

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061721\
 Data File : VL037204.D
 Acq On : 17 Jun 2021 16:42
 Operator : SY/AP
 Sample : M2721-05DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-3DL

Manual Integrations
 APPROVED

MMDadoda
 6/21/2021 12:54:09 PM

Quant Time: Jun 19 17:20:13 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 17 17:20:13 2021
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1469316	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4373803	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3826229	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2949350	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	27695	0.108	ppbv	89
4) Chloromethane	3.14	50	18104m	0.190	ppbv	
13) Ethanol	3.61	45	1483528	104.981	ppbv	46
15) Acetone	3.85	43	1353833m	8.171	ppbv	
17) tert-Butyl alcohol	4.31	59	113534	0.741	ppbv	98
19) Isopropyl Alcohol	3.98	45	269675	2.687	ppbv #	1
20) Methylene Chloride	4.35	84	75974	0.766	ppbv	95
25) Ethyl Acetate	5.68	43	1654310	4.612	ppbv #	95
26) Hexane	5.69	57	354840	1.957	ppbv #	1
30) Cyclohexane	7.13	84	97170	0.643	ppbv #	81
34) 2-Butanone	5.25	43	222863	1.310	ppbv #	87
53) Toluene	9.81	91	257586	0.610	ppbv	99
58) Ethyl Benzene	12.71	91	107643	0.204	ppbv	90
59) m/p-Xylene	12.97	91	361028m	0.809	ppbv	
60) o-Xylene	13.69	91	156880	0.369	ppbv	98
61) Styrene	13.53	104	1619975	7.385	ppbv	96
72) 4-Ethyltoluene	15.84	105	82993m	0.172	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	92926m	0.199	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	279459	0.581	ppbv #	72

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

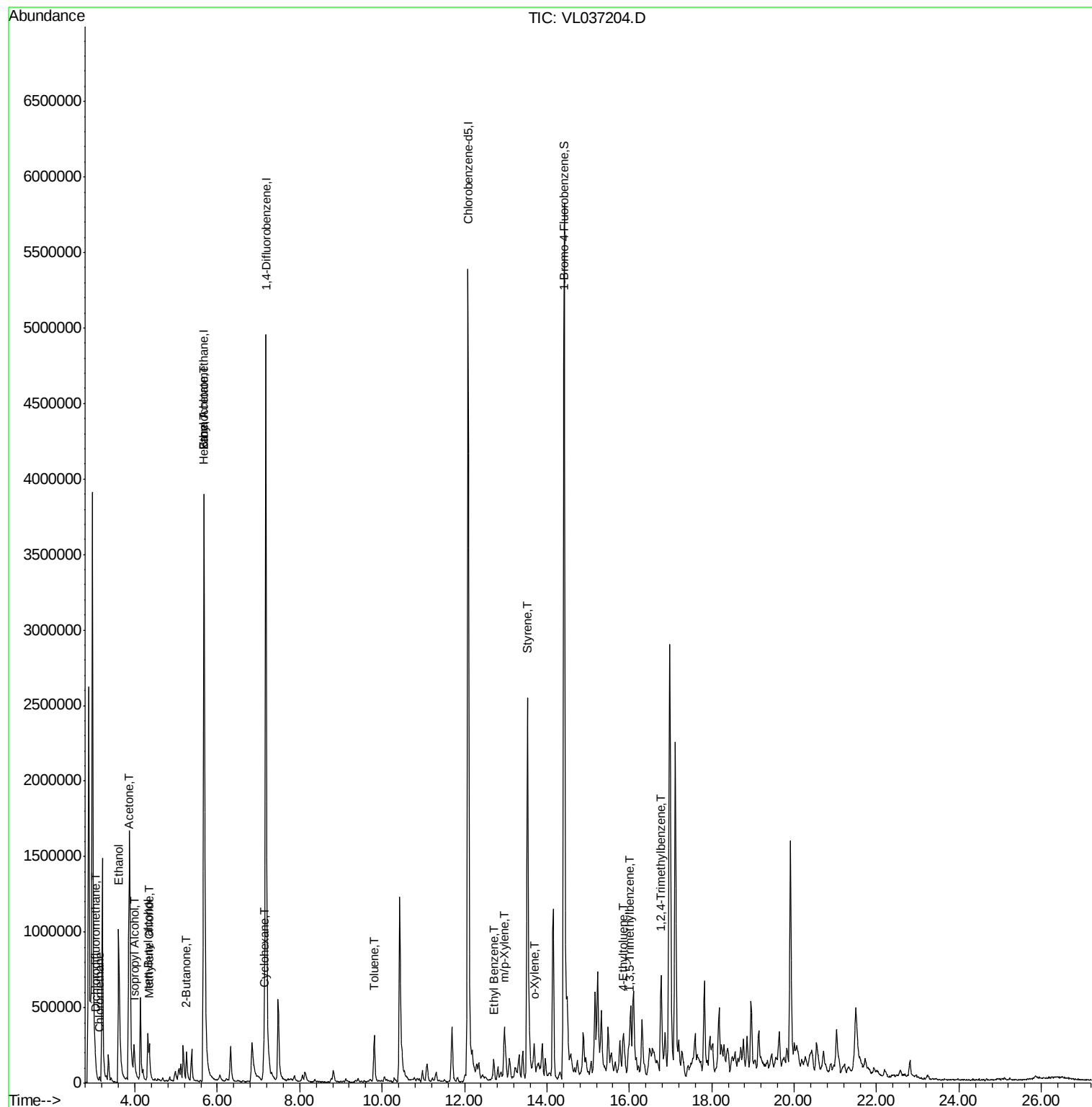
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL061721\
Data File : VL037204.D
Acq On : 17 Jun 2021 16:42
Operator : SY/AP
Sample : M2721-05DL 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

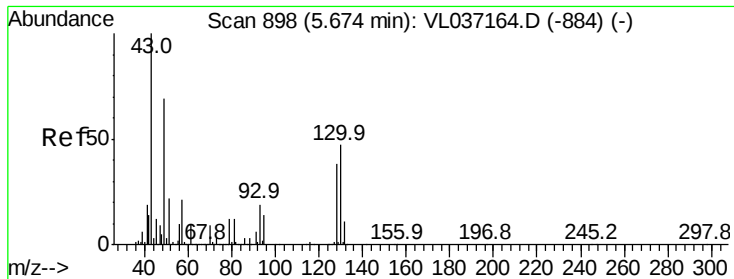
Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-3DL

Manual Integrations
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Quant Time: Jun 19 17:20:13 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun
QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL037204.D

Acq: 17 Jun 2021 16:42

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-3DL

Tot Ion: 49 Resp: 1469316

Ion Ratio Lower Upper

49 100

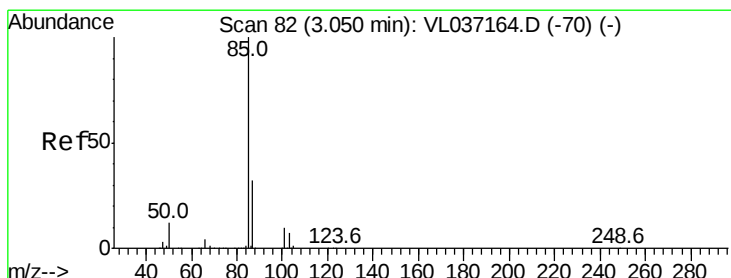
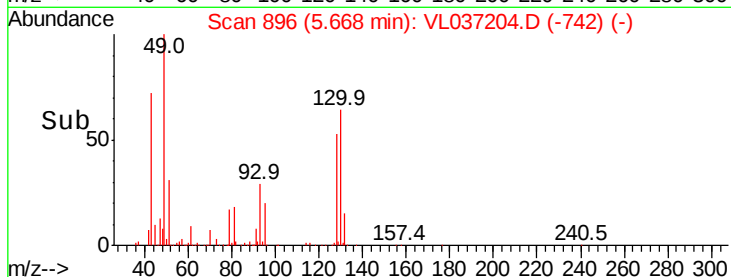
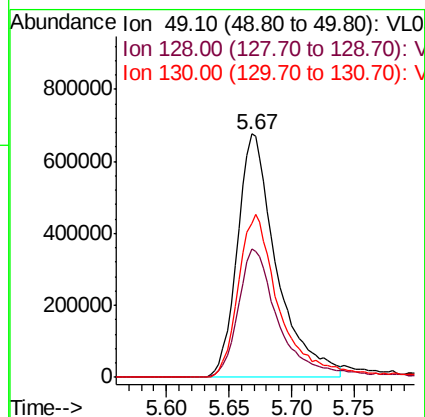
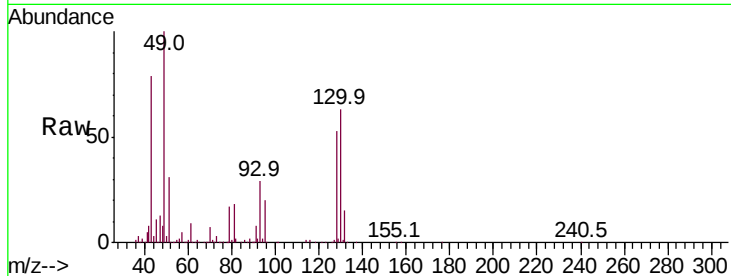
128 56.3 29.3 88.0

