

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL081219\
 Data File : VL034104.D
 Acq On : 12 Aug 2019 15:15
 Operator : SY/AP
 Sample : K4185-01DUP
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

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

Quant Time: Aug 13 04:04:16 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	1017215	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	1982008	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2100126	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1807955	10.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.10%

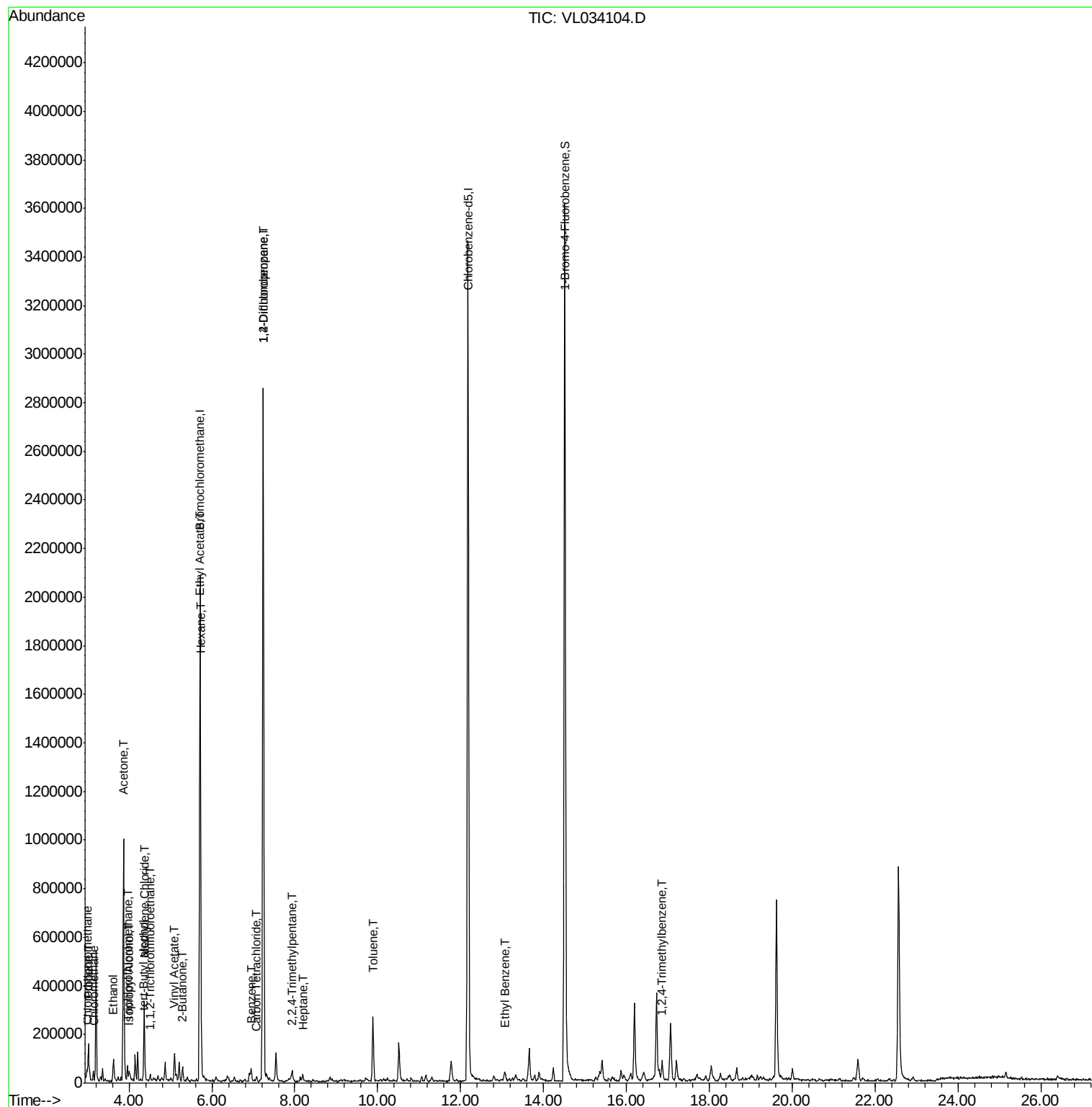
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.99	51	42405	0.361	ppbv	99
4) Chloromethane	3.14	50	32874	0.434	ppbv	90
9) Propene	3.01	41	20589	0.297	ppbv	100
10) Heptane	8.19	43	7983	0.045	ppbv #	54
11) Trichlorofluoromethane	3.97	101	36284	0.244	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.51	101	3612	0.034	ppbv #	25
13) Ethanol	3.62	45	43866	2.245	ppbv #	38
15) Acetone	3.86	43	967573	6.656	ppbv	98
17) tert-Butyl alcohol	4.34	59	4822	0.036	ppbv #	72
19) Isopropyl Alcohol	4.01	45	37925	0.335	ppbv #	44
20) Methylene Chloride	4.36	84	99856	2.291	ppbv	97
23) Vinyl Acetate	5.10	43	62482	0.259	ppbv #	66
25) Ethyl Acetate	5.73	43	114289	0.400	ppbv #	83
26) Hexane	5.73	57	135995	1.122	ppbv #	44
34) 2-Butanone	5.29	43	69722	0.378	ppbv	98
35) Carbon Tetrachloride	7.07	117	4937	0.032	ppbv #	82
36) Benzene	6.95	78	20626	0.092	ppbv	95
39) 1,2-Dichloropropane	7.24	63	592426	6.518	ppbv #	22
44) 2,2,4-Trimethylpentane	7.93	57	20120	0.050	ppbv #	40
53) Toluene	9.88	91	183756	0.707	ppbv	94
58) Ethyl Benzene	13.06	91	16614	0.047	ppbv	91
74) 1,2,4-Trimethylbenzene	16.86	105	47631	0.143	ppbv #	73

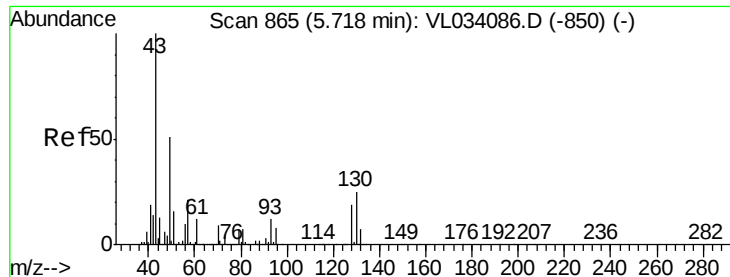
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Aug 05 17:09:48 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 863

Delta R.T. -0.01 min

Lab File: VL034104.D

Acq: 12 Aug 2019 15:15

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB203-AIR-UW-20190805DUP

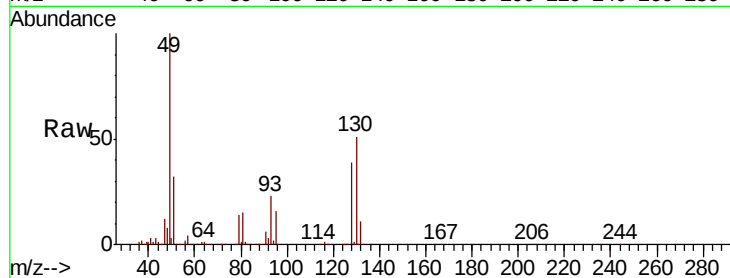
Tgt Ion: 49 Resp: 1017215

Ion Ratio Lower Upper

49 100

128 37.9 19.5 58.5

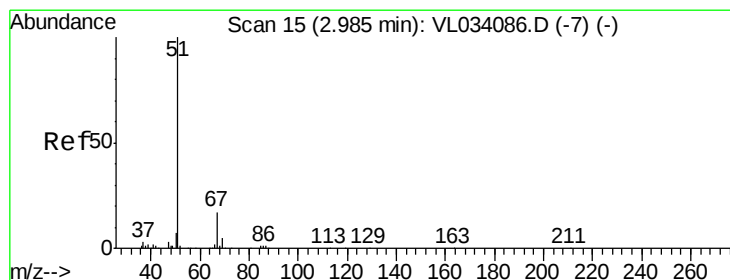
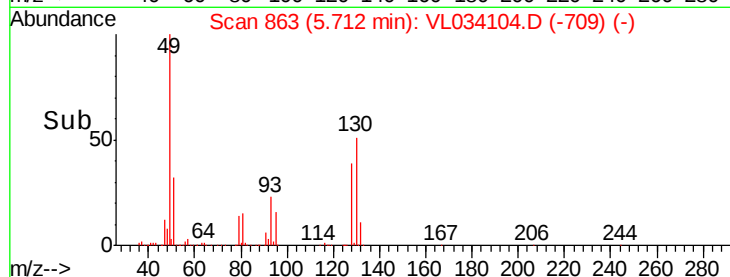
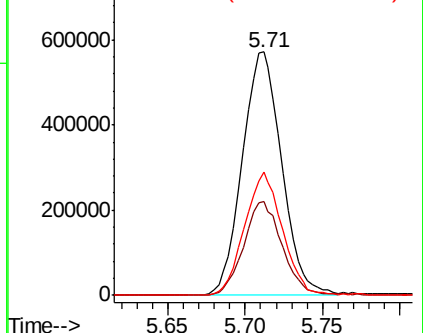
130 49.0 25.4 76.0



