

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081219\
 Data File : VL034105.D
 Acq On : 12 Aug 2019 15:56
 Operator : SY/AP
 Sample : K4185-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 8/16/2019 8:54:23 AM

Quant Time: Aug 13 05:16:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 0
 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	1093797	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.24	114	2095609	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.18	117	2143682	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1847542	10.62	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	86115	0.640 ppbv	91
3) Chlorodifluoromethane	2.99	51	43376m	0.343 ppbv	
4) Chloromethane	3.14	50	38993	0.478 ppbv	96
9) Propene	3.02	41	45116	0.605 ppbv #	70
11) Trichlorofluoromethane	3.97	101	33843	0.212 ppbv	99
13) Ethanol	3.62	45	275620	13.116 ppbv	97
15) Acetone	3.87	43	976821	6.250 ppbv	99
20) Methylene Chloride	4.36	84	85632m	1.827 ppbv	
26) Hexane	5.73	57	128586	0.987 ppbv #	65
34) 2-Butanone	5.28	43	138795	0.712 ppbv	100
35) Carbon Tetrachloride	7.08	117	10085m	0.063 ppbv	
36) Benzene	6.95	78	30674	0.129 ppbv #	81
38) Trichloroethene	7.90	130	3808m	0.041 ppbv	
44) 2,2,4-Trimethylpentane	7.94	57	40866m	0.096 ppbv	
53) Toluene	9.89	91	289093	1.052 ppbv	96
59) m/p-Xylene	13.06	91	48809m	0.169 ppbv	
74) 1,2,4-Trimethylbenzene	16.86	105	44359m	0.130 ppbv	

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

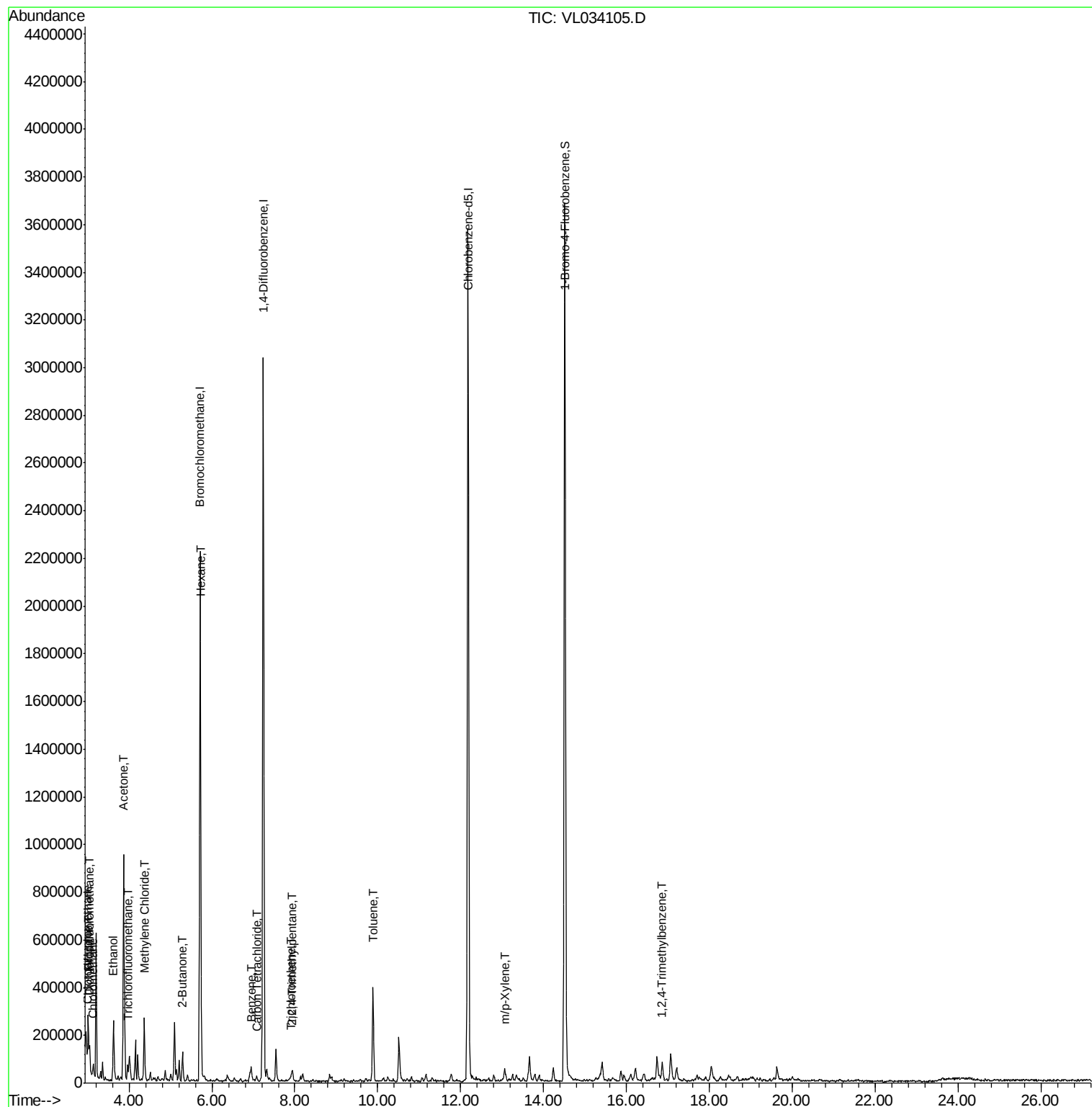
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081219\
Data File : VL034105.D
Acq On : 12 Aug 2019 15:56
Operator : SY/AP
Sample : K4185-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

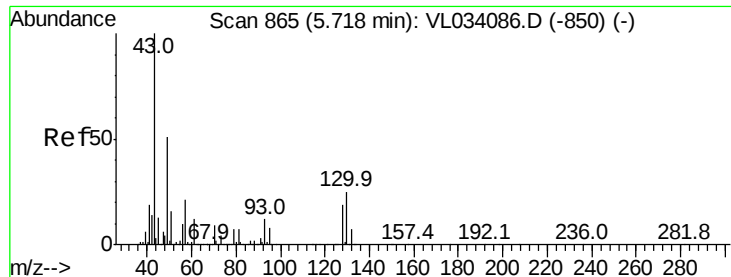
Instrument :
MSVOA_L
ClientSampleId :
BP-VPB203-AIR-DW-20190805

Manual Integrations
APPROVED

MMDadoda
8/16/2019 8:54:23 AM

Quant Time: Aug 13 05:16:20 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug
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: VL034105.D

Acq: 12 Aug 2019 15:56

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB203-AIR-DW-20190805

Tot Ion: 49 Resp: 1093797

Ion Ratio Lower Upper

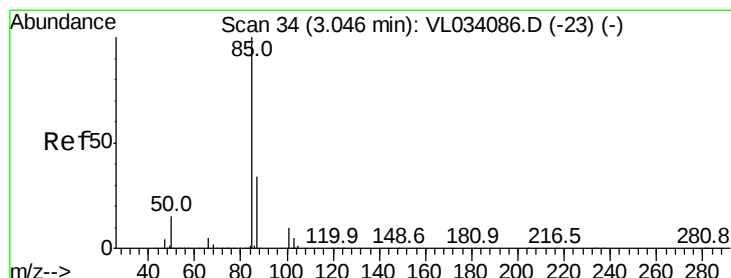
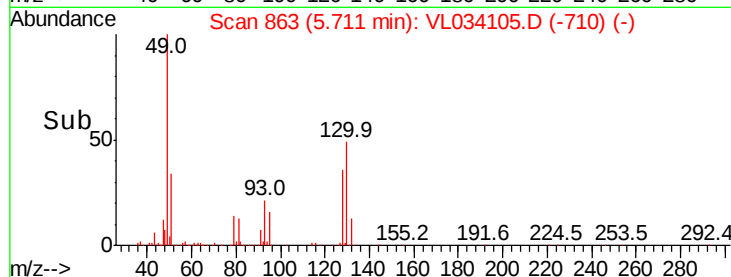
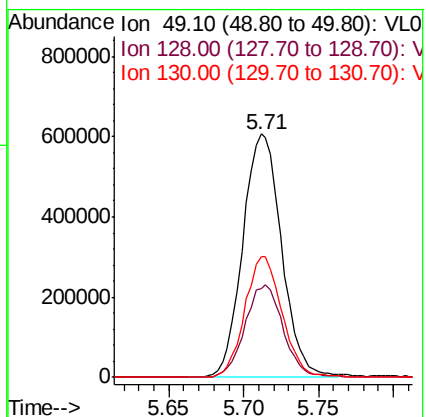
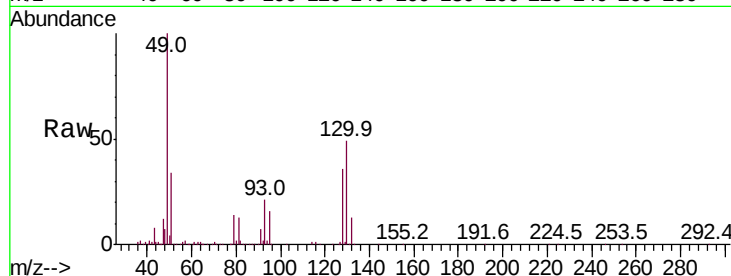
49 100

