

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

Manual Integrations
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 8/16/2019 8:54:21 AM

Quant Time: Aug 13 05:09:27 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	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	Ovalue
2) Dichlorodifluoromethane	3.05	85	25122m	0.201	ppbv	
3) Chlorodifluoromethane	2.99	51	42405	0.361	ppbv	99
4) Chloromethane	3.14	50	32874	0.434	ppbv	90
9) Propene	3.02	41	34564m	0.498	ppbv	
11) Trichlorofluoromethane	3.97	101	36284	0.244	ppbv	88
13) Ethanol	3.62	45	101914m	5.215	ppbv	
15) Acetone	3.86	43	967573	6.656	ppbv	98
20) Methylene Chloride	4.36	84	99856	2.291	ppbv	97
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	9652m	0.063	ppbv	
36) Benzene	6.95	78	32807m	0.146	ppbv	
53) Toluene	9.88	91	183756	0.707	ppbv	94
59) m/p-Xylene	13.06	91	35961m	0.127	ppbv	
74) 1,2,4-Trimethylbenzene	16.86	105	47631	0.143	ppbv #	73

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

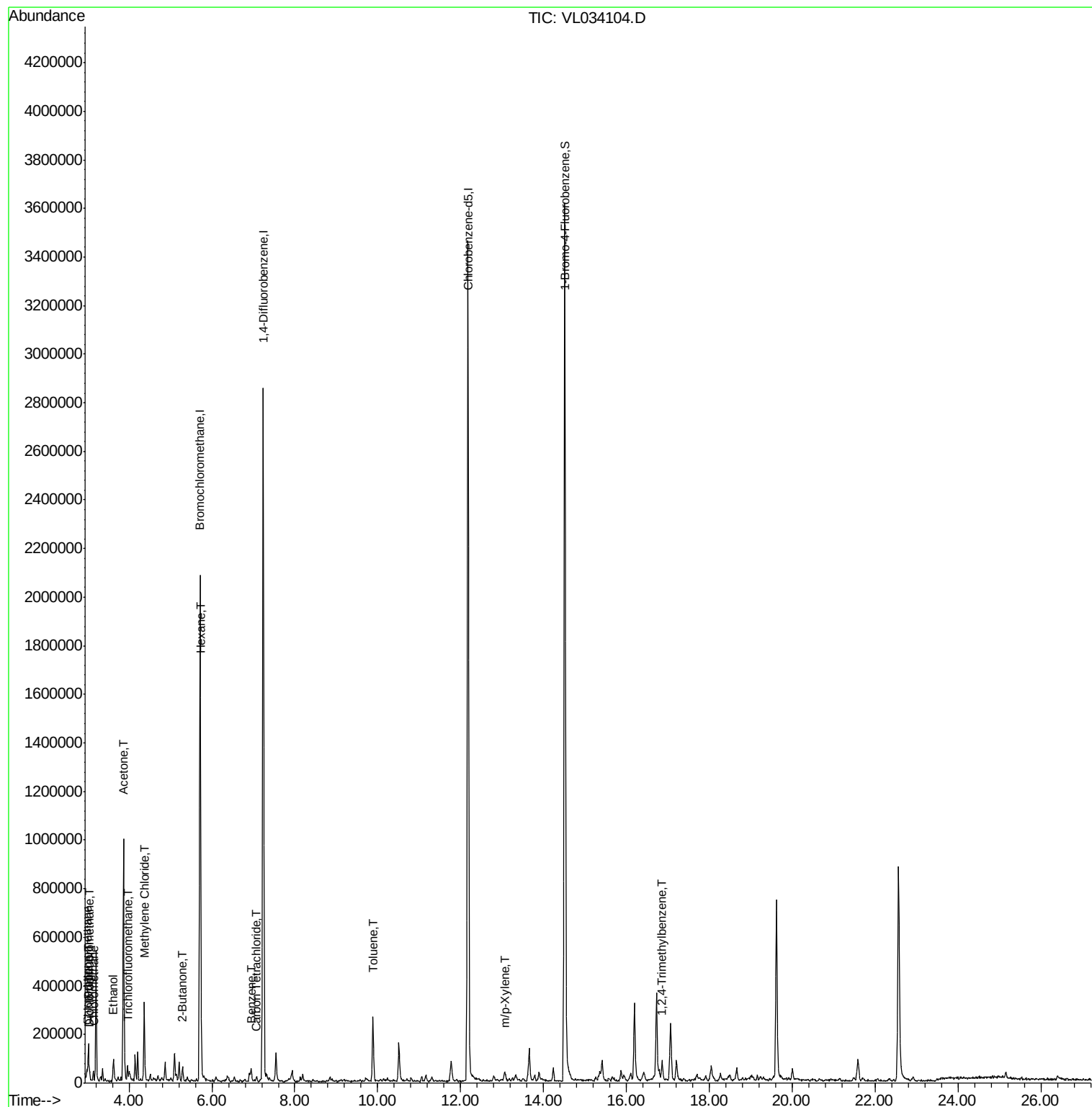
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081219\
Data File : VL034104.D
Acq On : 12 Aug 2019 15:15
Operator : SY/AP
Sample : K4185-01DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

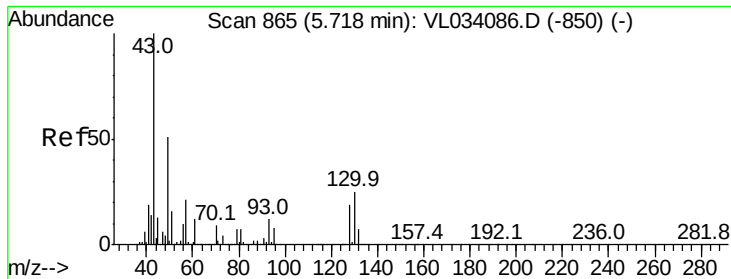
Instrument :
MSVOA_L
ClientSampleId :
BP-VPB203-AIR-UW-20190805DUP

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8/16/2019 8:54:21 AM

Quant Time: Aug 13 05:09:27 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: VL034104.D