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: 0.361 ppbv

RT: 2.99 min Scan# 15

Delta R.T. 0.00 min

Lab File: VL034104.D

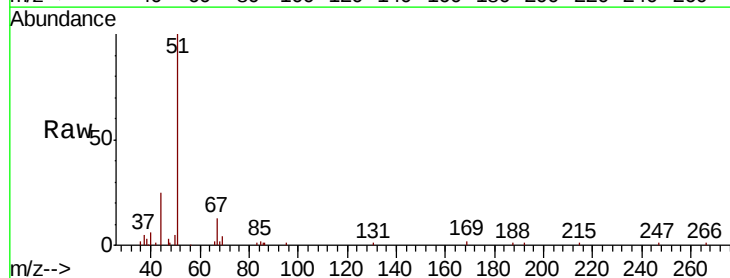
Acq: 12 Aug 2019 15:15

Tgt Ion: 51 Resp: 42405

Ion Ratio Lower Upper

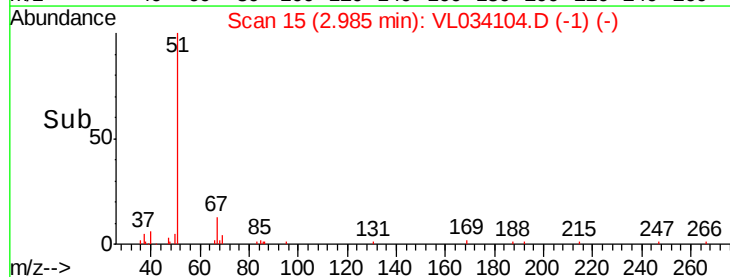
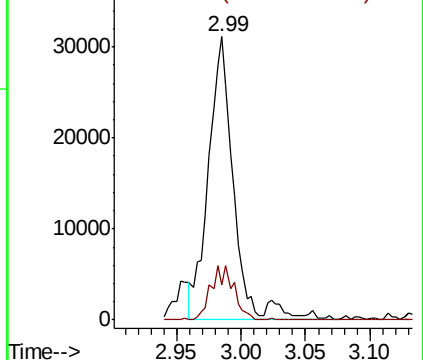
51 100

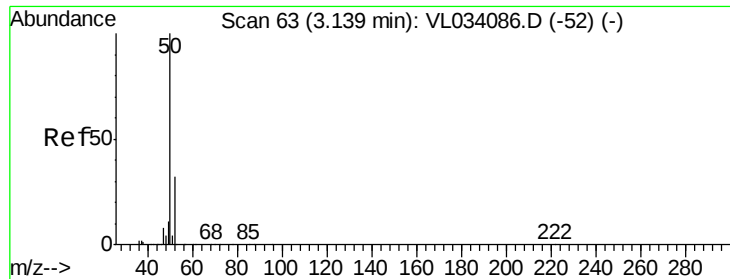
67 17.0 13.3 19.9



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.434 ppbv

RT: 3.14 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL034104.D

Acq: 12 Aug 2019 15:15

Instrument :

MSVOA_L

ClientSampleId :

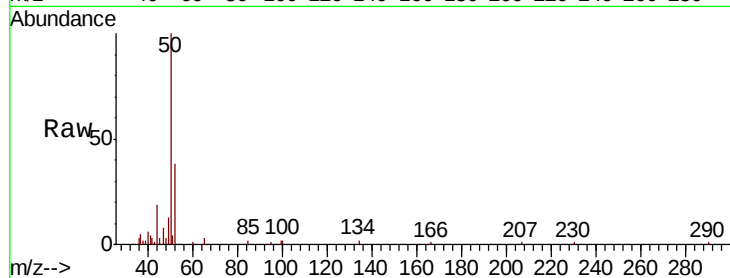
BP-VPB203-AIR-UW-20190805DUP

Tgt Ion: 50 Resp: 32874

Ion Ratio Lower Upper

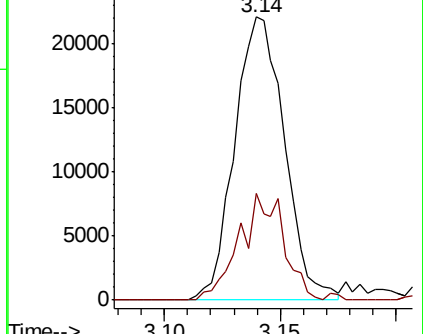
50 100

52 37.5 25.7 38.5

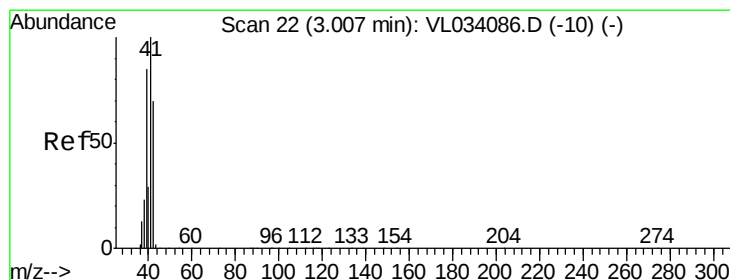
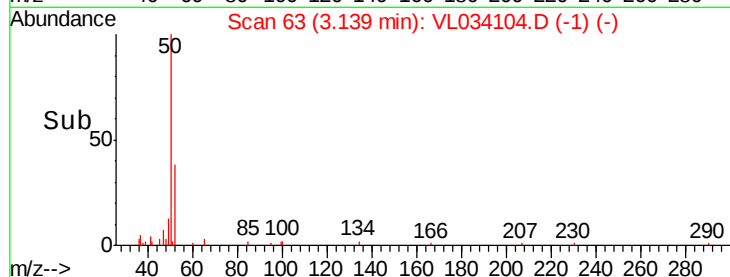


Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->



#9

Propene

Concen: 0.297 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.01 min

Lab File: VL034104.D

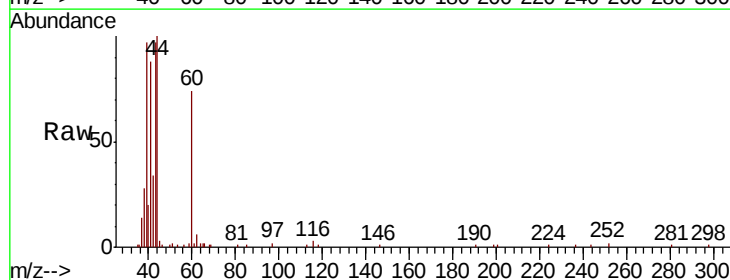
Acq: 12 Aug 2019 15:15

Tgt Ion: 41 Resp: 20589

Ion Ratio Lower Upper

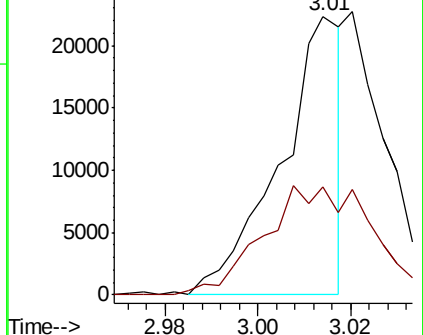
41 100

42 69.5 55.8 83.6

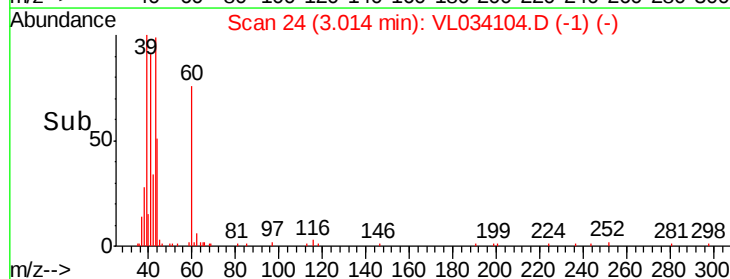


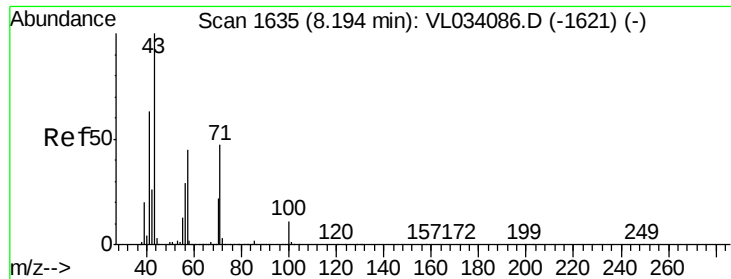
Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



Time-->

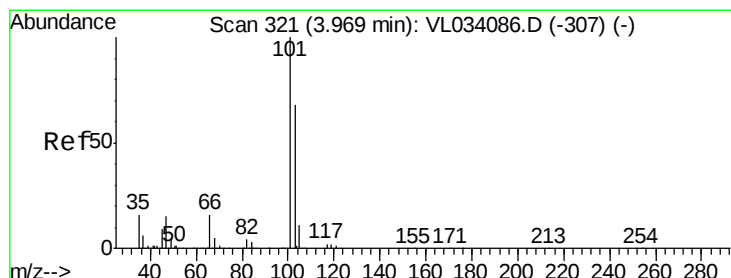
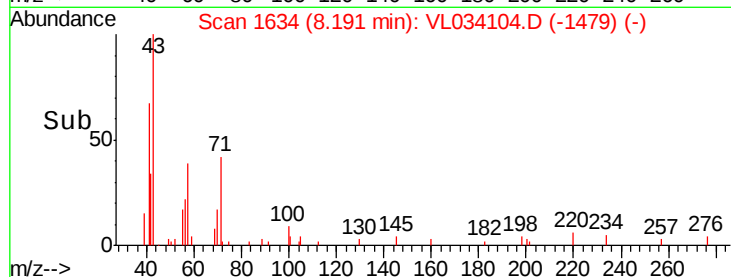
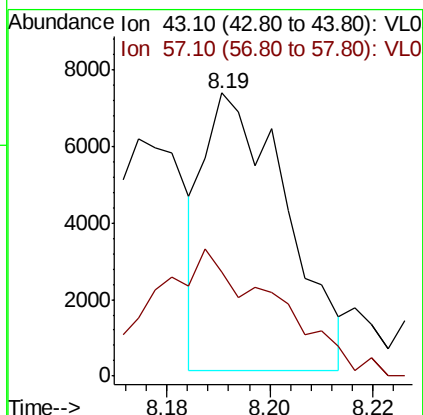
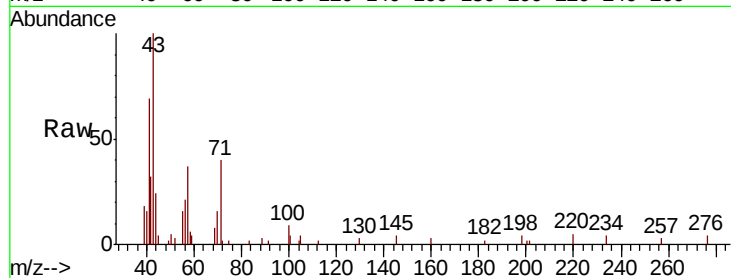




