

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL081219\
 Data File : VL034103.D
 Acq On : 12 Aug 2019 14:33
 Operator : SY/AP
 Sample : K4185-01
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BP-VPB203-AIR-UW-20190805

Quant Time: Aug 13 04:04:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 05 17:09:48 2019
 QLast Update : Mon Aug 05 17:09:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1064441	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2055097	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2142892	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1844281	10.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.10%

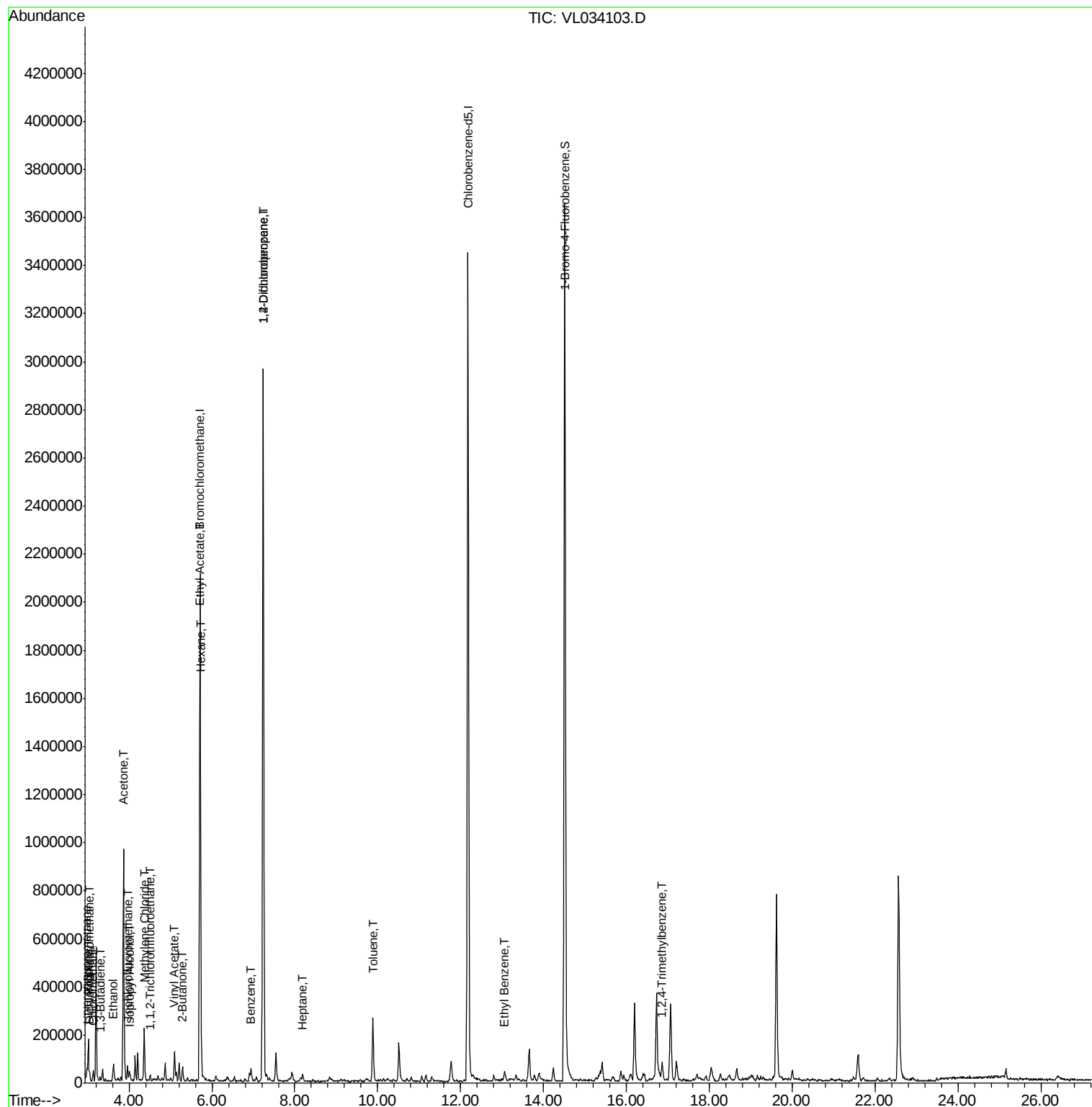
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	30742	0.235	ppbv	100
3) Chlorodifluoromethane	2.98	51	45911	0.373	ppbv #	90
4) Chloromethane	3.14	50	35524	0.448	ppbv #	88
9) Propene	3.02	41	22642	0.312	ppbv	93
10) Heptane	8.18	43	6399	0.034	ppbv #	30
11) Trichlorofluoromethane	3.97	101	33631	0.217	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.51	101	4316	0.039	ppbv #	12
13) Ethanol	3.62	45	30253	1.479	ppbv #	38
15) Acetone	3.86	43	923795	6.073	ppbv	96
16) 1,3-Butadiene	3.32	39	2290	0.031	ppbv #	10
19) Isopropyl Alcohol	4.00	45	17949	0.152	ppbv #	44
20) Methylene Chloride	4.37	84	65506	1.436	ppbv	94
23) Vinyl Acetate	5.10	43	66358	0.263	ppbv #	82
25) Ethyl Acetate	5.73	43	75942	0.254	ppbv #	87
26) Hexane	5.73	57	86368	0.681	ppbv #	48
34) 2-Butanone	5.28	43	30314	0.159	ppbv #	56
36) Benzene	6.94	78	32862	0.141	ppbv #	93
39) 1,2-Dichloropropane	7.24	63	612154	6.495	ppbv #	22
53) Toluene	9.89	91	178676	0.663	ppbv	99
58) Ethyl Benzene	13.06	91	16366	0.045	ppbv	96
74) 1,2,4-Trimethylbenzene	16.86	105	28223	0.083	ppbv #	58

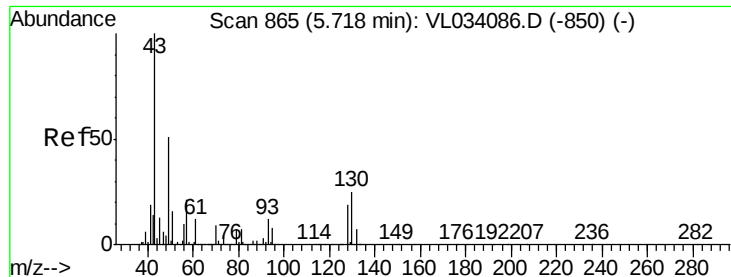
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Aug 05 17:09:48 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 863

Delta R.T. -0.01 min

Lab File: VL034103.D

Acq: 12 Aug 2019 14:33

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB203-AIR-UW-20190805

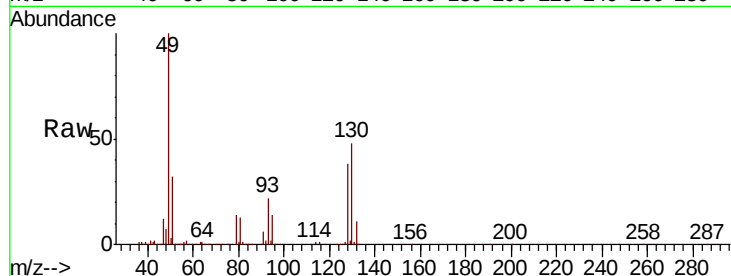
Tgt Ion: 49 Resp: 1064441

Ion Ratio Lower Upper

49 100

128 38.6 19.5 58.5

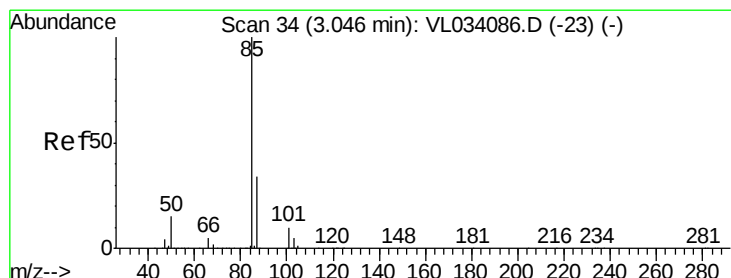
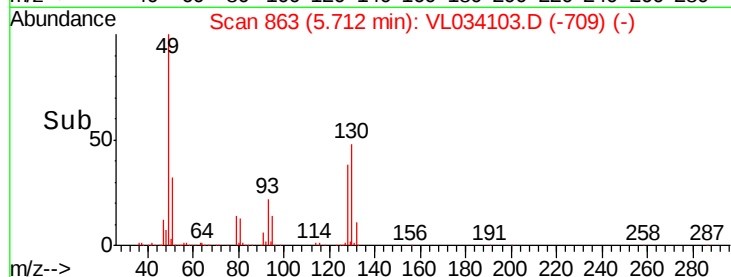
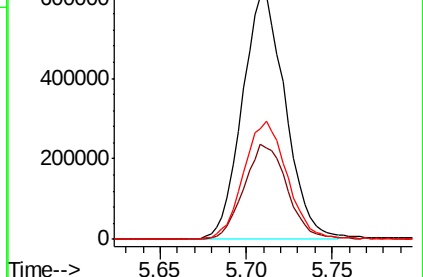
130 48.4 25.4 76.0