128 37.7 19.5 58.5

130 48.3 25.4 76.0

Manual Integrations
APPROVED

MMDadoda
8/16/2019 8:54:23 AM



#2

Dichlorodifluoromethane

Concen: 0.640 ppbv

RT: 3.05 min Scan# 34

Delta R.T. -0.00 min

Lab File: VL034105.D

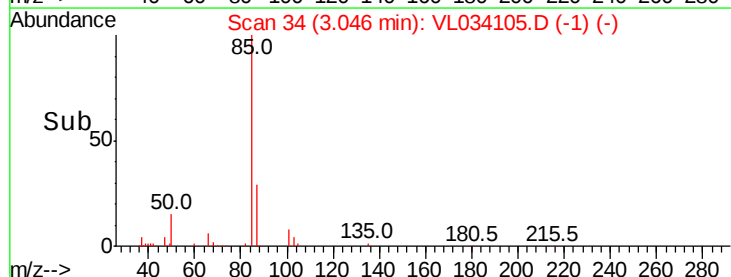
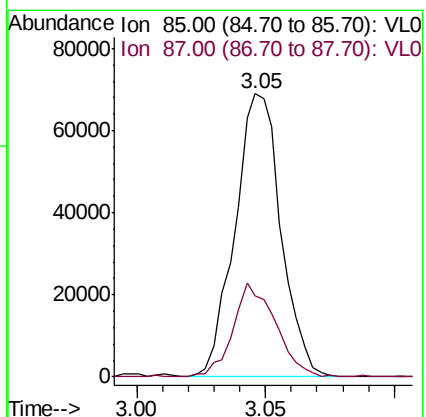
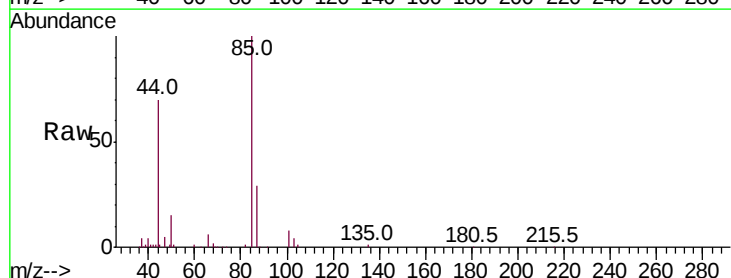
Acq: 12 Aug 2019 15:56

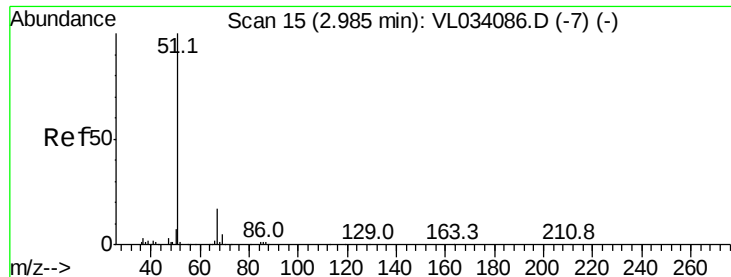
Tgt Ion: 85 Resp: 86115

Ion Ratio Lower Upper

85 100

87 28.8 27.1 40.7





#3

Chlorodifluoromethane

Concen: 0.343 ppbv

RT: 2.99 min Scan# 16

Delta R.T. 0.00 min

Lab File: VL034105.D

Acq: 12 Aug 2019 15:56

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB203-AIR-DW-20190805

Tot Ion: 51 Resp: 43376

Ion Ratio Lower Upper

51 100

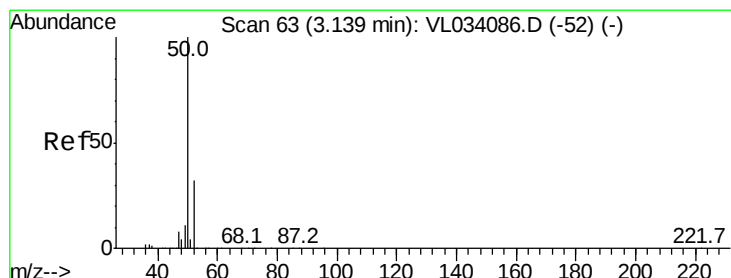
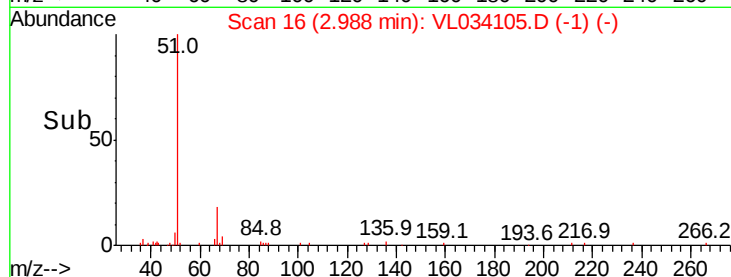
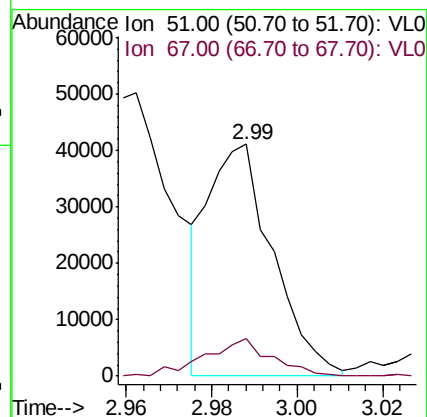
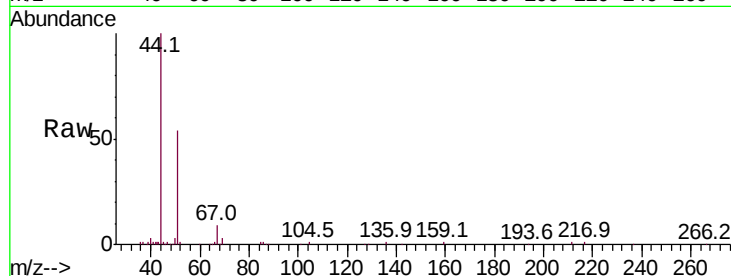
67 1.1 13.3 19.9#

Manual Integrations

APPROVED

MMDadoda

8/16/2019 8:54:23 AM



#4

Chloromethane

Concen: 0.478 ppbv

RT: 3.14 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL034105.D

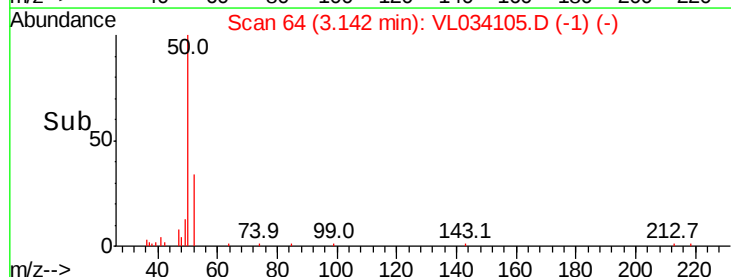
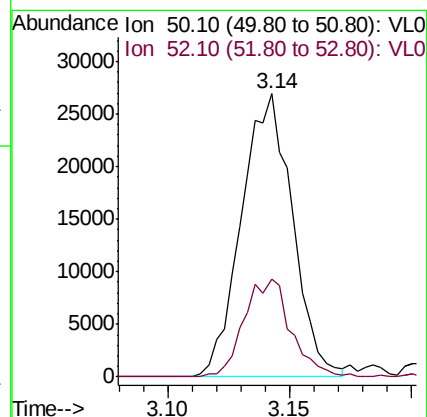
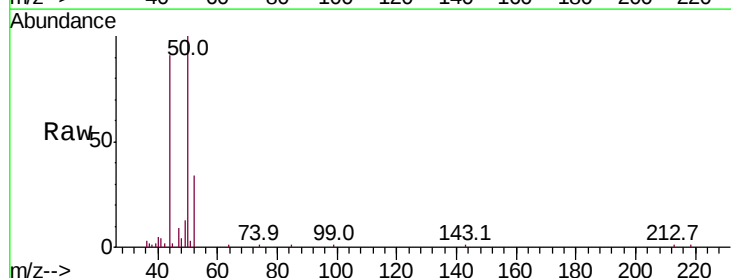
Acq: 12 Aug 2019 15:56

