

Data File : VL032565.D
Acq On : 28 Sep 2018 1:25
Operator : SY/AP
Sample : J5094-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Quant Time: Sep 28 04:29:05 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Sep 25 05:17:15 2018
QLast Update : Tue Sep 25 05:17:15 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1225124	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	2753499	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	2952717	10.00	ppbv	-0.02

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.61 95 2126818 9.55 ppbv -0.02
Spiked Amount 10.000 Range 65 - 135 Recovery = 95.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	56223	0.496	ppbv	97
3) Chlorodifluoromethane	3.03	51	167542	1.644	ppbv	98
4) Chloromethane	3.19	50	33949	0.571	ppbv	99
9) Propene	3.06	41	62499	1.414	ppbv #	69
10) Heptane	8.27	43	8825	0.054	ppbv #	28
11) Trichlorofluoromethane	4.03	101	38037	0.282	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.58	101	6382	0.058	ppbv #	66
13) Ethanol	3.67	45	1691571	127.310	ppbv	98
15) Acetone	3.92	43	832775	7.744	ppbv	100
16) 1,3-Butadiene	3.36	39	3300	0.076	ppbv #	1
17) tert-Butyl alcohol	4.39	59	7595	0.562	ppbv #	100
19) Isopropyl Alcohol	4.05	45	408496	5.453	ppbv #	96
20) Methylene Chloride	4.43	84	114430	2.197	ppbv	98
23) Vinyl Acetate	5.17	43	27318	0.144	ppbv #	68
25) Ethyl Acetate	5.80	43	163707	0.627	ppbv #	84
26) Hexane	5.80	57	192544	1.634	ppbv #	48
29) Chloroform	5.87	83	180240	0.997	ppbv	97
34) 2-Butanone	5.36	43	30507	0.186	ppbv #	89
35) Carbon Tetrachloride	7.16	117	34388	0.180	ppbv #	92
36) Benzene	7.04	78	22533	0.101	ppbv	98
39) 1,2-Dichloropropane	7.32	63	744178	7.421	ppbv #	25
42) Bromodichloromethane	7.94	83	7107	0.035	ppbv #	93
52) Tetrachloroethene	11.41	164	33631	0.434	ppbv	94
53) Toluene	9.98	91	1134266	4.183	ppbv	98
73) 1,3,5-Trimethylbenzene	16.19	105	14851	0.045	ppbv	92
74) 1,2,4-Trimethylbenzene	16.97	105	111053	0.315	ppbv #	68
76) 1,4-Dichlorobenzene	17.33	146	18622	0.094	ppbv #	16

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

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Instrument :
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BFB

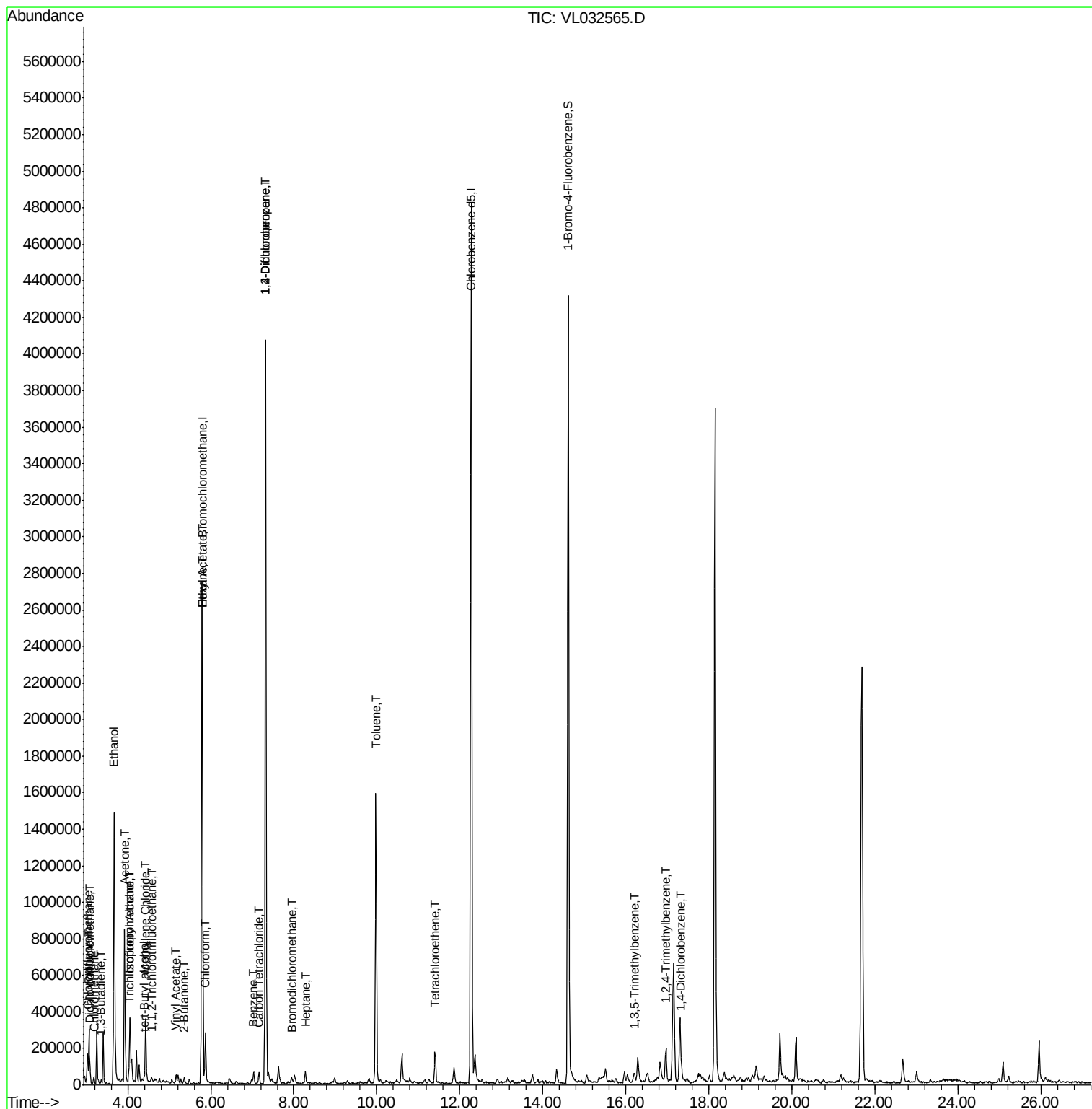
Quant Time: Sep 28 04:29:05 2018

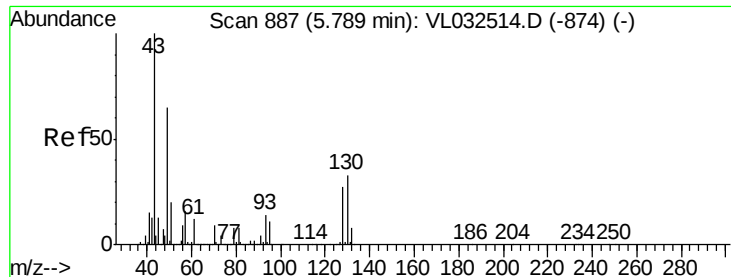
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL092418AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LTue Sep 25 05:17:15 2018

QLast Update : Tue Sep 25 05:17:15 2018

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.02 min

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Acq: 28 Sep 2018 1:25

Instrument :

MSVOA_L

ClientSampleId :

BFB

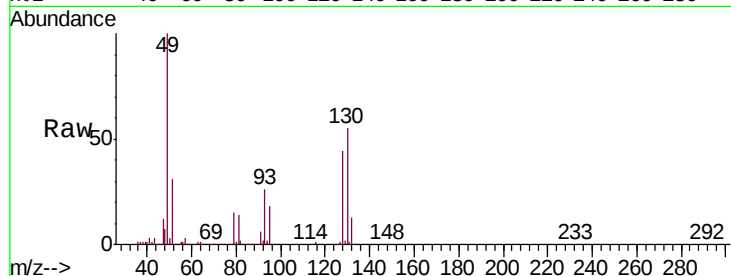
Tgt Ion: 49 Resp: 1225124

Ion Ratio Lower Upper

49 100

128 44.8 20.7 62.1

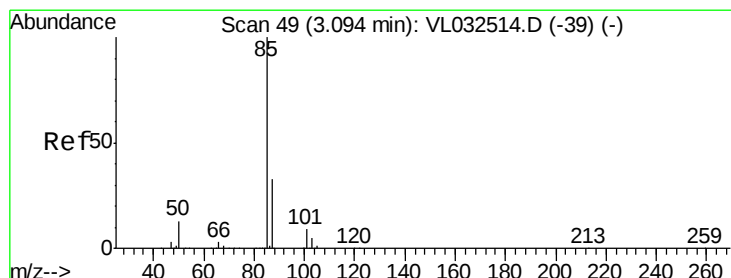
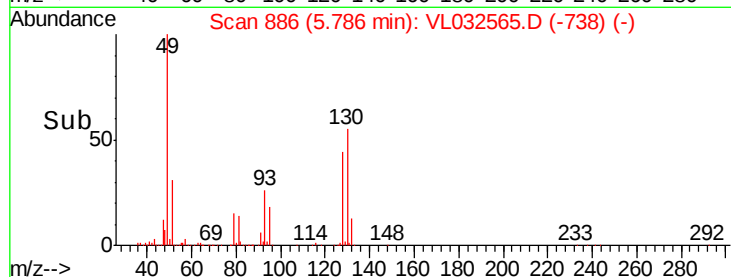
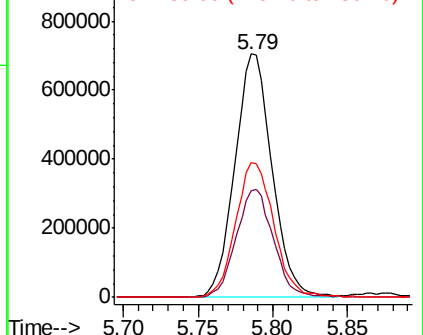
130 56.9 26.6 79.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.496 ppbv

RT: 3.09 min Scan# 48

Delta R.T. -0.02 min

Lab File: VL032565.D

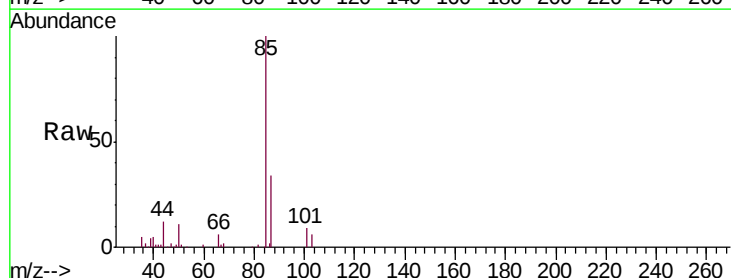
Acq: 28 Sep 2018 1:25

Tgt Ion: 85 Resp: 56223

Ion Ratio Lower Upper

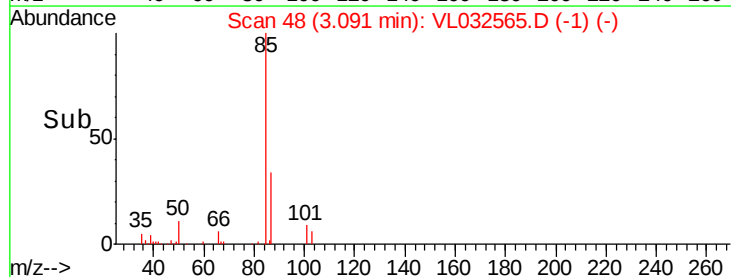
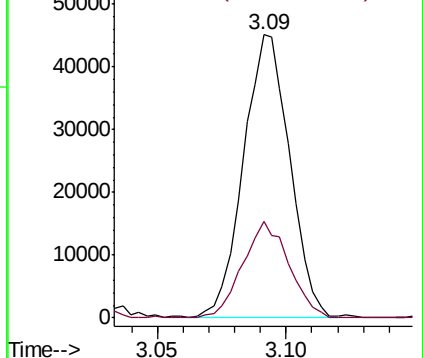
85 100