Acq: 12 Aug 2019 15:15

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB203-AIR-UW-20190805DUP

Tot Ion: 49 Resp: 1017215

Ion Ratio Lower Upper

49 100

128 37.9 19.5 58.5

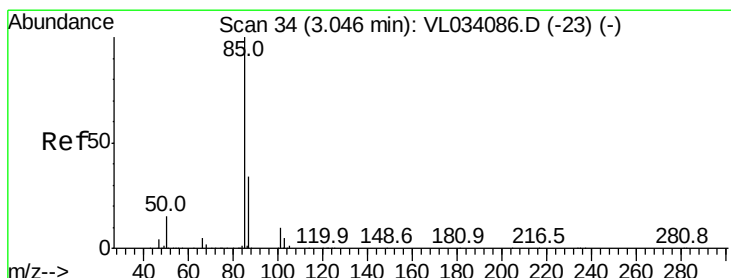
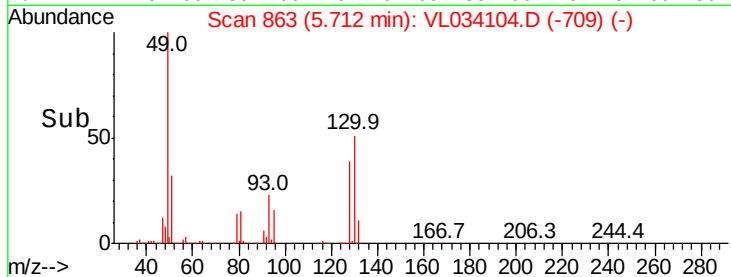
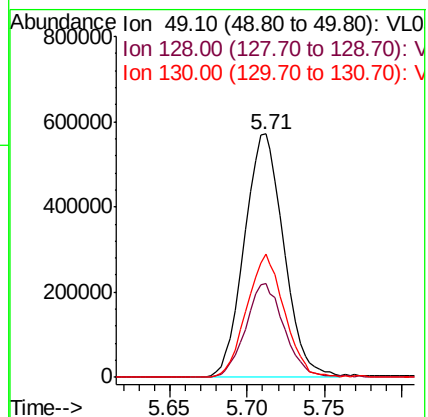
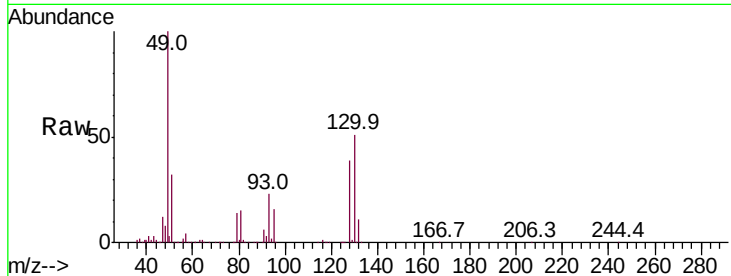
130 49.0 25.4 76.0

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#2

Dichlorodifluoromethane

Concen: 0.201 ppbv m

RT: 3.05 min Scan# 35

Delta R.T. 0.00 min

Lab File: VL034104.D

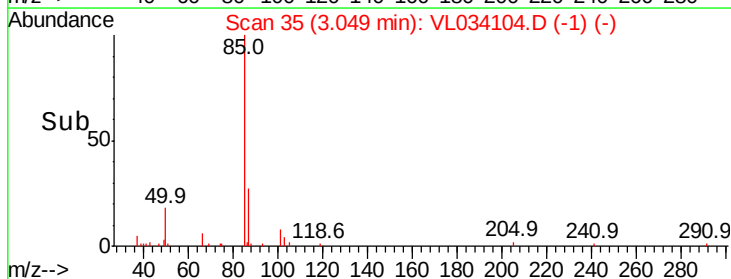
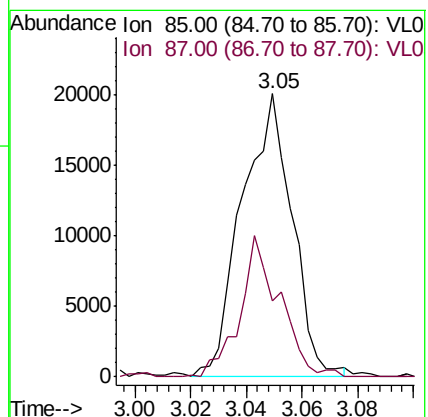
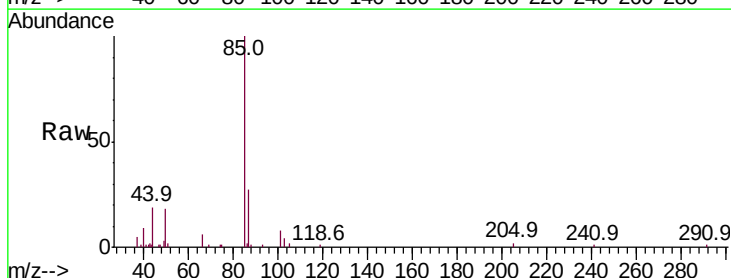
Acq: 12 Aug 2019 15:15

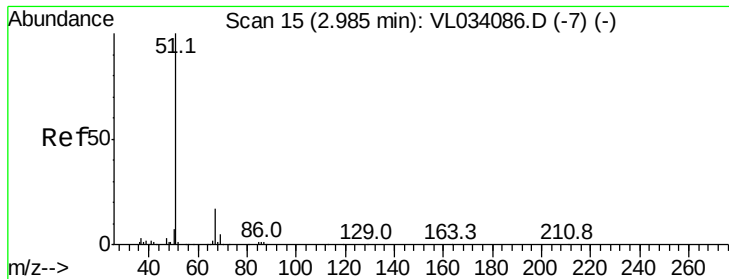
Tgt Ion: 85 Resp: 25122

Ion Ratio Lower Upper

85 100

87 27.0 27.1 40.7#





#3

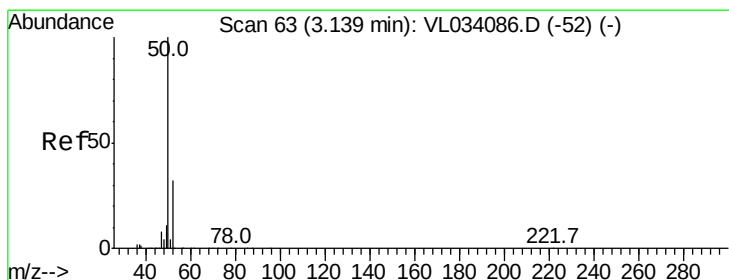
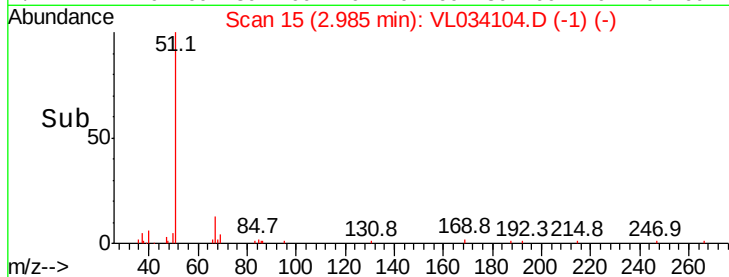
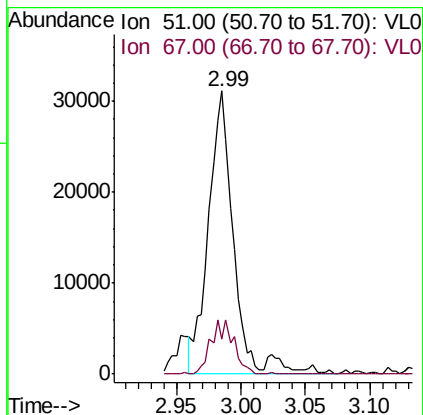
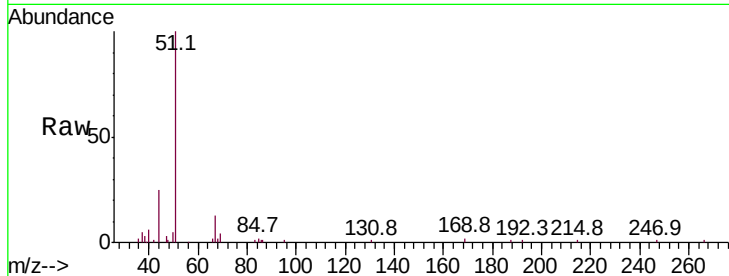
Chlorodifluoromethane
 Concen: 0.361 ppbv
 RT: 2.99 min Scan# 15
 Delta R.T. 0.00 min
 Lab File: VL034104.D
 Acq: 12 Aug 2019 15:15

