

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061721\
 Data File : VL037205.D
 Acq On : 17 Jun 2021 17:21
 Operator : SY/AP
 Sample : M2721-06DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-4DL

Manual Integrations
 APPROVED

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 6/21/2021 12:54:13 PM

Quant Time: Jun 19 17:22:02 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 17:22:02 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	1458939	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4341196	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3831041	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	3057541	10.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	29052	0.114	ppbv #	85
4) Chloromethane	3.14	50	16057	0.170	ppbv	91
13) Ethanol	3.61	45	844186m	60.163	ppbv	
15) Acetone	3.85	43	1044127m	6.346	ppbv	
17) tert-Butyl alcohol	4.31	59	158044	1.039	ppbv	97
19) Isopropyl Alcohol	3.98	45	188852	1.895	ppbv #	1
20) Methylene Chloride	4.35	84	197068	2.001	ppbv	93
25) Ethyl Acetate	5.68	43	1542945	4.332	ppbv	98
26) Hexane	5.69	57	624262	3.468	ppbv #	76
30) Cyclohexane	7.14	84	101224	0.675	ppbv	95
34) 2-Butanone	5.25	43	203547	1.206	ppbv #	88
53) Toluene	9.81	91	341846	0.815	ppbv	99
58) Ethyl Benzene	12.72	91	96523m	0.183	ppbv	
59) m/p-Xylene	12.97	91	313560m	0.702	ppbv	
60) o-Xylene	13.70	91	139351m	0.327	ppbv	
61) Styrene	13.53	104	1836007	8.359	ppbv	98
72) 4-Ethyltoluene	15.85	105	75628m	0.156	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	96800m	0.207	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	262641	0.545	ppbv #	70

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

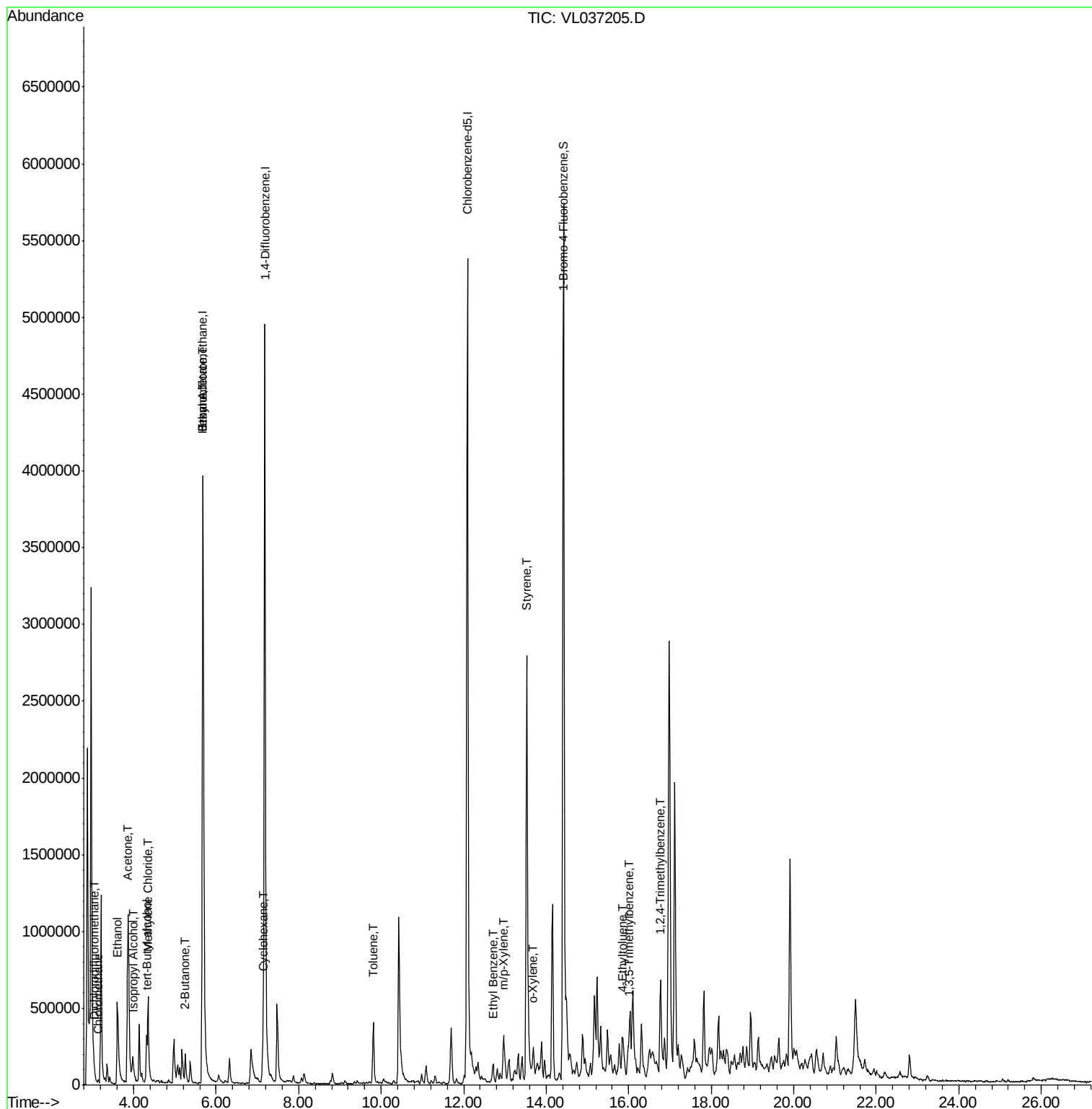
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL061721\
Data File : VL037205.D
Acq On : 17 Jun 2021 17:21
Operator : SY/AP
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