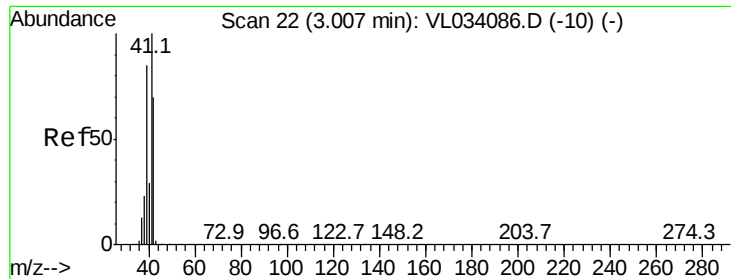
Tgt Ion: 50 Resp: 38993

Ion Ratio Lower Upper

50 100

52 34.4 25.7 38.5





#9

Propene

Concen: 0.605 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.01 min

Lab File: VL034105.D

Acq: 12 Aug 2019 15:56

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB203-AIR-DW-20190805

Tot Ion: 41 Resp: 45116

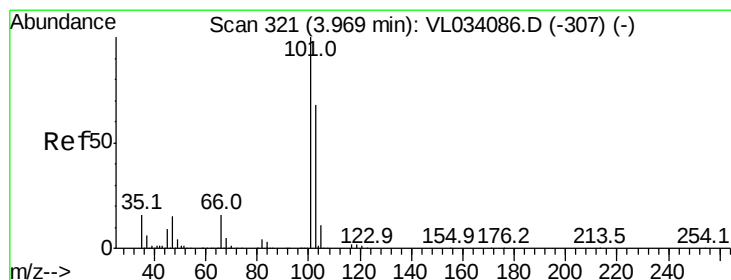
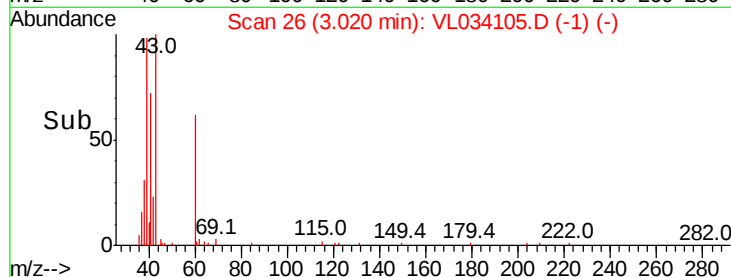
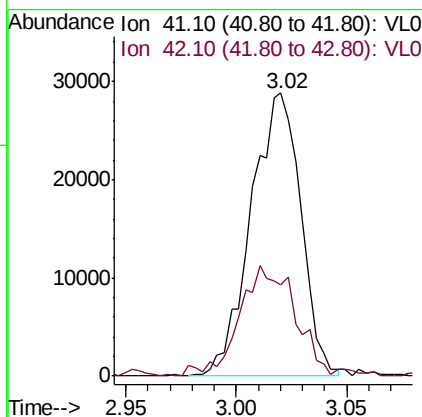
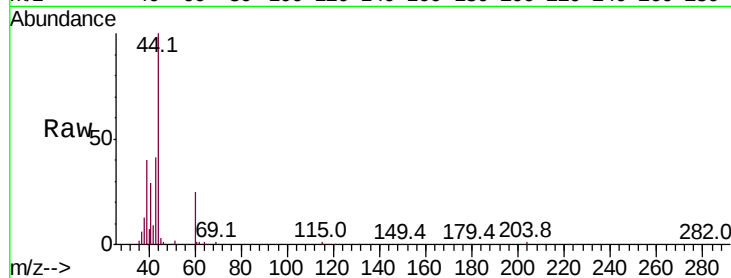
Ion Ratio Lower Upper

41 100

42 44.8 55.8 83.6#

Manual Integrations
APPROVED

MMDadoda
8/16/2019 8:54:23 AM



#11

Trichlorofluoromethane

Concen: 0.212 ppbv

RT: 3.97 min Scan# 320

Delta R.T. -0.00 min

Lab File: VL034105.D

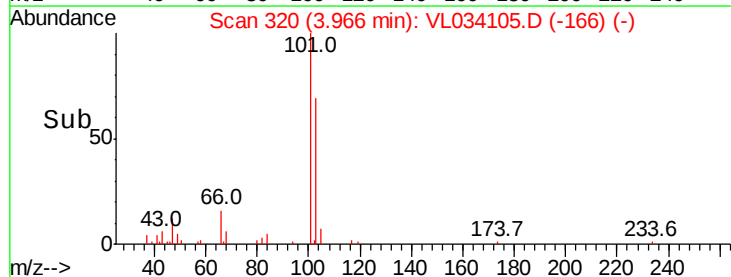
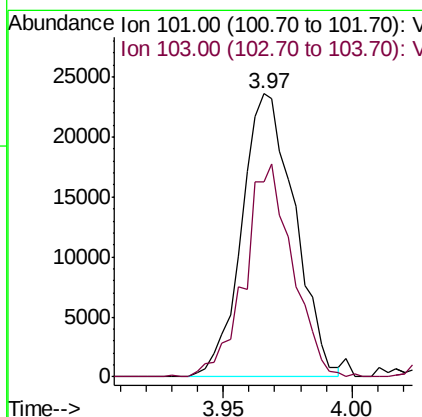
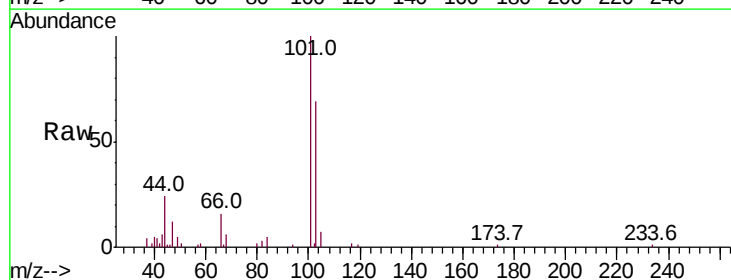
Acq: 12 Aug 2019 15:56