130 73.2 35.9 107.8

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#2

Dichlorodifluoromethane

Concen: 0.108 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL037204.D

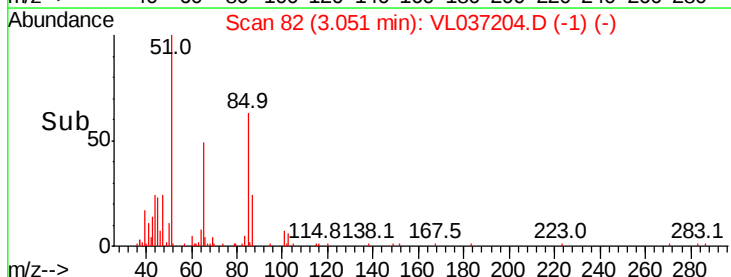
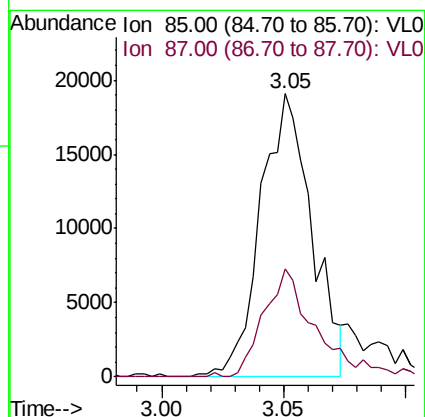
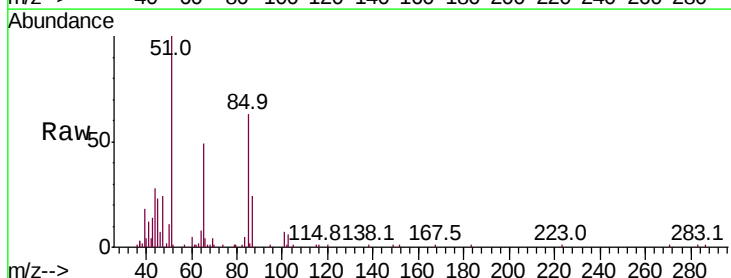
Acq: 17 Jun 2021 16:42

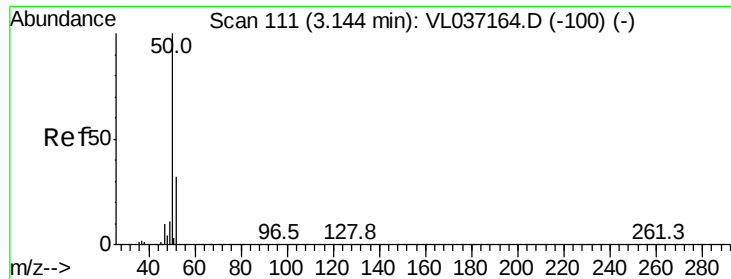
Tgt Ion: 85 Resp: 27695

Ion Ratio Lower Upper

85 100

87 38.2 25.8 38.6





#4

Chloromethane

Concen: 0.190 ppbv m

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL037204.D

Acq: 17 Jun 2021 16:42

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-3DL

Tot Ion: 50 Resp: 18104

Ion Ratio Lower Upper

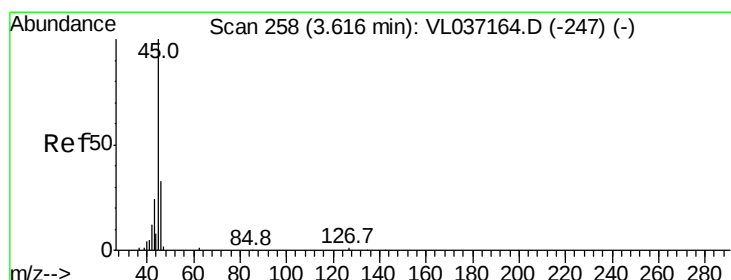
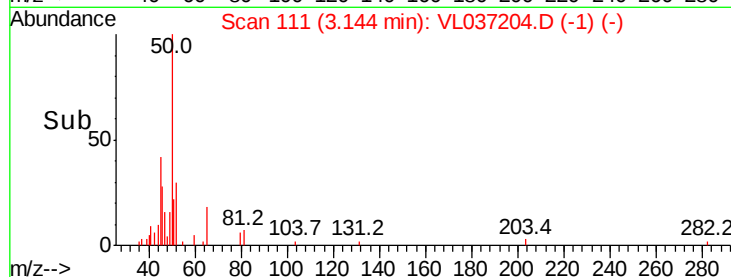
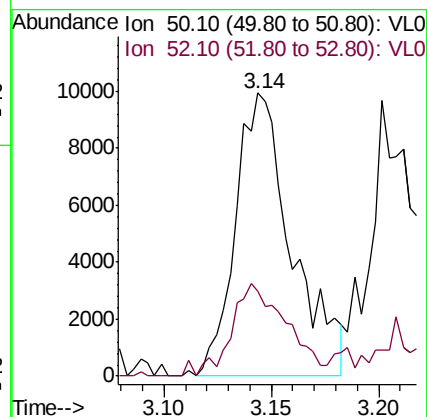
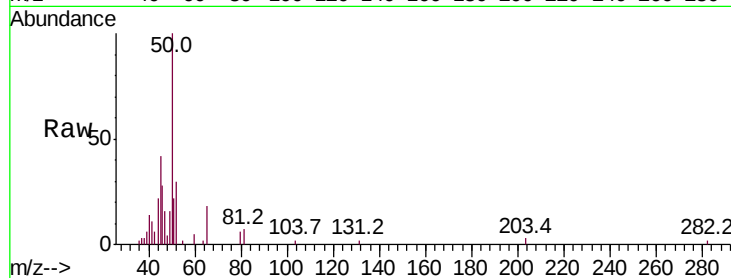
50 100

52 30.2 25.8 38.8

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#13

Ethanol

Concen: 104.981 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.01 min

Lab File: VL037204.D

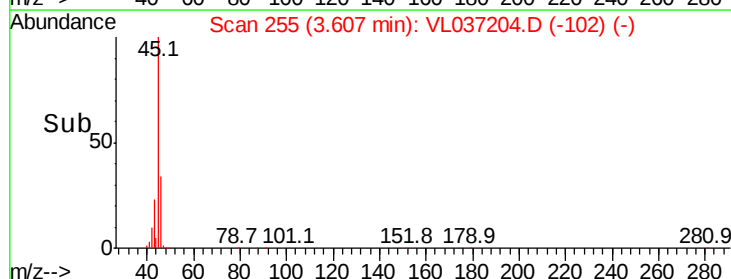
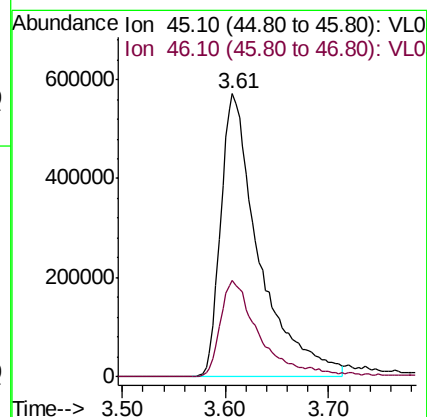
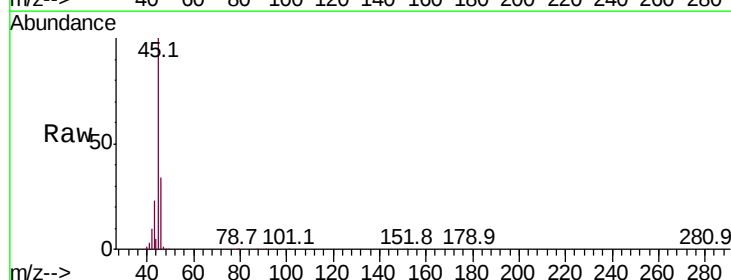
Acq: 17 Jun 2021 16:42