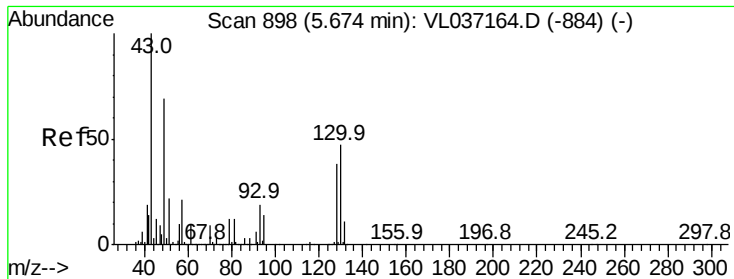
Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-4DL

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Quant Time: Jun 19 17:22:02 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# 897

Delta R.T. -0.00 min

Lab File: VL037205.D

Acq: 17 Jun 2021 17:21

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-4DL

Tot Ion: 49 Resp: 1458939

Ion Ratio Lower Upper

49 100

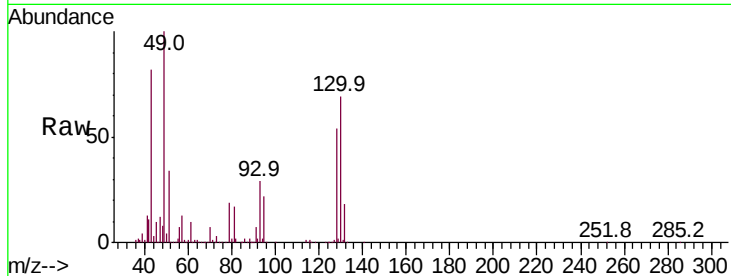
128 57.1 29.3 88.0

130 73.2 35.9 107.8

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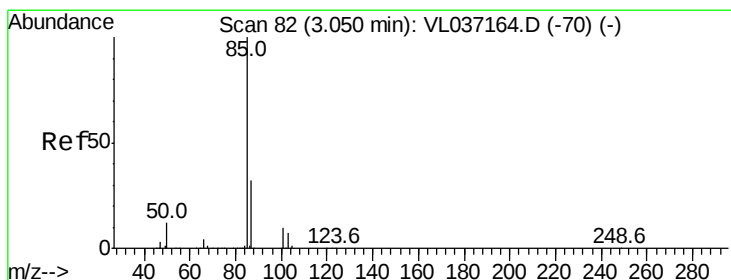