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: 0.235 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL034103.D

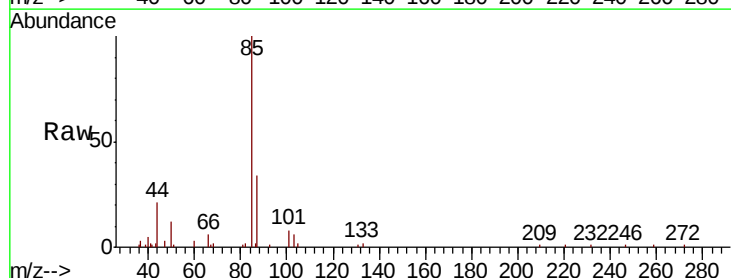
Acq: 12 Aug 2019 14:33

Tgt Ion: 85 Resp: 30742

Ion Ratio Lower Upper

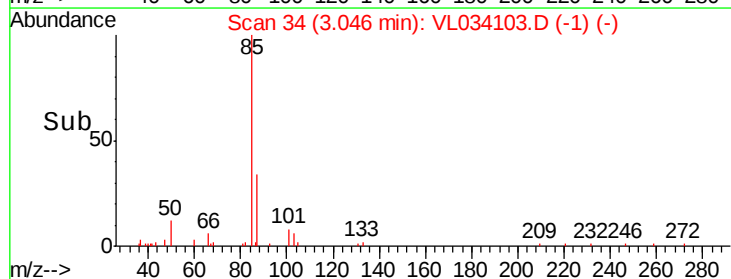
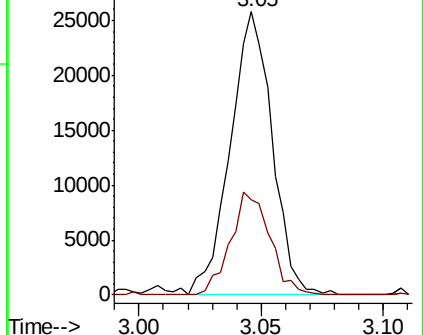
85 100

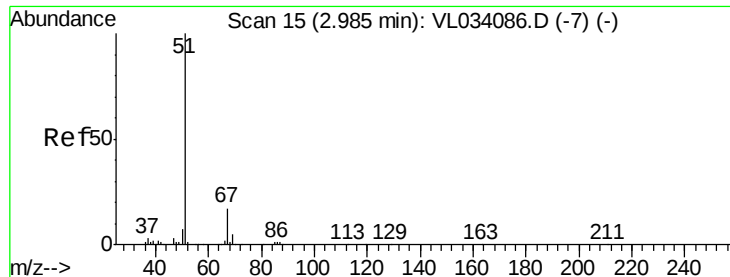
87 33.7 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.373 ppbv

RT: 2.98 min Scan# 14

Delta R.T. -0.00 min

Lab File: VL034103.D

Acq: 12 Aug 2019 14:33

Instrument :

MSVOA_L

ClientSampleId :

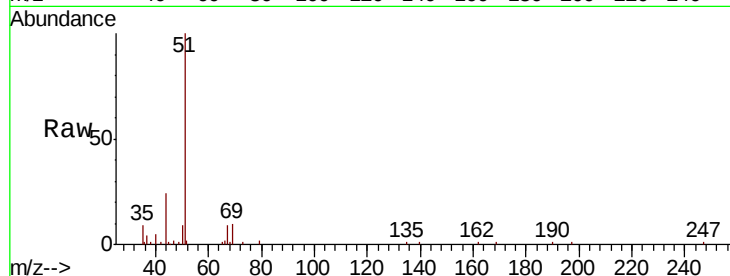
BP-VPB203-AIR-UW-20190805

Tgt Ion: 51 Resp: 45911

Ion Ratio Lower Upper

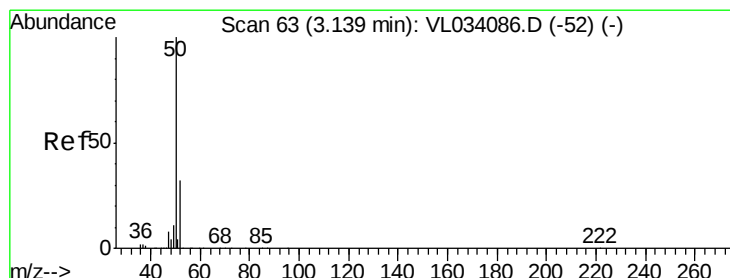
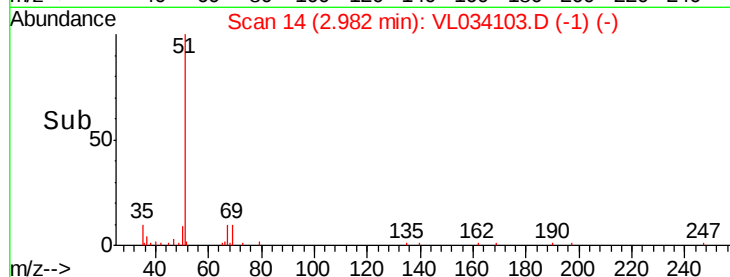
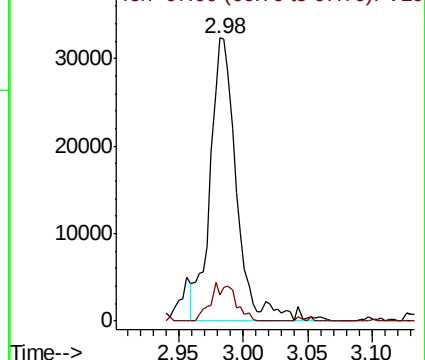
51 100

67 12.4 13.3 19.9#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.448 ppbv

RT: 3.14 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL034103.D

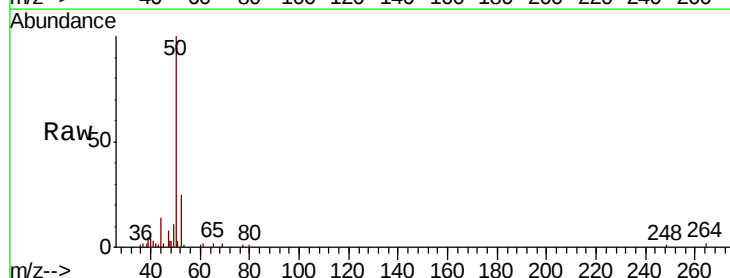
Acq: 12 Aug 2019 14:33

Tgt Ion: 50 Resp: 35524

Ion Ratio Lower Upper

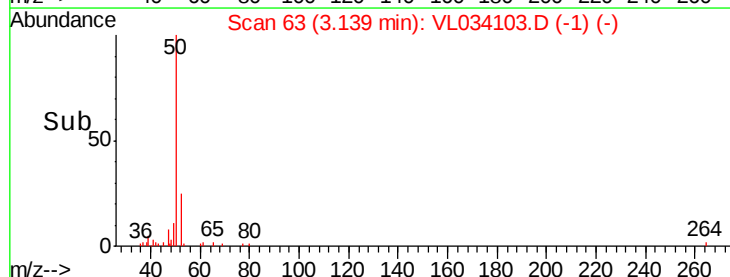
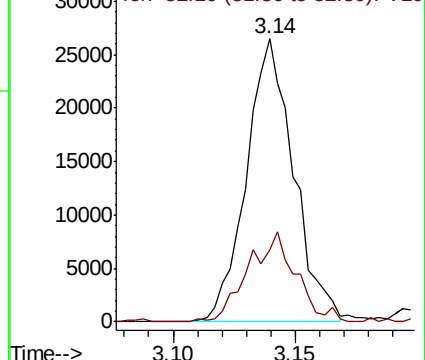
50 100

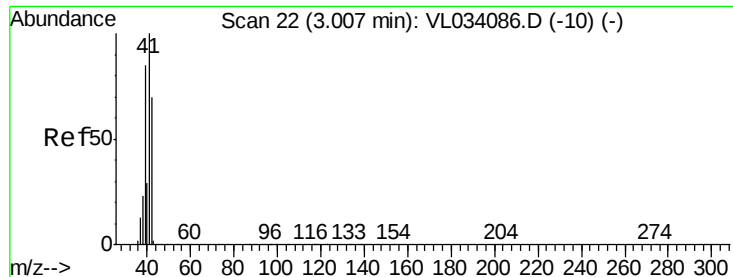
52 25.5 25.7 38.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.312 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.01 min

Lab File: VL034103.D

Acq: 12 Aug 2019 14:33

Instrument :

MSVOA_L

ClientSampleId :