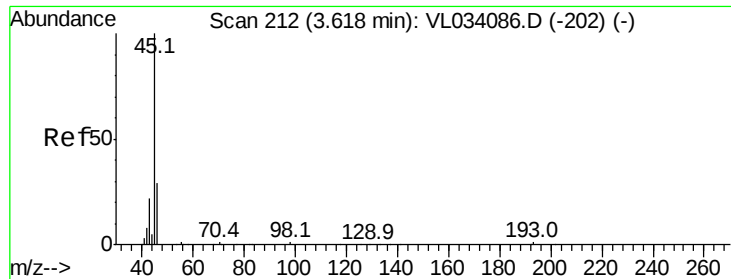
Tgt Ion: 101 Resp: 33843

Ion Ratio Lower Upper

101 100

103 69.0 54.3 81.5





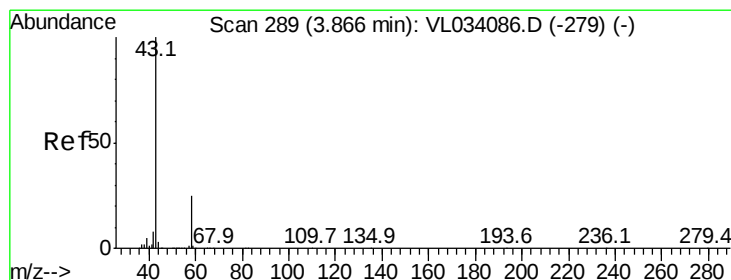
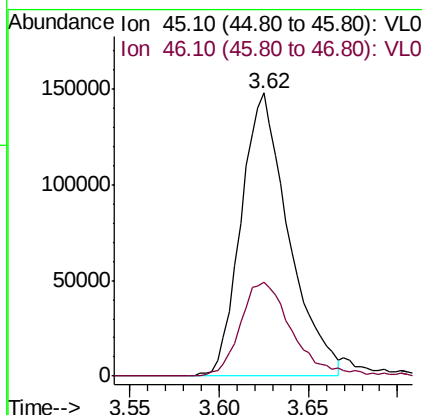
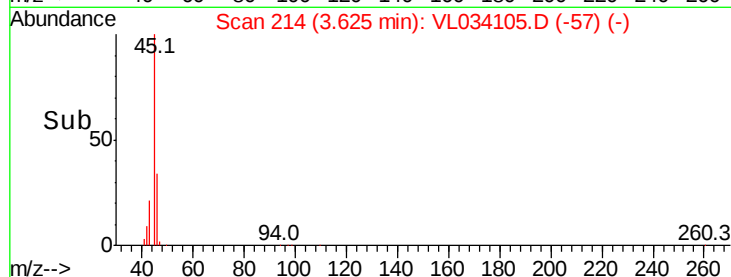
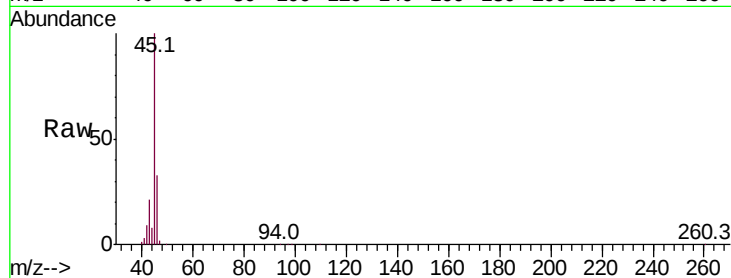
#13
Ethanol
Concen: 13.116 ppbv
RT: 3.62 min Scan# 214
Delta R.T. 0.01 min
Lab File: VL034105.D
Acq: 12 Aug 2019 15:56

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

Tot Ion	Ratio	Lower	Upper
45	100		
46	35.6	14.9	59.5

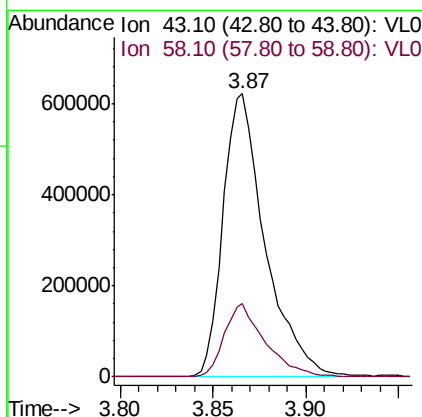
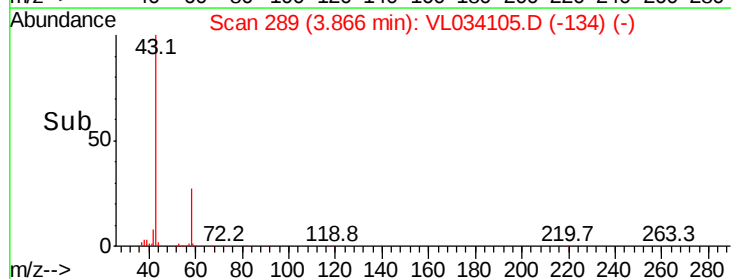
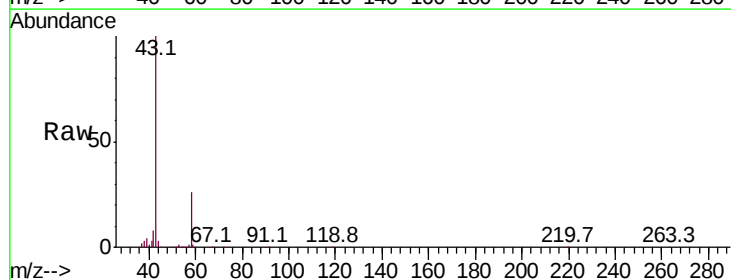
Manual Integrations
APPROVED

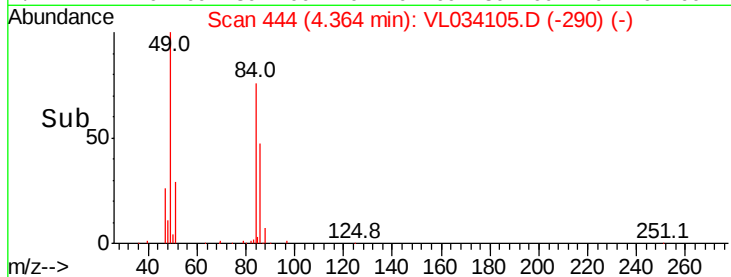
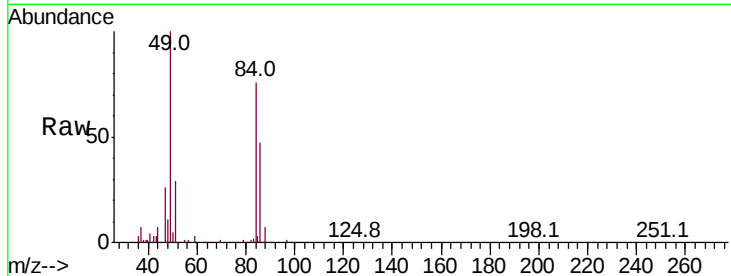
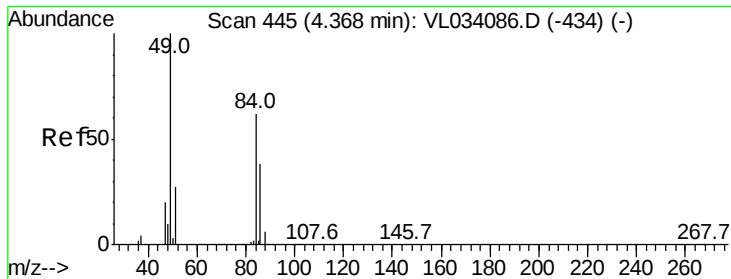
MMDadoda
8/16/2019 8:54:23 AM



#15
Acetone
Concen: 6.250 ppbv
RT: 3.87 min Scan# 289
Delta R.T. -0.00 min
Lab File: VL034105.D
Acq: 12 Aug 2019 15:56

Tgt Ion	Ratio	Lower	Upper
43	100		
58	25.3	20.6	30.8





#20

Methvlene Chloride

Concen: 1.827 ppbv m

RT: 4.36 min Scan# 444

Delta R.T. -0.00 min

Lab File: VL034105.D

Acq: 12 Aug 2019 15:56

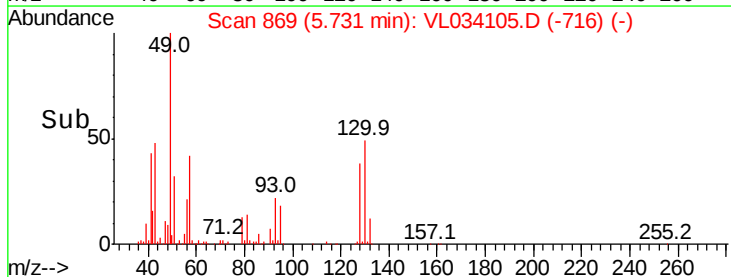
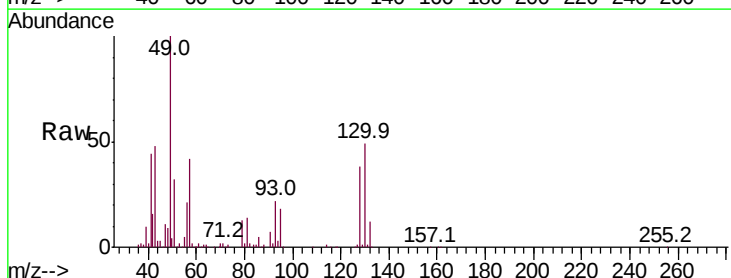
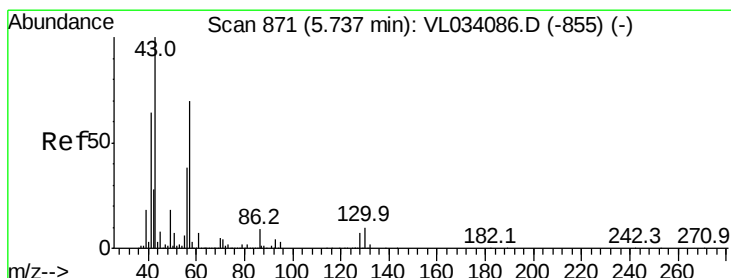
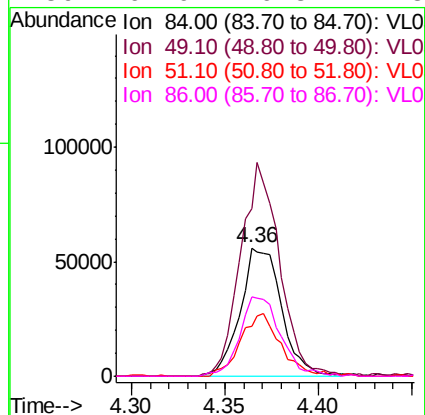
Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	131.3	129.7	194.5	
51	38.6	35.8	53.8	
86	61.9	49.8	74.8	