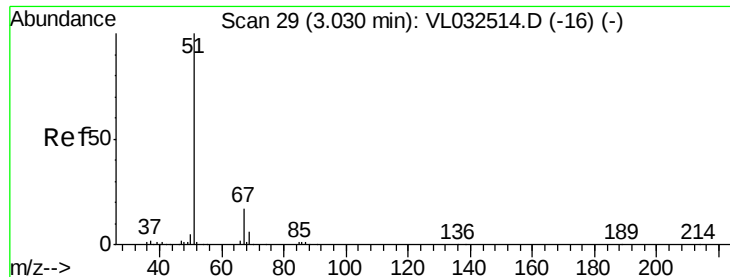
87 34.4 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.644 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.01 min

Lab File: VL032565.D

Acq: 28 Sep 2018 1:25

Instrument :

MSVOA_L

ClientSampleId :

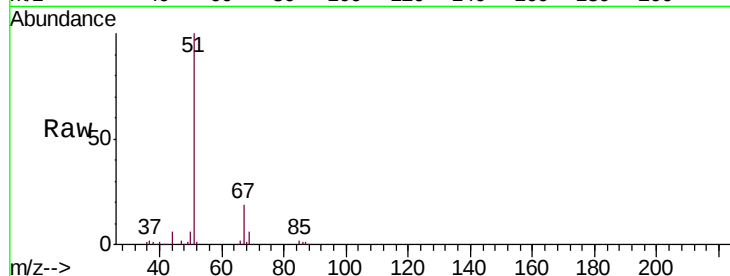
BFB

Tgt Ion: 51 Resp: 167542

Ion Ratio Lower Upper

51 100

67 16.4 13.8 20.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.03

120000

100000

80000

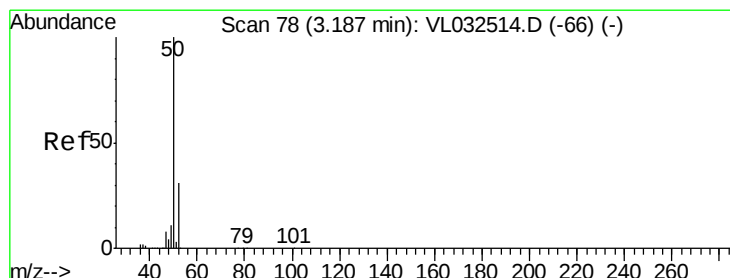
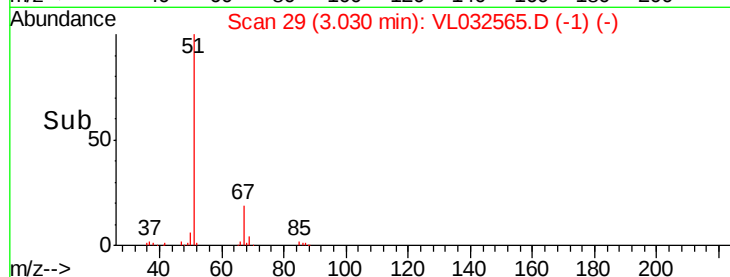
60000

40000

20000

0

Time-->



#4

Chloromethane

Concen: 0.571 ppbv

RT: 3.19 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL032565.D

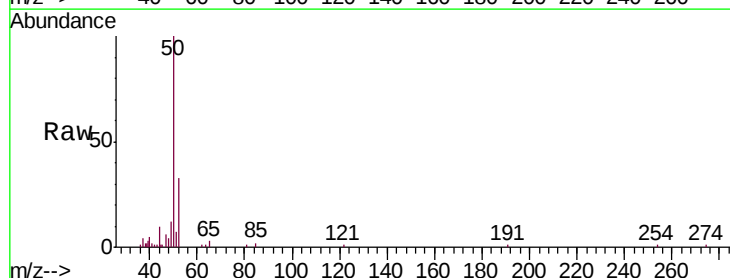
Acq: 28 Sep 2018 1:25

Tgt Ion: 50 Resp: 33949

Ion Ratio Lower Upper

50 100

52 32.6 25.6 38.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.19

25000

20000

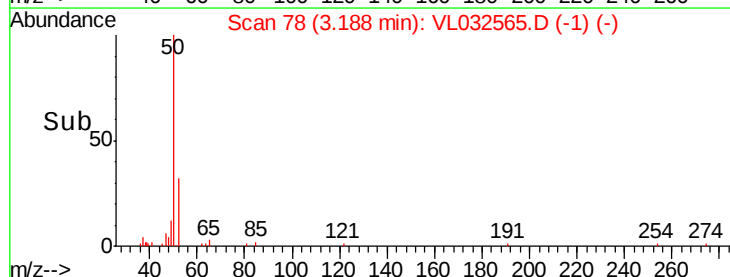
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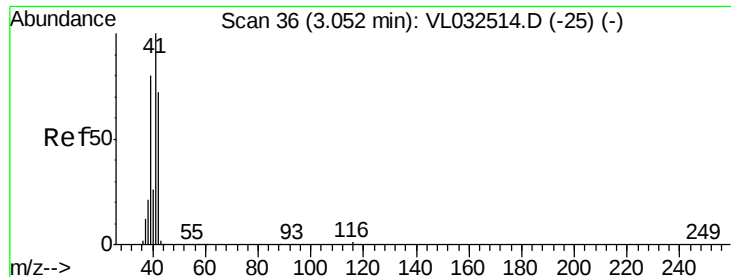
10000

5000

0

Time-->





#9

Propene

Concen: 1.414 ppbv

RT: 3.06 min Scan# 39

Delta R.T. -0.01 min

Lab File: VL032565.D

Acq: 28 Sep 2018 1:25

Instrument :

MSVOA_L

ClientSampleId :

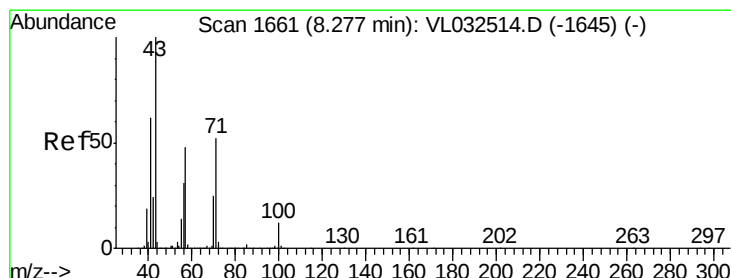
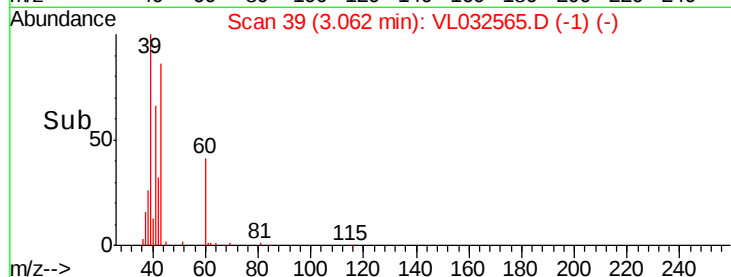
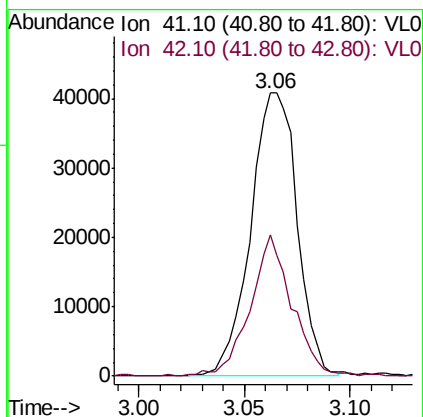
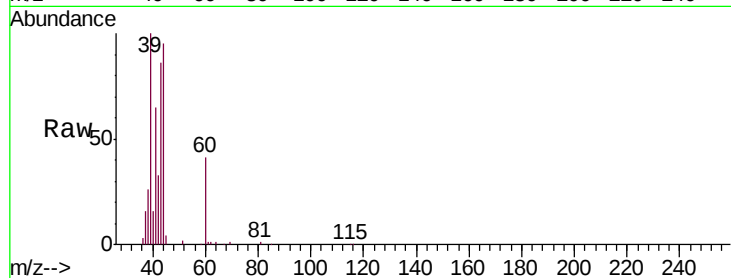
BFB

Tgt Ion: 41 Resp: 62499

Ion Ratio Lower Upper

41 100

42 45.2 56.6 84.8#



#10

Heptane

Concen: 0.054 ppbv

RT: 8.27 min Scan# 1659

Delta R.T. -0.03 min

Lab File: VL032565.D

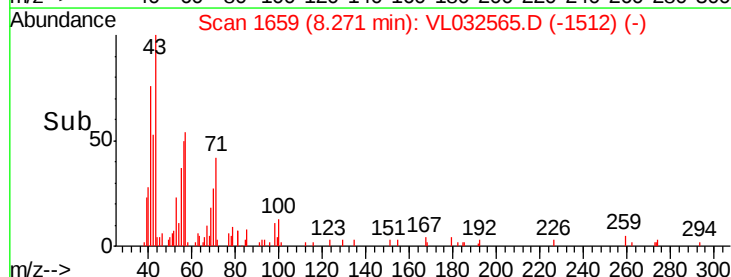
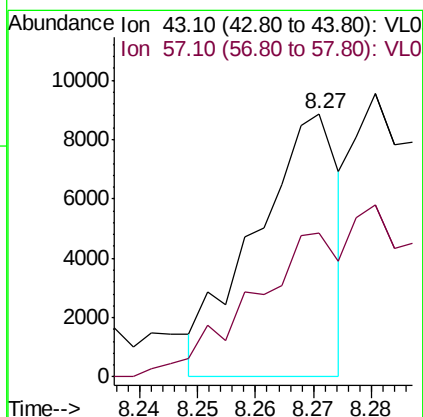
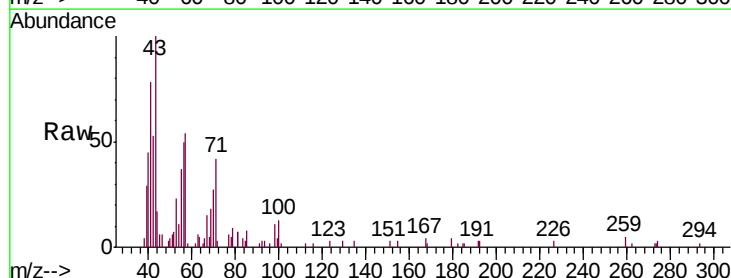
Acq: 28 Sep 2018 1:25