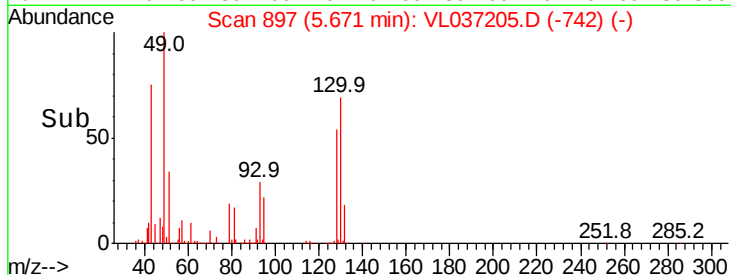
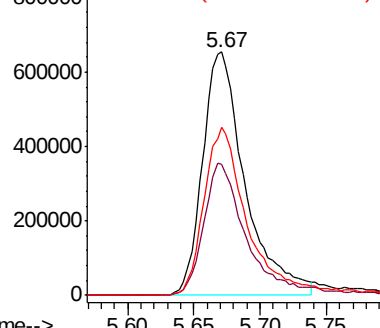
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.114 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL037205.D

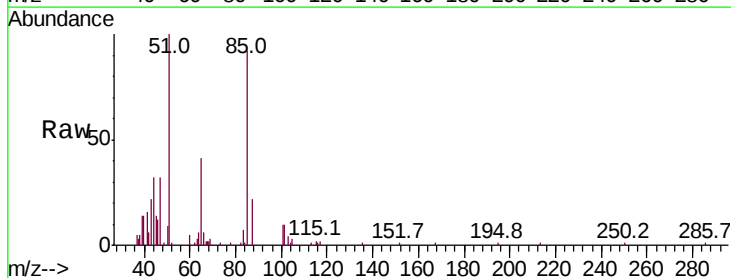
Acq: 17 Jun 2021 17:21

Tgt Ion: 85 Resp: 29052

Ion Ratio Lower Upper

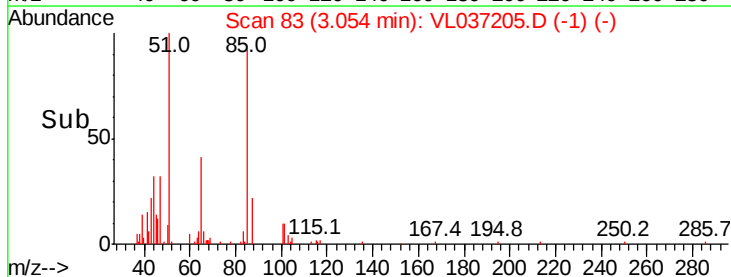
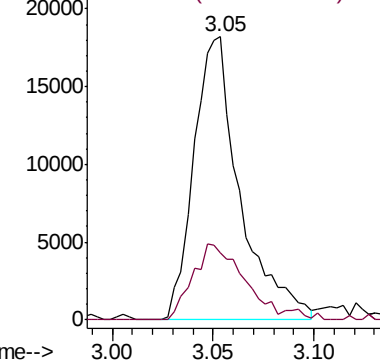
85 100

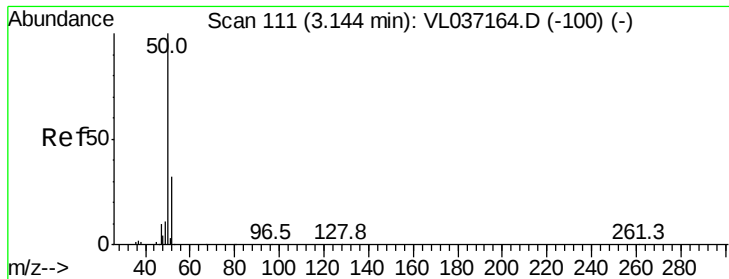
87 23.8 25.8 38.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.170 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL037205.D