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

Tot Ion	Ratio	Resp	Lower	Upper
51	100	42405		
67	17.0		13.3	19.9

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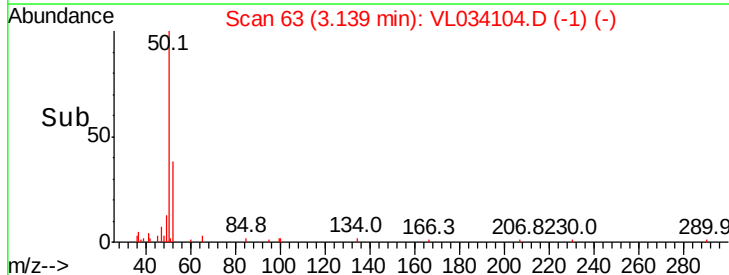
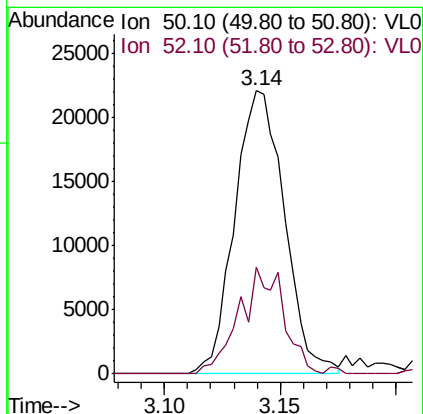
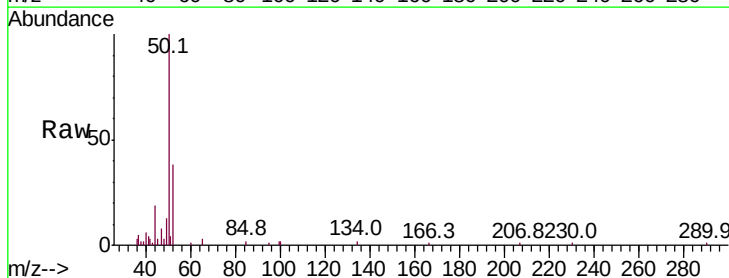
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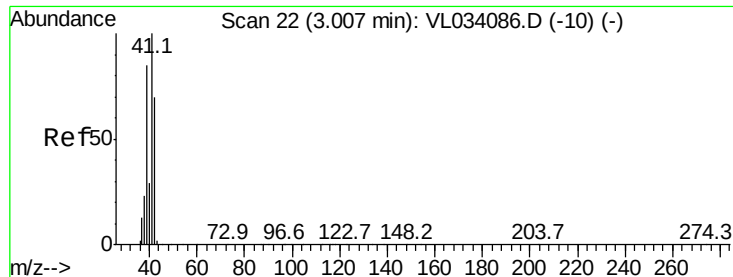


#4

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

Tgt Ion	Ratio	Resp	Lower	Upper
50	100	32874		
52	37.5		25.7	38.5





#9

Propene

Concen: 0.498 ppbv m

RT: 3.02 min Scan# 26

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

Tot Ion: 41 Resp: 34564

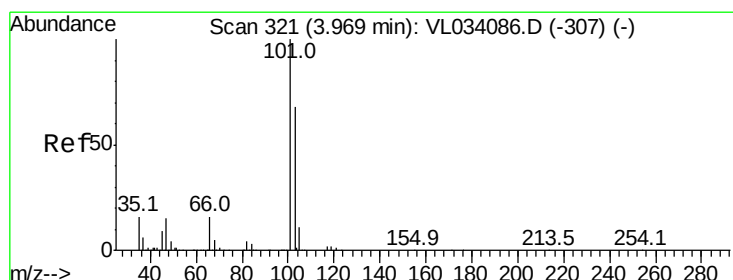
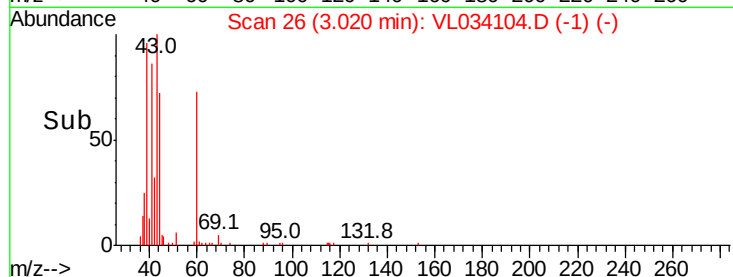
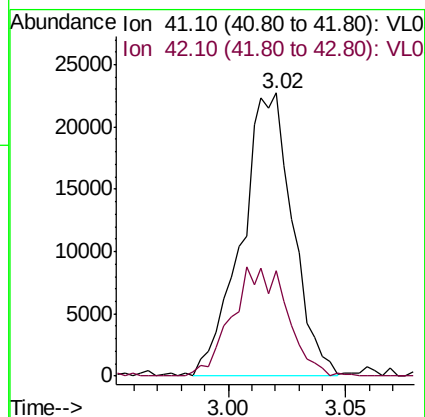
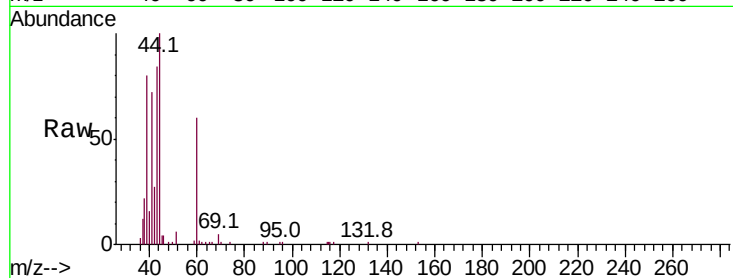
Ion Ratio Lower Upper

41 100

42 41.4 55.8 83.6#

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#11

Trichlorofluoromethane

Concen: 0.244 ppbv

RT: 3.97 min Scan# 321

Delta R.T. 0.00 min

Lab File: VL034104.D

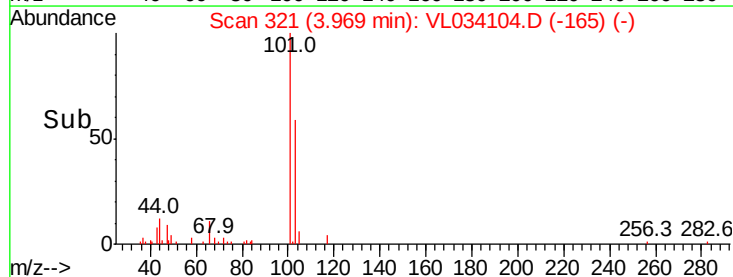
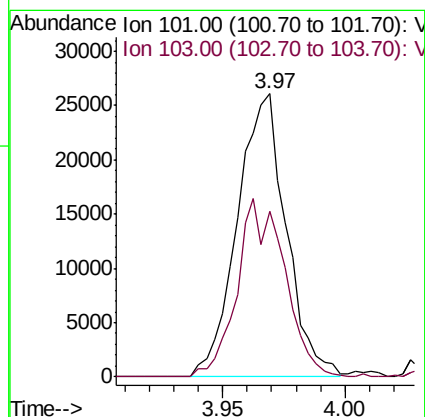
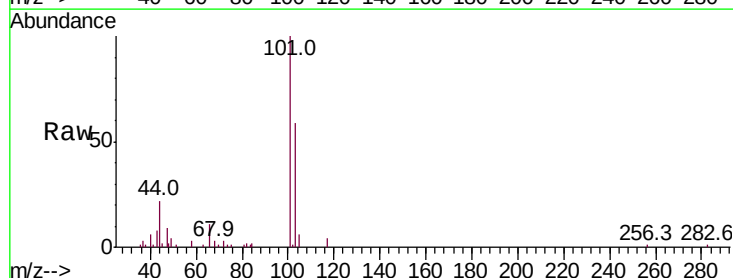
Acq: 12 Aug 2019 15:15