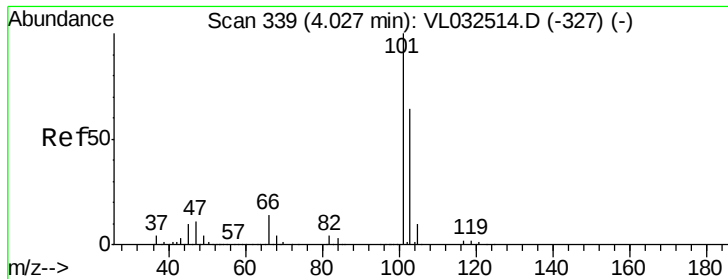
Tgt Ion: 43 Resp: 8825

Ion Ratio Lower Upper

43 100

57 0.0 39.6 59.4#

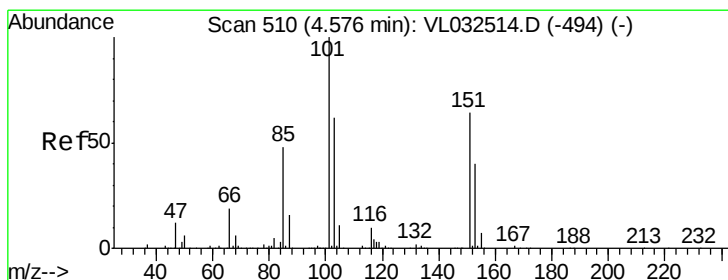
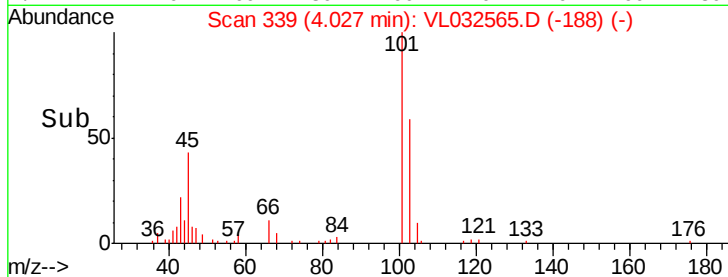
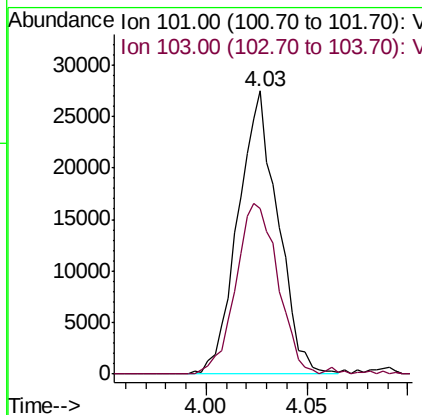
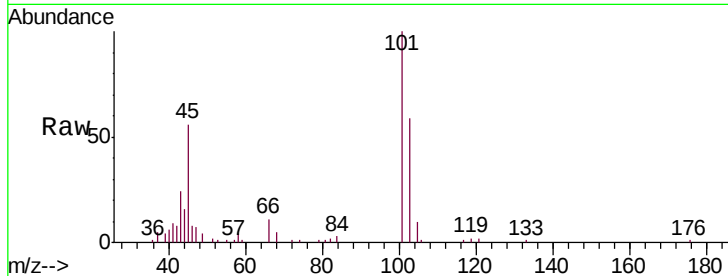




#11
 Trichlorofluoromethane
 Concen: 0.282 ppbv
 RT: 4.03 min Scan# 339
 Delta R.T. -0.01 min
 Lab File: VL032565.D
 Acq: 28 Sep 2018 1:25

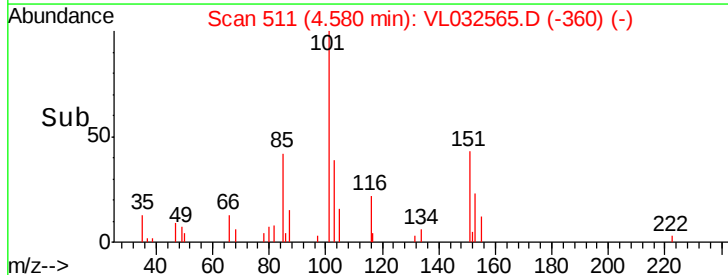
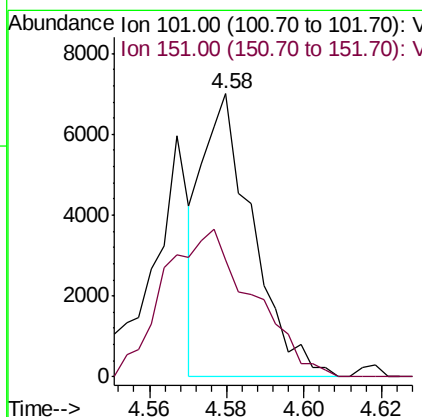
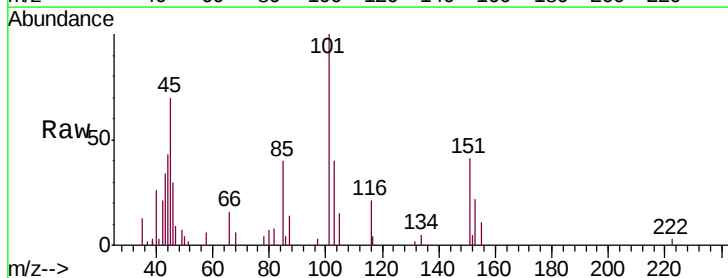
Instrument :
 MSVOA_L
 ClientSampleID :
 BFB

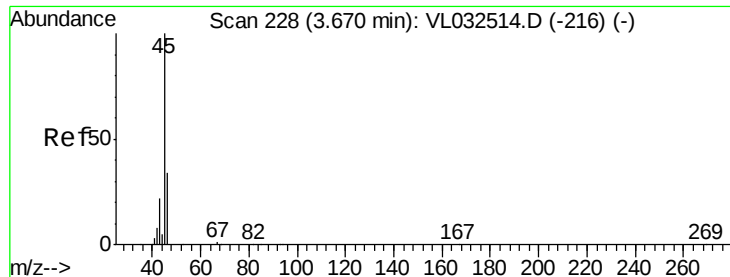
Tgt Ion:101 Resp: 38037
 Ion Ratio Lower Upper
 101 100
 103 58.5 52.8 79.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.058 ppbv
 RT: 4.58 min Scan# 511
 Delta R.T. -0.01 min
 Lab File: VL032565.D
 Acq: 28 Sep 2018 1:25

Tgt Ion:101 Resp: 6382
 Ion Ratio Lower Upper
 101 100
 151 92.5 52.6 78.8#





#13

Ethanol

Concen: 127.310 ppbv

RT: 3.67 min Scan# 228

Delta R.T. -0.01 min

Lab File: VL032565.D

Acq: 28 Sep 2018 1:25

Instrument :

MSVOA_L

ClientSampleId :

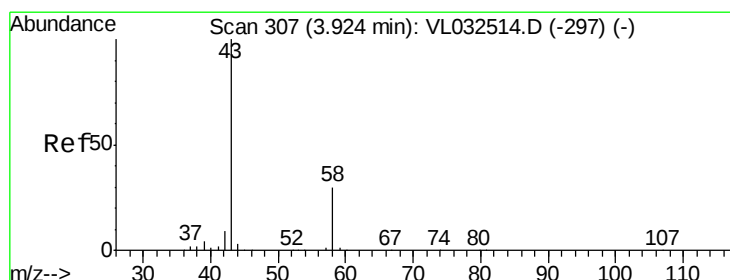
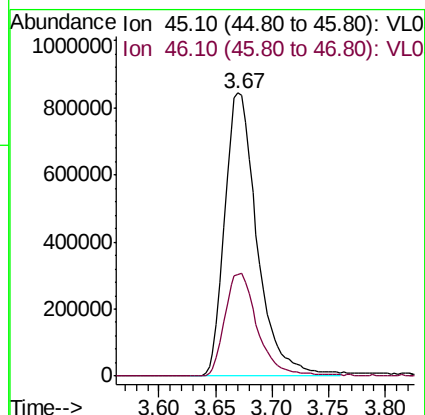
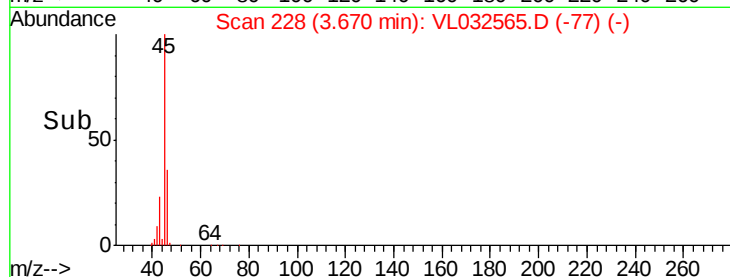
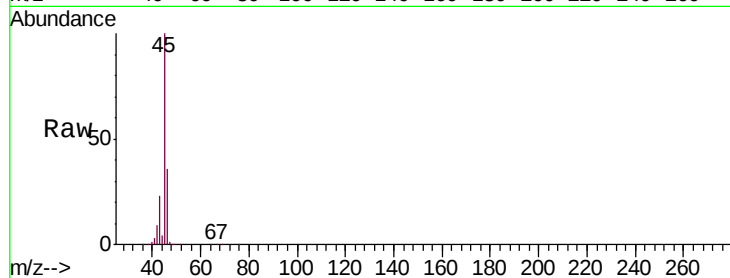
BFB

Tgt Ion: 45 Resp: 1691571

Ion Ratio Lower Upper

45 100

46 36.8 14.2 56.8



#15

Acetone

Concen: 7.744 ppbv

RT: 3.92 min Scan# 306

Delta R.T. -0.02 min

Lab File: VL032565.D

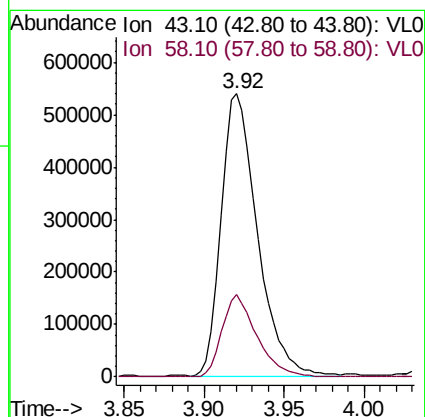
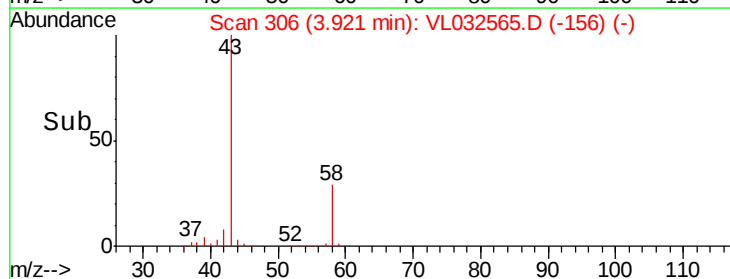
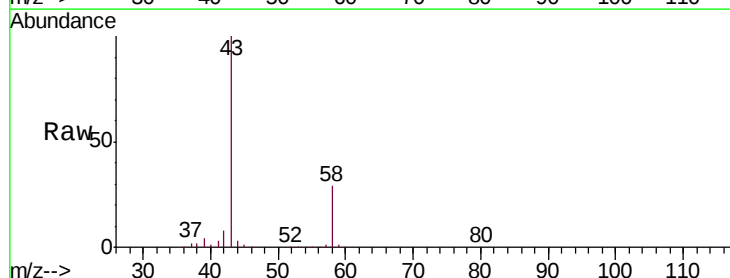
Acq: 28 Sep 2018 1:25