Acq: 17 Jun 2021 17:21

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-4DL

Tot Ion: 50 Resp: 16057

Ion Ratio Lower Upper

50 100

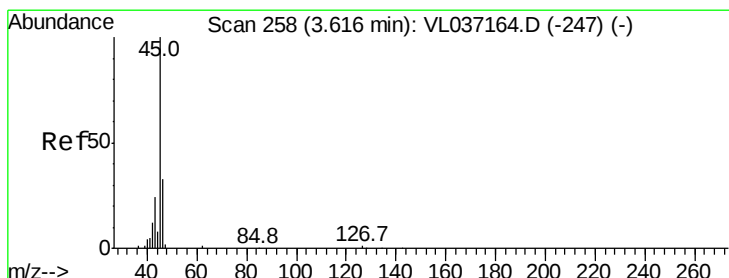
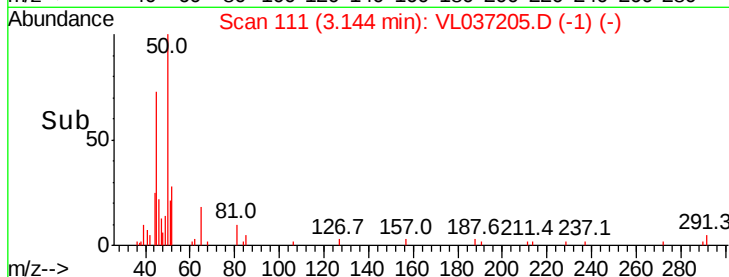
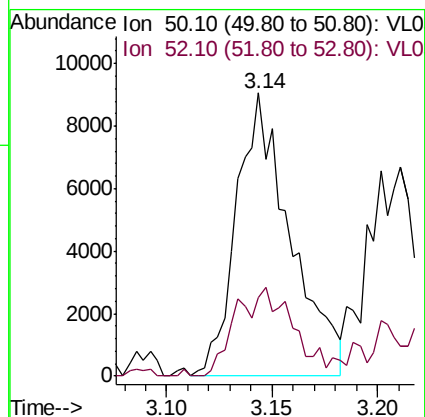
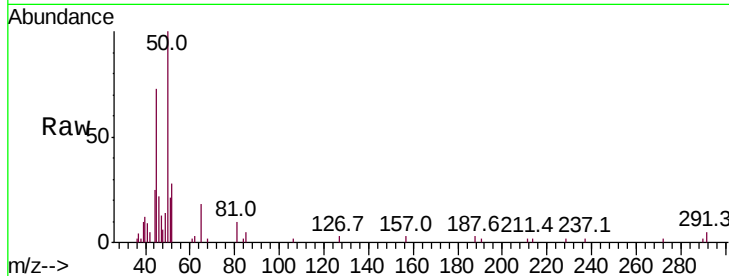
52 27.5 25.8 38.8