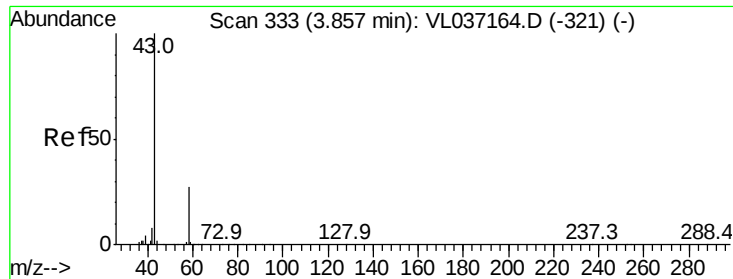
Tgt Ion: 45 Resp: 1483528

Ion Ratio Lower Upper

45 100

46 35.7 34.2 137.0





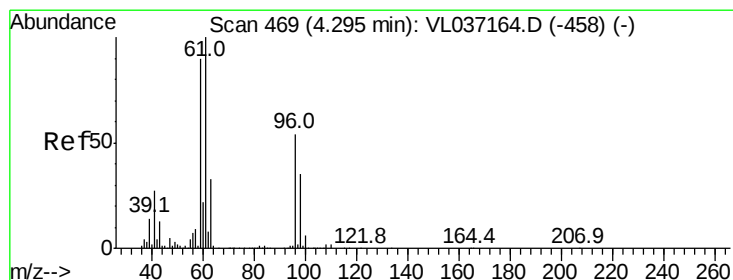
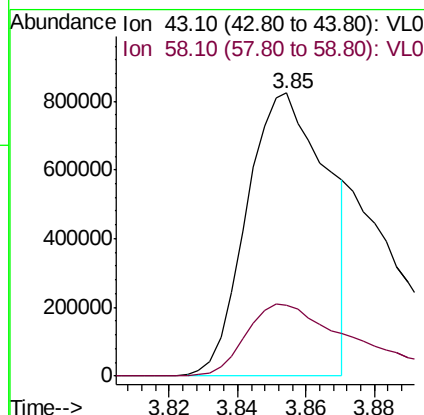
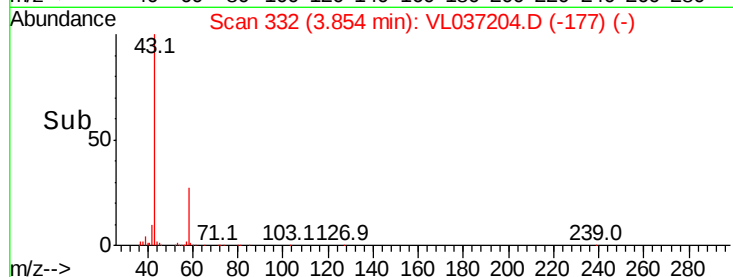
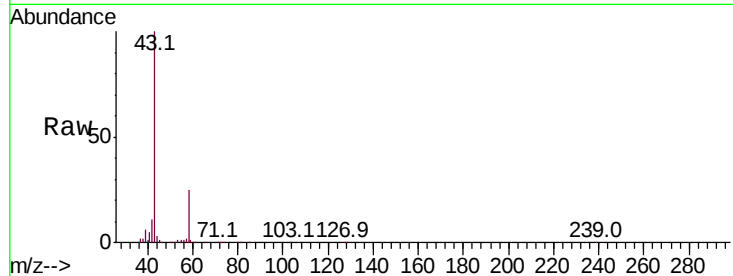
#15
Acetone
Concen: 8.171 ppbv m
RT: 3.85 min Scan# 332
Delta R.T. -0.00 min
Lab File: VL037204.D
Acq: 17 Jun 2021 16:42

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-3DL

Tot Ion: 43 Resp: 1353833
Ion Ratio Lower Upper
43 100
58 38.3 23.7 35.5#

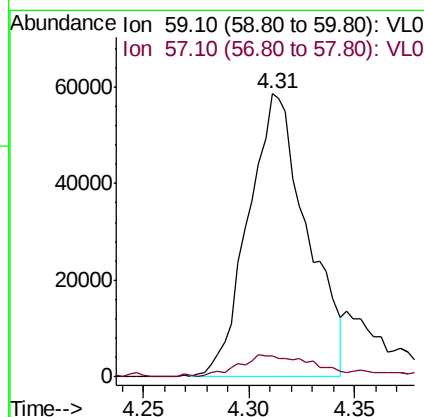
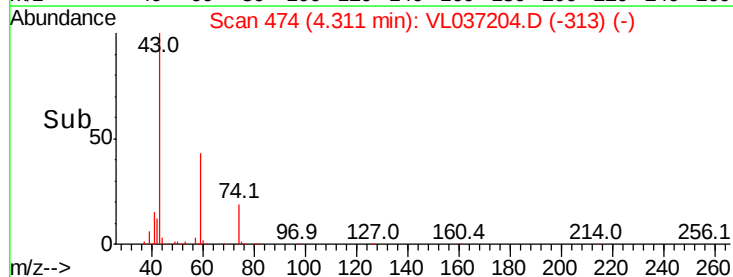
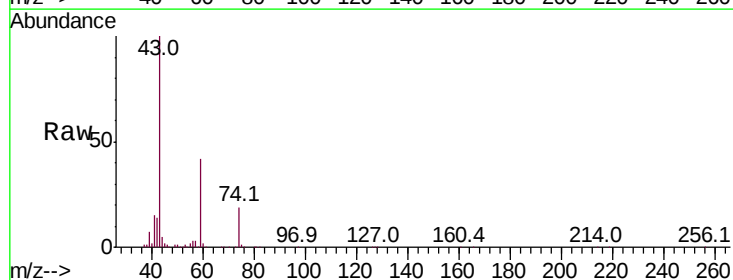
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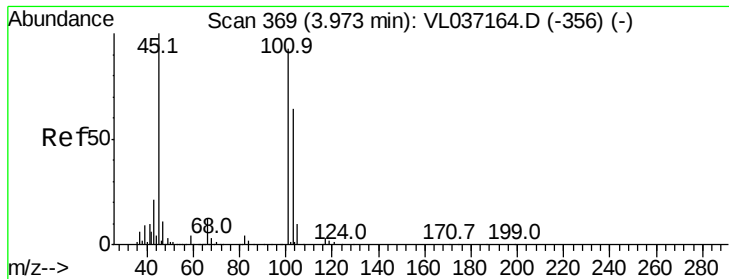
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#17
tert-Butyl alcohol
Concen: 0.741 ppbv
RT: 4.31 min Scan# 474
Delta R.T. 0.02 min
Lab File: VL037204.D
Acq: 17 Jun 2021 16:42

Tgt Ion: 59 Resp: 113534
Ion Ratio Lower Upper
59 100
57 11.9 8.8 13.2





#19

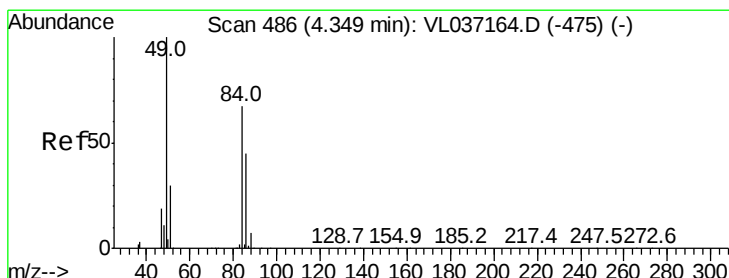
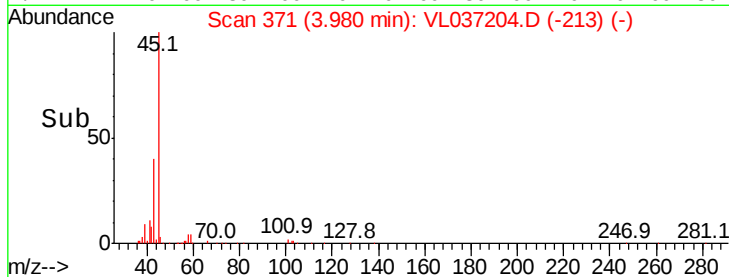
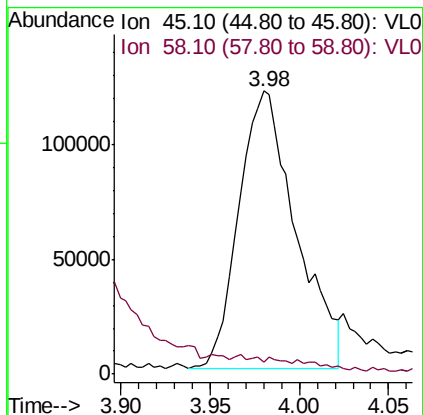
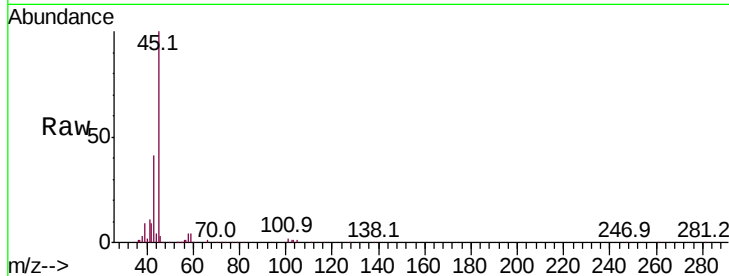
Isopropyl Alcohol
 Concen: 2.687 ppbv
 RT: 3.98 min Scan# 371
 Delta R.T. 0.01 min
 Lab File: VL037204.D
 Acq: 17 Jun 2021 16:42