#10
 Heptane
 Concen: 0.045 ppbv
 RT: 8.19 min Scan# 1634
 Delta R.T. -0.00 min
 Lab File: VL034104.D
 Acq: 12 Aug 2019 15:15

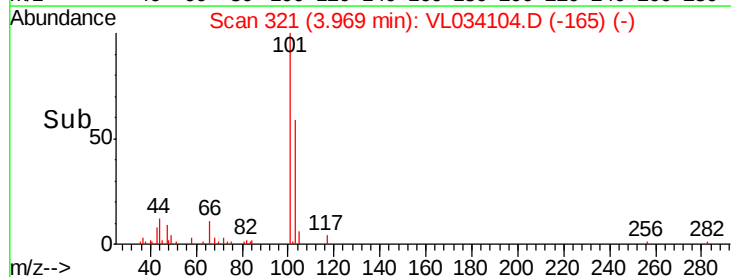
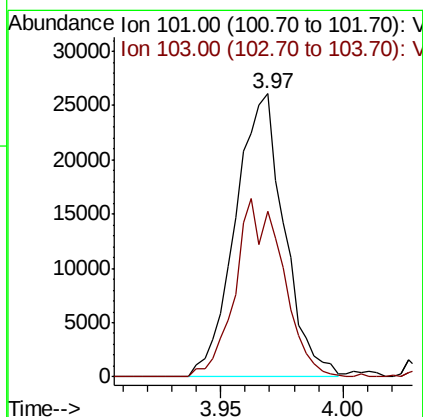
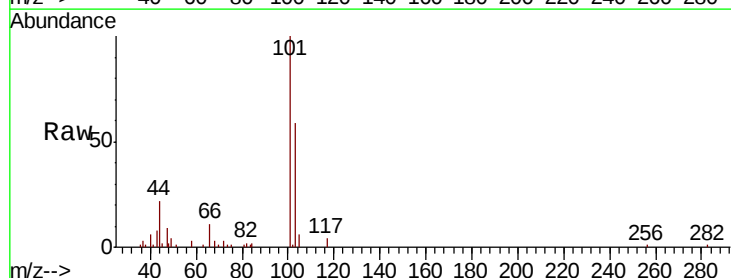
Instrument :
 MSVOA_L
 ClientSampleId :
 BP-VPB203-AIR-UW-20190805DUP

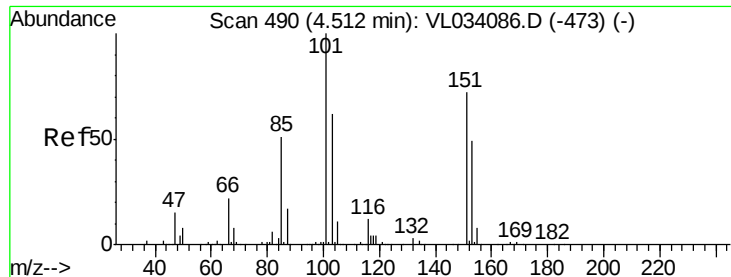
Tgt Ion: 43 Resp: 7983
 Ion Ratio Lower Upper
 43 100
 57 76.8 37.2 55.8#



#11
 Trichlorofluoromethane
 Concen: 0.244 ppbv
 RT: 3.97 min Scan# 321
 Delta R.T. 0.00 min
 Lab File: VL034104.D
 Acq: 12 Aug 2019 15:15

Tgt Ion: 101 Resp: 36284
 Ion Ratio Lower Upper
 101 100
 103 58.5 54.3 81.5





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.034 ppbv

RT: 4.51 min Scan# 488

Delta R.T. -0.01 min

Lab File: VL034104.D

Acq: 12 Aug 2019 15:15

Instrument :

MSVOA_L

ClientSampleId :

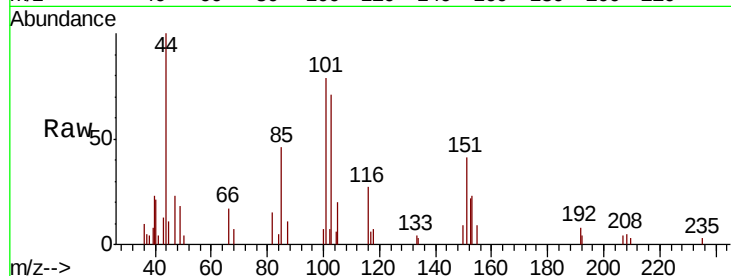
BP-VPB203-AIR-UW-20190805DUP

Tgt Ion: 101 Resp: 3612

Ion Ratio Lower Upper

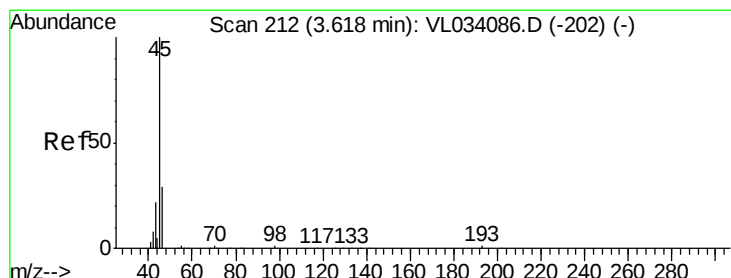
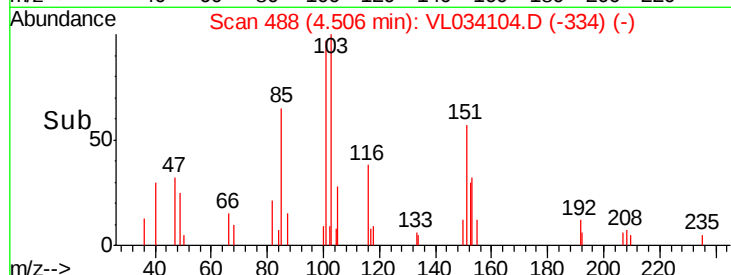
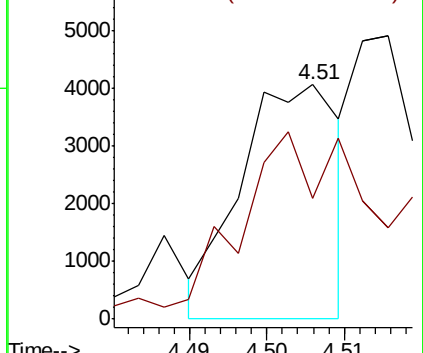
101 100

151 137.8 59.4 89.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 2.245 ppbv

RT: 3.62 min Scan# 212

Delta R.T. 0.00 min

Lab File: VL034104.D

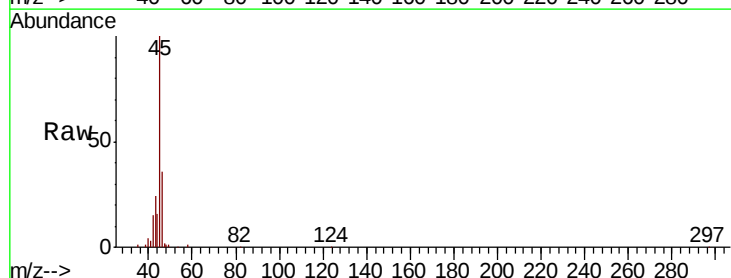
Acq: 12 Aug 2019 15:15

Tgt Ion: 45 Resp: 43866

Ion Ratio Lower Upper

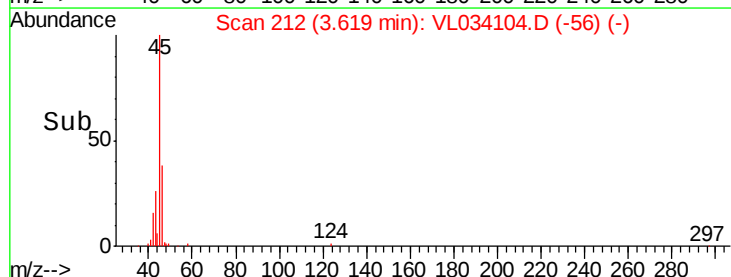
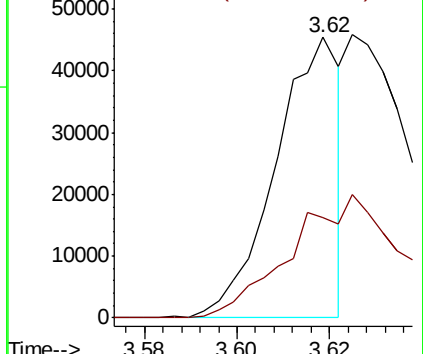
45 100

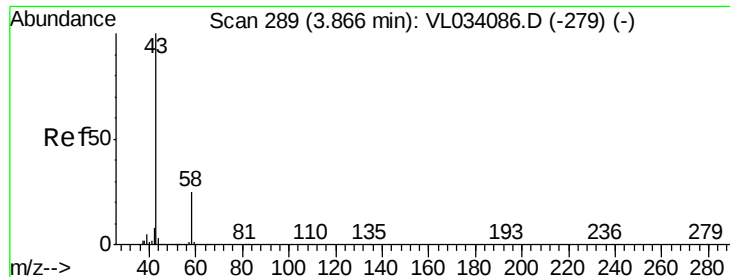
46 0.0 14.9 59.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 6.656 ppbv