Instrument :
MSVOA_L

ClientSampleId :
BP-VPB203-AIR-DW-20190805

Manual Integrations
APPROVED

MMDadoda
8/16/2019 8:54:23 AM



#26

Hexane

Concen: 0.987 ppbv

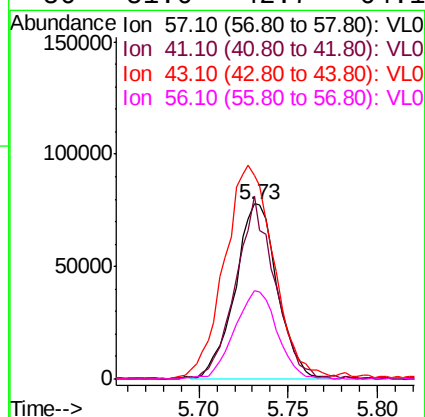
RT: 5.73 min Scan# 869

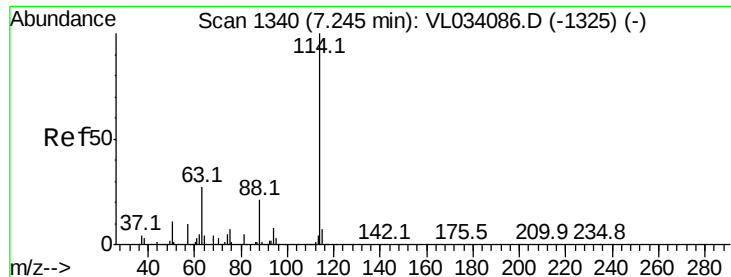
Delta R.T. -0.01 min

Lab File: VL034105.D

Acq: 12 Aug 2019 15:56

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	98.3	75.7	113.5	
43	145.5	189.8	284.8#	
56	51.6	42.7	64.1	





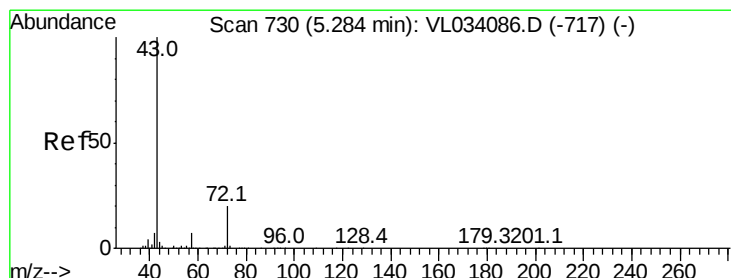
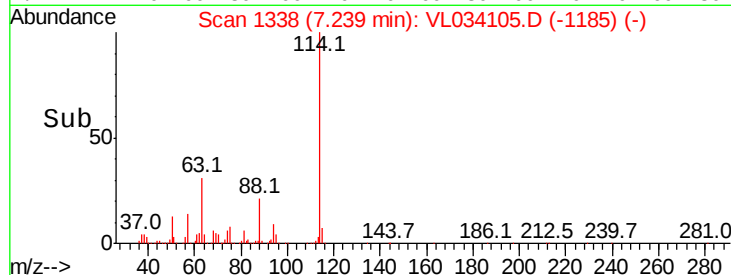
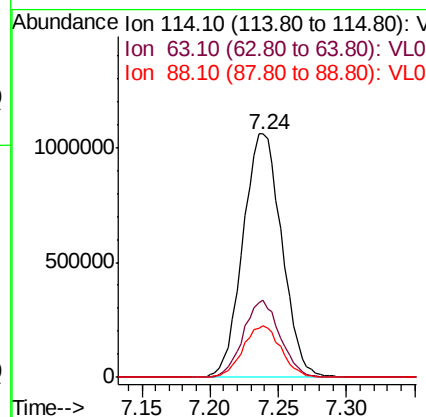
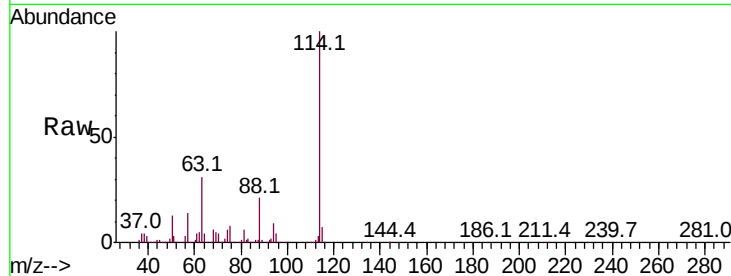
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1338
 Delta R.T. -0.01 min
 Lab File: VL034105.D
 Acq: 12 Aug 2019 15:56

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

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.0	22.5	33.7
88	20.7	15.7	23.5

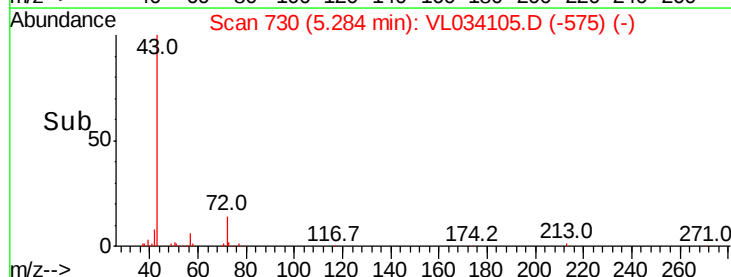
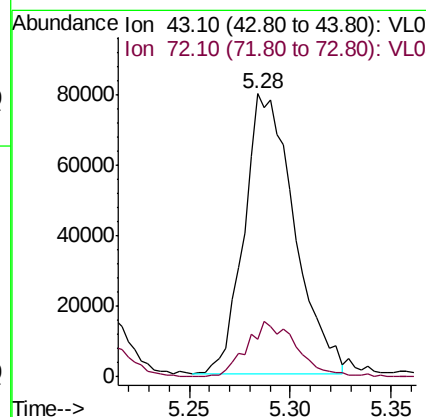
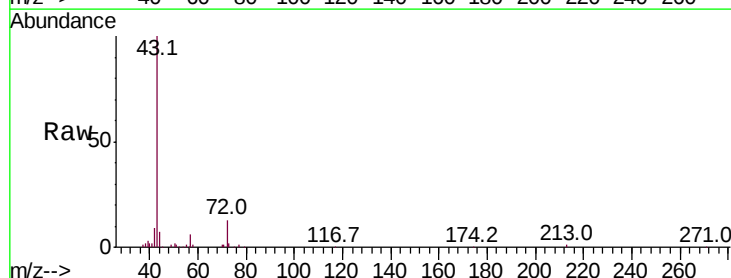
Manual Integrations
 APPROVED

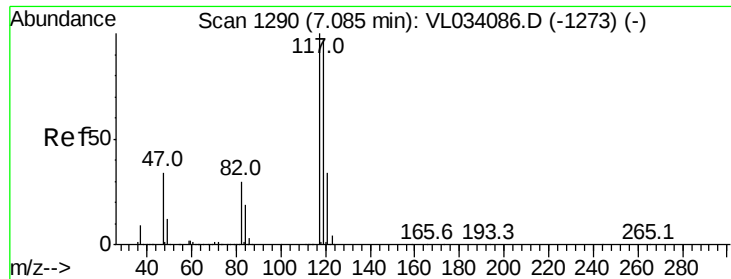
MMDadoda
 8/16/2019 8:54:23 AM



#34
 2-Butanone
 Concen: 0.712 ppbv
 RT: 5.28 min Scan# 730
 Delta R.T. -0.00 min
 Lab File: VL034105.D
 Acq: 12 Aug 2019 15:56