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-3DL

Tot Ion	Ratio	Lower	Upper
45	100		
58	192.1	2.4	3.6#

Manual Integrations
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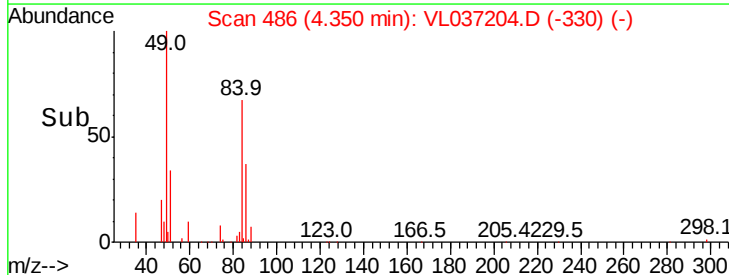
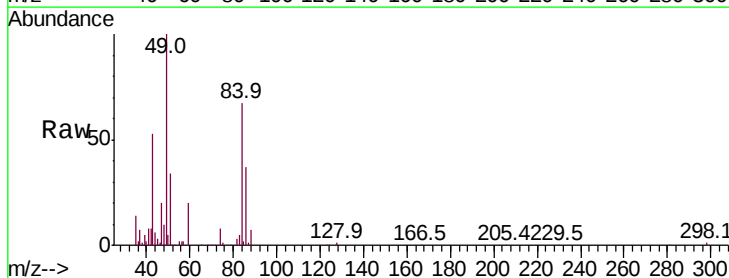
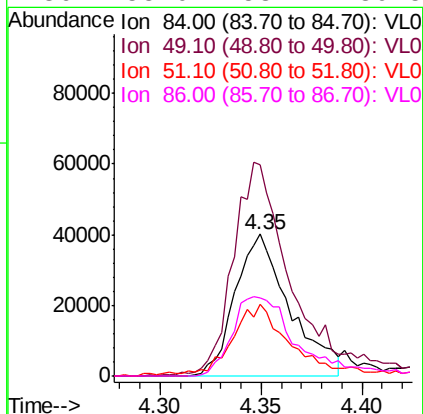
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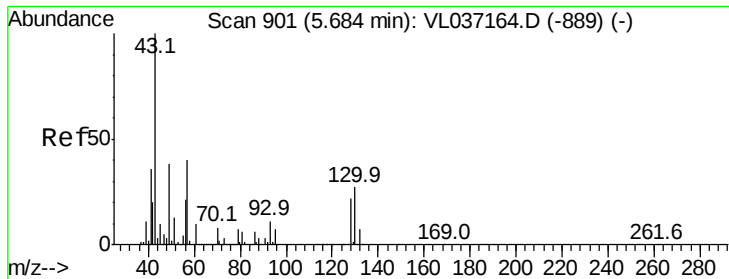


#20

Methylene Chloride
 Concen: 0.766 ppbv
 RT: 4.35 min Scan# 486
 Delta R.T. 0.00 min
 Lab File: VL037204.D
 Acq: 17 Jun 2021 16:42

Tgt Ion	Ratio	Lower	Upper
84	100		
49	147.4	119.7	179.5
51	47.0	36.1	54.1
86	55.0	53.7	80.5





#25

Ethyl Acetate

Concen: 4.612 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL037204.D

Acq: 17 Jun 2021 16:42

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-3DL

Tot Ion: 43 Resp: 1654310

Ion Ratio Lower Upper

43 100

45 12.4 8.0 12.0#

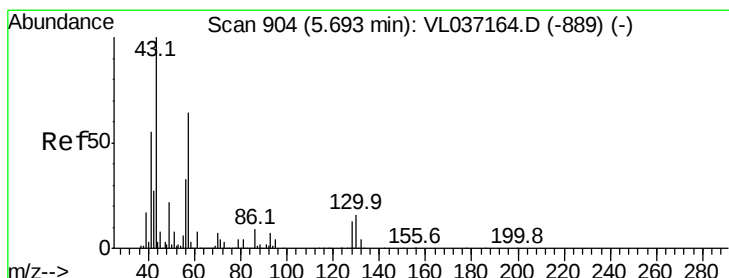
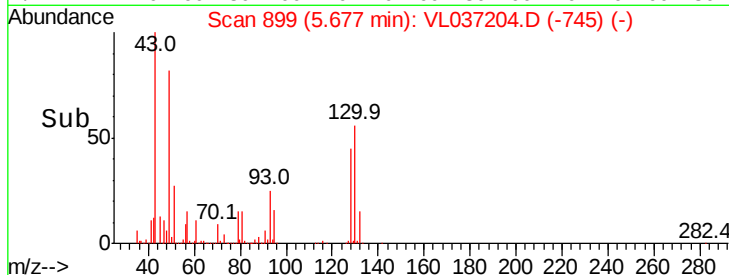
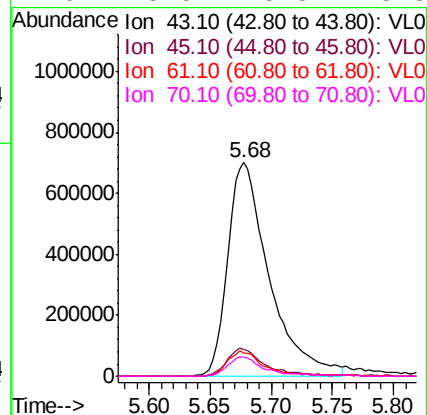
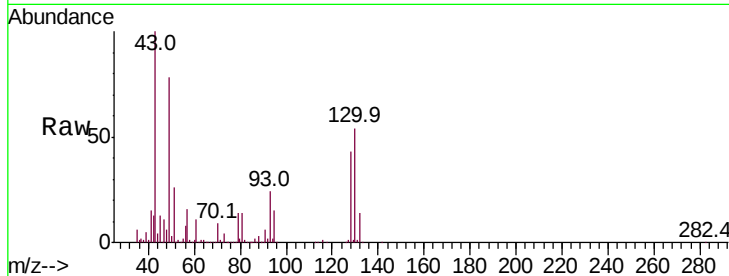
61 11.4 8.1 12.1

70 8.5 5.5 8.3#

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#26

Hexane

Concen: 1.957 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.01 min

Lab File: VL037204.D

Acq: 17 Jun 2021 16:42

Tgt Ion: 57 Resp: 354840

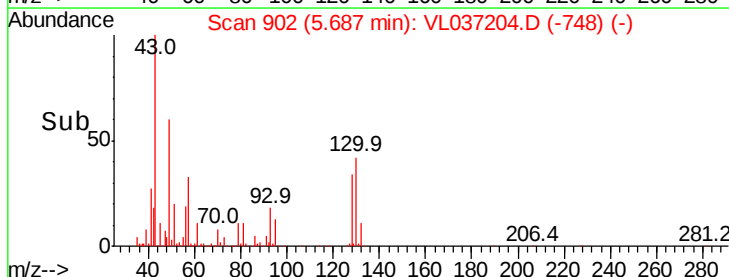
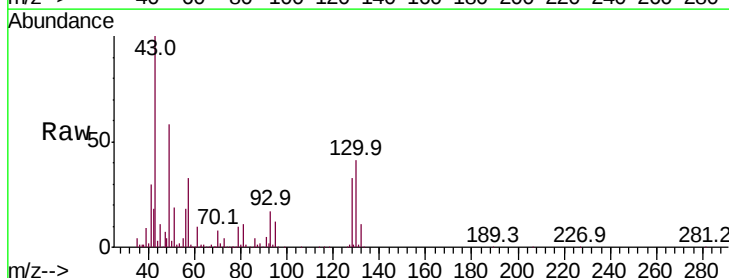
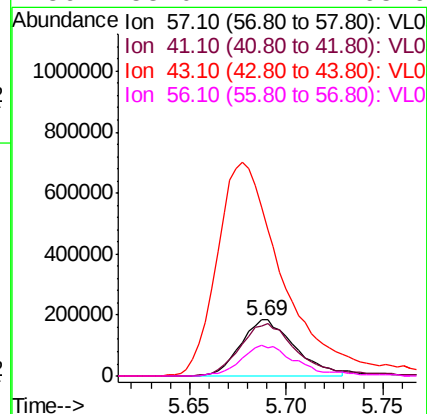
Ion Ratio Lower Upper