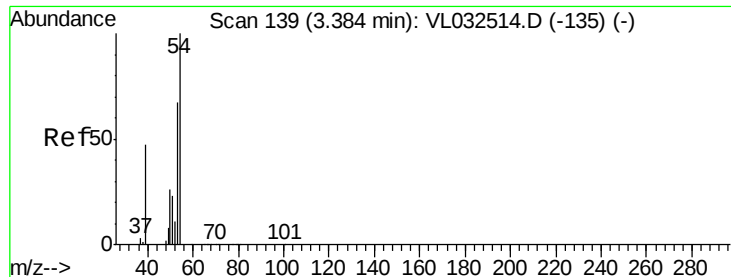
Tgt Ion: 43 Resp: 832775

Ion Ratio Lower Upper

43 100

58 28.3 22.6 33.8

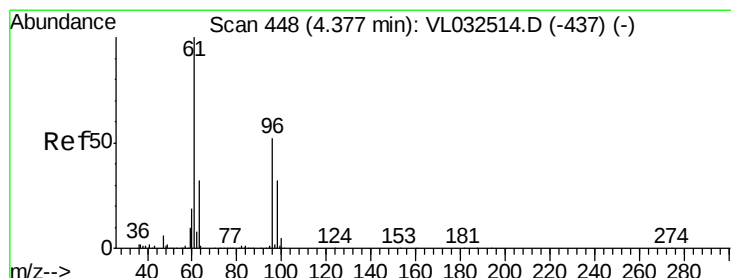
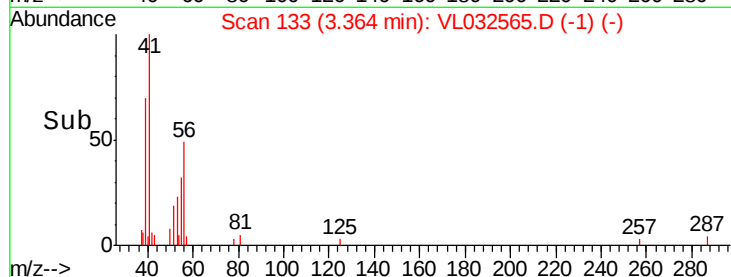
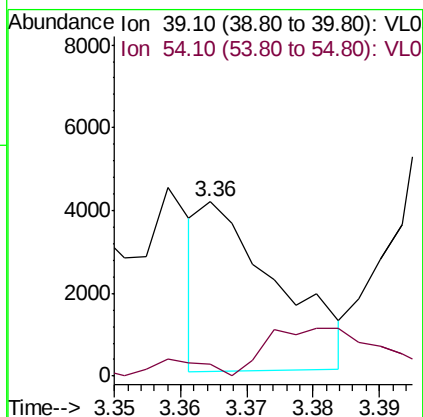
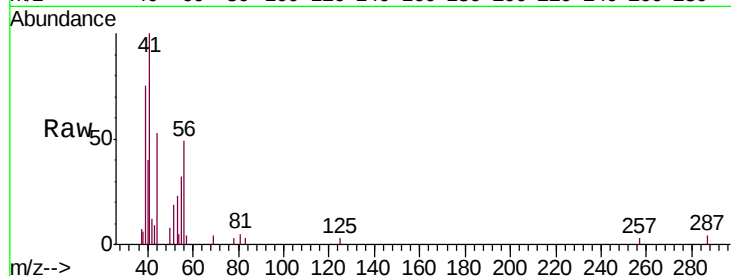




#16
1,3-Butadiene
Concen: 0.076 ppbv
RT: 3.36 min Scan# 133
Delta R.T. -0.03 min
Lab File: VL032565.D
Acq: 28 Sep 2018 1:25

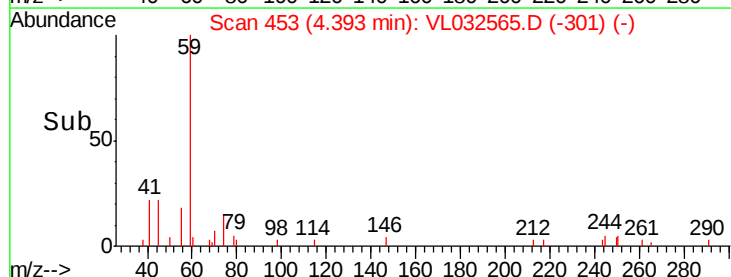
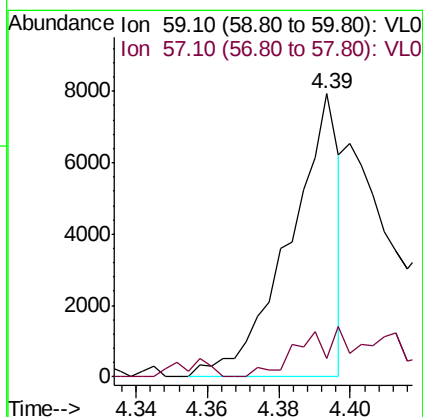
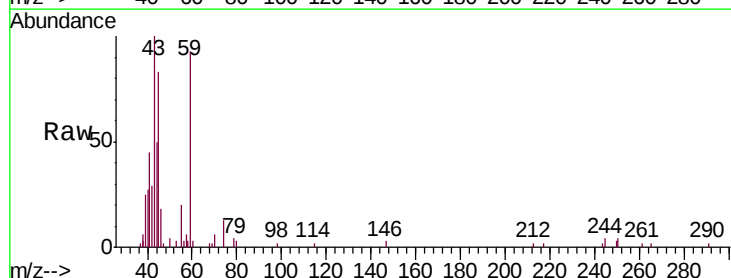
Instrument :
MSVOA_L
ClientSampleId :
BFB

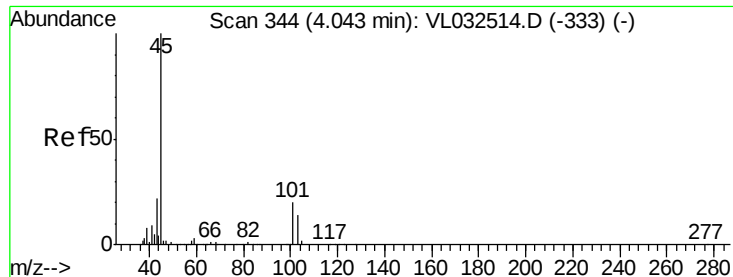
Tgt Ion: 39 Resp: 3300
Ion Ratio Lower Upper
39 100
54 0.0 80.8 121.2#



#17
tert-Butyl alcohol
Concen: 0.562 ppbv
RT: 4.39 min Scan# 453
Delta R.T. -0.01 min
Lab File: VL032565.D
Acq: 28 Sep 2018 1:25

Tgt Ion: 59 Resp: 7595
Ion Ratio Lower Upper
59 100
57 0.0 0.0 0.0





#19

Isopropyl Alcohol

Concen: 5.453 ppbv

RT: 4.05 min Scan# 346

Delta R.T. -0.01 min

Lab File: VL032565.D

Acq: 28 Sep 2018 1:25

Instrument :

MSVOA_L

ClientSampleId :

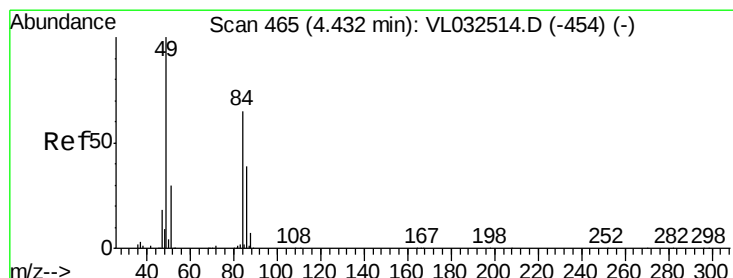
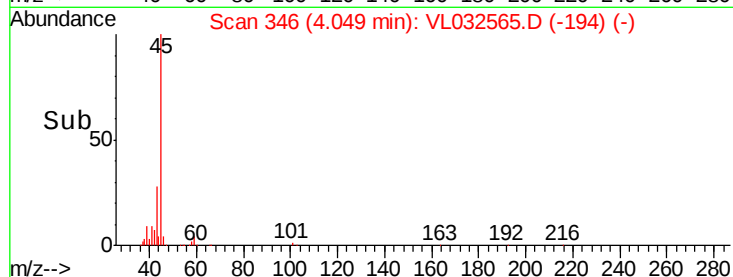
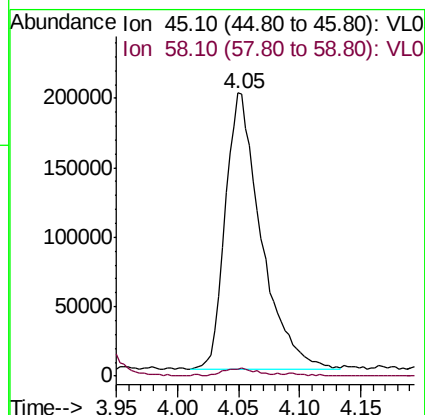
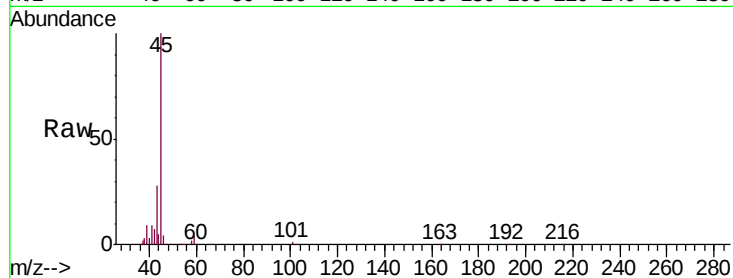
BFB

Tgt Ion: 45 Resp: 408496

Ion Ratio Lower Upper

45 100

58 3.8 2.0 3.0#



#20

Methylene Chloride

Concen: 2.197 ppbv

RT: 4.43 min Scan# 464

Delta R.T. -0.02 min

Lab File: VL032565.D

Acq: 28 Sep 2018 1:25

Tgt Ion: 84 Resp: 114430

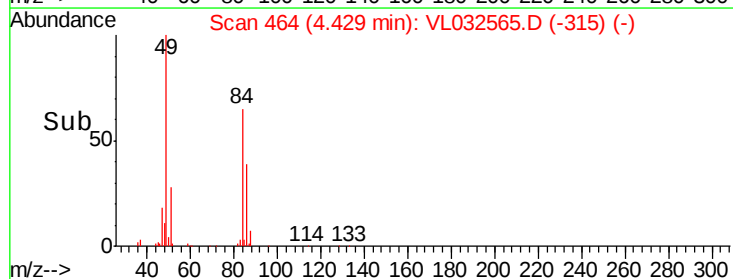
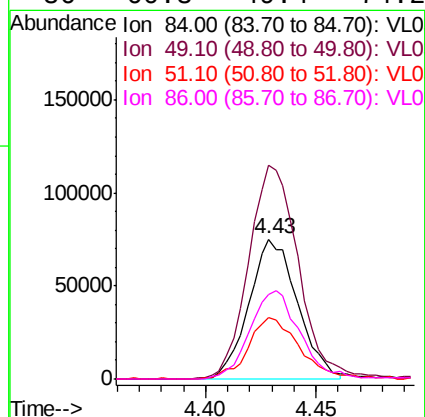
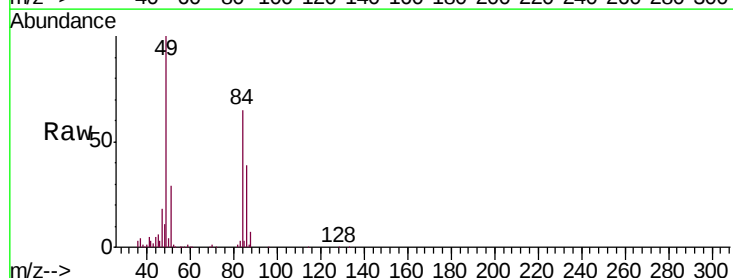
Ion Ratio Lower Upper