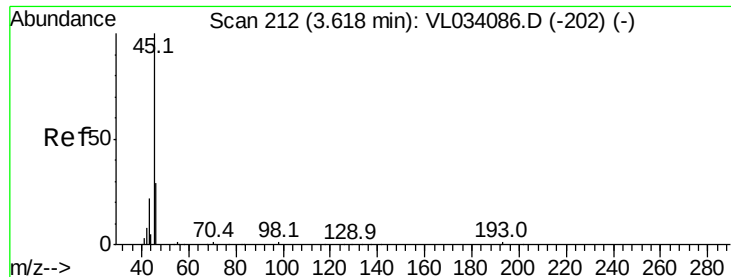
Tgt Ion: 101 Resp: 36284

Ion Ratio Lower Upper

101 100

103 58.5 54.3 81.5





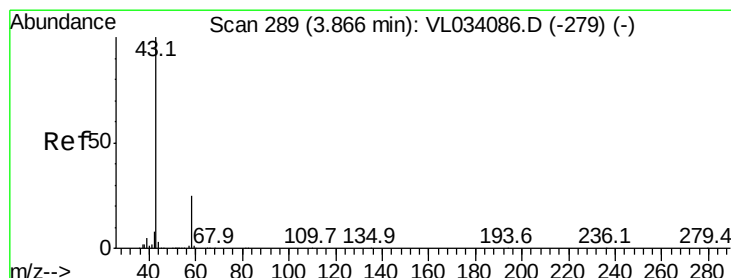
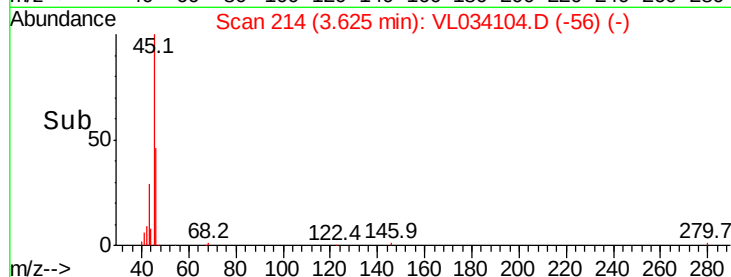
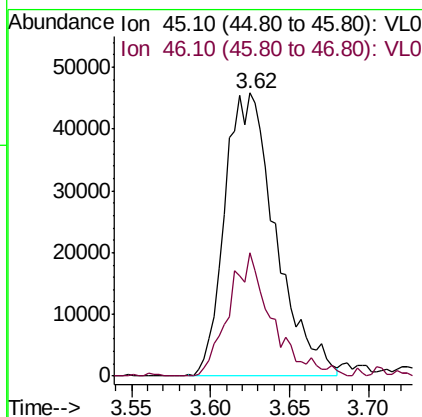
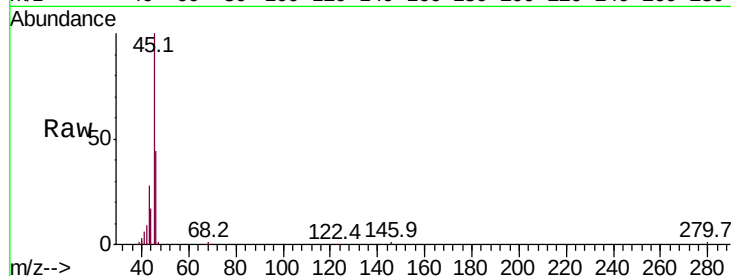
#13
Ethanol
Concen: 5.215 ppbv m
RT: 3.62 min Scan# 214
Delta R.T. 0.01 min
Lab File: VL034104.D
Acq: 12 Aug 2019 15:15

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

Tot Ion: 45 Resp: 101914
Ion Ratio Lower Upper
45 100
46 0.0 14.9 59.5#

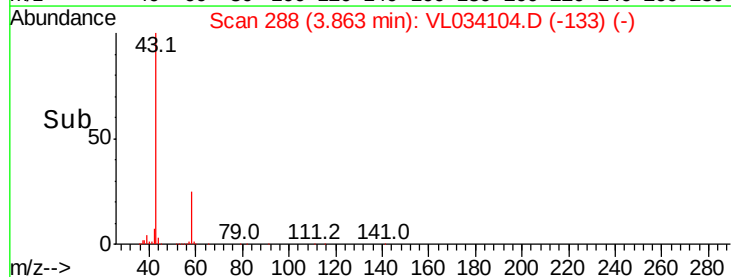
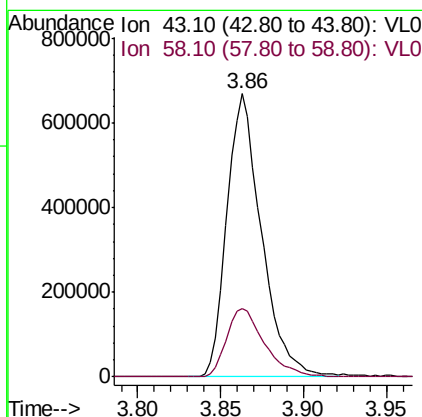
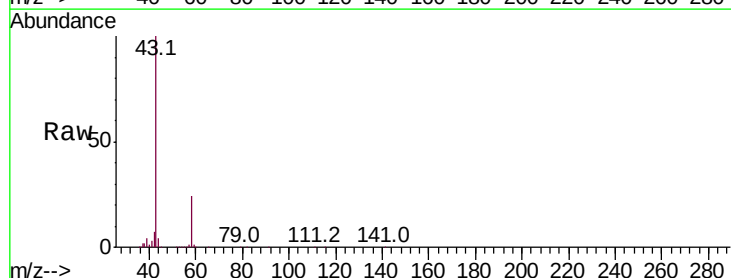
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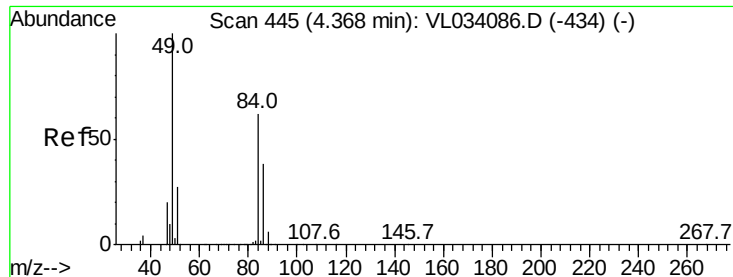
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#15
Acetone
Concen: 6.656 ppbv
RT: 3.86 min Scan# 288
Delta R.T. -0.00 min
Lab File: VL034104.D
Acq: 12 Aug 2019 15:15