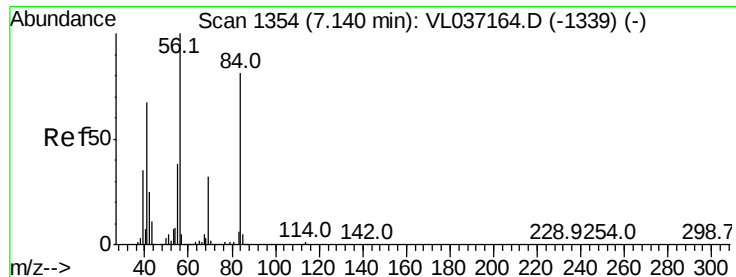
57 100

41 103.5 73.5 110.3

43 487.0 170.7 256.1#

56 58.0 42.4 63.6





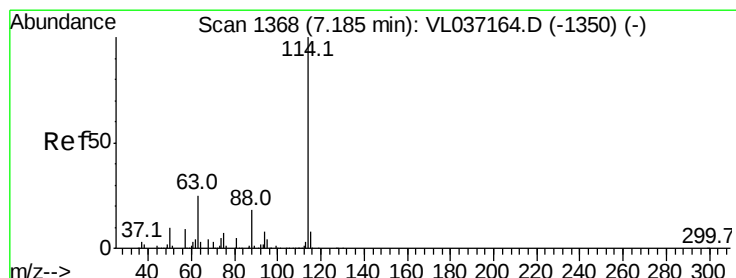
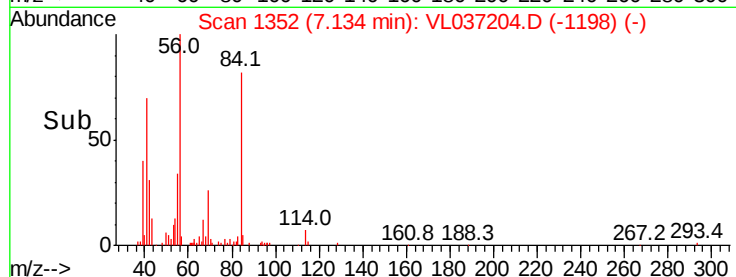
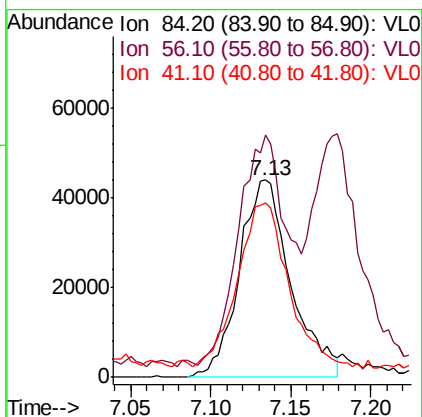
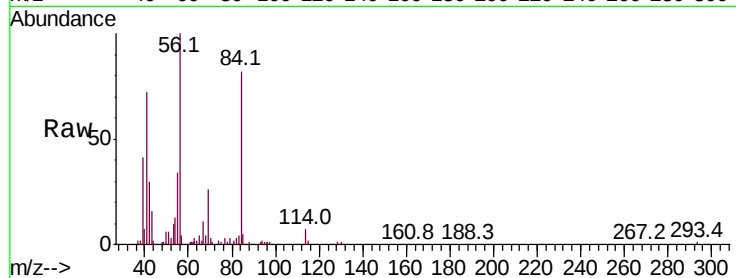
#30
Cvclohexane
Concen: 0.643 ppbv
RT: 7.13 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL037204.D
Acq: 17 Jun 2021 16:42

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-3DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	104.1	107.7	161.5#
41	93.8	69.0	103.6

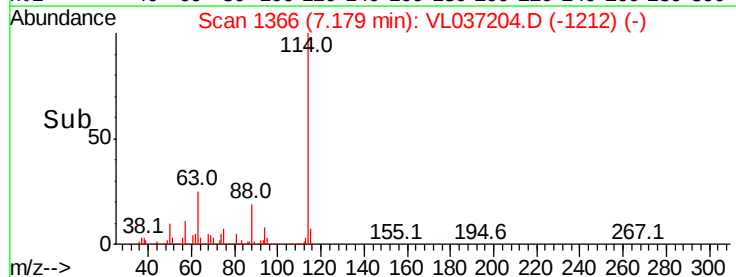
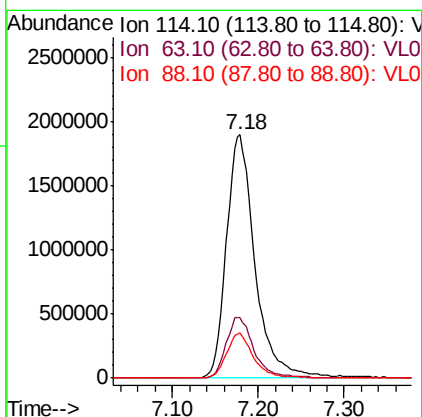
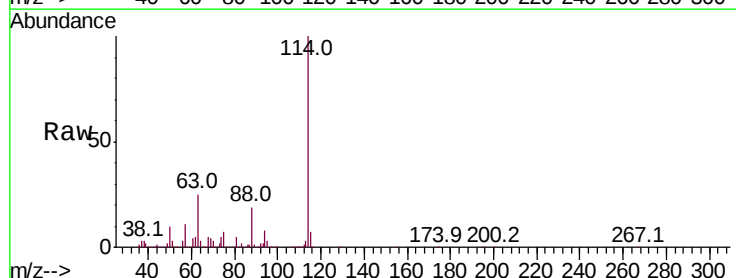
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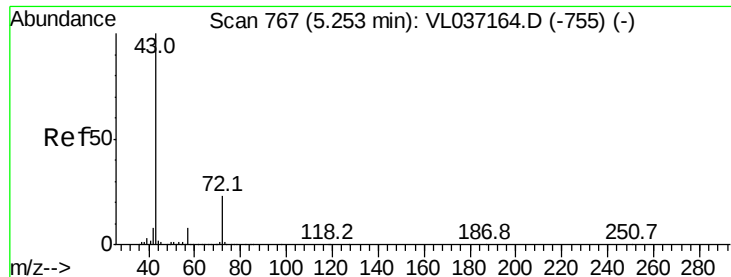
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VL037204.D
Acq: 17 Jun 2021 16:42

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.7	19.6	29.4
88	17.9	14.2	21.2





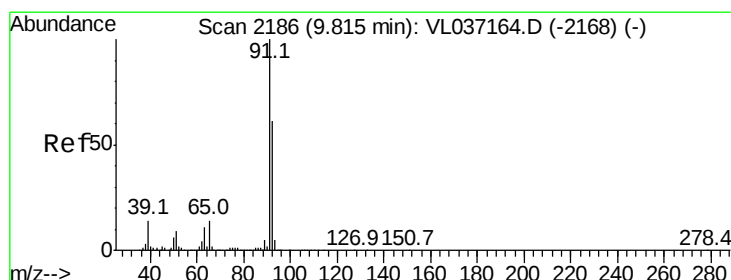
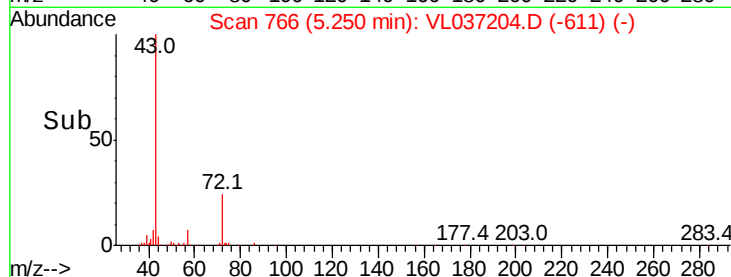
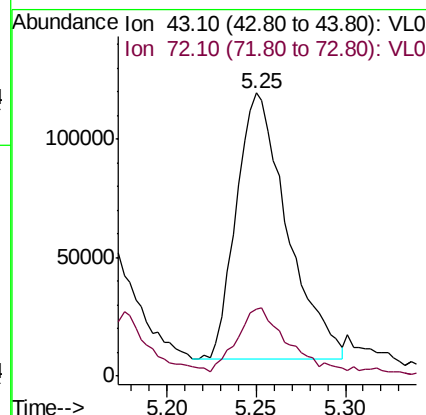
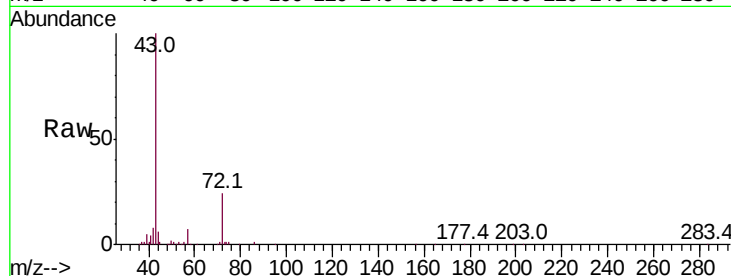
#34
2-Butanone
Concen: 1.310 ppbv
RT: 5.25 min Scan# 766
Delta R.T. -0.00 min
Lab File: VL037204.D
Acq: 17 Jun 2021 16:42