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.9	16.0	24.0





#35

Carbon Tetrachloride

Concen: 0.063 ppbv m

RT: 7.08 min Scan# 1288

Delta R.T. -0.01 min

Lab File: VL034105.D

Acq: 12 Aug 2019 15:56

Instrument :

MSVOA_L

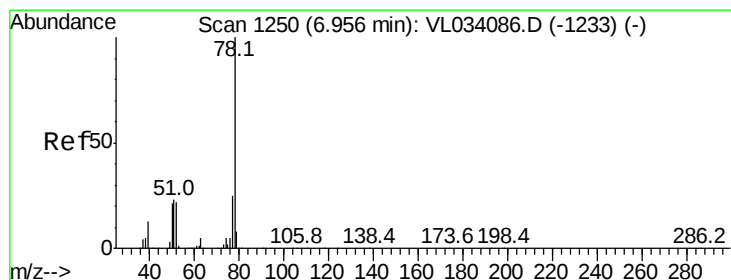
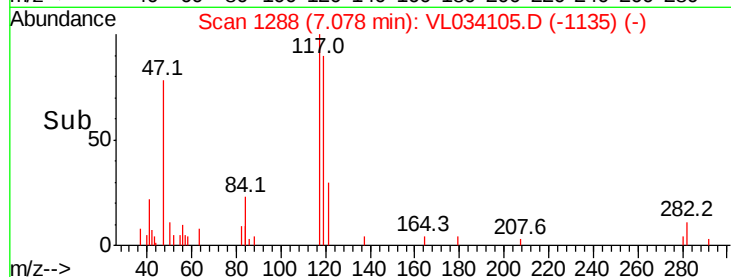
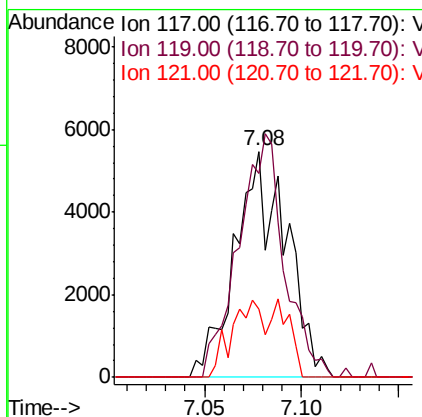
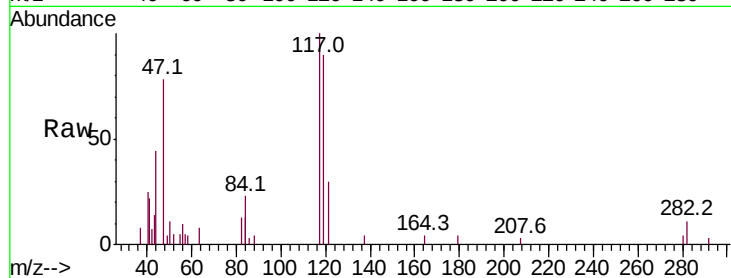
ClientSampleId :

BP-VPB203-AIR-DW-20190805

Tot Ion:	117	Resp:	10085
Ion Ratio	Lower	Upper	
117	100		
119	90.1	77.8	116.6
121	30.1	27.4	41.2

Manual Integrations
APPROVED

MMDadoda
8/16/2019 8:54:23 AM



#36

Benzene

Concen: 0.129 ppbv

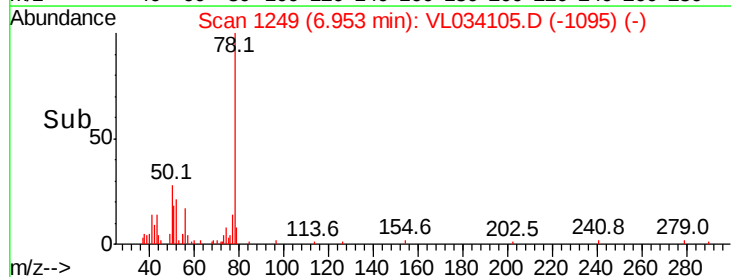
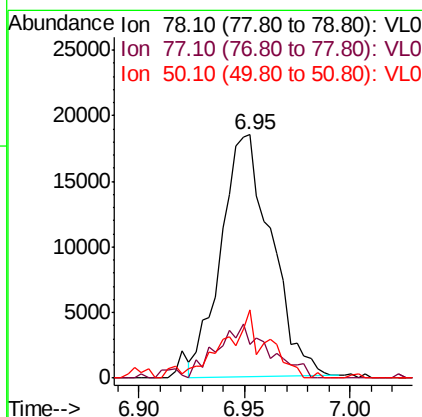
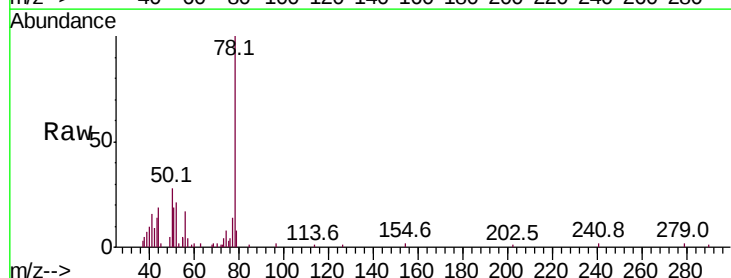
RT: 6.95 min Scan# 1249

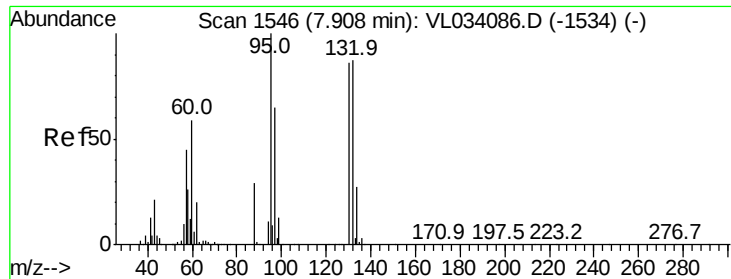
Delta R.T. -0.00 min

Lab File: VL034105.D

Acq: 12 Aug 2019 15:56

Tgt Ion:	78	Resp:	30674
Ion Ratio	Lower	Upper	
78	100		
77	14.0	19.9	29.9#
50	28.4	16.7	25.1#





#38

Trichloroethene

Concen: 0.041 ppbv m

RT: 7.90 min Scan# 1545

Delta R.T. -0.00 min

Lab File: VL034105.D

Acq: 12 Aug 2019 15:56

Instrument :

MSVOA_L

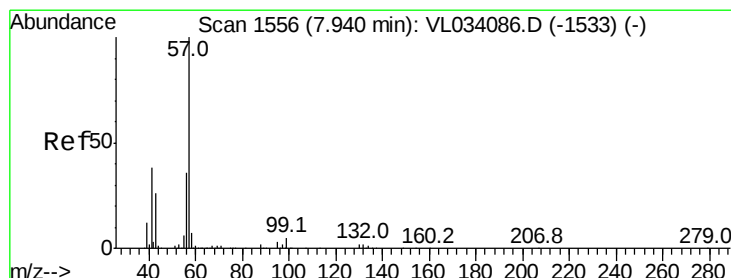
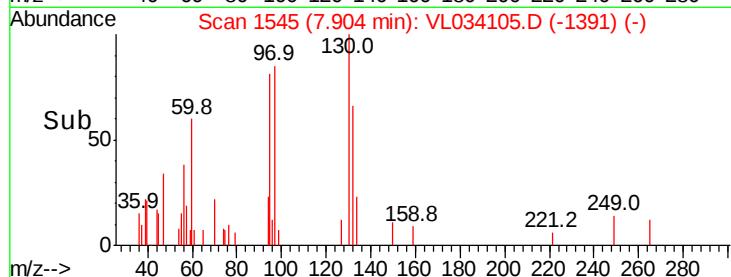
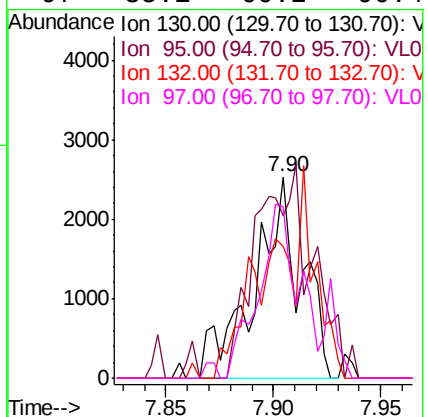
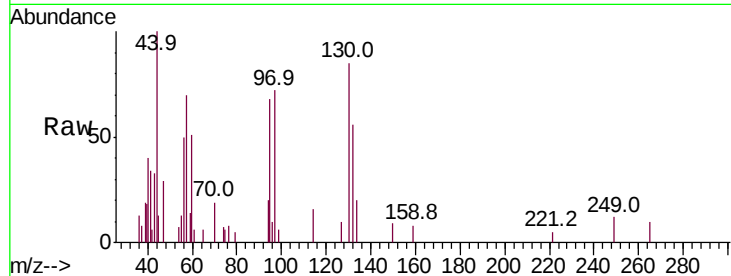
ClientSampleId :