Tgt Ion: 43 Resp: 967573
Ion Ratio Lower Upper
43 100
58 26.7 20.6 30.8





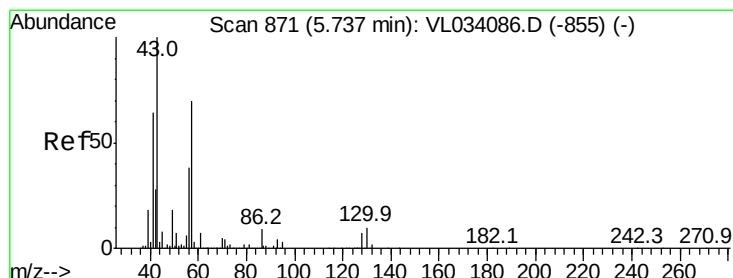
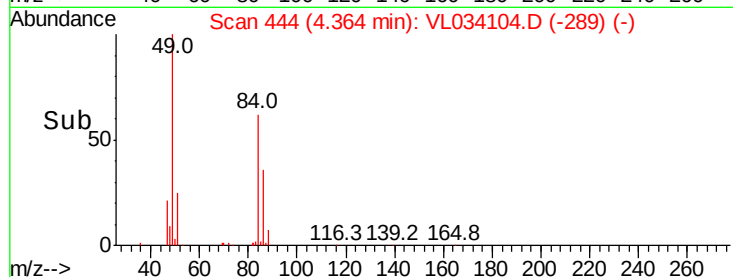
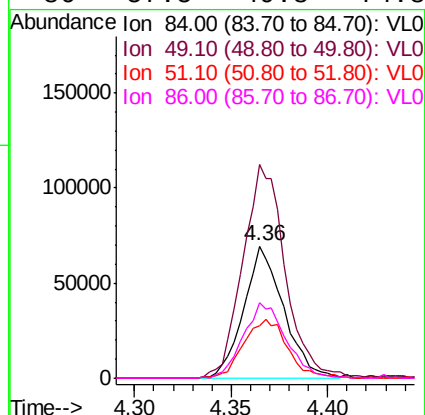
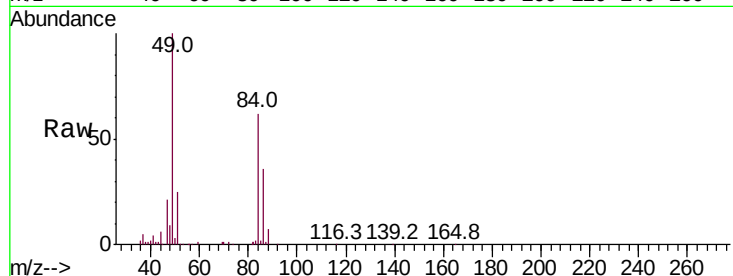
#20
Methvlene Chloride
Concen: 2.291 ppbv
RT: 4.36 min Scan# 444
Delta R.T. -0.00 min
Lab File: VL034104.D
Acq: 12 Aug 2019 15:15

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

Tot Ion	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	

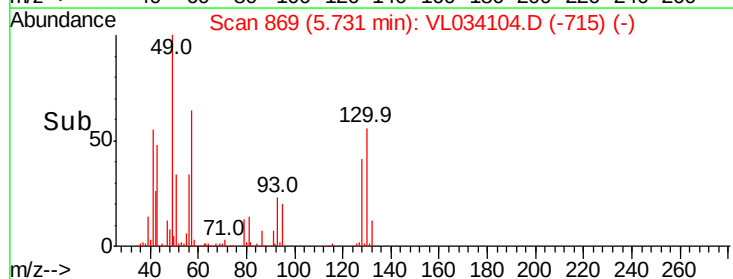
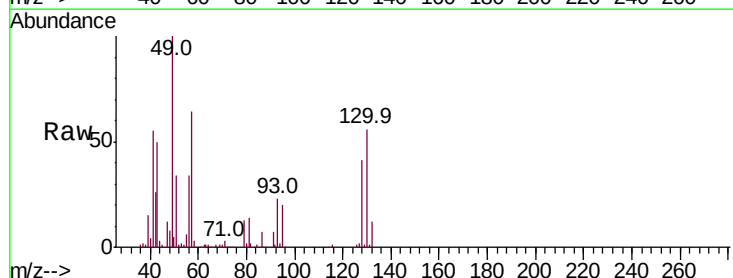
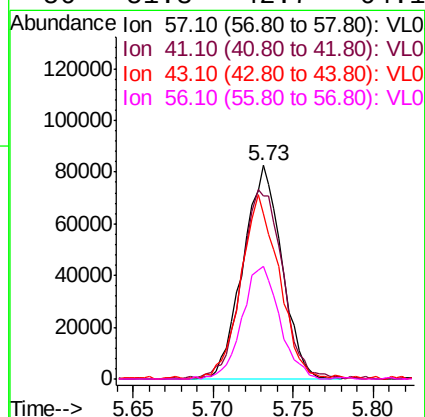
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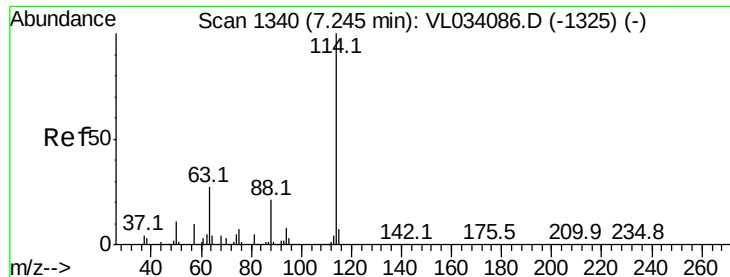
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#26
Hexane
Concen: 1.122 ppbv
RT: 5.73 min Scan# 869
Delta R.T. -0.01 min
Lab File: VL034104.D
Acq: 12 Aug 2019 15:15

Tgt Ion	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	





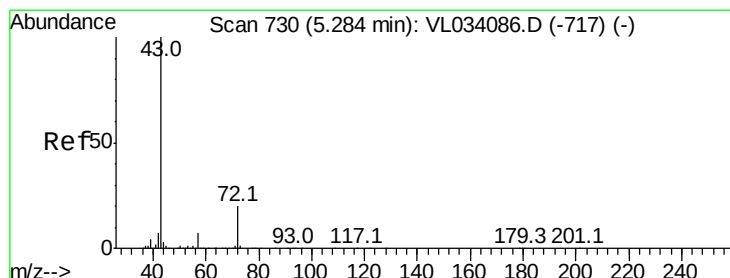
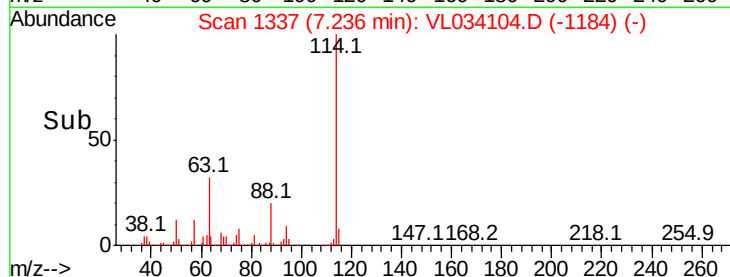
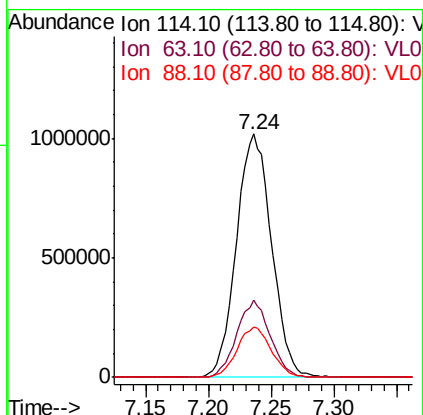
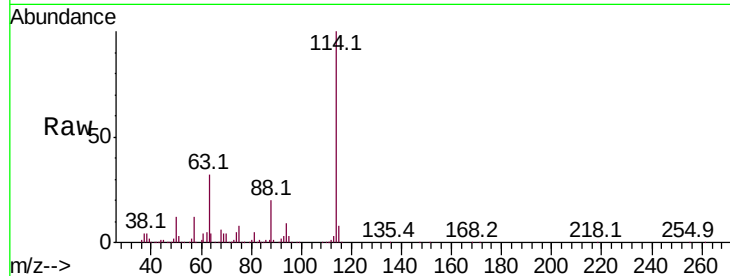
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.24 min Scan# 1337
 Delta R.T. -0.01 min
 Lab File: VL034104.D
 Acq: 12 Aug 2019 15:15