RT: 3.86 min Scan# 288

Delta R.T. -0.00 min

Lab File: VL034104.D

Acq: 12 Aug 2019 15:15

Instrument :

MSVOA_L

ClientSampleId :

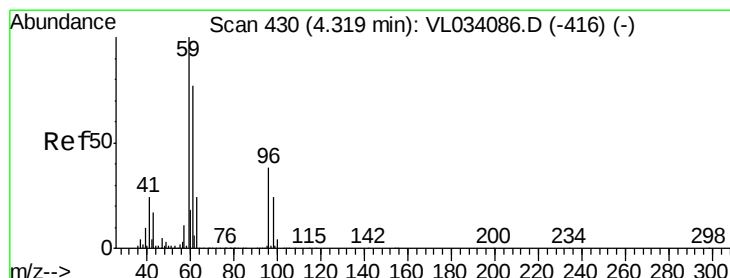
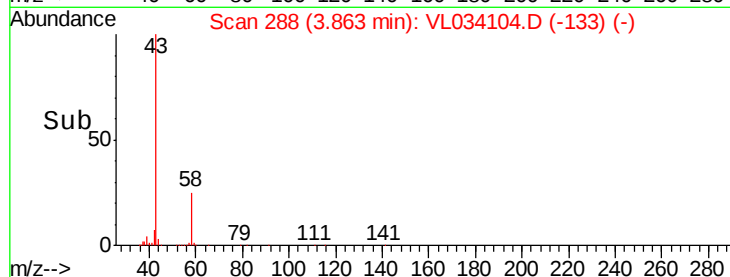
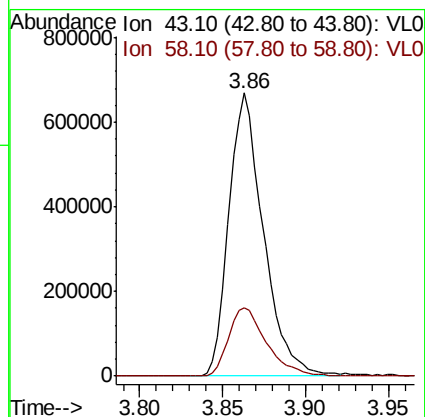
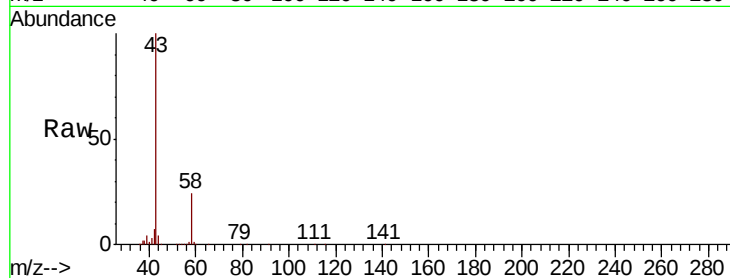
BP-VPB203-AIR-UW-20190805DUP

Tgt Ion: 43 Resp: 967573

Ion Ratio Lower Upper

43 100

58 26.7 20.6 30.8



#17

tert-Butyl alcohol

Concen: 0.036 ppbv

RT: 4.34 min Scan# 437

Delta R.T. 0.02 min

Lab File: VL034104.D

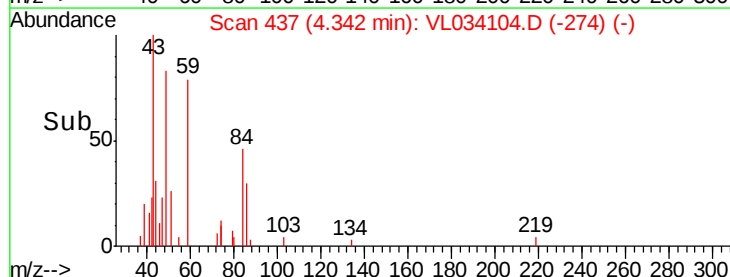
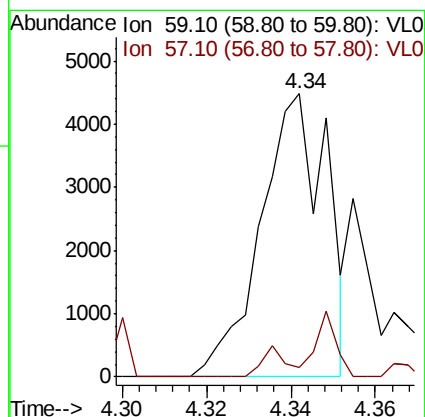
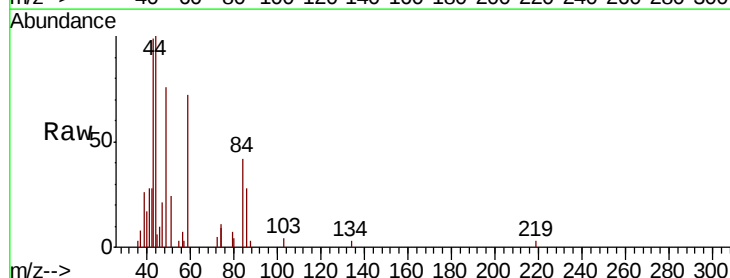
Acq: 12 Aug 2019 15:15

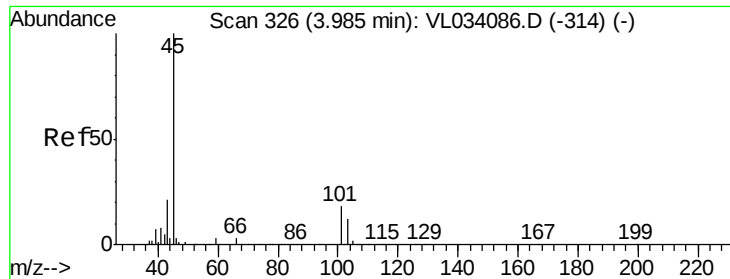
Tgt Ion: 59 Resp: 4822

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 0.335 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.02 min

Lab File: VL034104.D

Acq: 12 Aug 2019 15:15

Instrument :

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ClientSampleId :

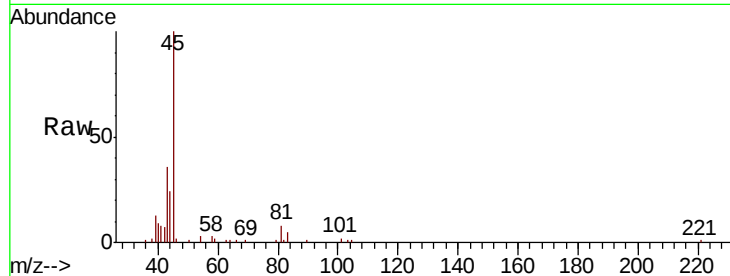
BP-VPB203-AIR-UW-20190805DUP

Tgt Ion: 45 Resp: 37925

Ion Ratio Lower Upper

45 100

58 0.0 24.6 37.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

25000

20000

15000

10000

5000

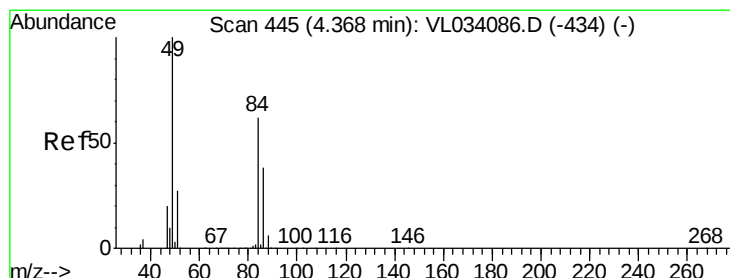
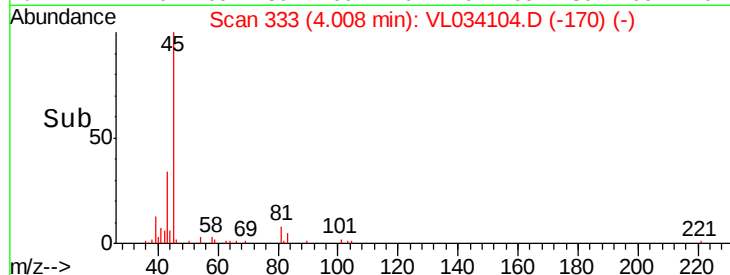
0