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-3DL

Tot Ion: 43 Resp: 222863
Ion Ratio Lower Upper
43 100
72 30.0 18.9 28.3#

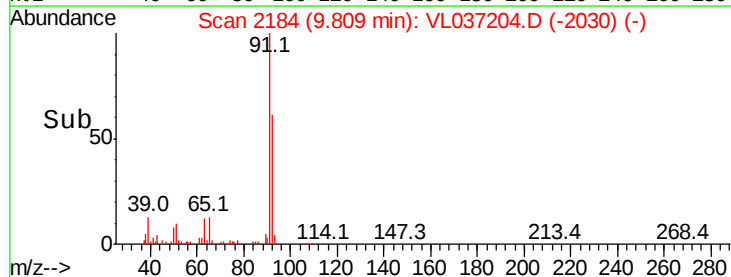
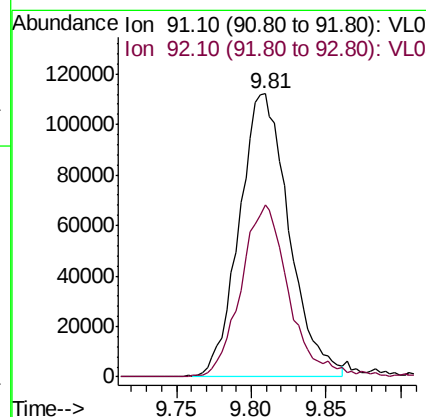
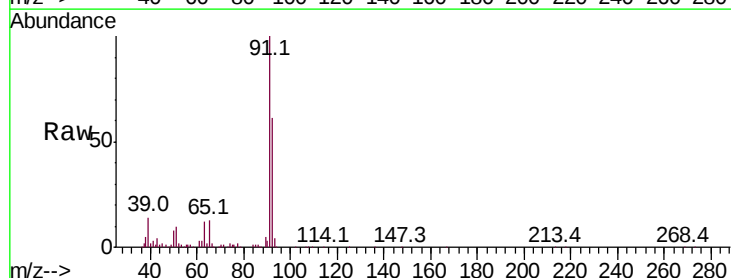
Manual Integrations
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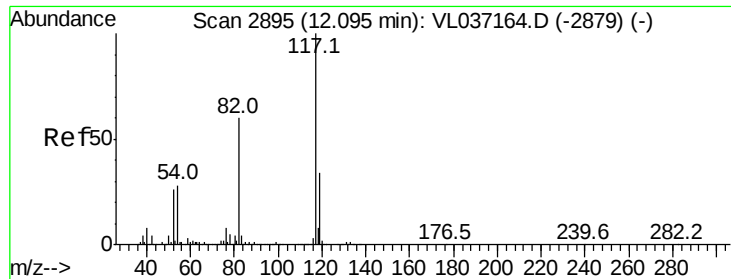
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#53
Toluene
Concen: 0.610 ppbv
RT: 9.81 min Scan# 2184
Delta R.T. -0.01 min
Lab File: VL037204.D
Acq: 17 Jun 2021 16:42

Tgt Ion: 91 Resp: 257586
Ion Ratio Lower Upper
91 100
92 59.3 48.3 72.5





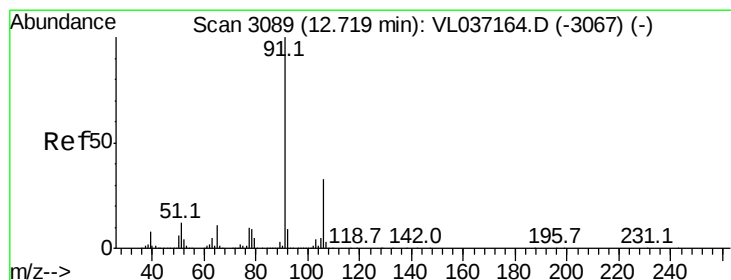
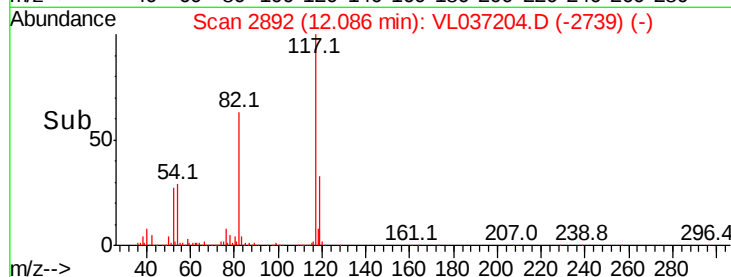
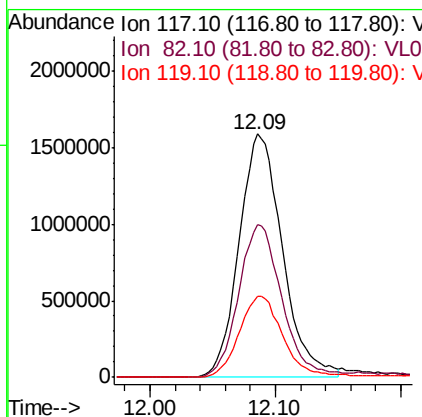
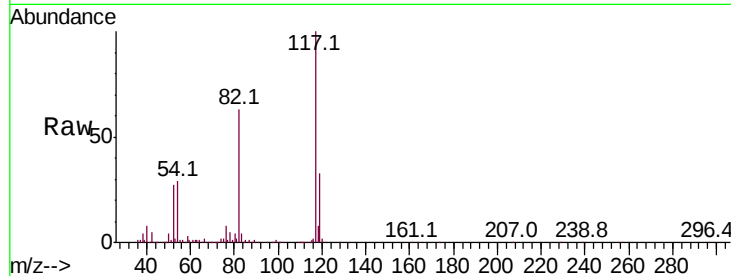
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL037204.D
Acq: 17 Jun 2021 16:42

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-3DL

Tot Ion:117 Resp: 3826229
Ion Ratio Lower Upper
117 100
82 66.3 51.7 77.5
119 35.0 47.6 71.4#

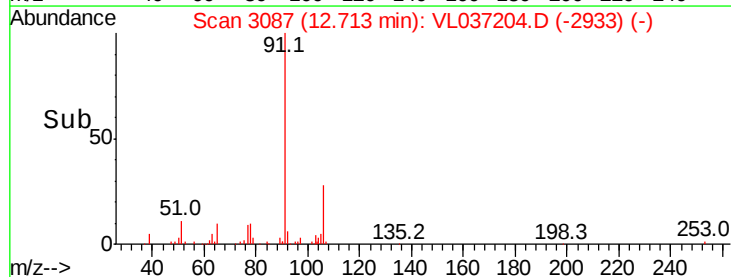
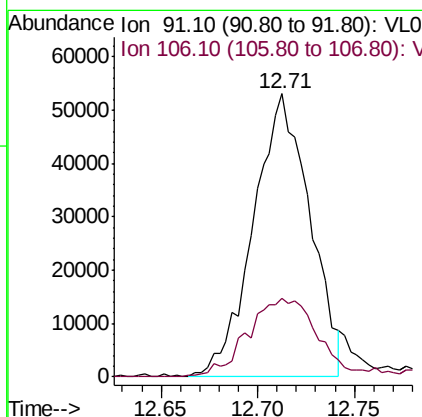
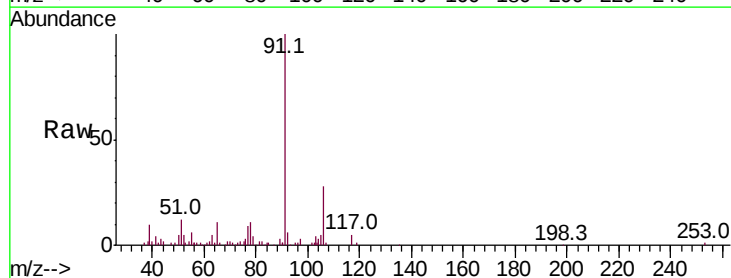
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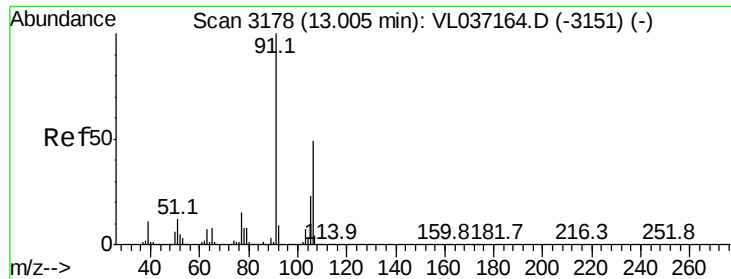
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#58
Ethyl Benzene
Concen: 0.204 ppbv
RT: 12.71 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL037204.D
Acq: 17 Jun 2021 16:42