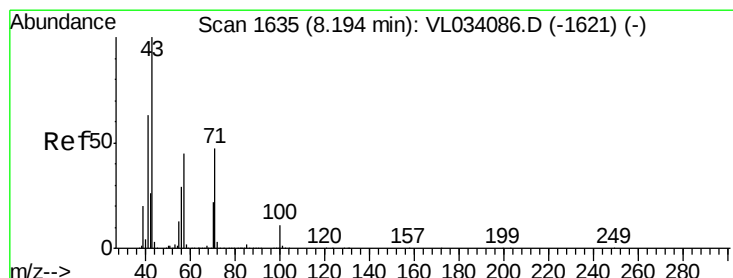
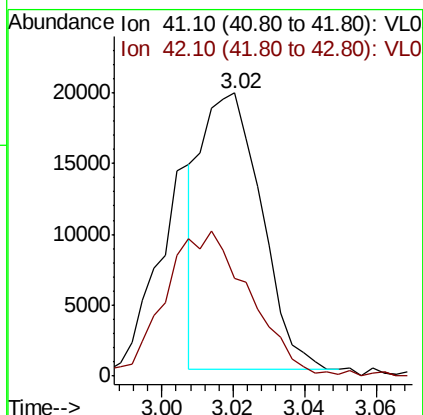
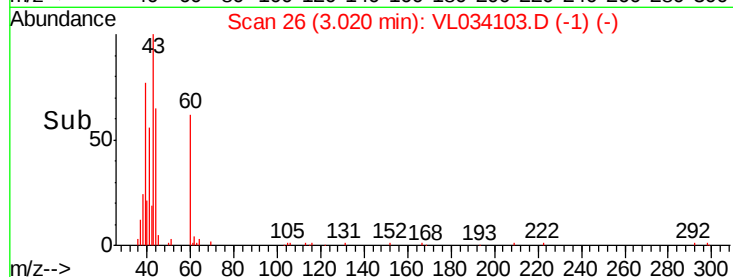
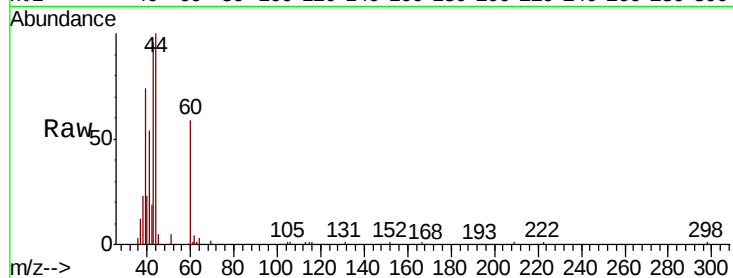
BP-VPB203-AIR-UW-20190805

Tgt Ion: 41 Resp: 22642

Ion Ratio Lower Upper

41 100

42 75.2 55.8 83.6



#10

Heptane

Concen: 0.034 ppbv

RT: 8.18 min Scan# 1631

Delta R.T. -0.01 min

Lab File: VL034103.D

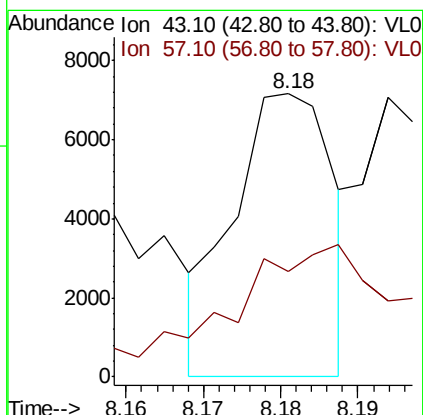
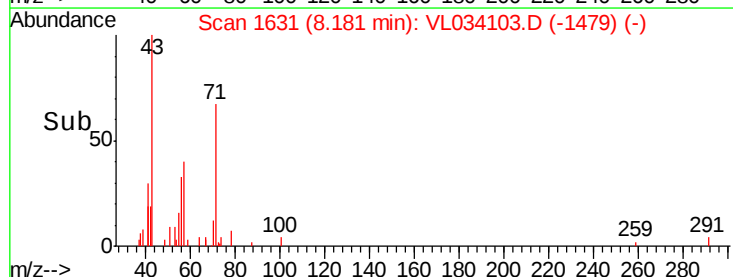
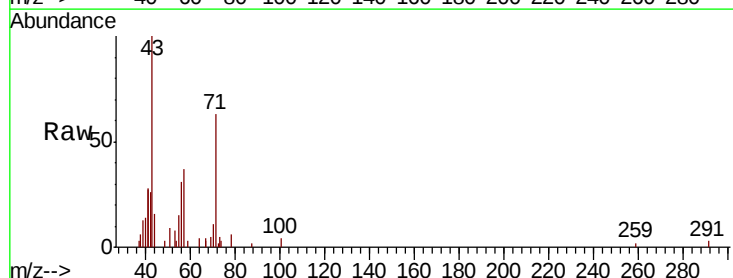
Acq: 12 Aug 2019 14:33

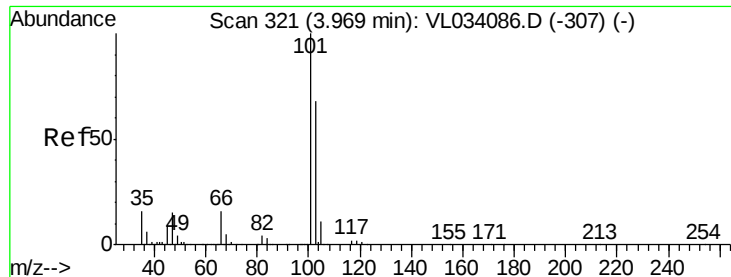
Tgt Ion: 43 Resp: 6399

Ion Ratio Lower Upper

43 100

57 0.0 37.2 55.8#





#11

Trichlorofluoromethane

Concen: 0.217 ppbv

RT: 3.97 min Scan# 321

Delta R.T. 0.00 min

Lab File: VL034103.D

Acq: 12 Aug 2019 14:33

Instrument :

MSVOA_L

ClientSampleId :

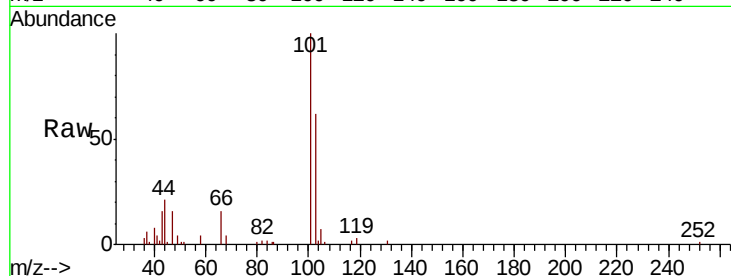
BP-VPB203-AIR-UW-20190805

Tgt Ion:101 Resp: 33631

Ion Ratio Lower Upper

101 100

103 62.0 54.3 81.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

25000

20000

15000

10000

5000

0

Time--> 3.90

3.95

3.97

4.00

4.05

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15.80

15.85

15.90

15.95

16.00

16.05

16.10

16.15

16.20

16.25

16.30

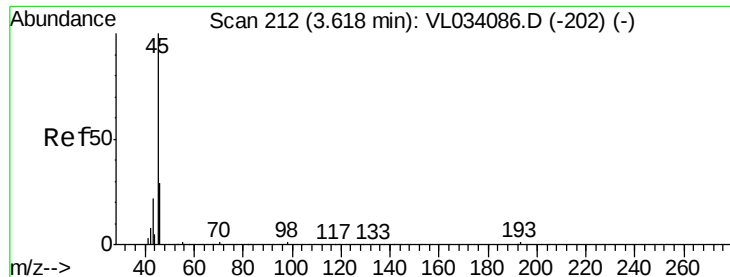
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16.40

16.45

16.50

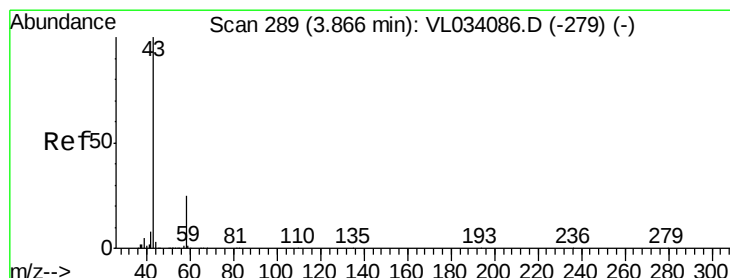
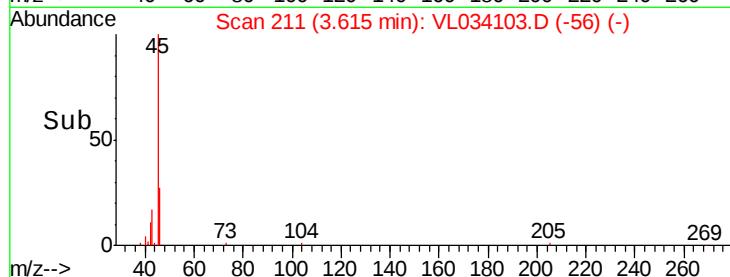
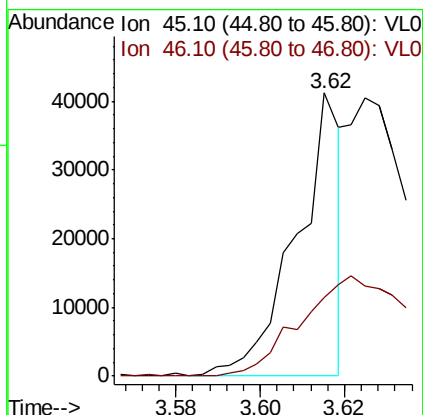
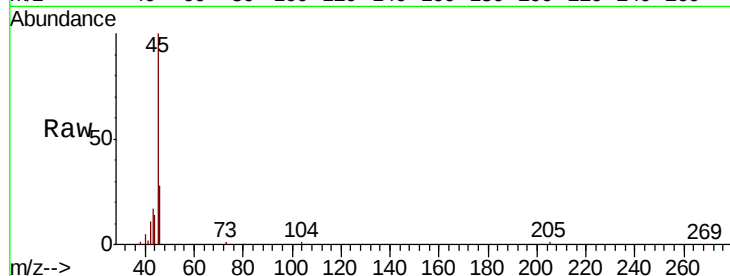
16.55