Time-->

3.95

4.00

4.05



#20

Methylene Chloride

Concen: 2.291 ppbv

RT: 4.36 min Scan# 444

Delta R.T. -0.00 min

Lab File: VL034104.D

Acq: 12 Aug 2019 15:15

Tgt Ion: 84 Resp: 99856

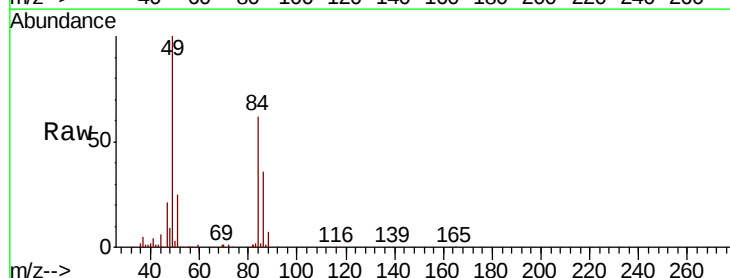
Ion Ratio Lower Upper

84 100

49 161.8 129.7 194.5

51 40.2 35.8 53.8

86 57.5 49.8 74.8



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

150000

100000

50000

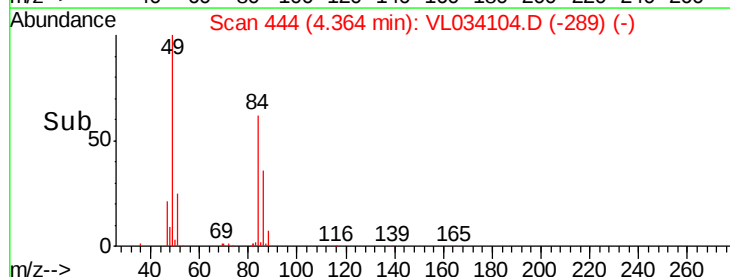
0

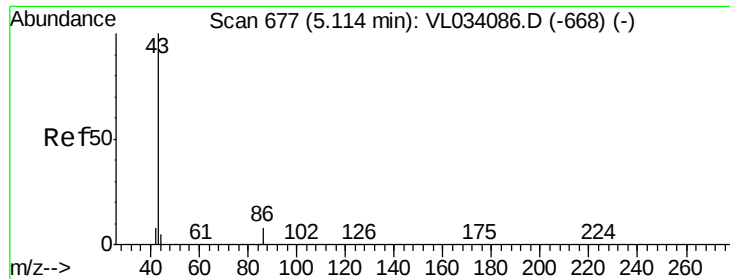
Time-->

4.30

4.35

4.40

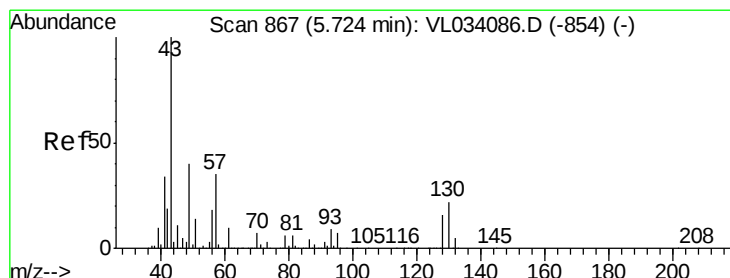
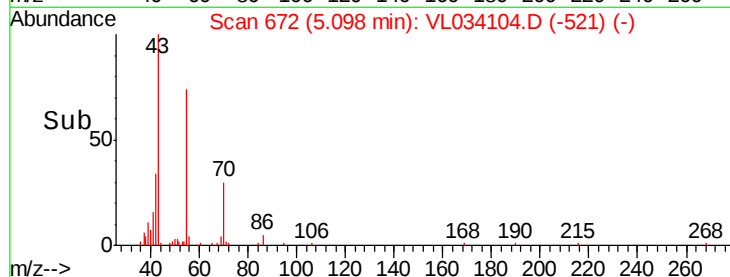
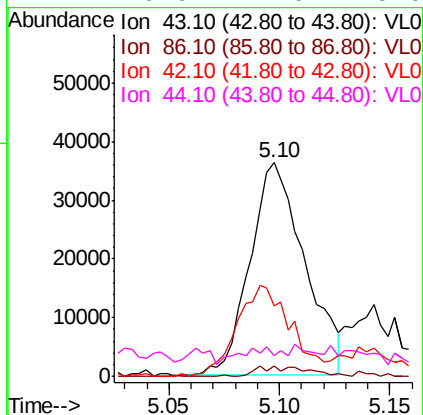
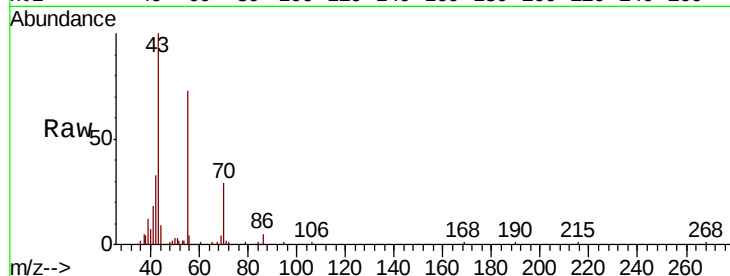




#23
 Vinyl Acetate
 Concen: 0.259 ppbv
 RT: 5.10 min Scan# 672
 Delta R.T. -0.02 min
 Lab File: VL034104.D
 Acq: 12 Aug 2019 15:15

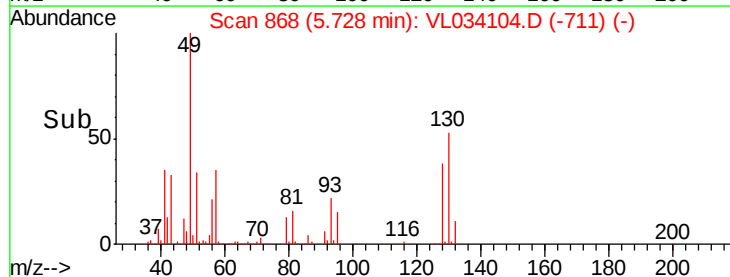
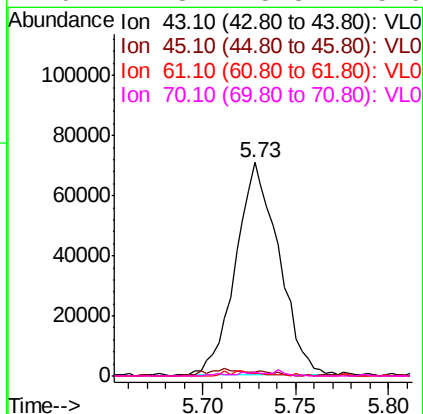
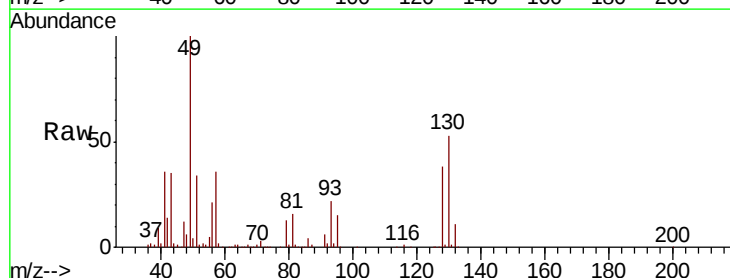
Instrument :
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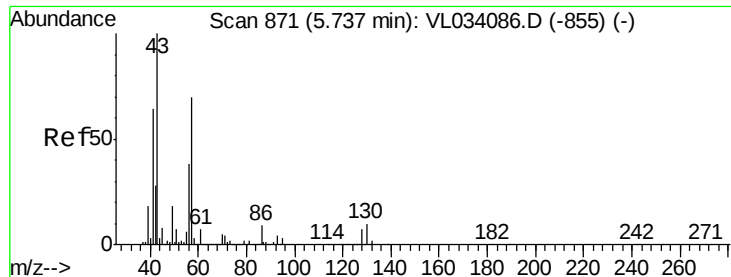
Tgt Ion:	43	Resp:	62482
Ion	Ratio	Lower	Upper
43	100		
86	4.6	5.4	8.0#
42	33.1	7.9	11.9#
44	0.0	4.0	6.0#



#25
 Ethyl Acetate
 Concen: 0.400 ppbv
 RT: 5.73 min Scan# 868
 Delta R.T. 0.00 min
 Lab File: VL034104.D
 Acq: 12 Aug 2019 15:15

Tgt Ion:	43	Resp:	114289
Ion	Ratio	Lower	Upper
43	100		
45	4.1	8.4	12.6#
61	2.1	7.3	10.9#
70	2.3	5.8	8.6#

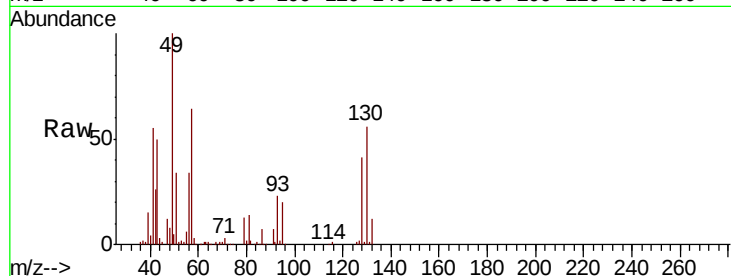




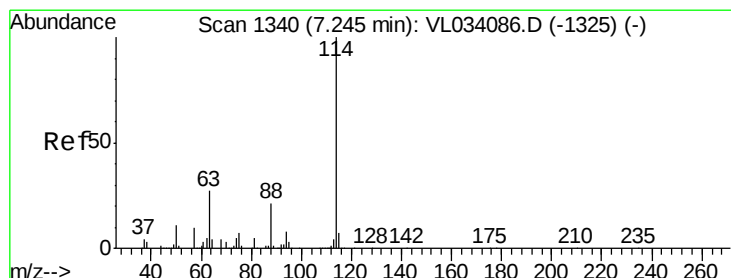
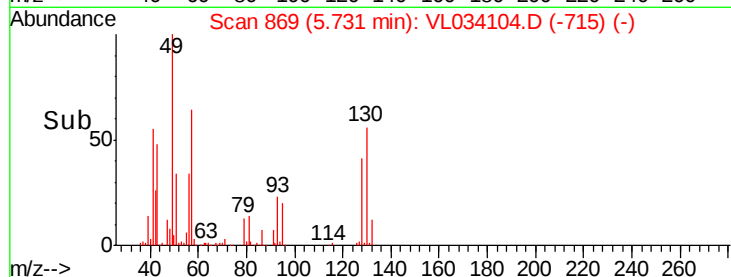
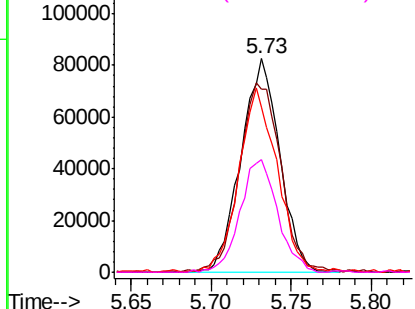
#26
Hexane
Concen: 1.122 ppbv
RT: 5.73 min Scan# 869
Delta R.T. -0.01 min
Lab File: VL034104.D
Acq: 12 Aug 2019 15:15

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

Tgt Ion: 57 Resp: 135995
Ion Ratio Lower Upper
57 100
41 95.2 75.7 113.5
43 86.2 189.8 284.8#
56 51.3 42.7 64.1