BP-VPB203-AIR-DW-20190805

Tot Ion:	130	Resp:	3808
Ion Ratio	Lower	Upper	
130	100		
95	80.6	92.1	138.1#
132	65.7	79.7	119.5#
97	85.1	60.2	90.4

Manual Integrations
APPROVED

MMDadoda
8/16/2019 8:54:23 AM



#44

2,2,4-Trimethylpentane

Concen: 0.096 ppbv m

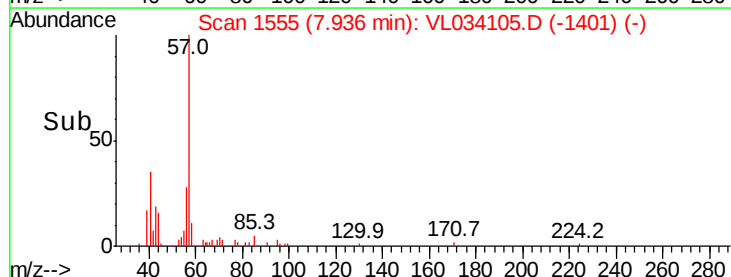
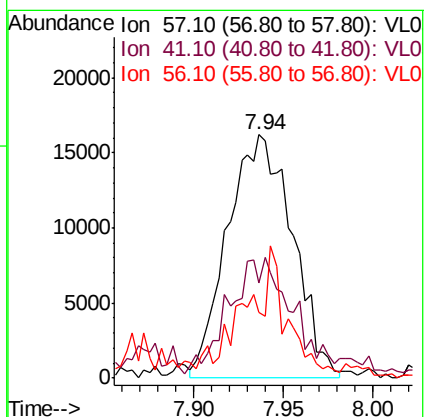
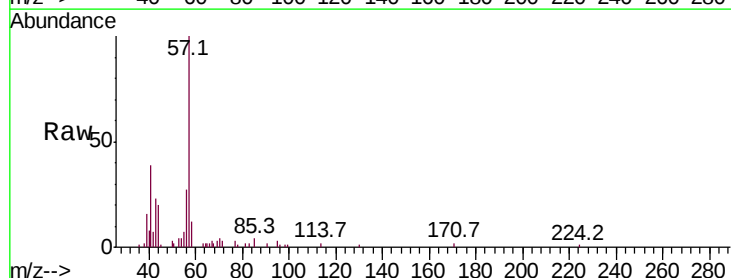
RT: 7.94 min Scan# 1555

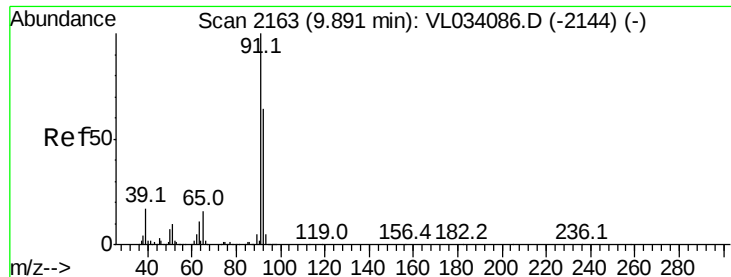
Delta R.T. -0.00 min

Lab File: VL034105.D

Acq: 12 Aug 2019 15:56

Tgt Ion:	57	Resp:	40866
Ion Ratio	Lower	Upper	
57	100		
41	0.0	29.2	43.8#
56	0.0	26.7	40.1#





#53

Toluene

Concen: 1.052 ppbv

RT: 9.89 min Scan# 2162

Delta R.T. -0.00 min

Lab File: VL034105.D

Acq: 12 Aug 2019 15:56

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB203-AIR-DW-20190805

Tot Ion: 91 Resp: 289093

Ion Ratio Lower Upper

91 100

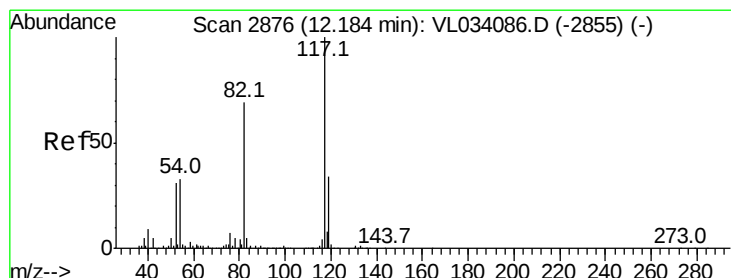
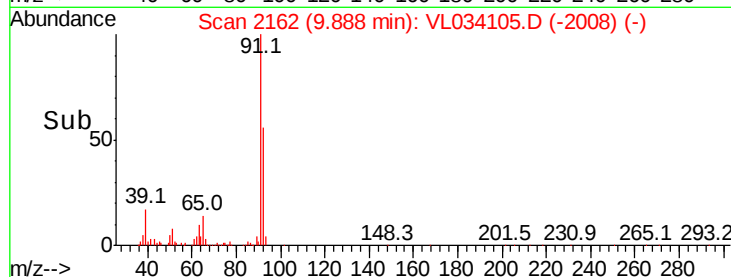
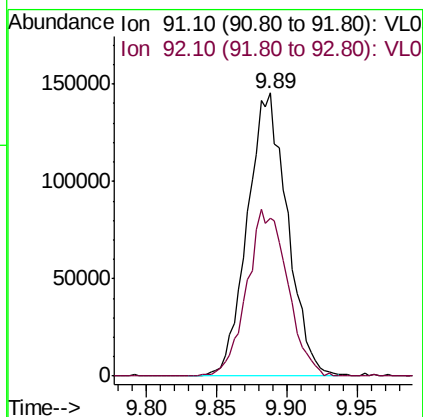
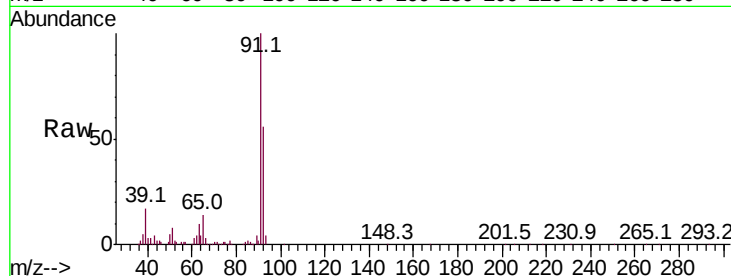
92 59.6 50.3 75.5

Manual Integrations

APPROVED

MMDadoda

8/16/2019 8:54:23 AM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.18 min Scan# 2874

Delta R.T. -0.01 min

Lab File: VL034105.D

Acq: 12 Aug 2019 15:56

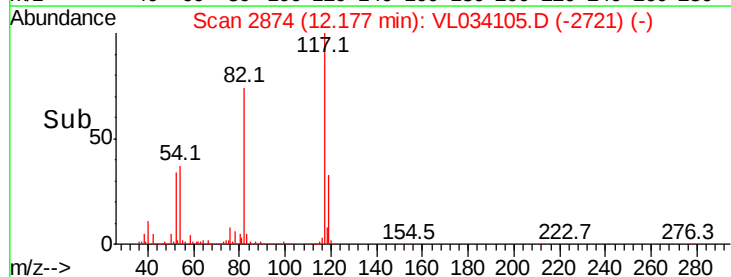
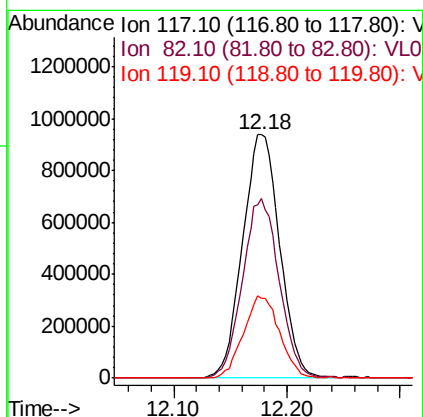
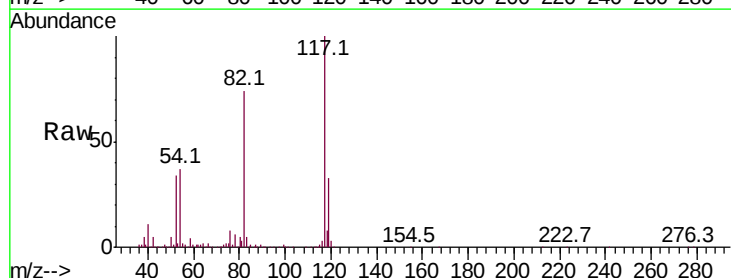
Tgt Ion: 117 Resp: 2143682