#13
Ethanol
Concen: 1.479 ppbv
RT: 3.62 min Scan# 211
Delta R.T. -0.00 min
Lab File: VL034103.D
Acq: 12 Aug 2019 14:33

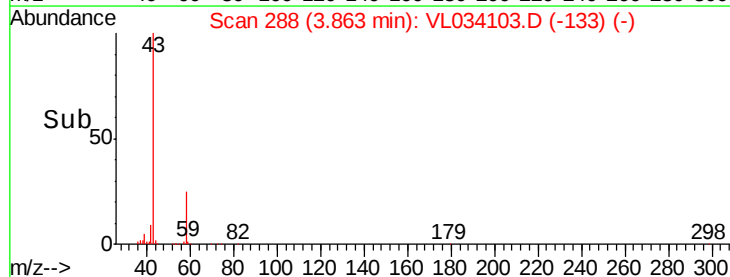
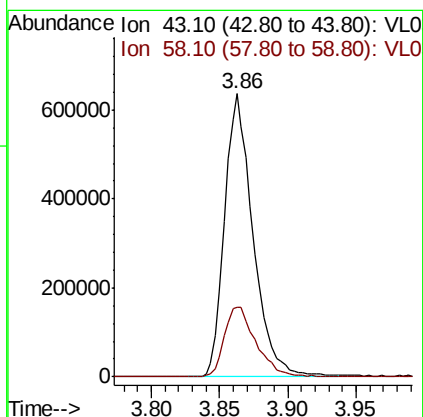
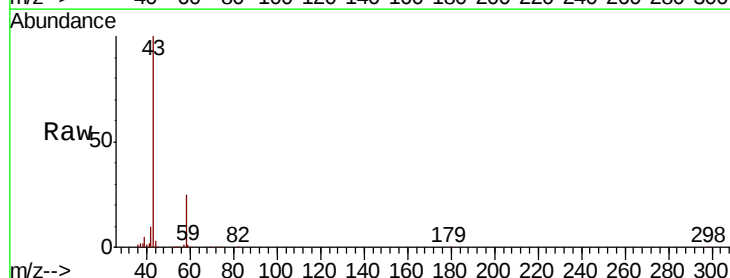
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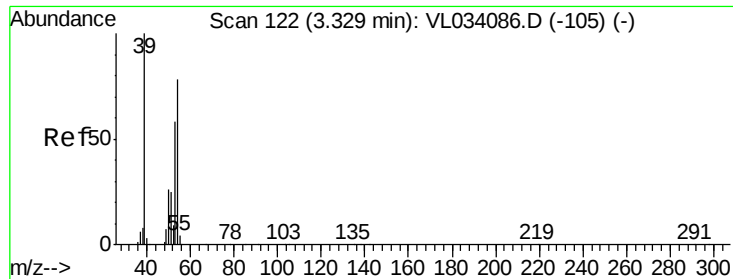
Tgt Ion: 45 Resp: 30253
Ion Ratio Lower Upper
45 100
46 0.0 14.9 59.5#



#15
Acetone
Concen: 6.073 ppbv
RT: 3.86 min Scan# 288
Delta R.T. -0.00 min
Lab File: VL034103.D
Acq: 12 Aug 2019 14:33

Tgt Ion: 43 Resp: 923795
Ion Ratio Lower Upper
43 100
58 27.7 20.6 30.8

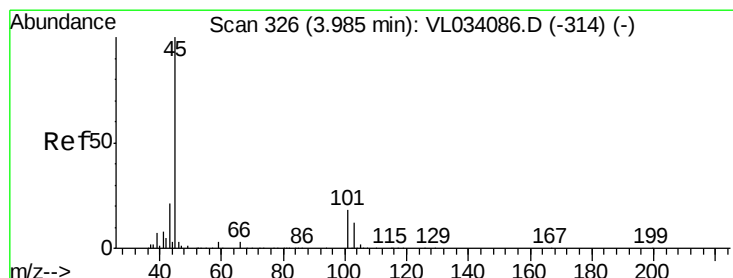
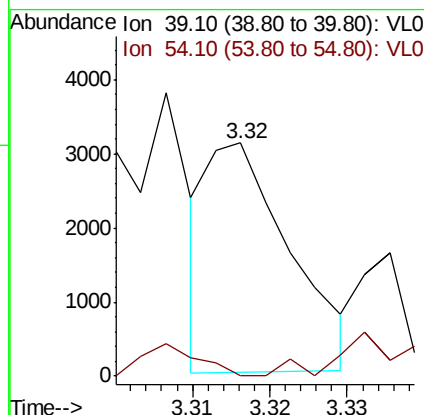
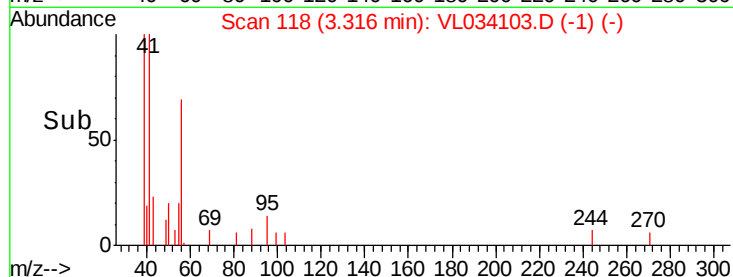
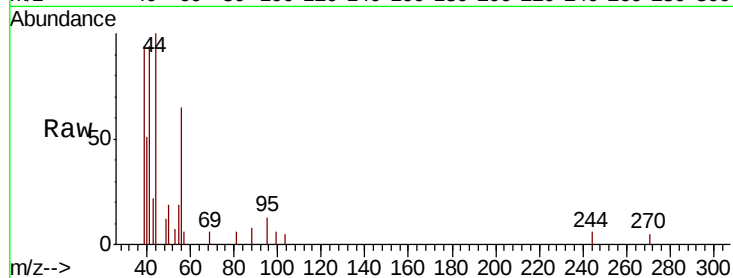




#16
1,3-Butadiene
Concen: 0.031 ppbv
RT: 3.32 min Scan# 118
Delta R.T. -0.01 min
Lab File: VL034103.D
Acq: 12 Aug 2019 14:33

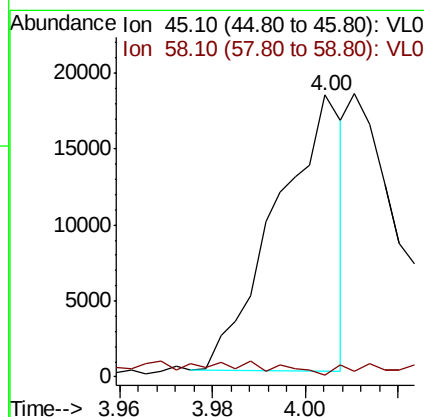
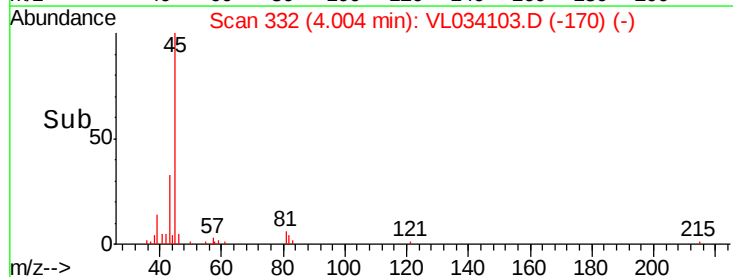
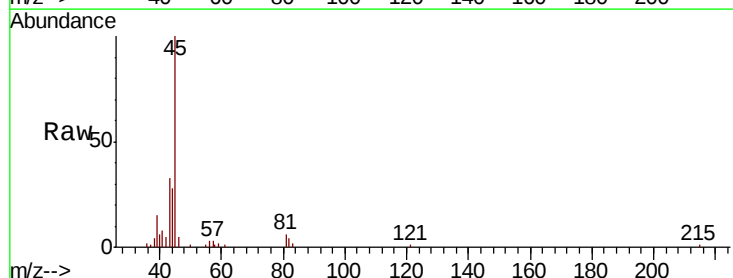
Instrument :
MSVOA_L
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BP-VPB203-AIR-UW-20190805