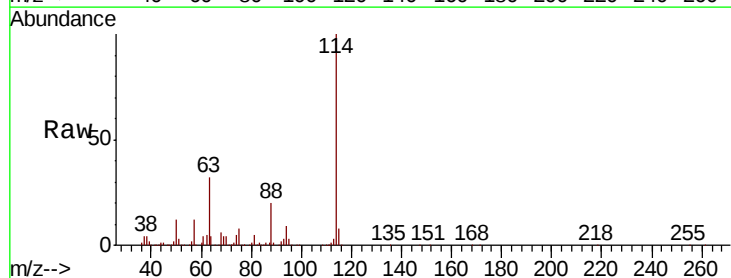


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

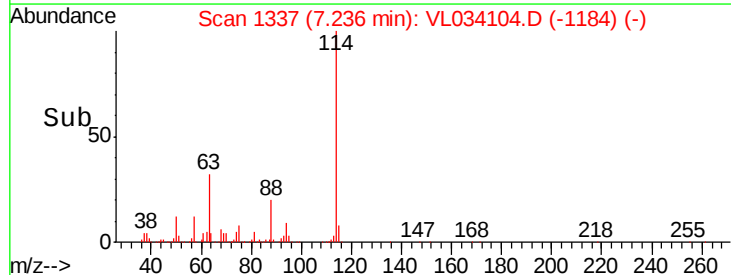
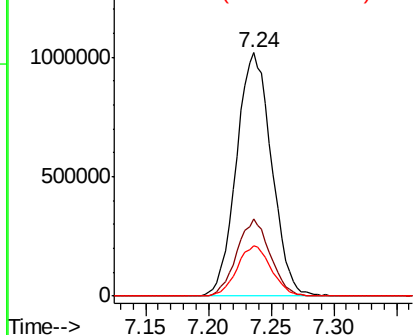


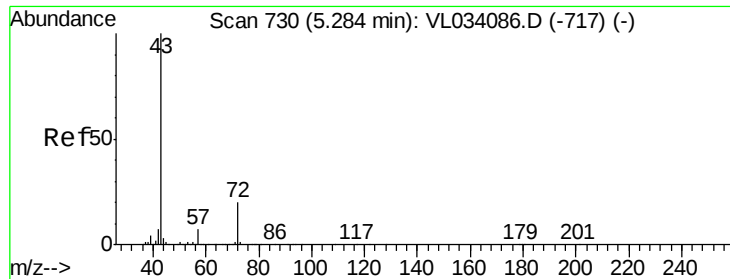
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.24 min Scan# 1337
Delta R.T. -0.01 min
Lab File: VL034104.D
Acq: 12 Aug 2019 15:15

Tgt Ion: 114 Resp: 1982008
Ion Ratio Lower Upper
114 100
63 30.1 22.5 33.7
88 20.3 15.7 23.5



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

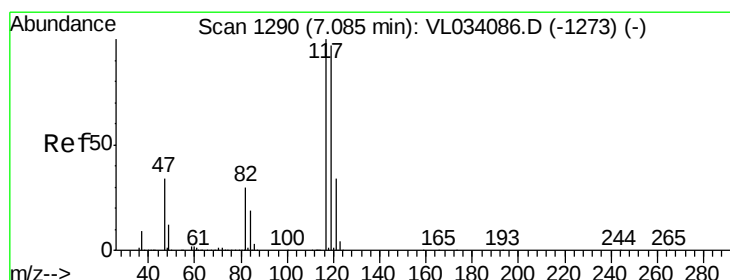
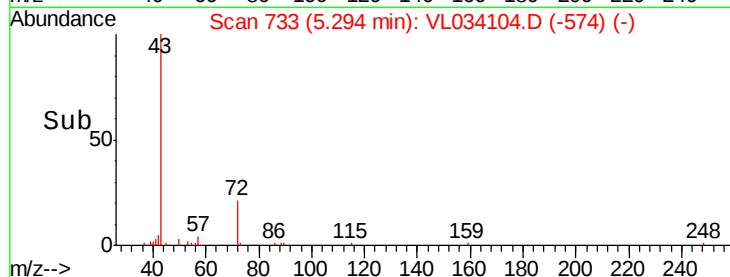
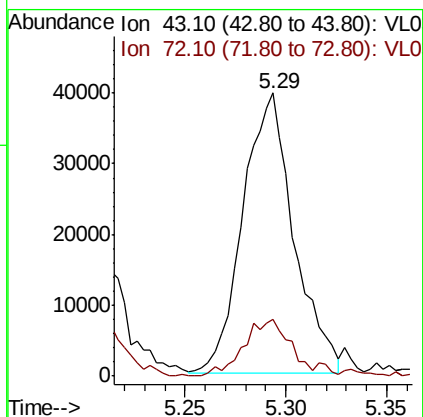
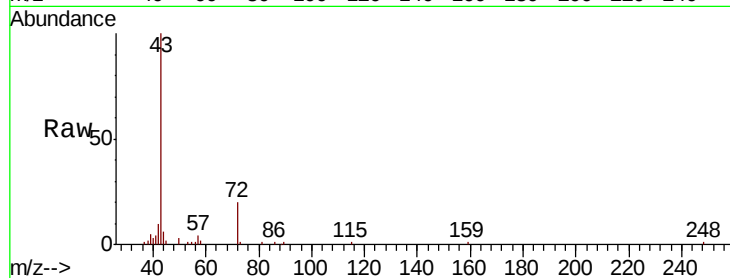




#34
2-Butanone
Concen: 0.378 ppbv
RT: 5.29 min Scan# 733
Delta R.T. 0.01 min
Lab File: VL034104.D
Acq: 12 Aug 2019 15:15

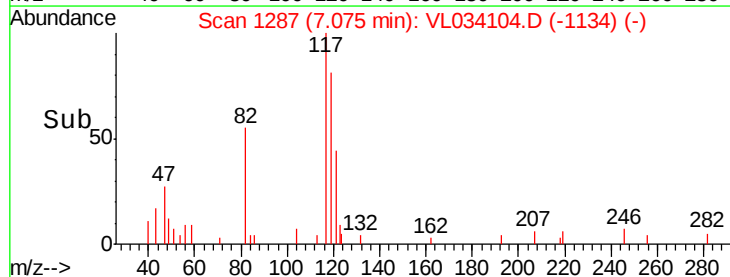
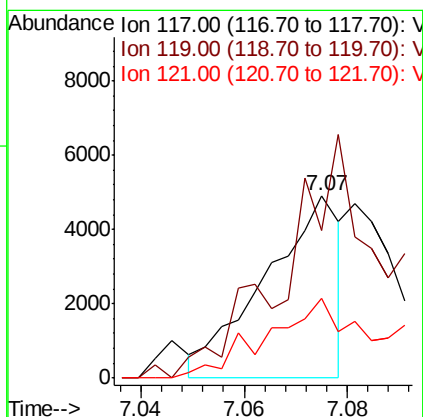
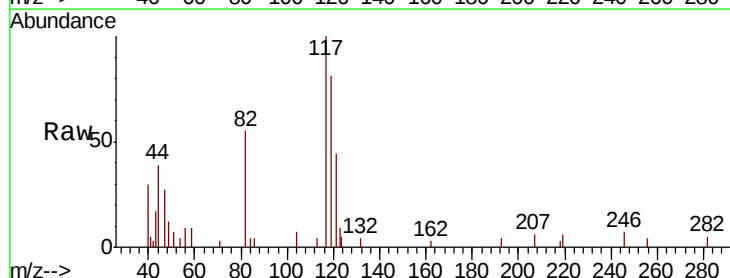
Instrument :
MSVOA_L
ClientSampleId :
BP-VPB203-AIR-UW-20190805DUP

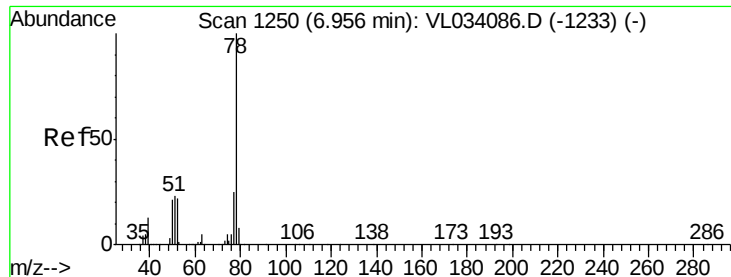
Tgt Ion: 43 Resp: 69722
Ion Ratio Lower Upper
43 100
72 21.1 16.0 24.0



#35
Carbon Tetrachloride
Concen: 0.032 ppbv
RT: 7.07 min Scan# 1287
Delta R.T. -0.01 min
Lab File: VL034104.D
Acq: 12 Aug 2019 15:15

Tgt Ion: 117 Resp: 4937
Ion Ratio Lower Upper
117 100
119 80.2 77.8 116.6
121 46.5 27.4 41.2#