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

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.1	22.5	33.7
88	20.3	15.7	23.5

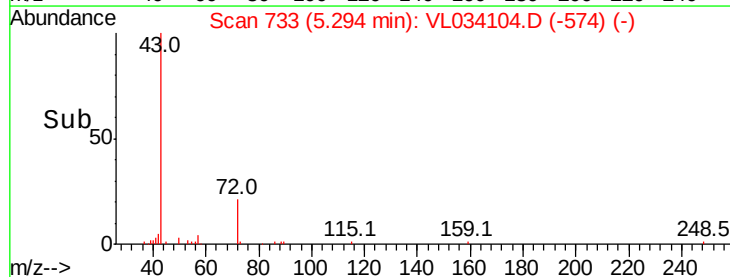
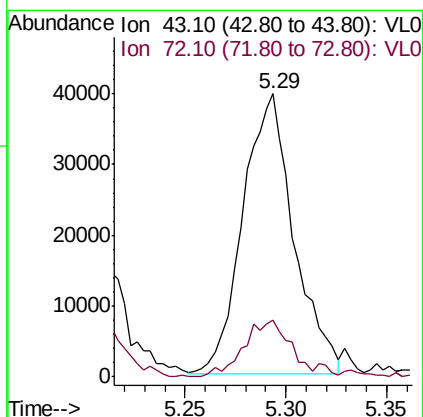
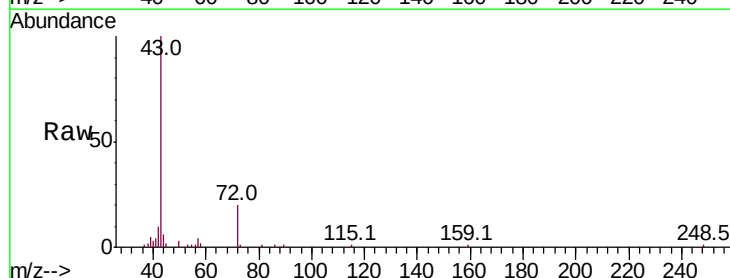
Manual Integrations
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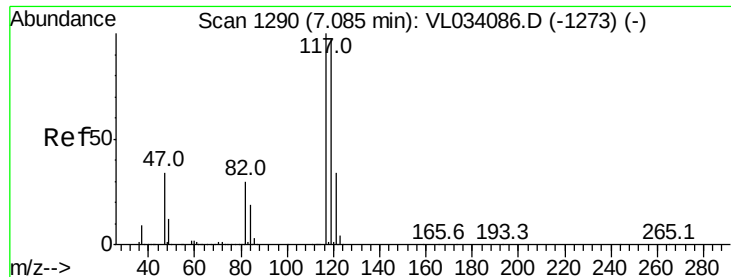
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#34
 2-Butanone
 Concen: 0.378 ppbv
 RT: 5.29 min Scan# 733
 Delta R.T. 0.01 min
 Lab File: VL034104.D
 Acq: 12 Aug 2019 15:15

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.1	16.0	24.0





#35

Carbon Tetrachloride

Concen: 0.063 ppbv m

RT: 7.07 min Scan# 1287

Delta R.T. -0.01 min

Lab File: VL034104.D

Acq: 12 Aug 2019 15:15

Instrument :

MSVOA_L

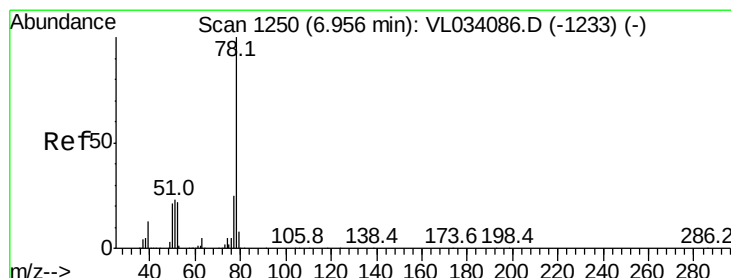
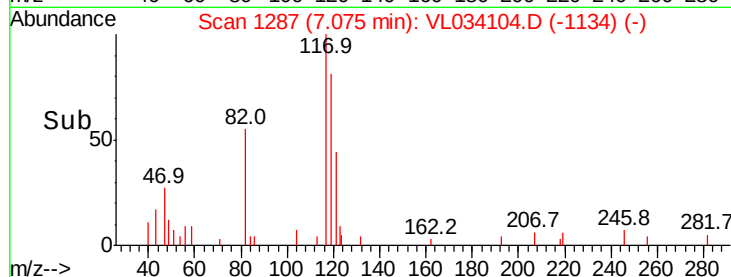
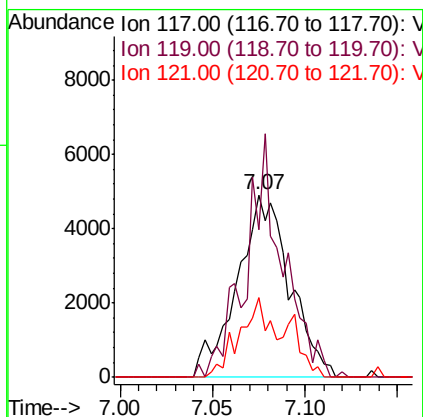
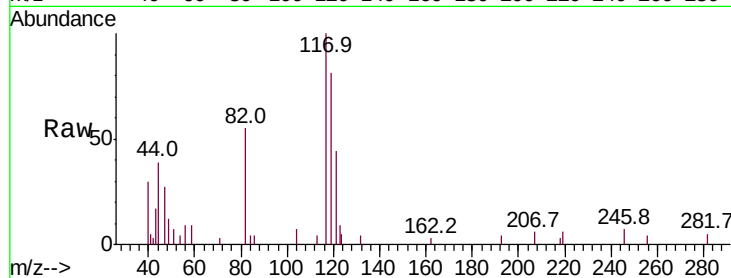
ClientSampleId :

BP-VPB203-AIR-UW-20190805DUP

Tot Ion:	117	Resp:	9652
Ion	Ratio	Lower	Upper
117	100		
119	81.3	77.8	116.6
121	43.7	27.4	41.2#

Manual Integrations
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8/16/2019 8:54:21 AM