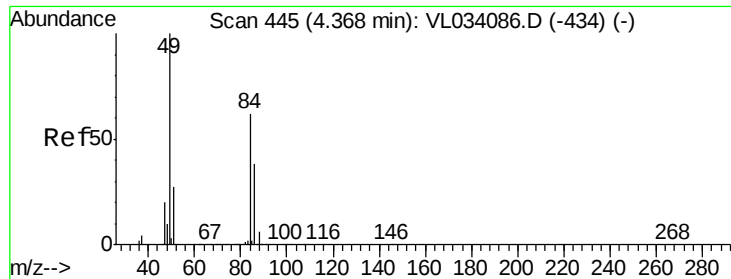
Tgt Ion: 39 Resp: 2290
Ion Ratio Lower Upper
39 100
54 0.0 62.7 94.1#



#19
Isopropyl Alcohol
Concen: 0.152 ppbv
RT: 4.00 min Scan# 332
Delta R.T. 0.02 min
Lab File: VL034103.D
Acq: 12 Aug 2019 14:33

Tgt Ion: 45 Resp: 17949
Ion Ratio Lower Upper
45 100
58 0.0 24.6 37.0#

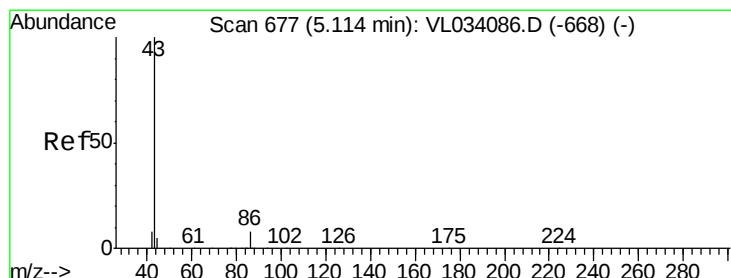
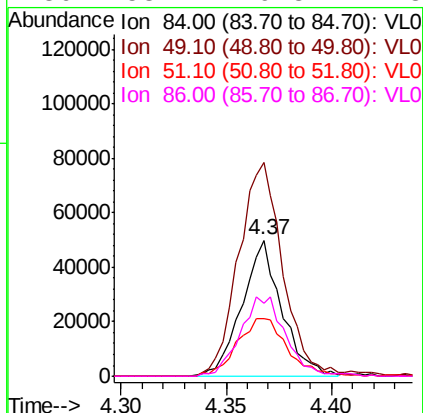
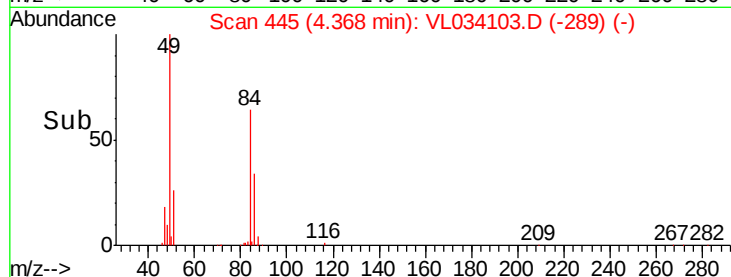
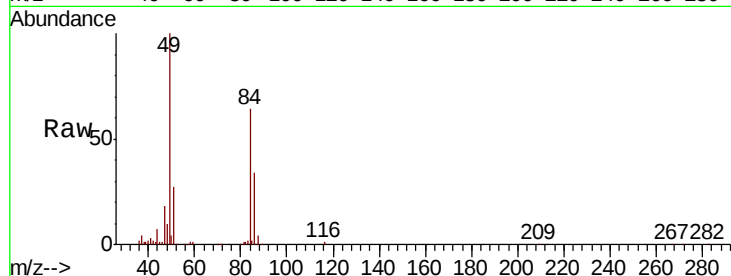




#20
Methylene Chloride
Concen: 1.436 ppbv
RT: 4.37 min Scan# 445
Delta R.T. 0.00 min
Lab File: VL034103.D
Acq: 12 Aug 2019 14:33

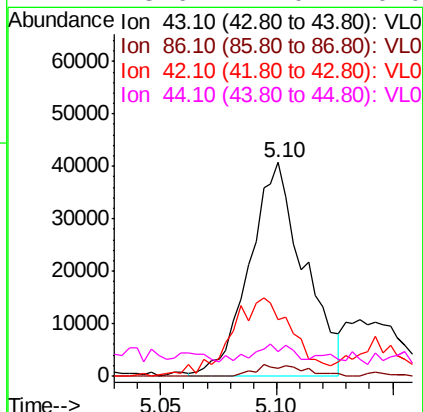
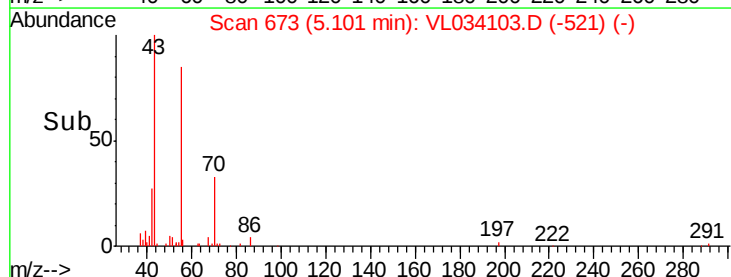
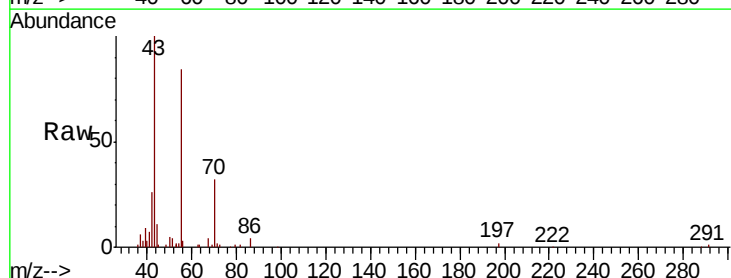
Instrument :
MSVOA_L
ClientSampleId :
BP-VPB203-AIR-UW-20190805

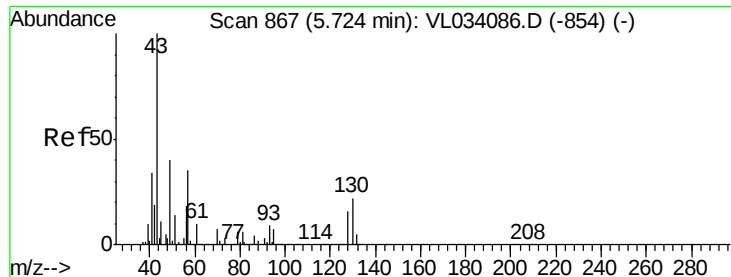
Tgt Ion:	84	Resp:	65506
Ion	Ratio	Lower	Upper
84	100		
49	156.7	129.7	194.5
51	41.9	35.8	53.8
86	53.7	49.8	74.8



#23
Vinyl Acetate
Concen: 0.263 ppbv
RT: 5.10 min Scan# 673
Delta R.T. -0.01 min
Lab File: VL034103.D
Acq: 12 Aug 2019 14:33

Tgt Ion:	43	Resp:	66358
Ion	Ratio	Lower	Upper
43	100		
86	3.6	5.4	8.0#
42	21.2	7.9	11.9#
44	3.6	4.0	6.0#





#25

Ethyl Acetate

Concen: 0.254 ppbv

RT: 5.73 min Scan# 868

Delta R.T. 0.00 min

Lab File: VL034103.D

Acq: 12 Aug 2019 14:33

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB203-AIR-UW-20190805

Tgt Ion: 43 Resp: 75942

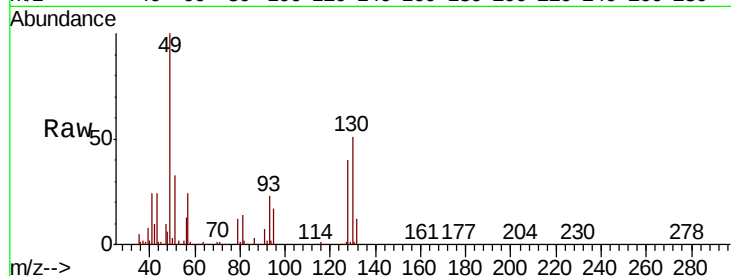
Ion Ratio Lower Upper

43 100

45 5.6 8.4 12.6#

61 3.1 7.3 10.9#

70 3.6 5.8 8.6#

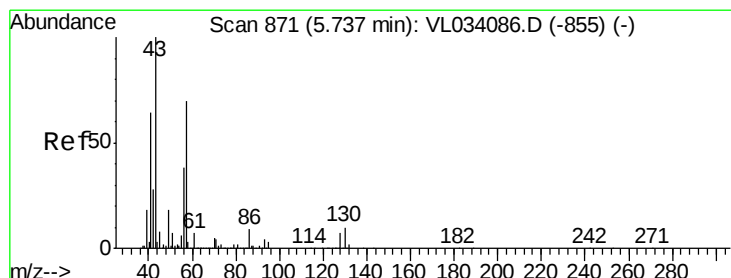
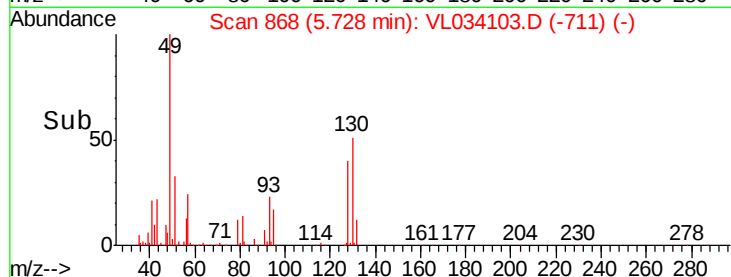
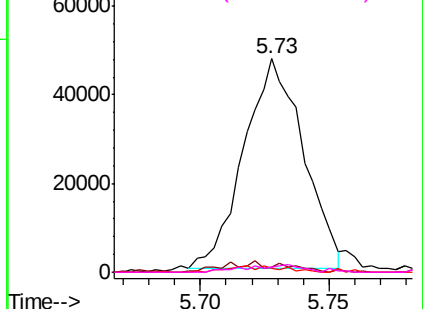