#36

Benzene

Concen: 0.092 ppbv

RT: 6.95 min Scan# 1248

Delta R.T. -0.01 min

Lab File: VL034104.D

Acq: 12 Aug 2019 15:15

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB203-AIR-UW-20190805DUP

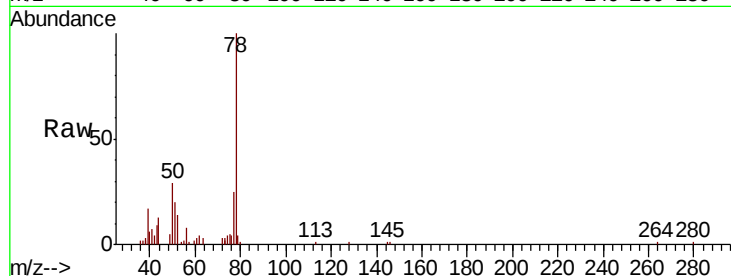
Tgt Ion: 78 Resp: 20626

Ion Ratio Lower Upper

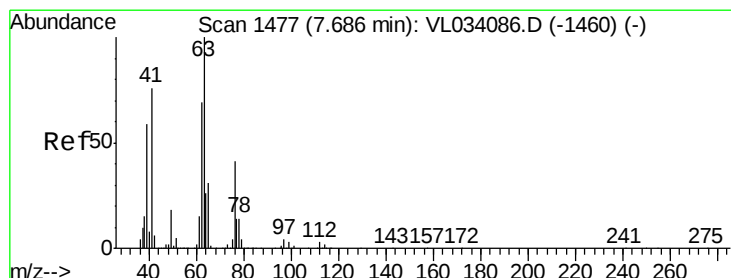
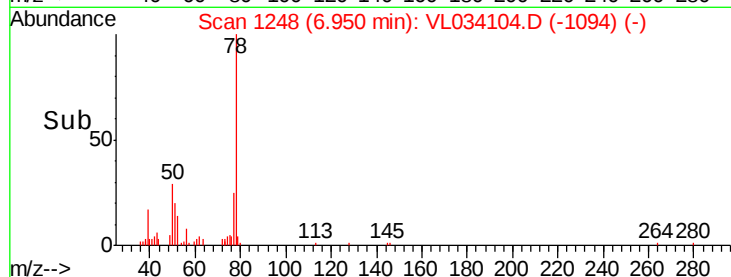
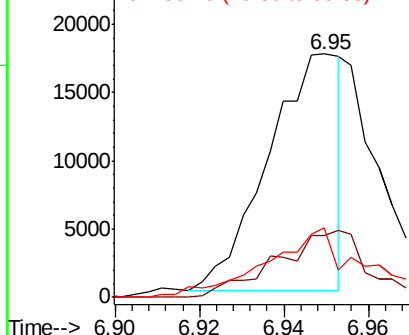
78 100

77 26.0 19.9 29.9

50 25.0 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: 6.518 ppbv

RT: 7.24 min Scan# 1337

Delta R.T. -0.45 min

Lab File: VL034104.D

Acq: 12 Aug 2019 15:15

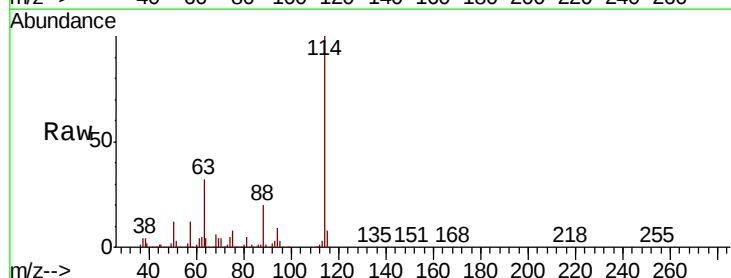
Tgt Ion: 63 Resp: 592426

Ion Ratio Lower Upper

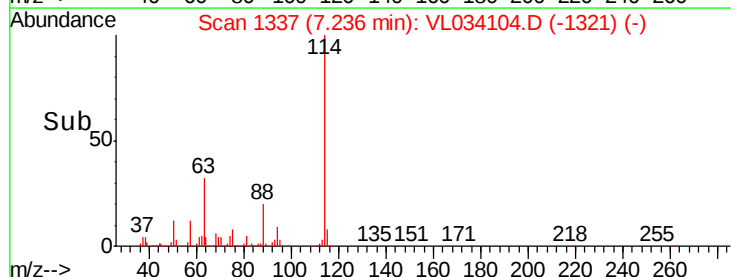
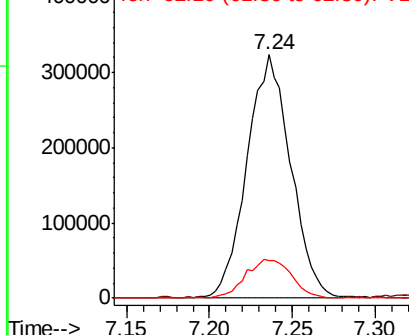
63 100

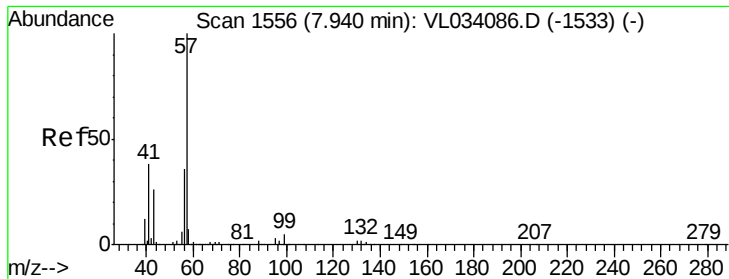
41 0.0 60.6 91.0#

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

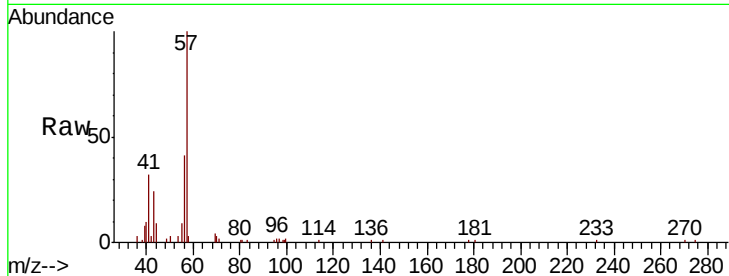




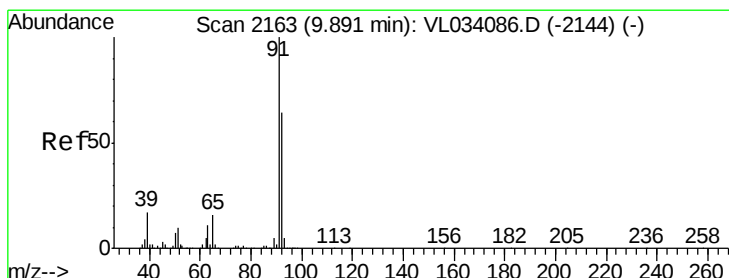
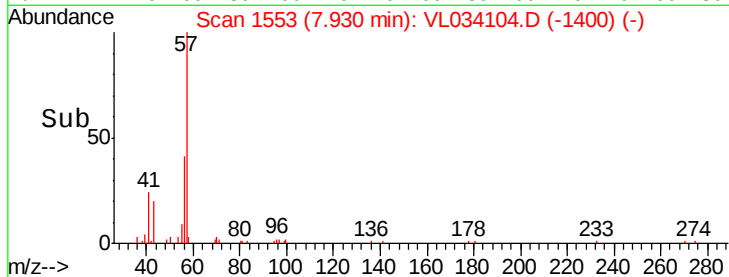
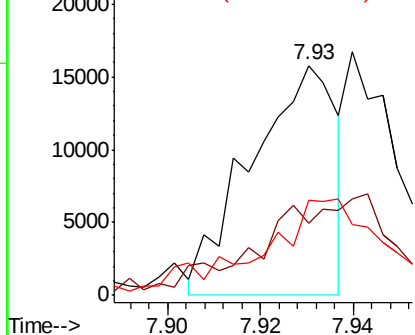
#44
 2,2,4-Trimethylpentane
 Concen: 0.050 ppbv
 RT: 7.93 min Scan# 1553
 Delta R.T. -0.01 min
 Lab File: VL034104.D
 Acq: 12 Aug 2019 15:15

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

Tgt Ion: 57 Resp: 20120
 Ion Ratio Lower Upper
 57 100
 41 0.0 29.2 43.8#
 56 0.0 26.7 40.1#

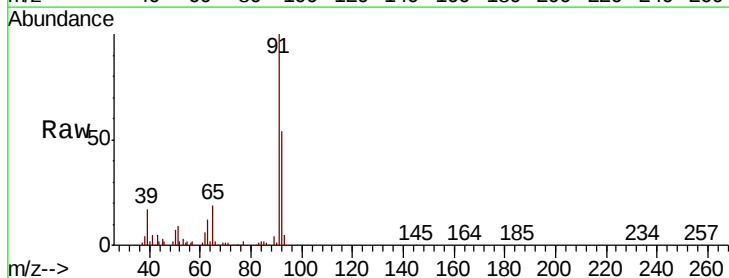


Abundance Ion 57.10 (56.80 to 57.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 56.10 (55.80 to 56.80): VL0

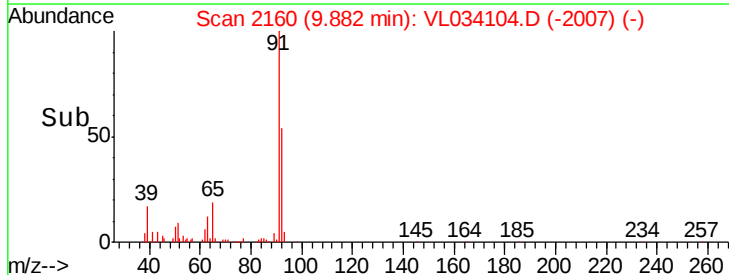
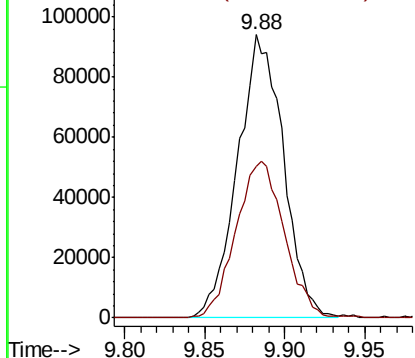


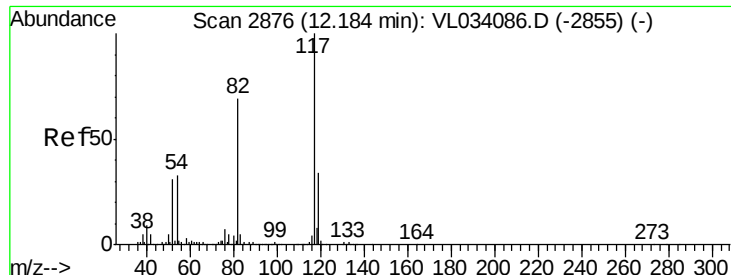
#53
 Toluene
 Concen: 0.707 ppbv
 RT: 9.88 min Scan# 2160
 Delta R.T. -0.01 min
 Lab File: VL034104.D
 Acq: 12 Aug 2019 15:15