#36

Benzene

Concen: 0.146 ppbv m

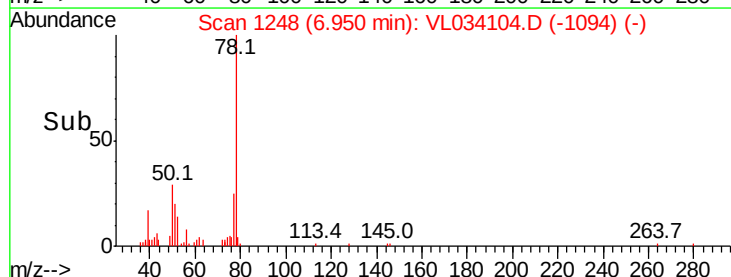
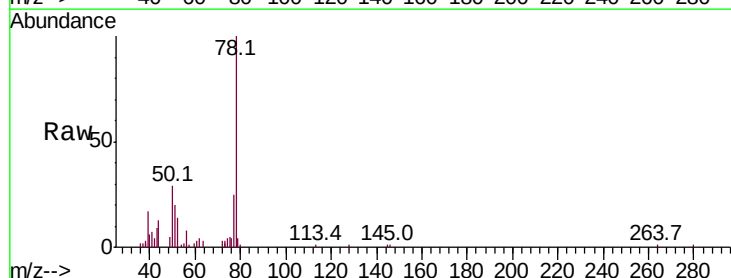
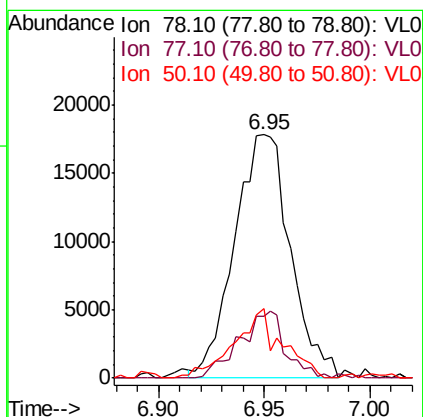
RT: 6.95 min Scan# 1248

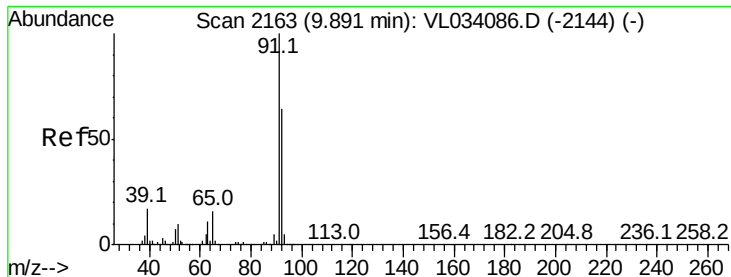
Delta R.T. -0.01 min

Lab File: VL034104.D

Acq: 12 Aug 2019 15:15

Tgt Ion:	78	Resp:	32807
Ion	Ratio	Lower	Upper
78	100		
77	25.2	19.9	29.9
50	28.7	16.7	25.1#





#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

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB203-AIR-UW-20190805DUP

Tot Ion: 91 Resp: 183756

Ion Ratio Lower Upper

91 100

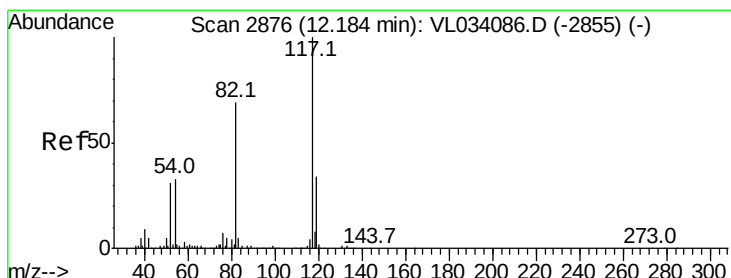
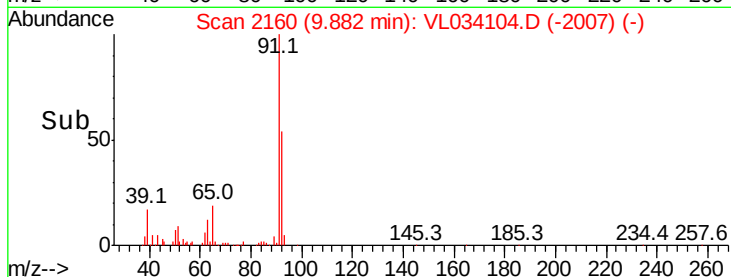
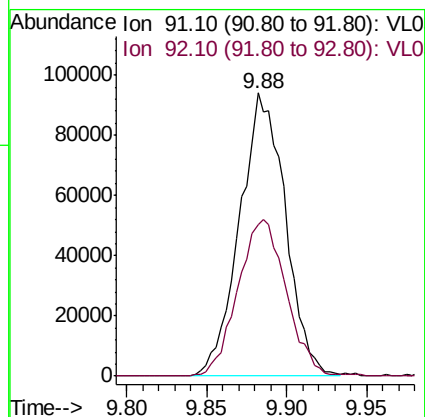
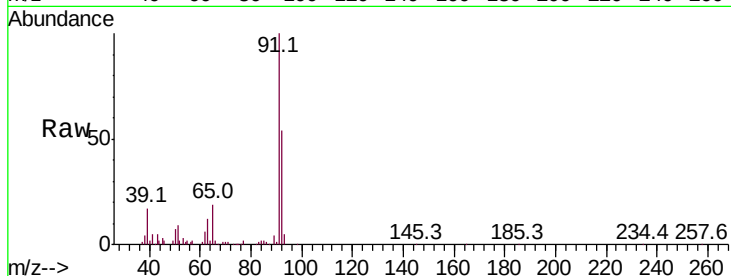
92 58.5 50.3 75.5

Manual Integrations

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#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

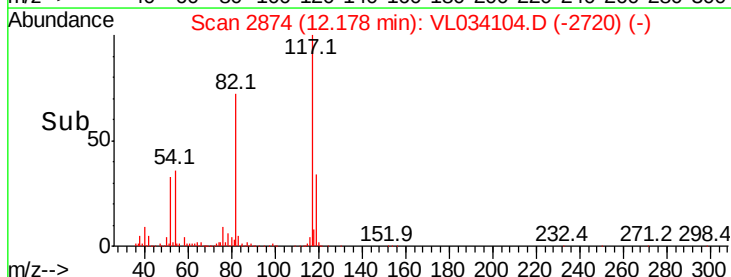
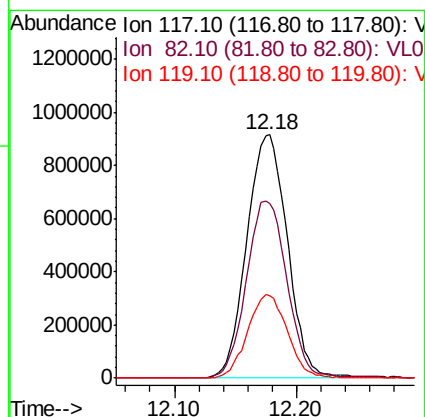
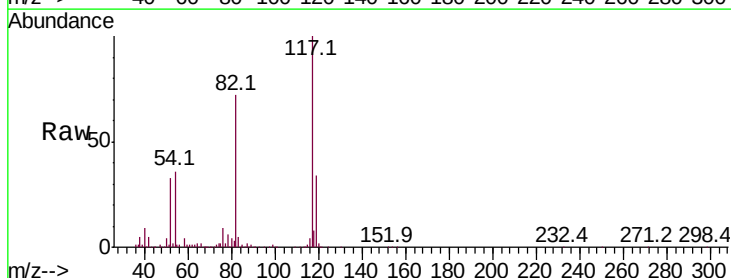
Tgt Ion: 117 Resp: 2100126