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.681 ppbv

RT: 5.73 min Scan# 869

Delta R.T. -0.01 min

Lab File: VL034103.D

Acq: 12 Aug 2019 14:33

Tgt Ion: 57 Resp: 86368

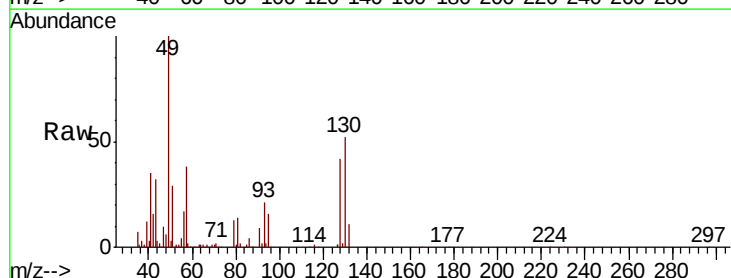
Ion Ratio Lower Upper

57 100

41 96.6 75.7 113.5

43 97.6 189.8 284.8#

56 53.3 42.7 64.1

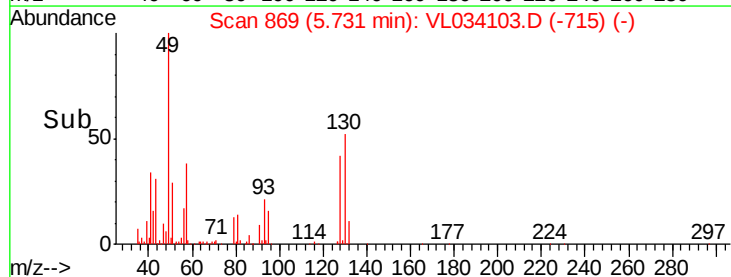
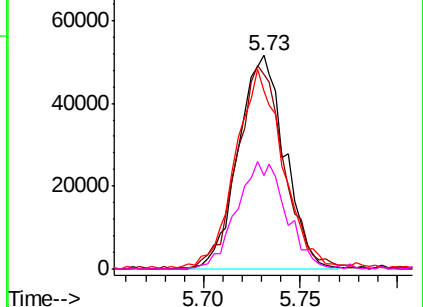


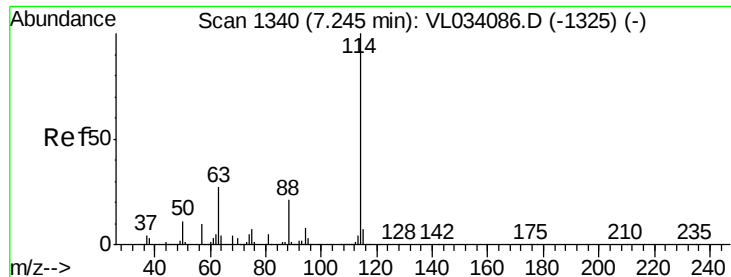
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

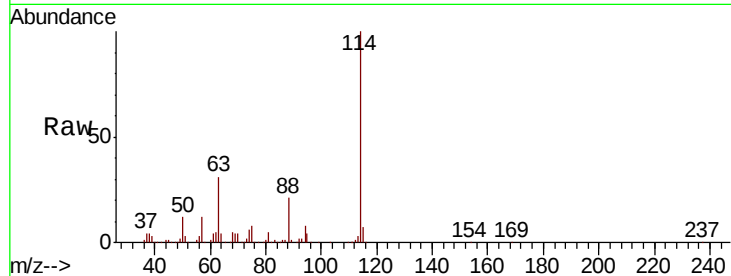




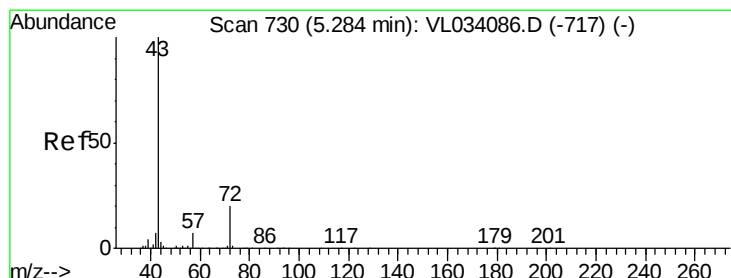
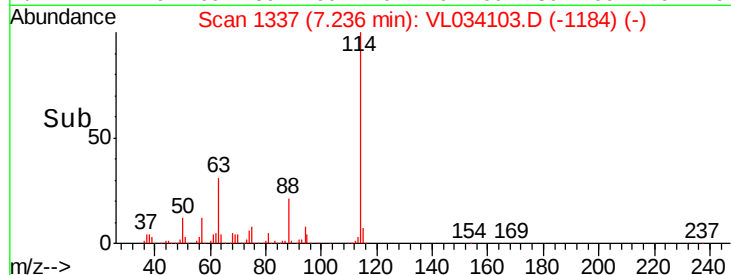
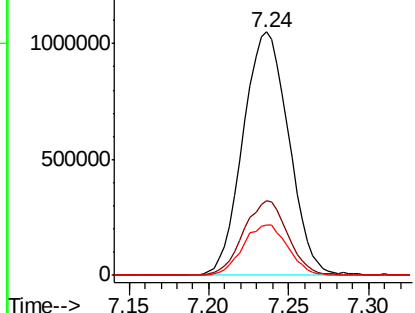
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1337
 Delta R.T. -0.01 min
 Lab File: VL034103.D
 Acq: 12 Aug 2019 14:33

Instrument :
 MSVOA_L
 ClientSampleId :
 BP-VPB203-AIR-UW-20190805

Tgt Ion:114 Resp: 2055097
 Ion Ratio Lower Upper
 114 100
 63 30.0 22.5 33.7
 88 20.4 15.7 23.5

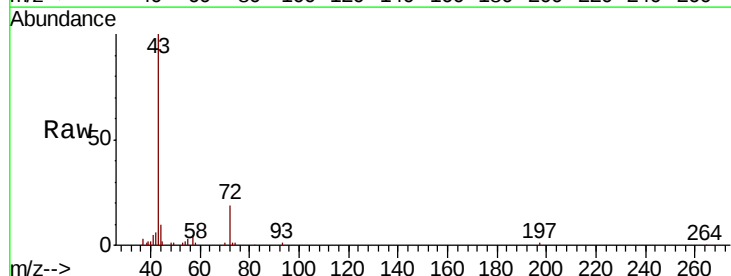


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

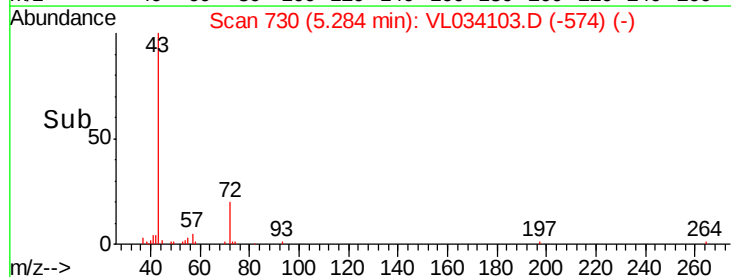
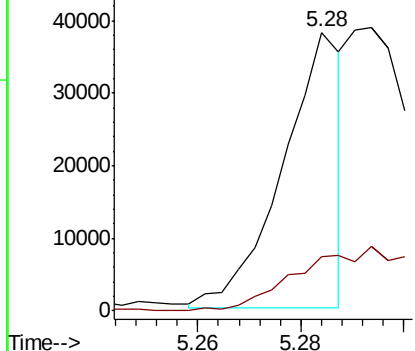


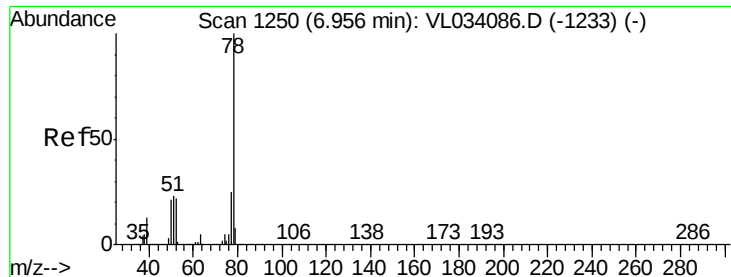
#34
 2-Butanone
 Concen: 0.159 ppbv
 RT: 5.28 min Scan# 730
 Delta R.T. 0.00 min
 Lab File: VL034103.D
 Acq: 12 Aug 2019 14:33