Tgt Ion: 91 Resp: 183756
 Ion Ratio Lower Upper
 91 100
 92 58.5 50.3 75.5



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

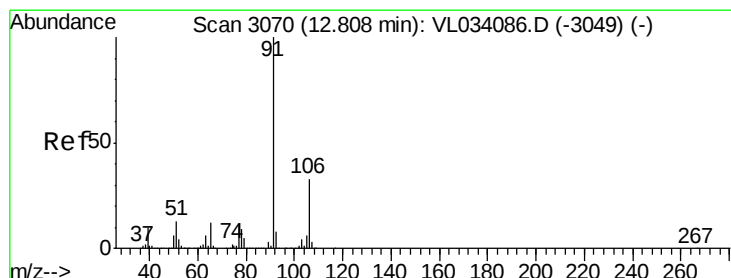
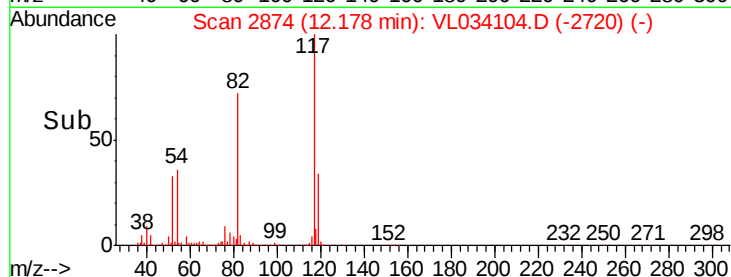
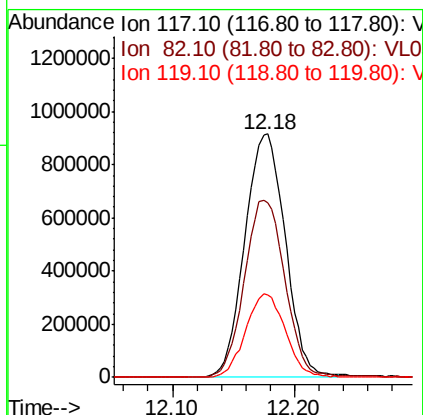
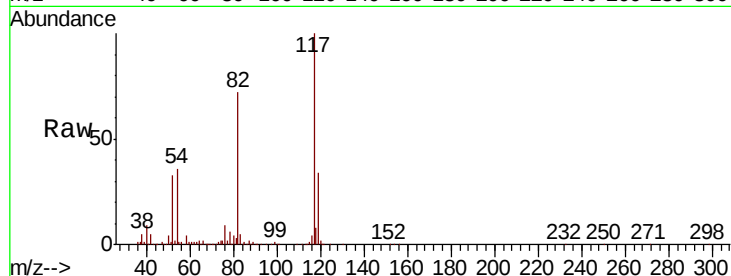




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.18 min Scan# 2874
Delta R.T. -0.01 min
Lab File: VL034104.D
Acq: 12 Aug 2019 15:15

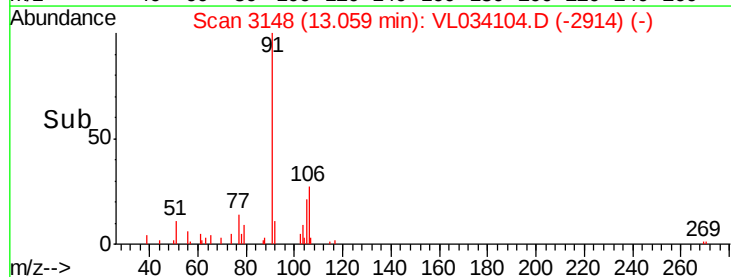
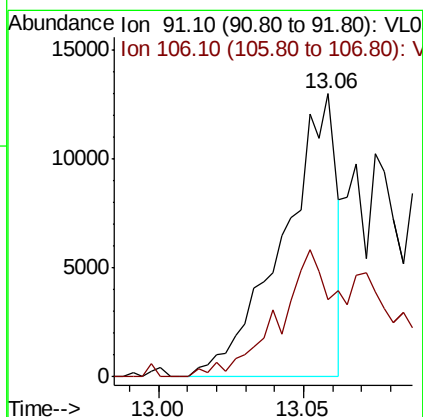
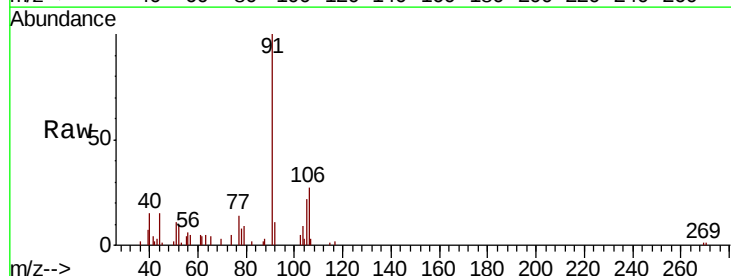
Instrument :
MSVOA_L
ClientSampleId :
BP-VPB203-AIR-UW-20190805DUP

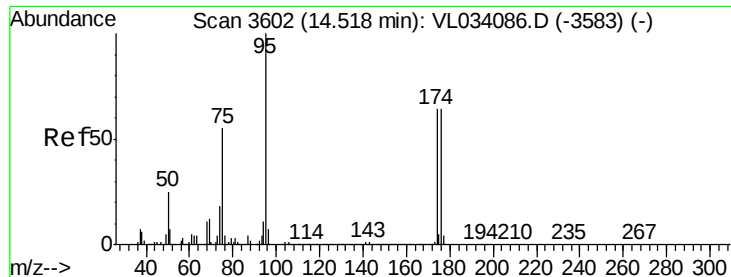
Tgt Ion:117 Resp: 2100126
Ion Ratio Lower Upper
117 100
82 73.5 52.2 78.4
119 34.0 44.8 67.2#



#58
Ethyl Benzene
Concen: 0.047 ppbv
RT: 13.06 min Scan# 3148
Delta R.T. 0.25 min
Lab File: VL034104.D
Acq: 12 Aug 2019 15:15

Tgt Ion: 91 Resp: 16614
Ion Ratio Lower Upper
91 100
106 27.2 26.0 39.0

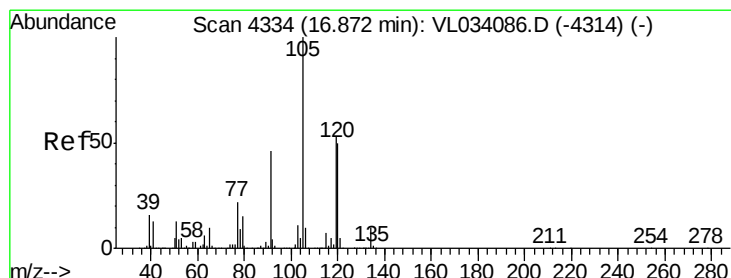
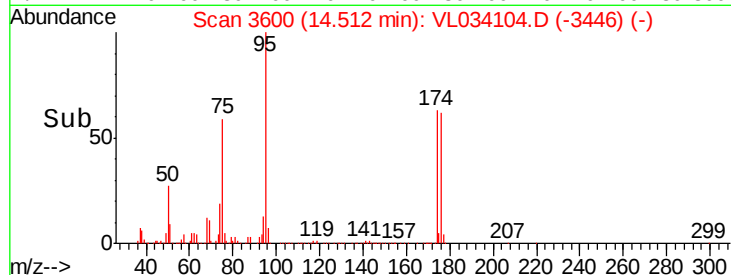
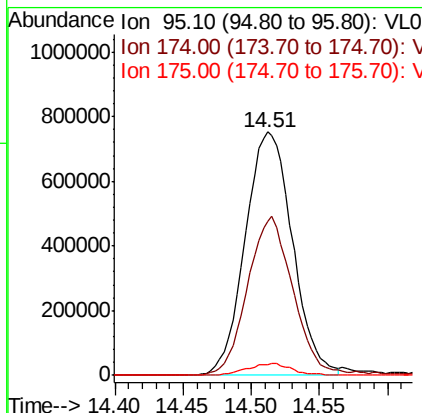
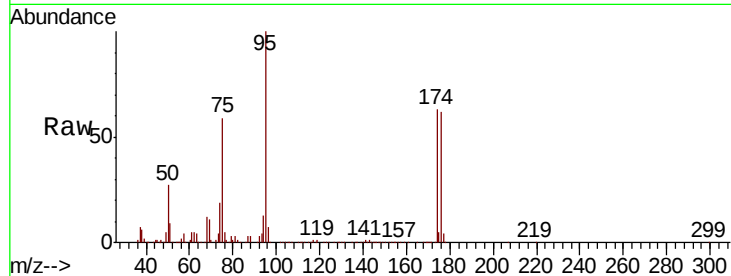




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.610 ppbv
 RT: 14.51 min Scan# 3600
 Delta R.T. -0.01 min
 Lab File: VL034104.D
 Acq: 12 Aug 2019 15:15

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

Tgt Ion: 95 Resp: 1807955
 Ion Ratio Lower Upper
 95 100
 174 64.4 53.0 79.6
 175 4.8 4.2 6.2



#74
 1,2,4-Trimethylbenzene
 Concen: 0.143 ppbv
 RT: 16.86 min Scan# 4330
 Delta R.T. -0.01 min
 Lab File: VL034104.D
 Acq: 12 Aug 2019 15:15

Tgt Ion: 105 Resp: 47631
 Ion Ratio Lower Upper
 105 100
 120 46.1 40.2 60.4
 91 13.6 38.1 57.1#
 77 12.0 17.8 26.8#