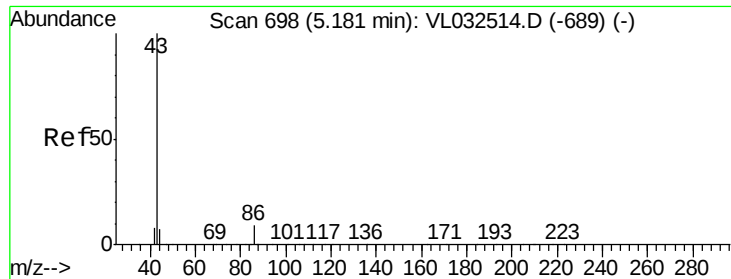
84 100

49 152.5 119.1 178.7

51 43.6 35.2 52.8

86 60.3 49.4 74.2

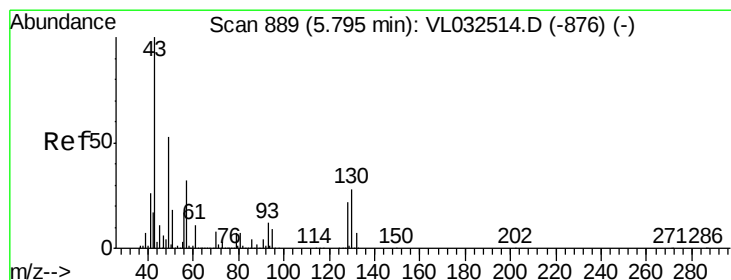
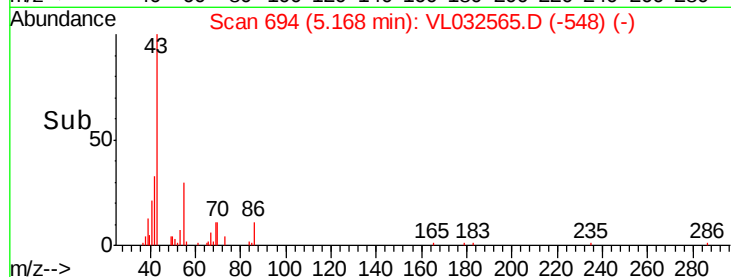
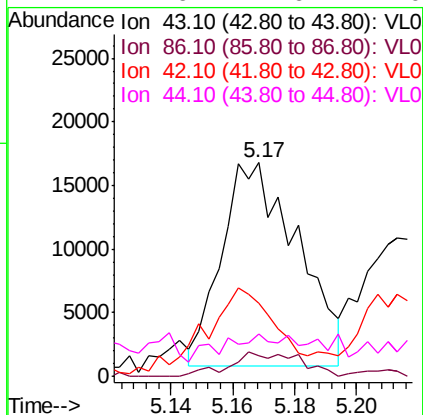
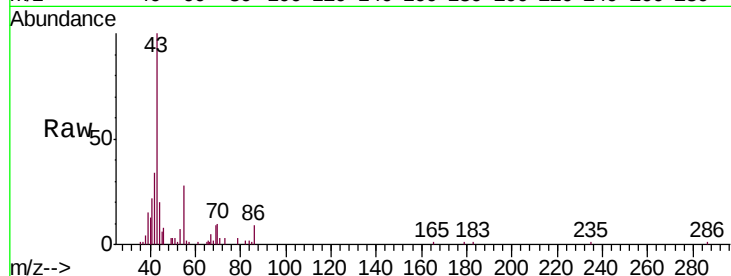




#23
 Vinyl Acetate
 Concen: 0.144 ppbv
 RT: 5.17 min Scan# 694
 Delta R.T. -0.03 min
 Lab File: VL032565.D
 Acq: 28 Sep 2018 1:25

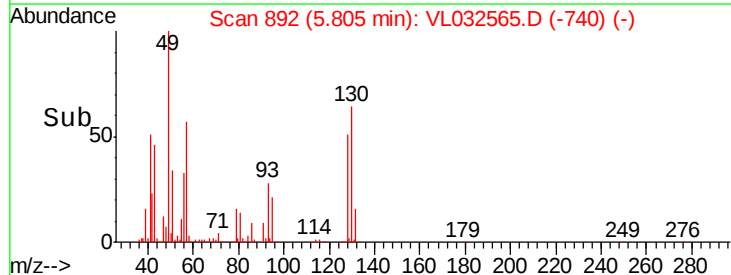
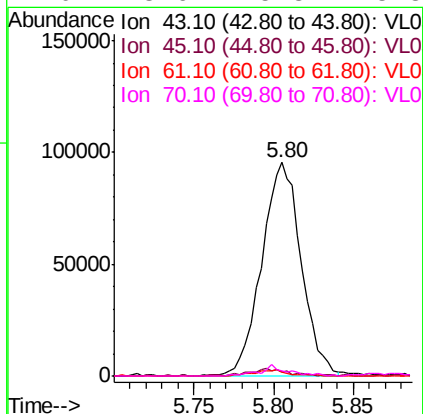
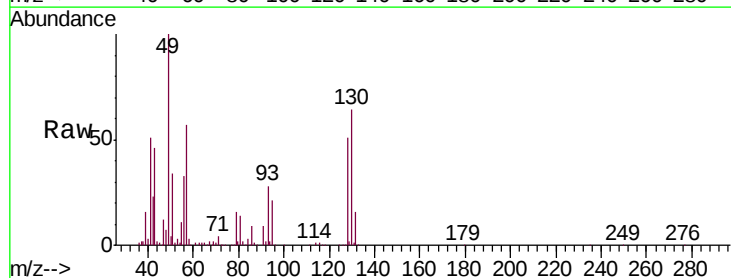
Instrument :
 MSVOA_L
 ClientSampleId :
 BFB

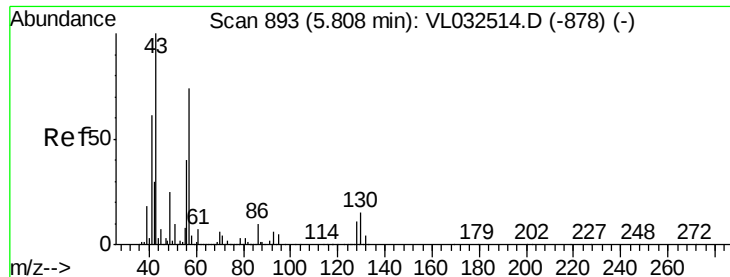
Tgt Ion:	43	Resp:	27318
Ion	Ratio	Lower	Upper
43	100		
86	10.9	5.9	8.9#
42	28.3	6.9	10.3#
44	14.6	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 0.627 ppbv
 RT: 5.80 min Scan# 892
 Delta R.T. -0.01 min
 Lab File: VL032565.D
 Acq: 28 Sep 2018 1:25

Tgt Ion:	43	Resp:	163707
Ion	Ratio	Lower	Upper
43	100		
45	3.9	8.0	12.0#
61	2.4	7.6	11.4#
70	3.6	5.8	8.8#

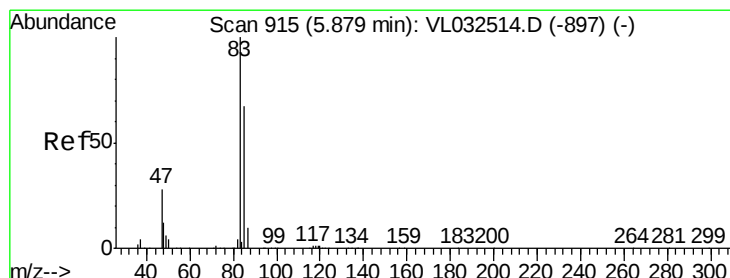
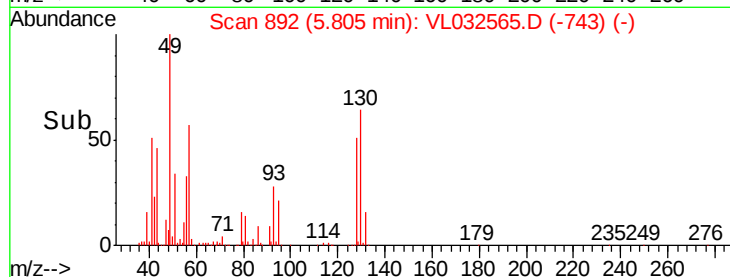
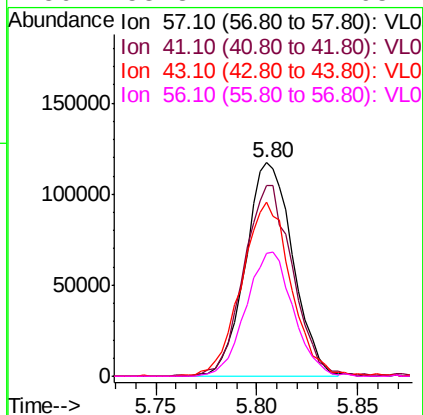
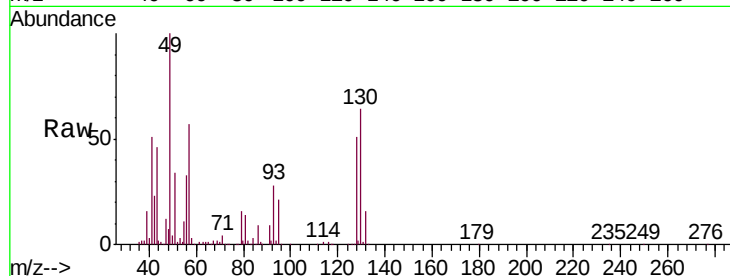




#26
Hexane
Concen: 1.634 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL032565.D
Acq: 28 Sep 2018 1:25

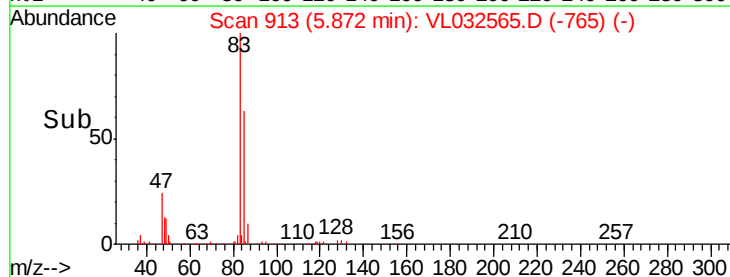
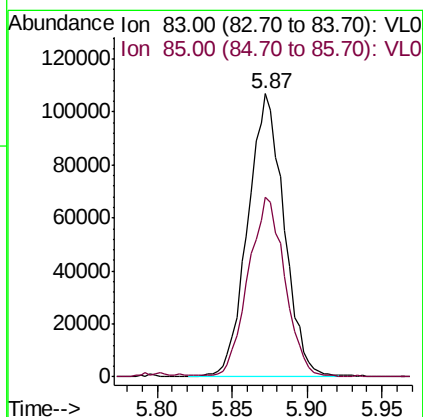
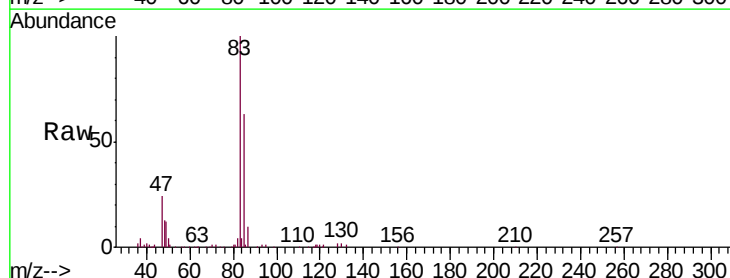
Instrument :
MSVOA_L
ClientSampleId :
BFB

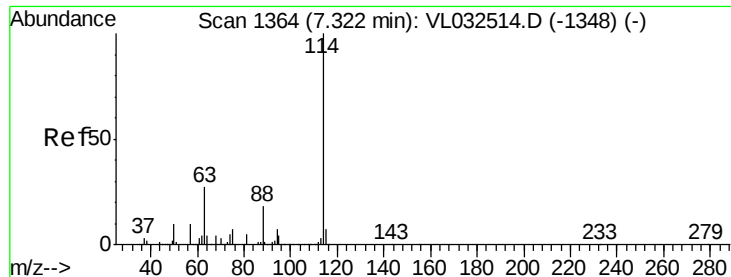
Tgt Ion:	57	Resp:	192544
Ion	Ratio	Lower	Upper
57	100		
41	92.4	69.0	103.4
43	85.9	172.1	258.1#
56	58.3	42.2	63.2



#29
Chloroform
Concen: 0.997 ppbv
RT: 5.87 min Scan# 913
Delta R.T. -0.02 min
Lab File: VL032565.D
Acq: 28 Sep 2018 1:25