Tgt Ion: 43 Resp: 30314
 Ion Ratio Lower Upper
 43 100
 72 0.0 16.0 24.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.141 ppbv

RT: 6.94 min Scan# 1246

Delta R.T. -0.01 min

Lab File: VL034103.D

Acq: 12 Aug 2019 14:33

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB203-AIR-UW-20190805

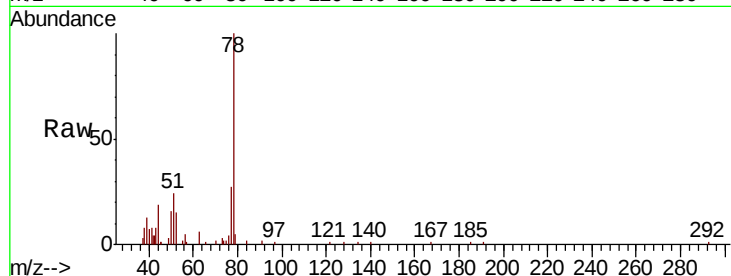
Tgt Ion: 78 Resp: 32862

Ion Ratio Lower Upper

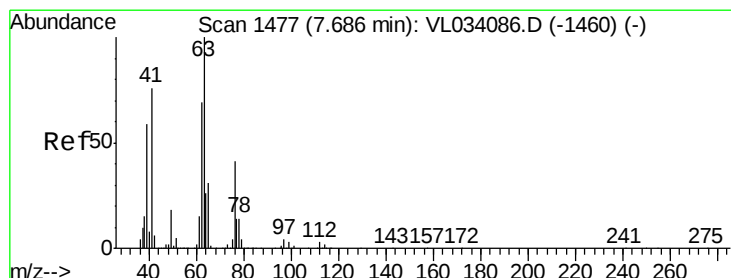
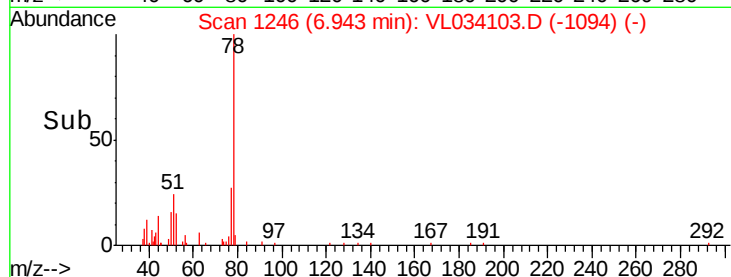
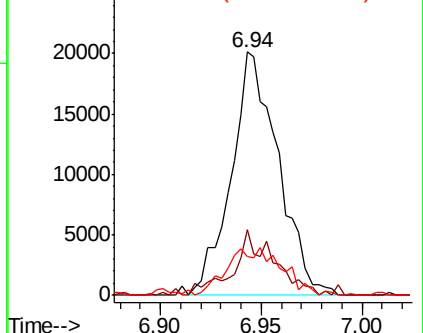
78 100

77 27.0 19.9 29.9

50 15.7 16.7 25.1#



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: 6.495 ppbv

RT: 7.24 min Scan# 1337

Delta R.T. -0.45 min

Lab File: VL034103.D

Acq: 12 Aug 2019 14:33

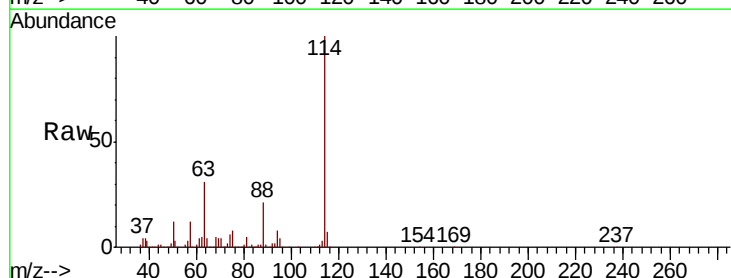
Tgt Ion: 63 Resp: 612154

Ion Ratio Lower Upper

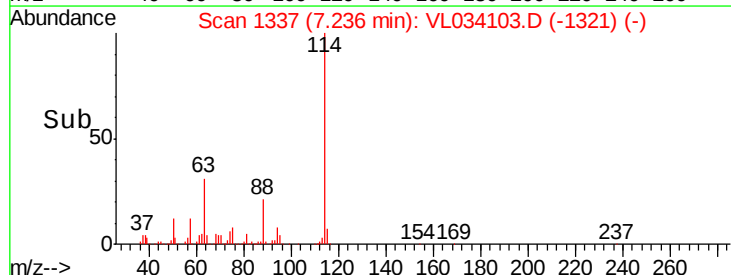
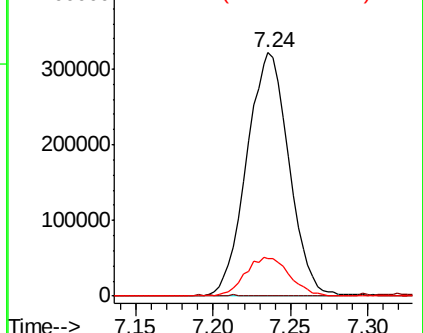
63 100

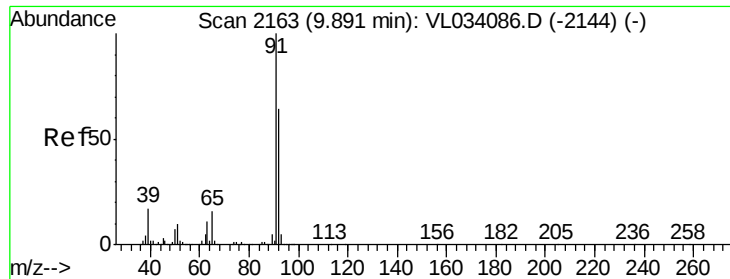
41 0.0 60.6 91.0#

62 15.5 55.0 82.6#



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





#53

Toluene

Concen: 0.663 ppbv

RT: 9.89 min Scan# 2161

Delta R.T. -0.01 min

Lab File: VL034103.D

Acq: 12 Aug 2019 14:33

Instrument :

MSVOA_L

ClientSampleId :

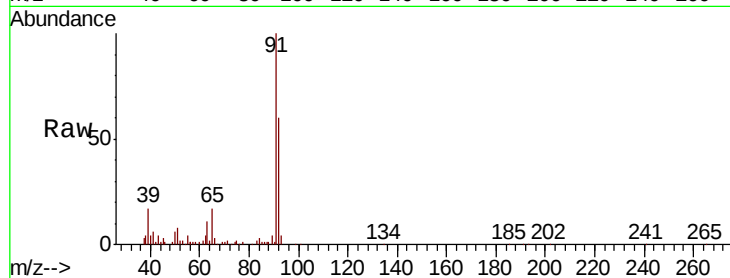
BP-VPB203-AIR-UW-20190805

Tgt Ion: 91 Resp: 178676

Ion Ratio Lower Upper

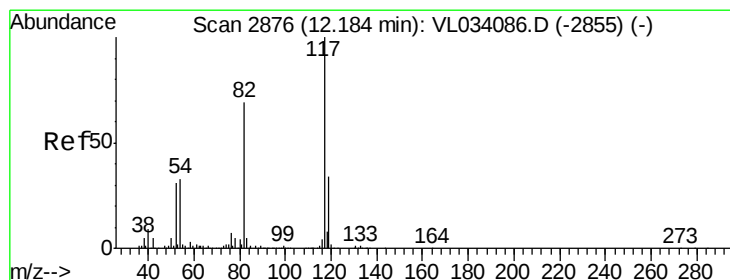
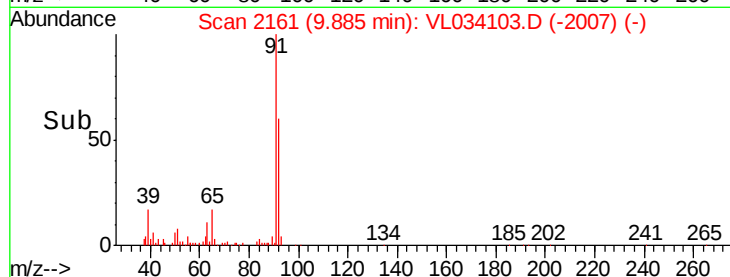
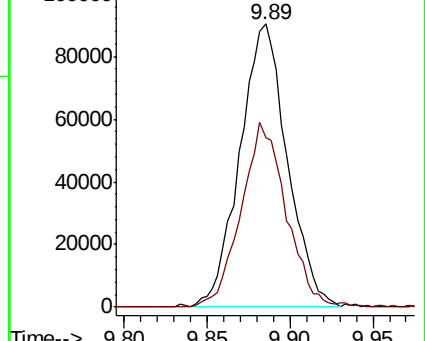
91 100