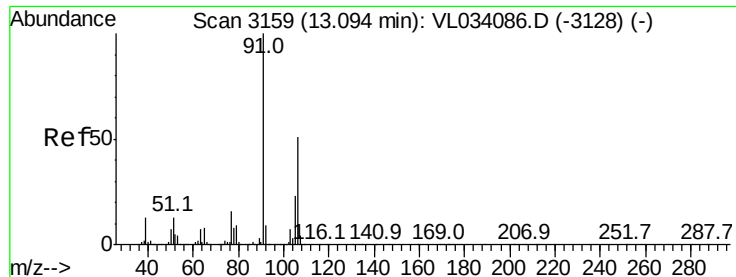
Ion Ratio Lower Upper

117 100

82 73.5 52.2 78.4

119 34.0 44.8 67.2#





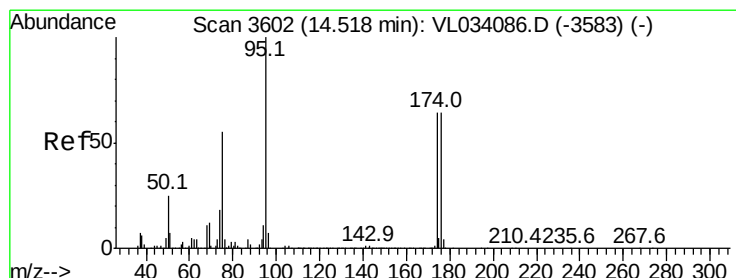
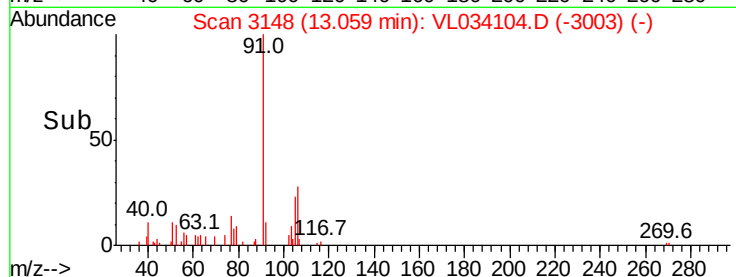
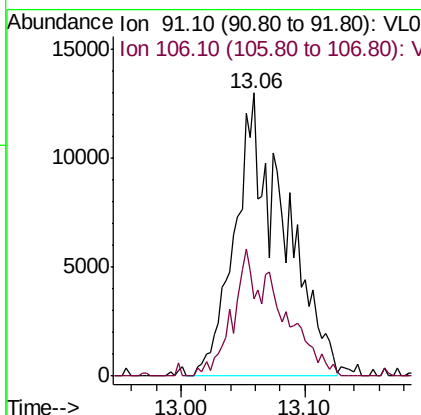
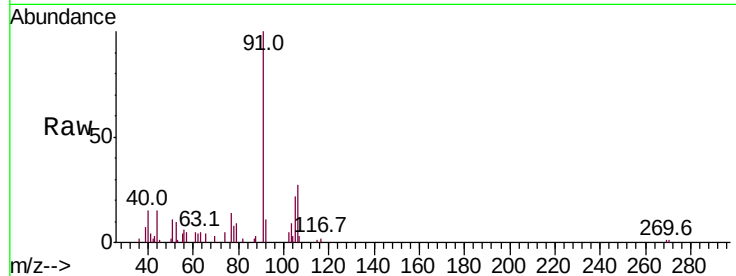
#59
m/p-Xylene
Concen: 0.127 ppbv m
RT: 13.06 min Scan# 3148
Delta R.T. -0.04 min
Lab File: VL034104.D
Acq: 12 Aug 2019 15:15

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

Tot Ion: 91 Resp: 35961
Ion Ratio Lower Upper
91 100
106 0.0 38.7 58.1#

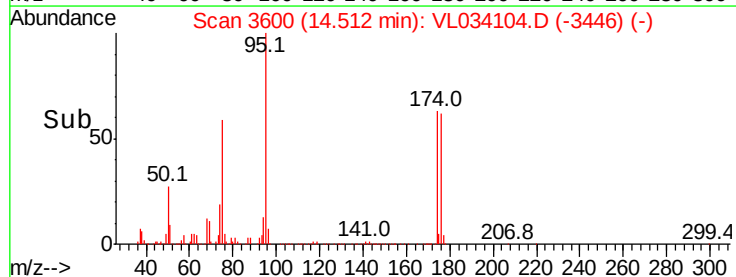
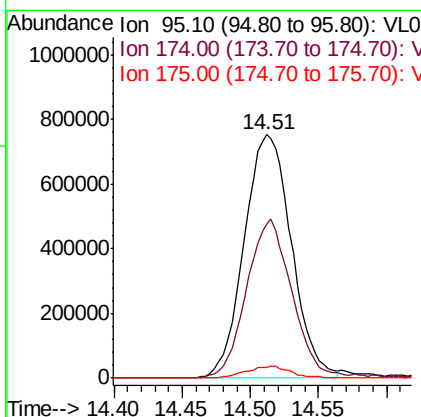
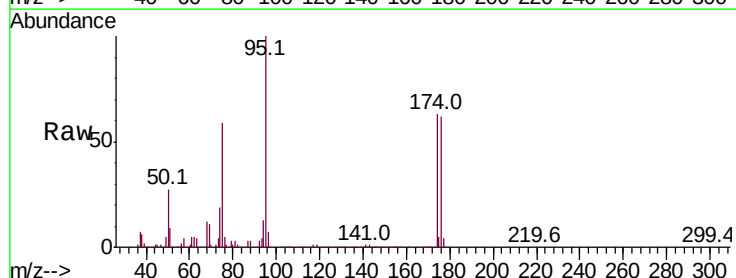
Manual Integrations
APPROVED

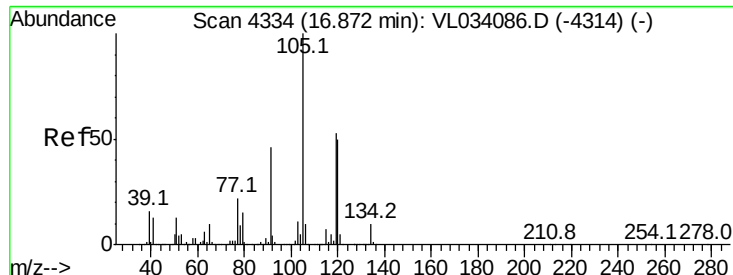
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.610 ppbv
RT: 14.51 min Scan# 3600
Delta R.T. -0.01 min
Lab File: VL034104.D
Acq: 12 Aug 2019 15:15

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

Instrument :

MSVOA_L

ClientSampleId :

BP-VPB203-AIR-UW-20190805DUP

Tot Ion	Ratio	Resp 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#

Manual Integrations
APPROVED

MMDadoda
8/16/2019 8:54:21 AM