Tgt Ion:	83	Resp:	180240
Ion	Ratio	Lower	Upper
83	100		
85	63.2	52.5	78.7

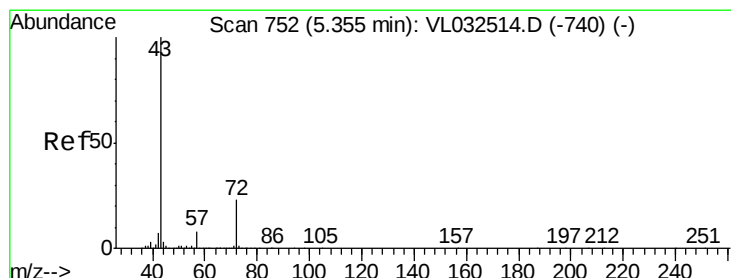
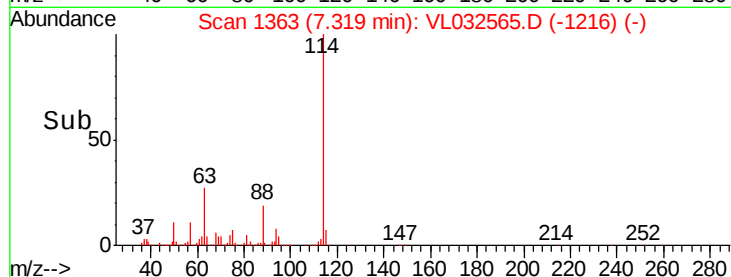
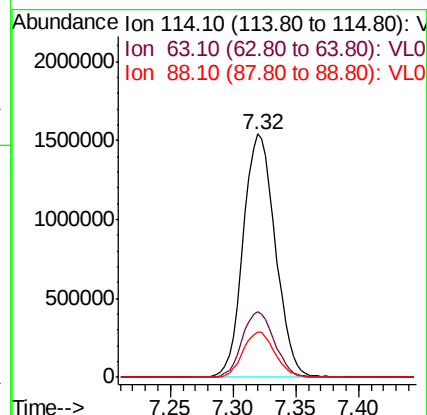
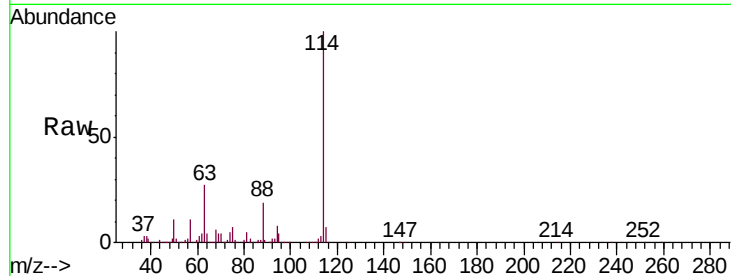




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.32 min Scan# 1363
 Delta R.T. -0.03 min
 Lab File: VL032565.D
 Acq: 28 Sep 2018 1:25

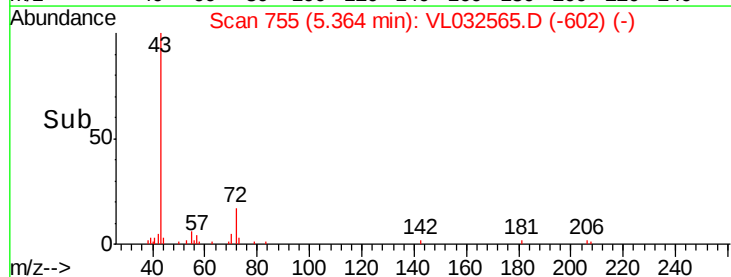
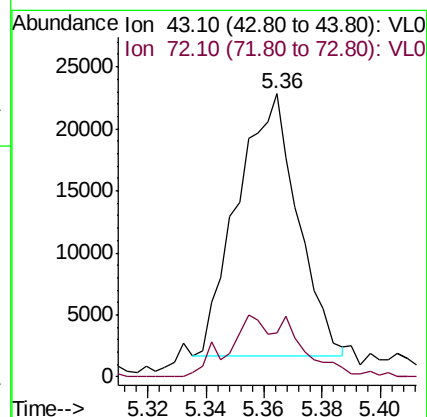
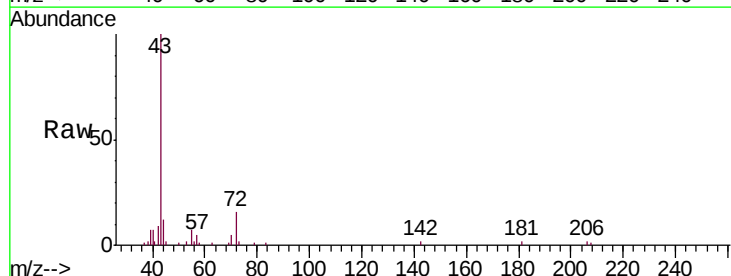
Instrument :
 MSVOA_L
 ClientSampleId :
 BFB

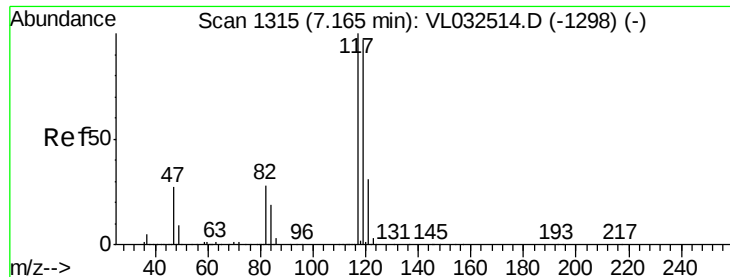
Tgt Ion:114 Resp: 2753499
 Ion Ratio Lower Upper
 114 100
 63 27.2 22.2 33.4
 88 18.6 15.0 22.4



#34
 2-Butanone
 Concen: 0.186 ppbv
 RT: 5.36 min Scan# 755
 Delta R.T. -0.01 min
 Lab File: VL032565.D
 Acq: 28 Sep 2018 1:25

Tgt Ion: 43 Resp: 30507
 Ion Ratio Lower Upper
 43 100
 72 27.5 17.8 26.6#





#35

Carbon Tetrachloride

Concen: 0.180 ppbv

RT: 7.16 min Scan# 1314

Delta R.T. -0.02 min

Lab File: VL032565.D

Acq: 28 Sep 2018 1:25

Instrument :

MSVOA_L

ClientSampleId :

BFB

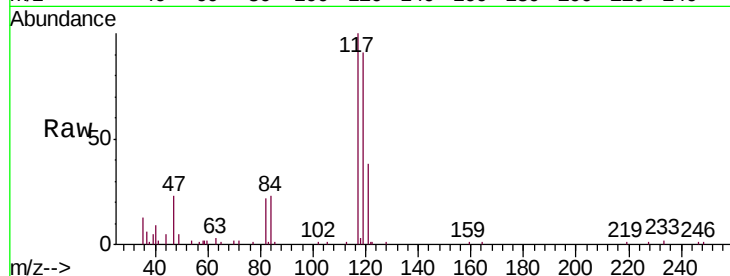
Tgt Ion:117 Resp: 34388

Ion Ratio Lower Upper

117 100

119 90.2 76.6 115.0

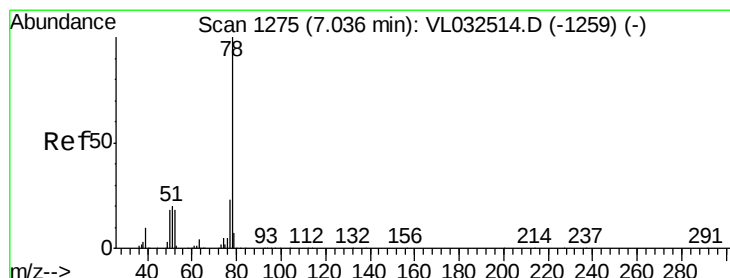
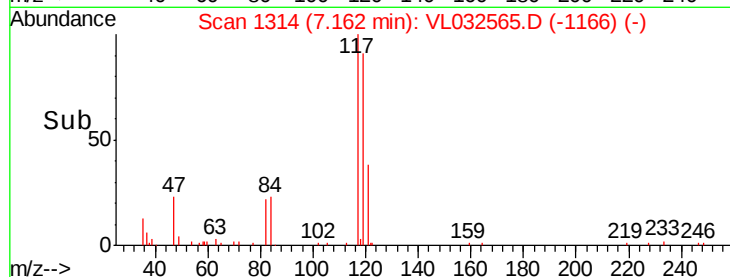
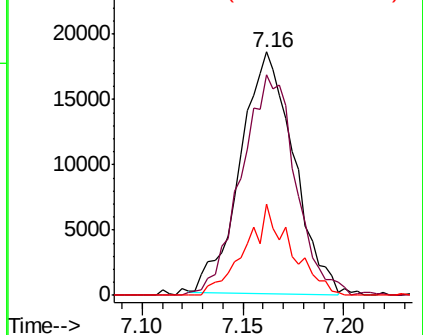
121 37.9 24.6 36.8#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.101 ppbv

RT: 7.04 min Scan# 1275

Delta R.T. -0.02 min

Lab File: VL032565.D

Acq: 28 Sep 2018 1:25

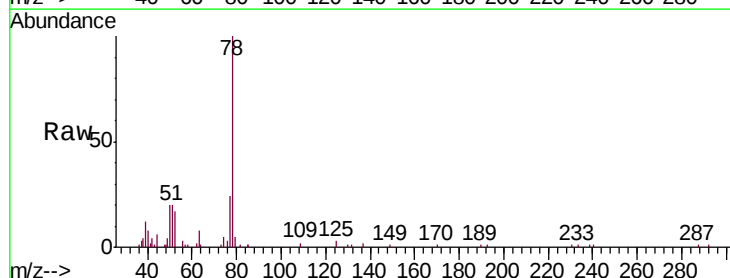
Tgt Ion: 78 Resp: 22533

Ion Ratio Lower Upper

78 100

77 23.6 18.4 27.6

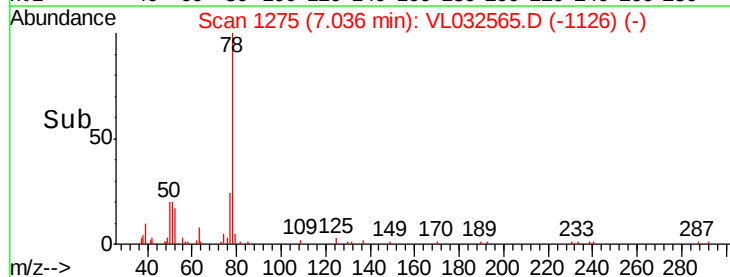
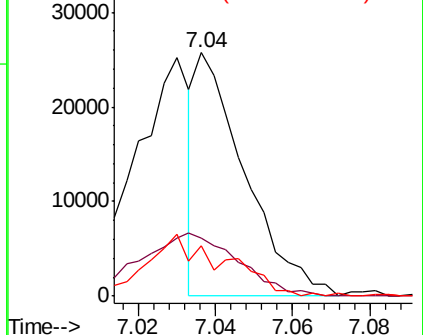
50 19.4 14.4 21.6

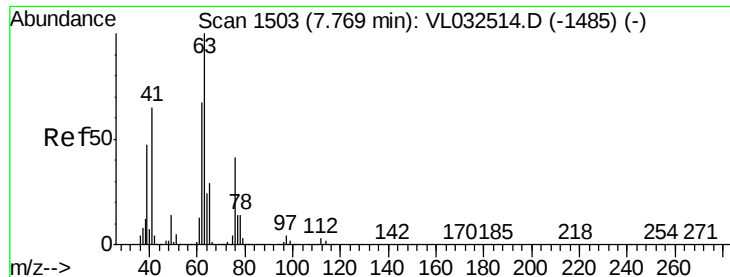


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#39

1,2-Dichloropropane

Concen: 7.421 ppbv

RT: 7.32 min Scan# 1363

Delta R.T. -0.47 min

Lab File: VL032565.D

Acq: 28 Sep 2018 1:25

Instrument :

MSVOA_L

ClientSampled :

