
Ion Ratio Lower Upper

117 100

82 70.5 54.6 81.8

119 32.3 26.0 39.0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.00 ppbv

RT: 14.73 min Scan# 4243

Delta R.T. -0.00 min

Lab File: VL031868.D

Acq: 12 Apr 2018 16:46

Instrument :

MSVOA_L

ClientSampleId :

GAC-INF-040218DL

Tgt Ion: 95 Resp: 2048740

Ion Ratio Lower Upper

95 100

174 65.4 52.3 78.5

175 4.7 3.9 5.9