Tgt Ion: 91 Resp: 107643
Ion Ratio Lower Upper
91 100
106 27.3 26.3 39.5





#59

m/p-Xylene

Concen: 0.809 ppbv m

RT: 12.97 min Scan# 3166

Delta R.T. -0.04 min

Lab File: VL037204.D

Acq: 17 Jun 2021 16:42

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-3DL

Tot Ion: 91 Resp: 361028

Ion Ratio Lower Upper

91 100

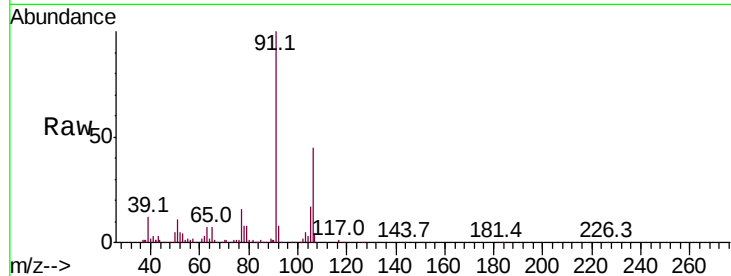
106 0.0 37.0 55.4#

Manual Integrations

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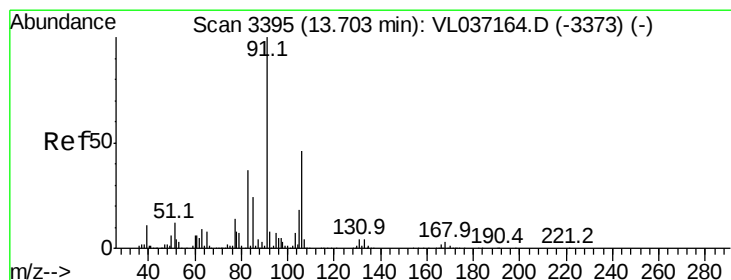
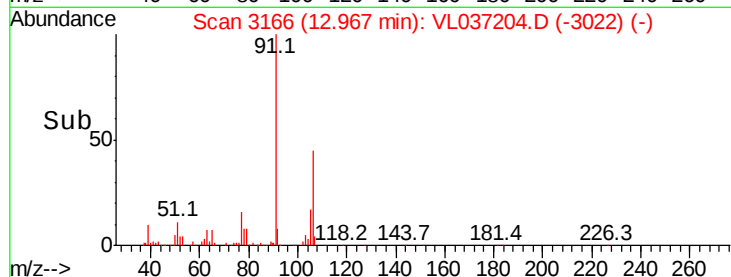
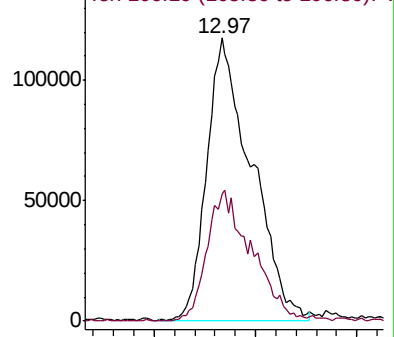
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.369 ppbv

RT: 13.69 min Scan# 3392

Delta R.T. -0.01 min

Lab File: VL037204.D

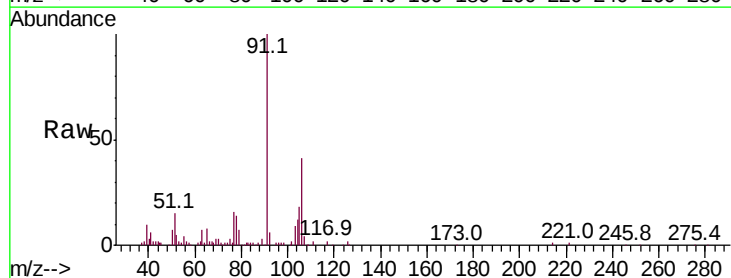
Acq: 17 Jun 2021 16:42

Tgt Ion: 91 Resp: 156880

Ion Ratio Lower Upper

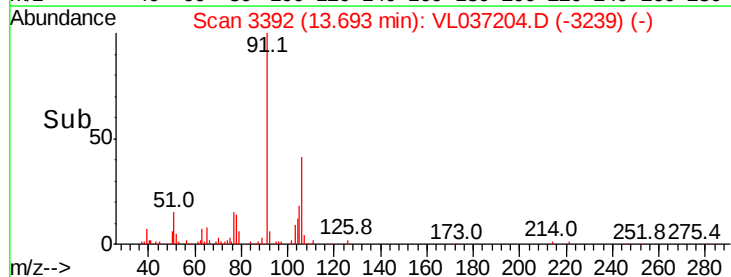
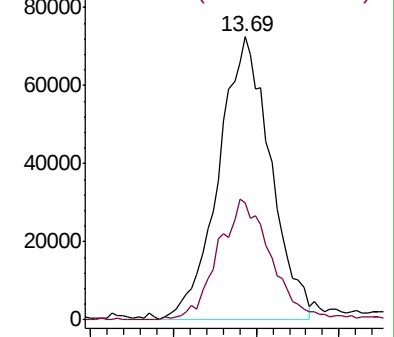
91 100

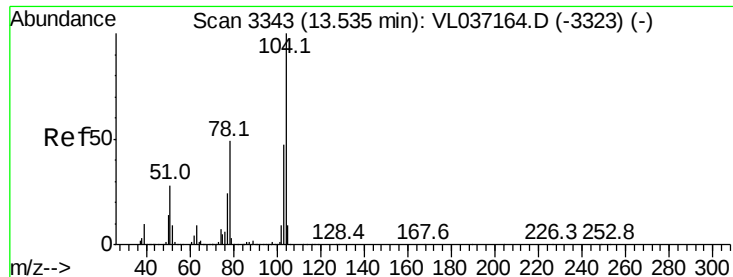
106 44.8 23.0 69.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





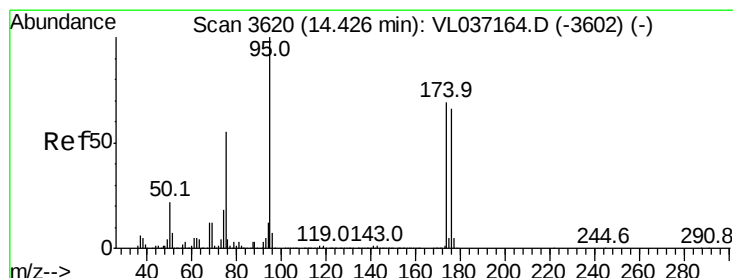
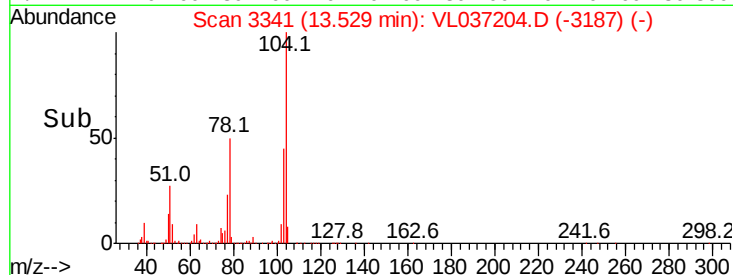
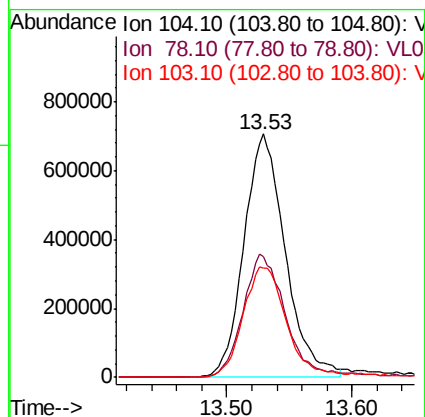
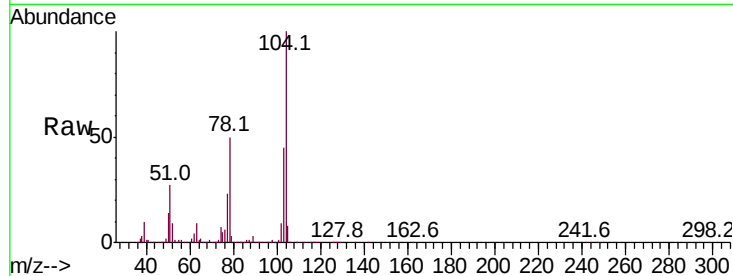
#61
Stvrene
Concen: 7.385 ppbv
RT: 13.53 min Scan# 3341
Delta R.T. -0.01 min
Lab File: VL037204.D
Acq: 17 Jun 2021 16:42

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-3DL

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.6	39.7	59.5
103	49.2	37.6	56.4