BFB

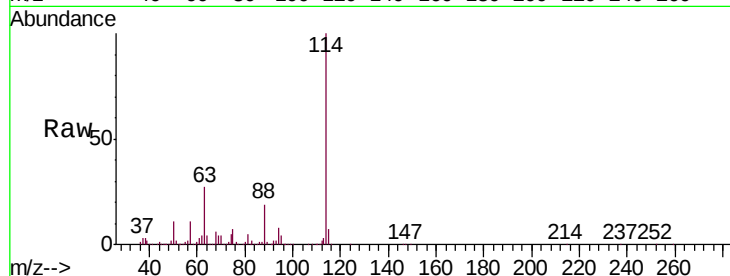
Tgt Ion: 63 Resp: 744178

Ion Ratio Lower Upper

63 100

41 0.0 55.4 83.0#

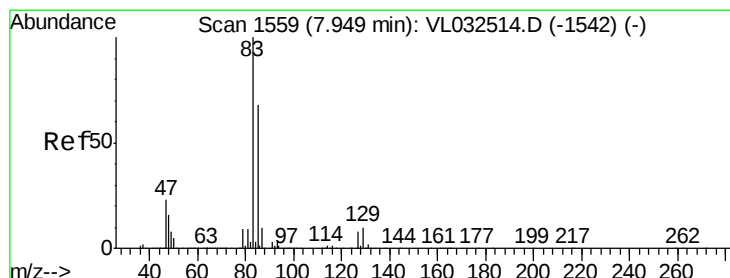
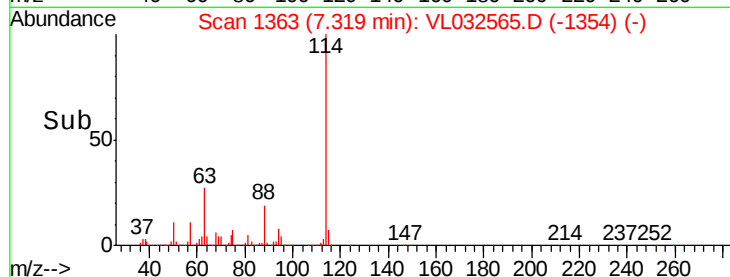
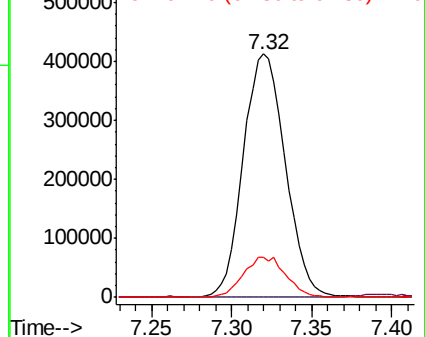
62 16.4 55.4 83.0#



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



#42

Bromodichloromethane

Concen: 0.035 ppbv

RT: 7.94 min Scan# 1557

Delta R.T. -0.03 min

Lab File: VL032565.D

Acq: 28 Sep 2018 1:25

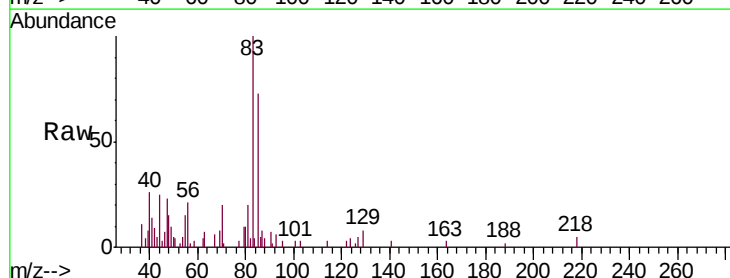
Tgt Ion: 83 Resp: 7107

Ion Ratio Lower Upper

83 100

85 58.0 51.1 76.7

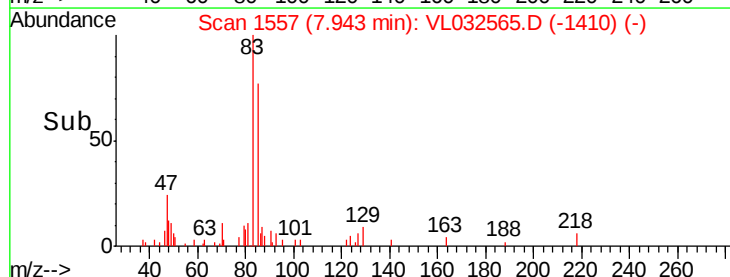
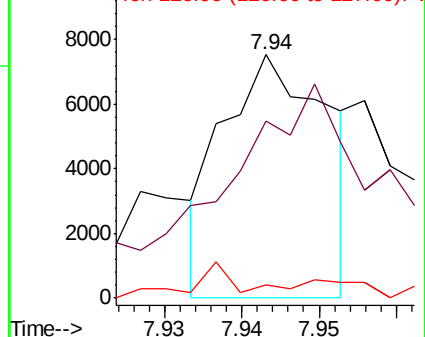
127 5.2 5.8 8.8#

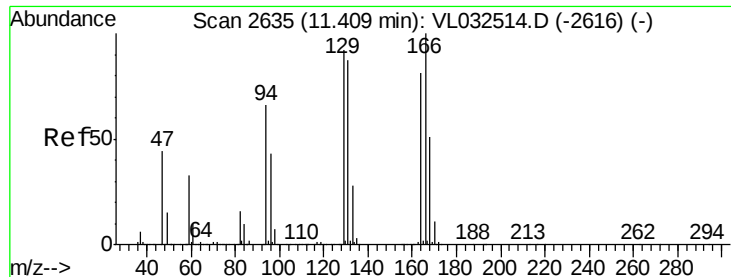


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#52

Tetrachloroethene

Concen: 0.434 ppbv

RT: 11.41 min Scan# 2636

Delta R.T. -0.02 min

Lab File: VL032565.D

Acq: 28 Sep 2018 1:25

Instrument :

MSVOA_L

ClientSampleId :

BFB

Tgt Ion:164 Resp: 33631

Ion Ratio Lower Upper

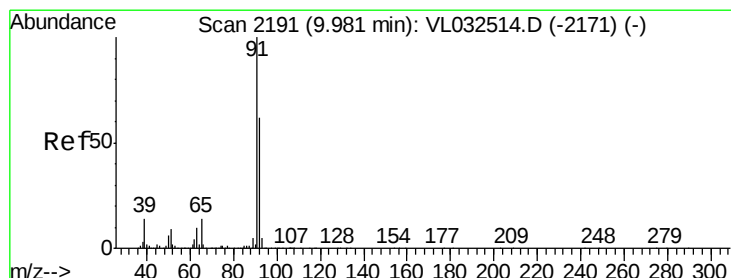
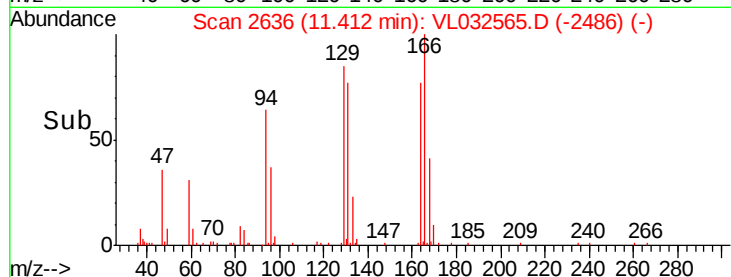
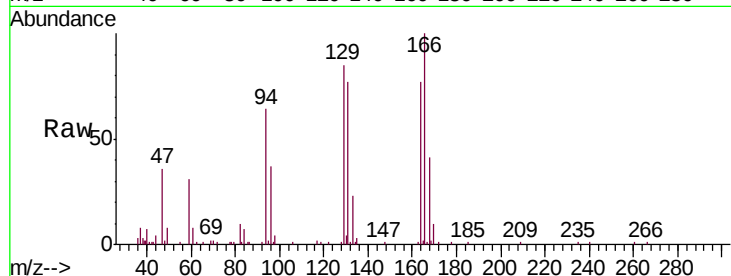
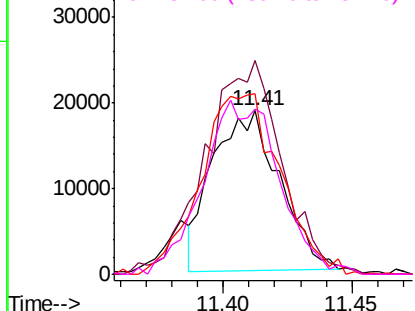
164 100

166 129.9 100.6 150.8

129 104.9 89.9 134.9

131 100.8 85.9 128.9

Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 4.183 ppbv

RT: 9.98 min Scan# 2190

Delta R.T. -0.03 min

Lab File: VL032565.D

Acq: 28 Sep 2018 1:25

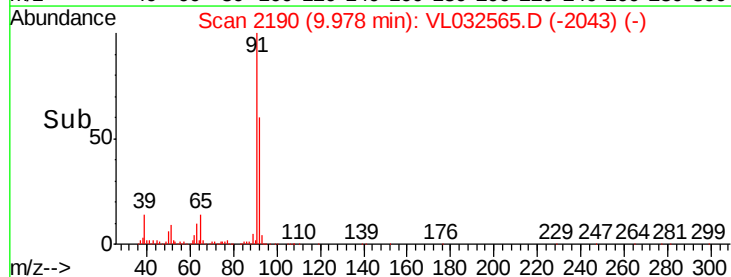
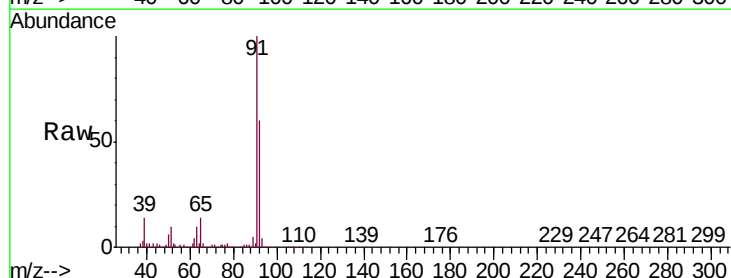
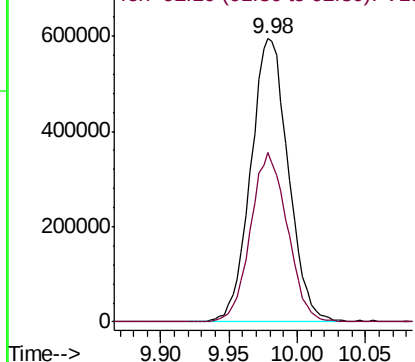
Tgt Ion: 91 Resp: 1134266

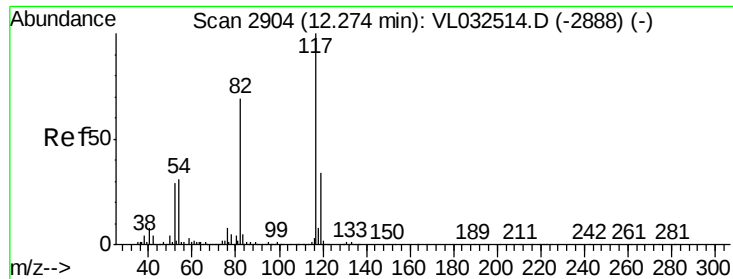
Ion Ratio Lower Upper

91 100

92 58.8 48.1 72.1

Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0

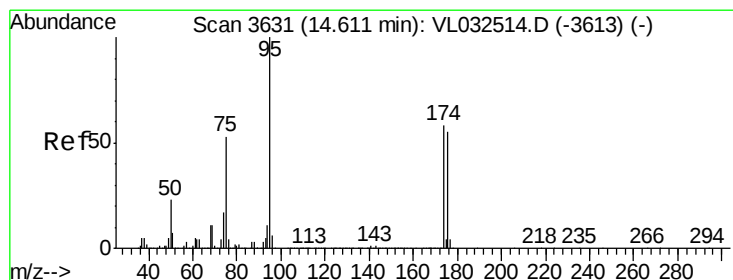
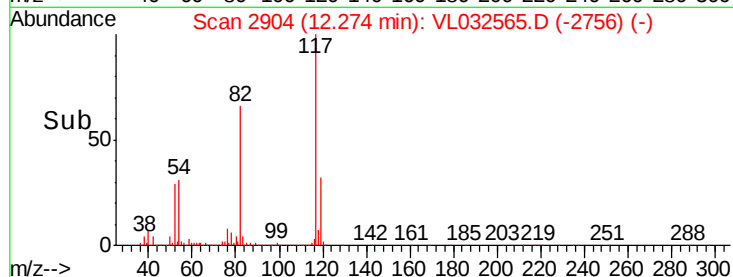
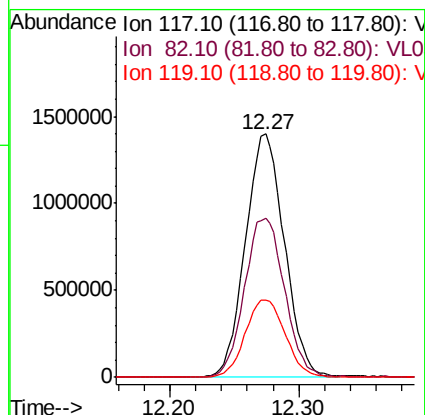
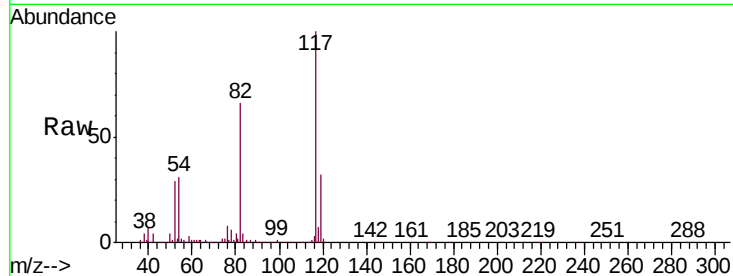