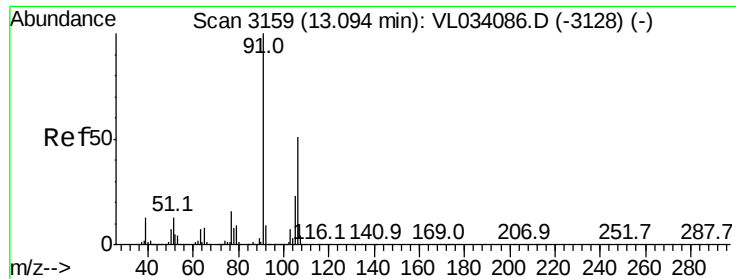
Ion Ratio Lower Upper

117 100

82 73.2 52.2 78.4

119 33.0 44.8 67.2#





#59

m/p-Xylene

Concen: 0.169 ppbv m

RT: 13.06 min Scan# 3149

Delta R.T. -0.03 min

Lab File: VL034105.D

Acq: 12 Aug 2019 15:56

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB203-AIR-DW-20190805

Tot Ion: 91 Resp: 48809

Ion Ratio Lower Upper

91 100

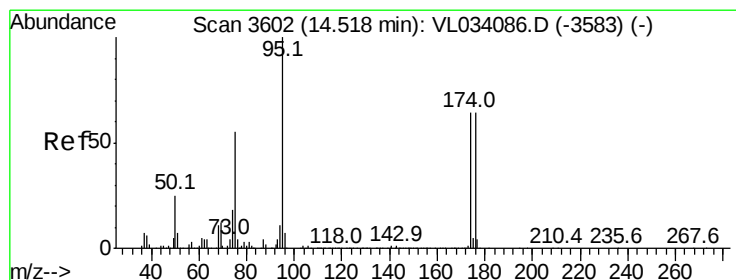
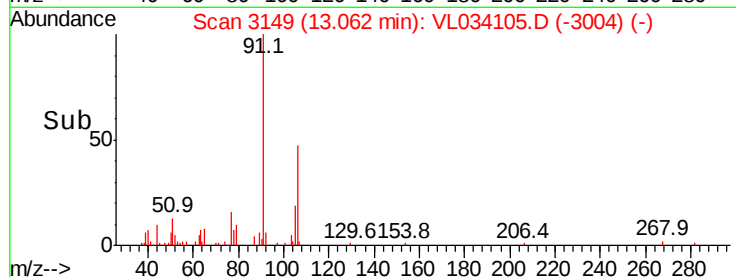
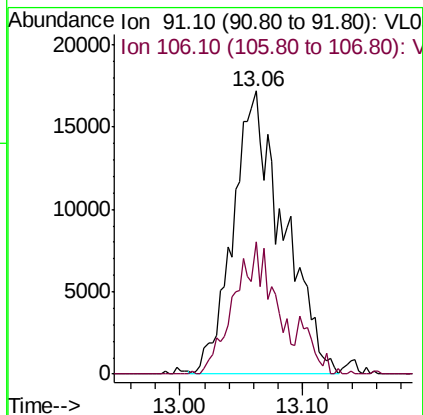
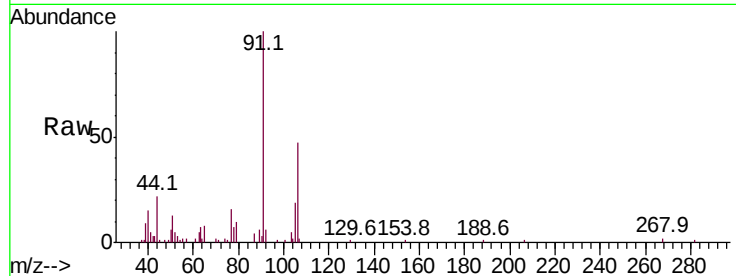
106 0.0 38.7 58.1#

Manual Integrations

APPROVED

MMDadoda

8/16/2019 8:54:23 AM



#68

1-Bromo-4-Fluorobenzene

Concen: 10.622 ppbv

RT: 14.51 min Scan# 3600

Delta R.T. -0.01 min

Lab File: VL034105.D

Acq: 12 Aug 2019 15:56

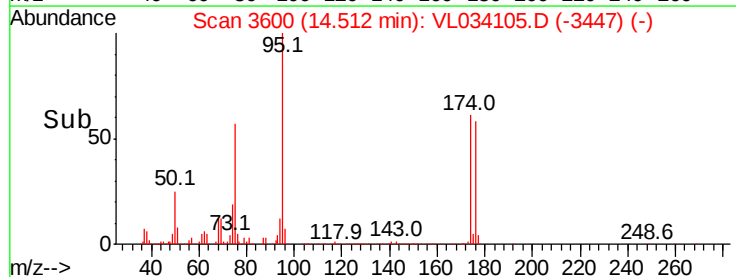
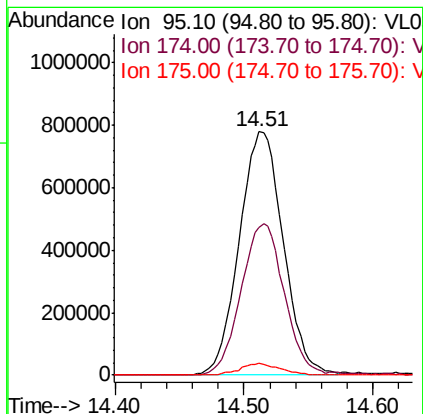
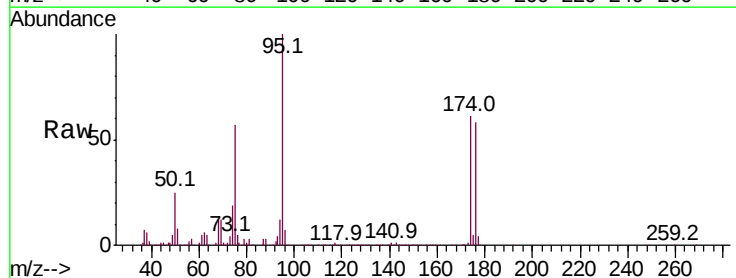
Tgt Ion: 95 Resp: 1847542

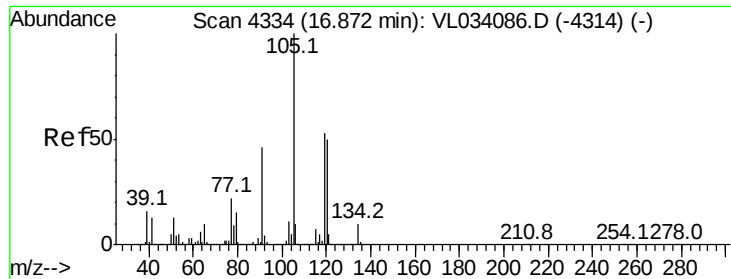
Ion Ratio Lower Upper

95 100

174 62.4 53.0 79.6

175 4.5 4.2 6.2





#74

1,2,4-Trimethylbenzene

Concen: 0.130 ppbv m

RT: 16.86 min Scan# 4331

Delta R.T. -0.01 min

Lab File: VL034105.D

Acq: 12 Aug 2019 15:56

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB203-AIR-DW-20190805

Tot Ion	Ratio	Resp	Lower	Upper
105	100			
120	33.9	40.2	60.4#	
91	9.2	38.1	57.1#	
77	26.1	17.8	26.8	

Manual Integrations
APPROVED

MMDadoda
8/16/2019 8:54:23 AM