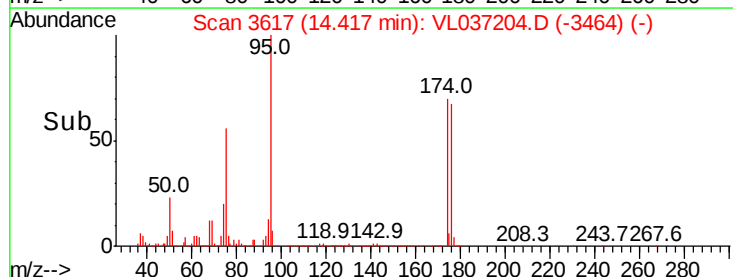
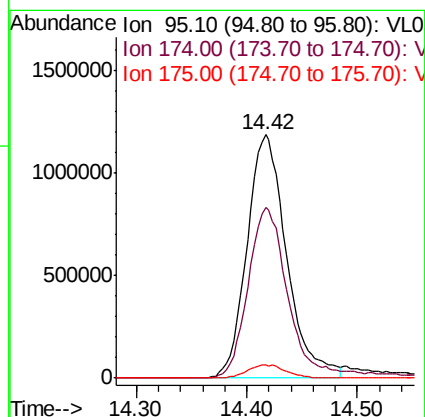
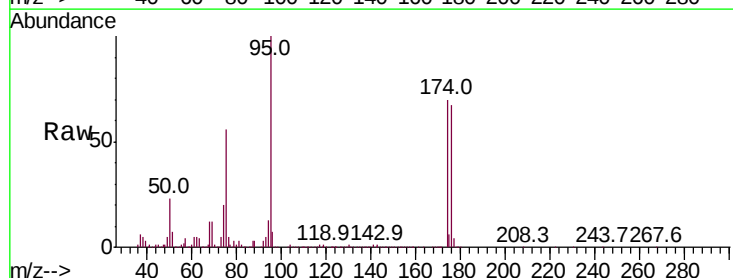
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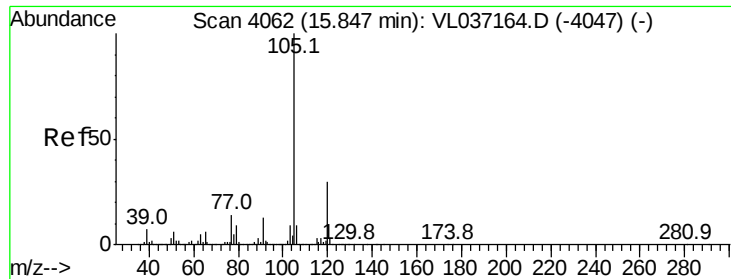
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.172 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL037204.D
Acq: 17 Jun 2021 16:42

Tgt Ion	Ratio	Lower	Upper
95	100		
174	74.3	57.0	85.4
175	5.5	4.4	6.6





#72

4-Ethyltoluene

Concen: 0.172 ppbv m

RT: 15.84 min Scan# 4060

Delta R.T. -0.01 min

Lab File: VL037204.D

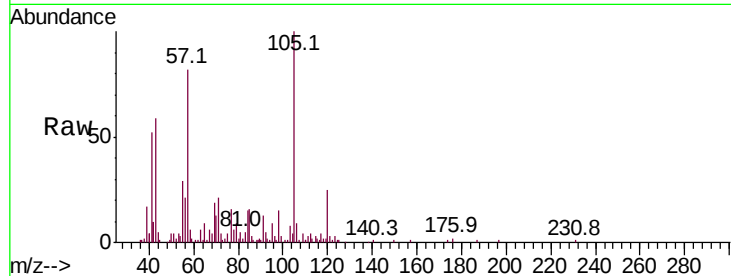
Acq: 17 Jun 2021 16:42

Instrument :

MSVOA_L

ClientSampleId :

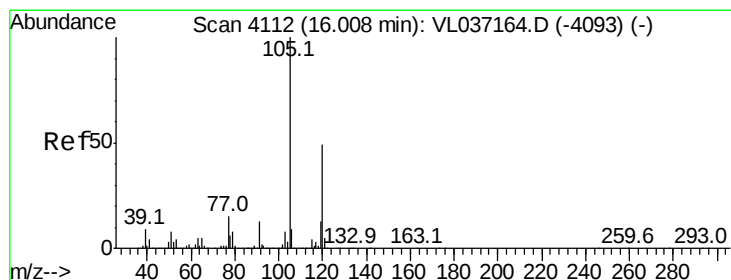
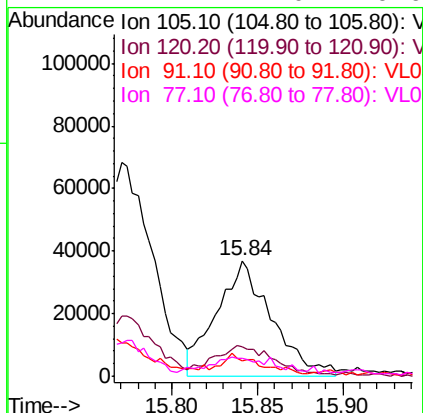
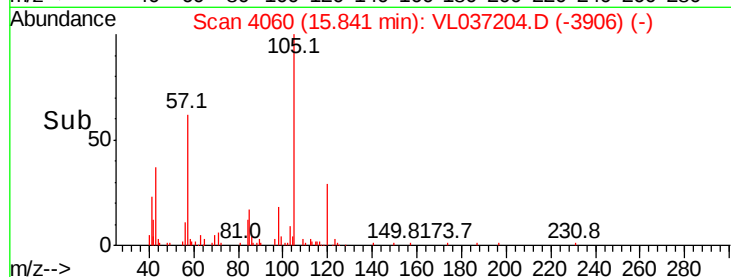
IA-BEDROOM-3DL



Tot Ion:	105	Resp:	82993
Ion Ratio	Lower	Upper	
105	100		
120	31.2	24.7	37.1
91	12.1	10.2	15.4
77	17.4	11.0	16.6#

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#73

1,3,5-Trimethylbenzene

Concen: 0.199 ppbv m

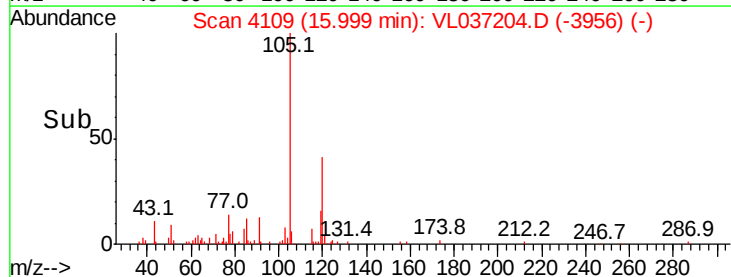
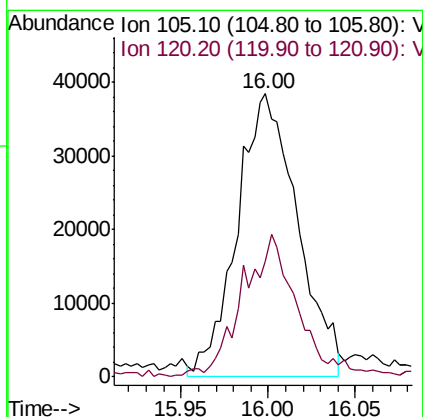
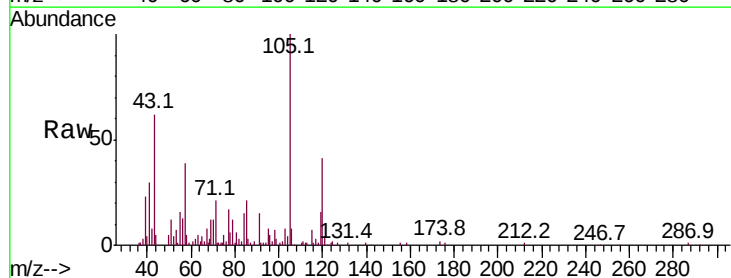
RT: 16.00 min Scan# 4109

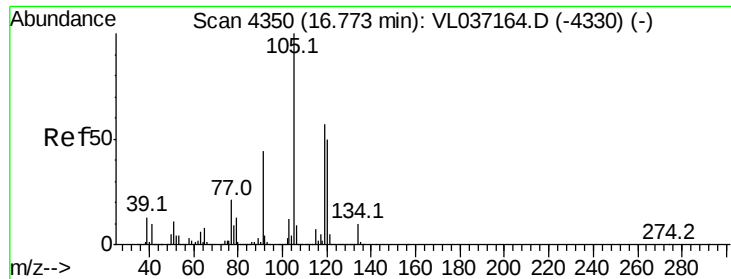
Delta R.T. -0.01 min

Lab File: VL037204.D

Acq: 17 Jun 2021 16:42

Tgt Ion:	105	Resp:	92926
Ion Ratio	Lower	Upper	
105	100		
120	40.7	39.4	59.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.581 ppbv
 RT: 16.76 min Scan# 4347
 Delta R.T. -0.01 min
 Lab File: VL037204.D
 Acq: 17 Jun 2021 16:42

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-3DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	40.7	39.8	59.8
91	13.2	37.0	55.4
77	15.2	17.0	25.4

Manual Integrations
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