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.27 min Scan# 2904
Delta R.T. -0.02 min
Lab File: VL032565.D
Acq: 28 Sep 2018 1:25

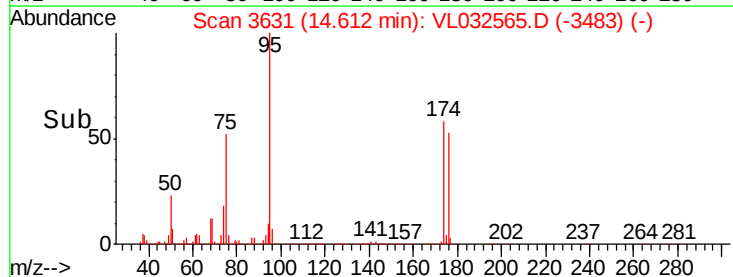
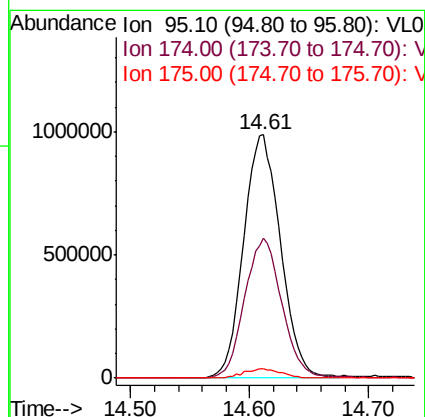
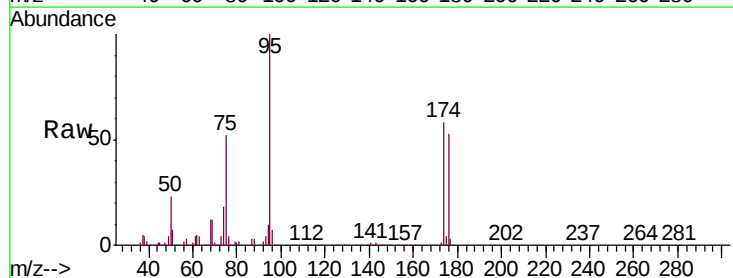
Instrument :
MSVOA_L
ClientSampleId :
BFB

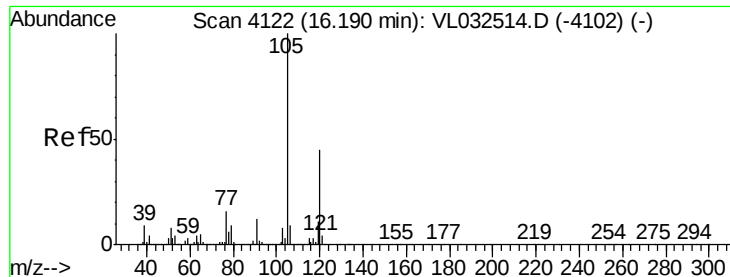
Tgt Ion: 117 Resp: 2952717
Ion Ratio Lower Upper
117 100
82 67.2 53.0 79.6
119 32.6 45.9 68.9



#68
1-Bromo-4-Fluorobenzene
Concen: 9.551 ppbv
RT: 14.61 min Scan# 3631
Delta R.T. -0.02 min
Lab File: VL032565.D
Acq: 28 Sep 2018 1:25

Tgt Ion: 95 Resp: 2126818
Ion Ratio Lower Upper
95 100
174 58.5 46.3 69.5
175 3.9 3.4 5.0





#73

1,3,5-Trimethylbenzene

Concen: 0.045 ppbv

RT: 16.19 min Scan# 4122

Delta R.T. -0.03 min

Lab File: VL032565.D

Acq: 28 Sep 2018 1:25

Instrument :

MSVOA_L

ClientSampleId :

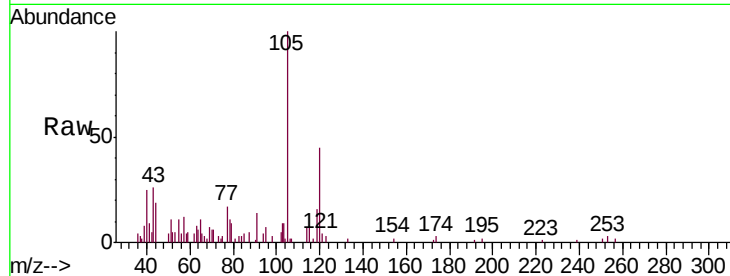
BFB

Tgt Ion:105 Resp: 14851

Ion Ratio Lower Upper

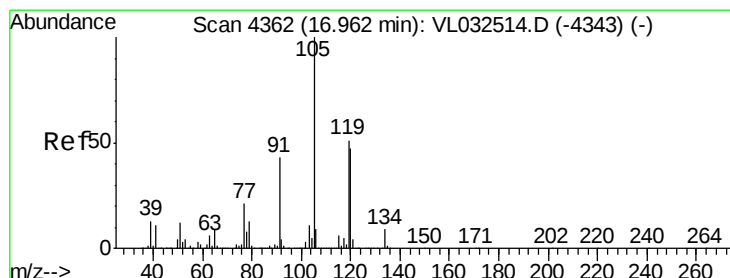
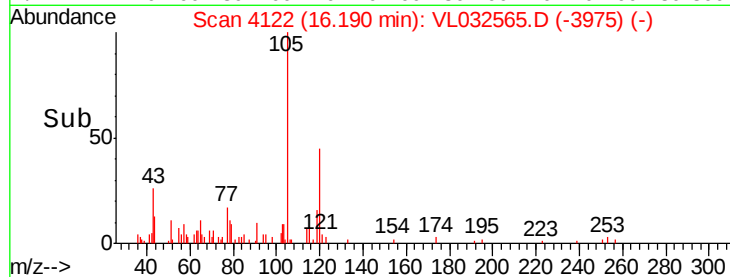
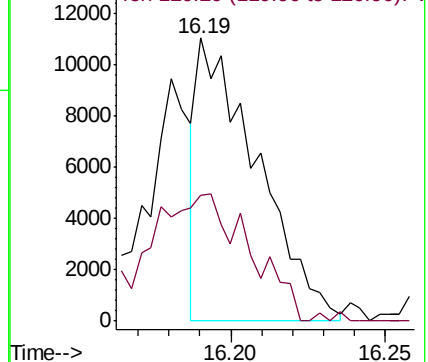
105 100

120 42.2 37.9 56.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.315 ppbv

RT: 16.97 min Scan# 4363

Delta R.T. -0.02 min

Lab File: VL032565.D

Acq: 28 Sep 2018 1:25

Tgt Ion:105 Resp: 111053

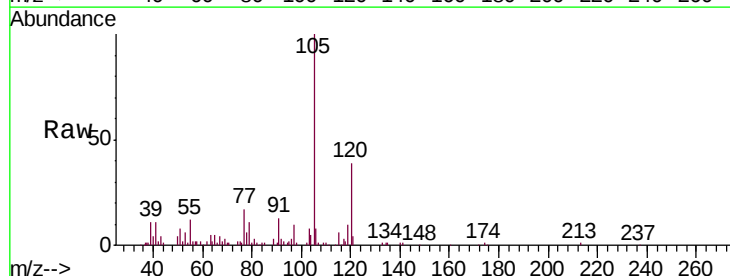
Ion Ratio Lower Upper

105 100

120 39.3 37.8 56.8

91 11.9 41.4 62.0#

77 15.7 18.6 28.0#

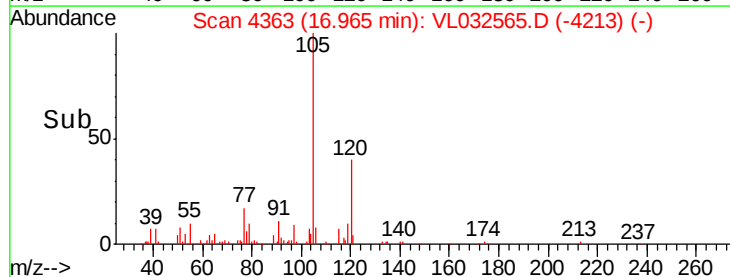
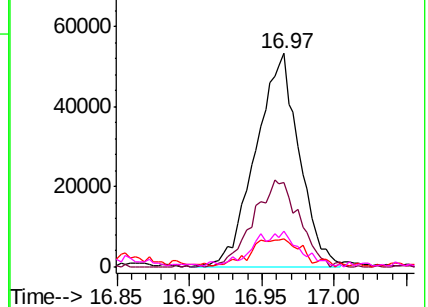


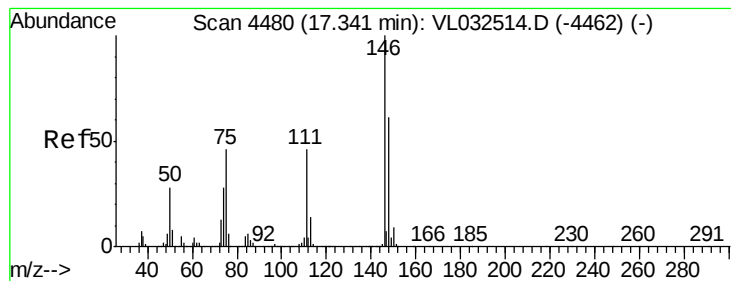
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#76

1,4-Dichlorobenzene

Concen: 0.094 ppbv

RT: 17.33 min Scan# 4478

Delta R.T. -0.03 min

Lab File: VL032565.D

Acq: 28 Sep 2018 1:25

Instrument :

MSVOA_L

ClientSampleId :

BFB

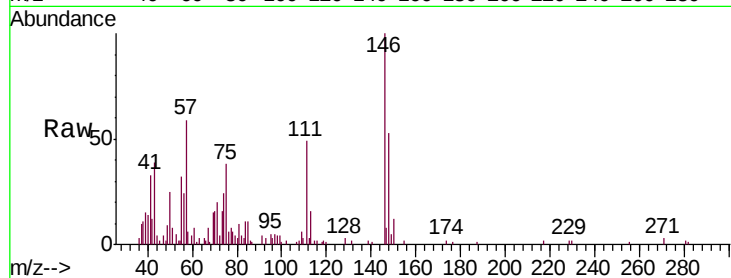
Tgt Ion:146 Resp: 18622

Ion Ratio Lower Upper

146 100

111 105.4 23.4 70.2#

148 0.0 32.0 96.2#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