92 62.5 50.3 75.5



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: 12.17 min Scan# 2873

Delta R.T. -0.01 min

Lab File: VL034103.D

Acq: 12 Aug 2019 14:33

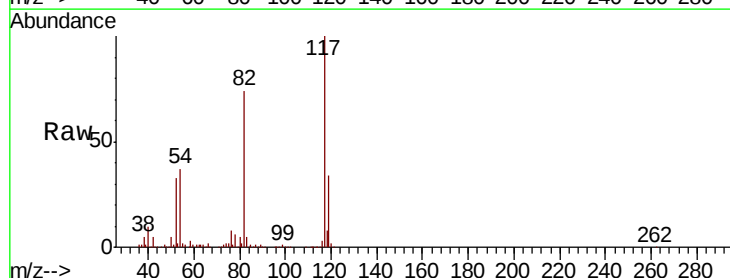
Tgt Ion: 117 Resp: 2142892

Ion Ratio Lower Upper

117 100

82 73.2 52.2 78.4

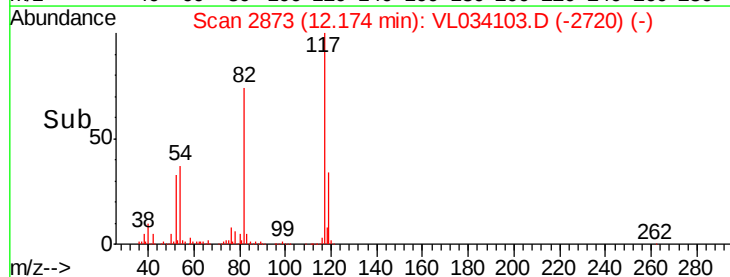
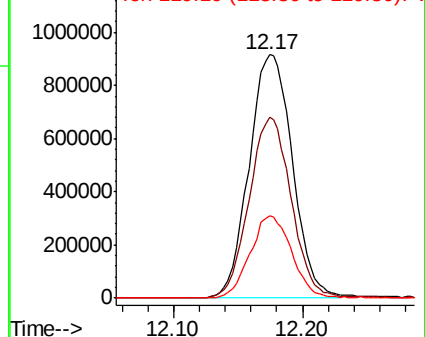
119 32.7 44.8 67.2#

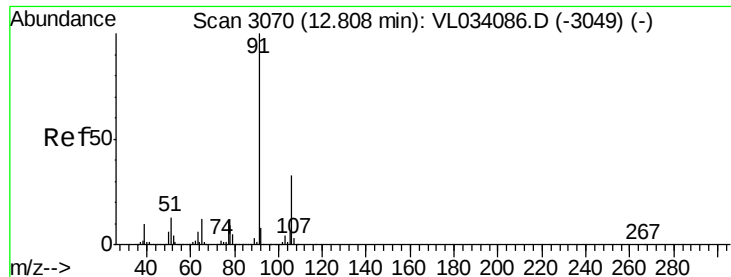


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.045 ppbv

RT: 13.06 min Scan# 3147

Delta R.T. 0.25 min

Lab File: VL034103.D

Acq: 12 Aug 2019 14:33

Instrument :

MSVOA_L

ClientSampleId :

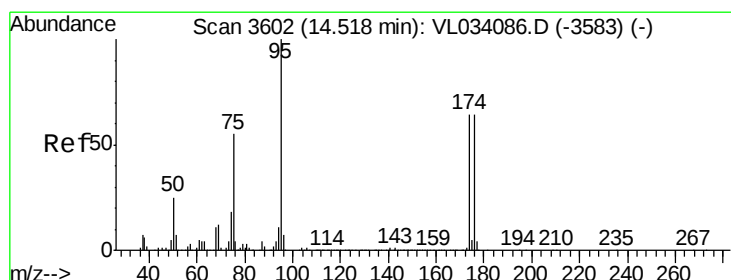
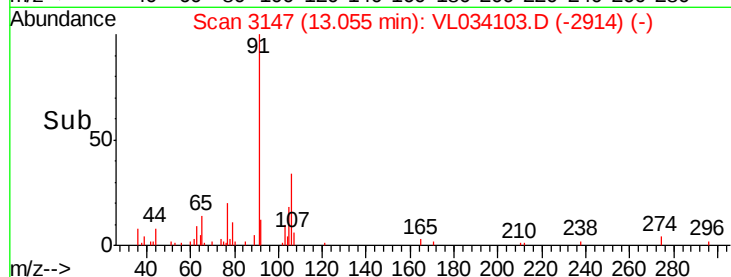
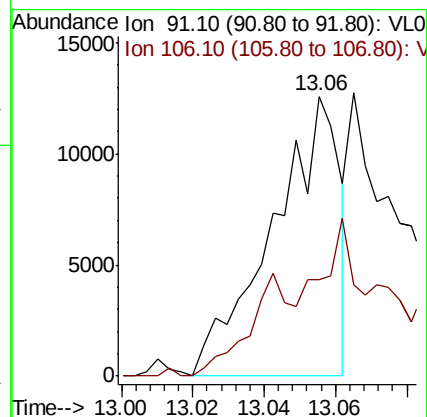
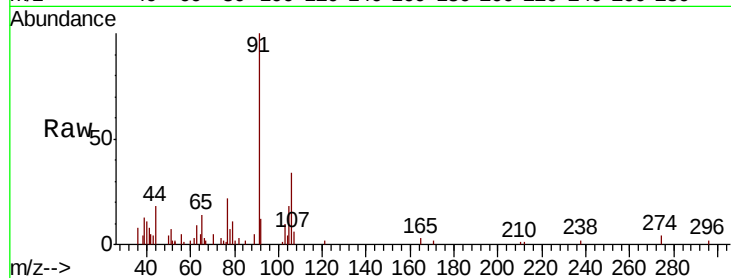
BP-VPB203-AIR-UW-20190805

Tgt Ion: 91 Resp: 16366

Ion Ratio Lower Upper

91 100

106 34.5 26.0 39.0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.607 ppbv

RT: 14.51 min Scan# 3600

Delta R.T. -0.01 min

Lab File: VL034103.D

Acq: 12 Aug 2019 14:33

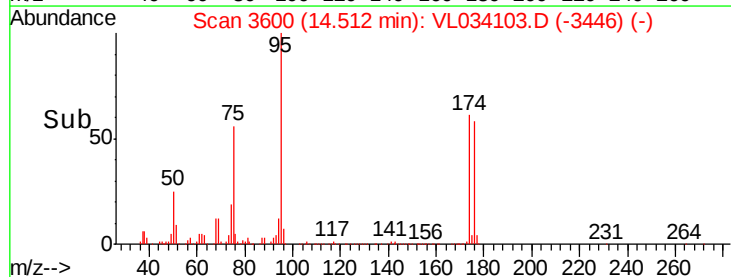
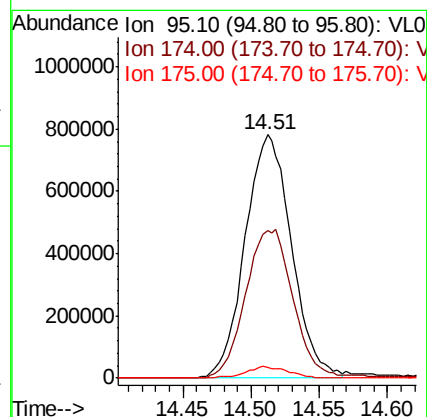
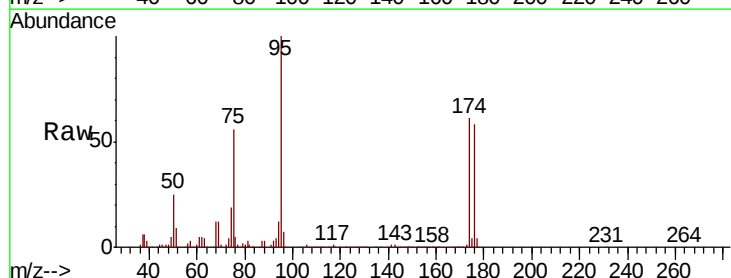
Tgt Ion: 95 Resp: 1844281

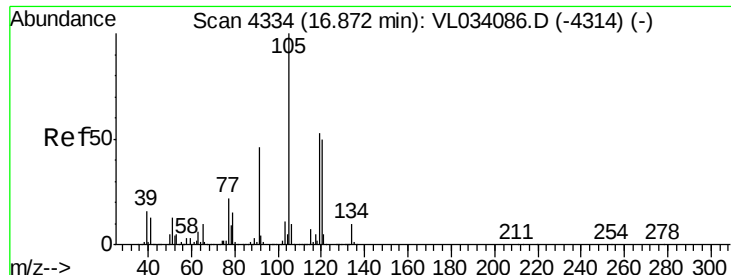
Ion Ratio Lower Upper

95 100

174 63.7 53.0 79.6

175 4.5 4.2 6.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.083 ppbv
 RT: 16.86 min Scan# 4329
 Delta R.T. -0.02 min
 Lab File: VL034103.D
 Acq: 12 Aug 2019 14:33

Instrument :
 MSVOA_L
 ClientSampleId :
 BP-VPB203-AIR-UW-20190805

Tgt Ion:	105	Resp:	28223
Ion	Ratio	Lower	Upper
105	100		
120	34.9	40.2	60.4#
91	2.1	38.1	57.1#
77	7.3	17.8	26.8#