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#13

Ethanol

Concen: 60.163 ppbv m

RT: 3.61 min Scan# 255

Delta R.T. -0.01 min

Lab File: VL037205.D

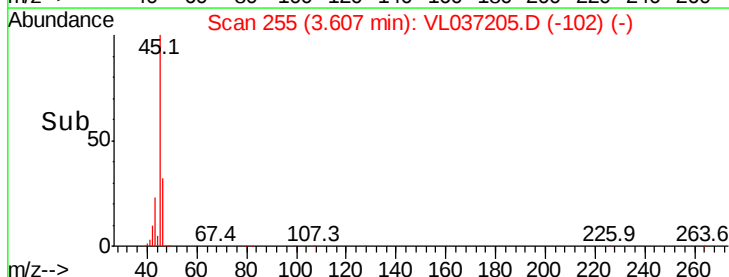
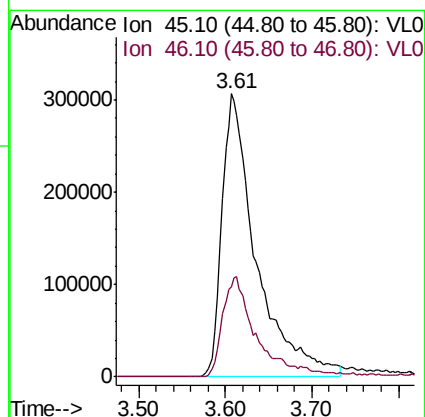
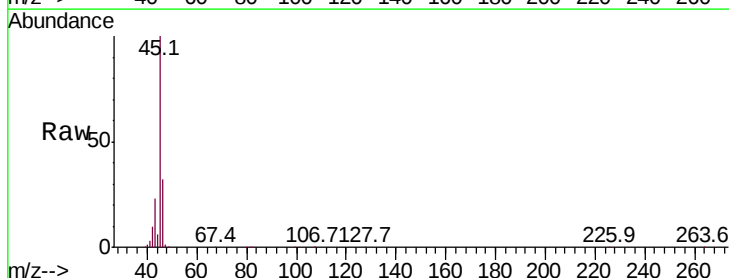
Acq: 17 Jun 2021 17:21

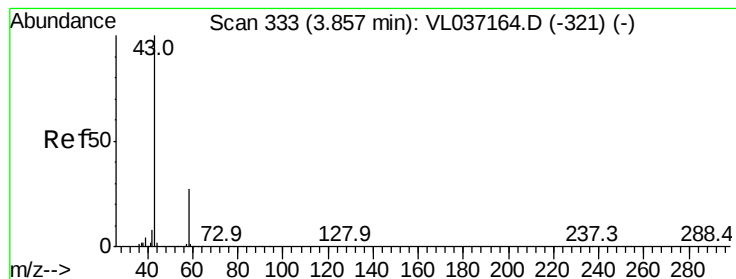
Tgt Ion: 45 Resp: 844186

Ion Ratio Lower Upper

45 100

46 35.6 34.2 137.0





#15

Acetone

Concen: 6.346 ppbv m

RT: 3.85 min Scan# 331

Delta R.T. -0.01 min

Lab File: VL037205.D

Acq: 17 Jun 2021 17:21

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-4DL

Tot Ion: 43 Resp: 1044127

Ion Ratio Lower Upper

43 100

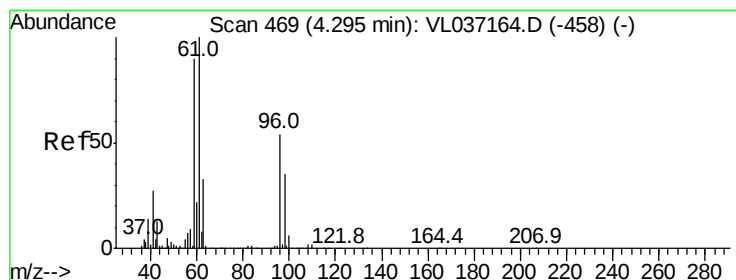
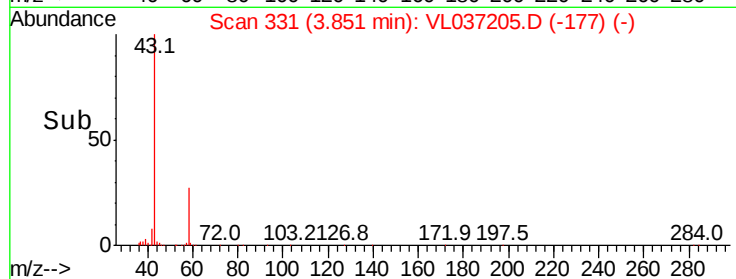
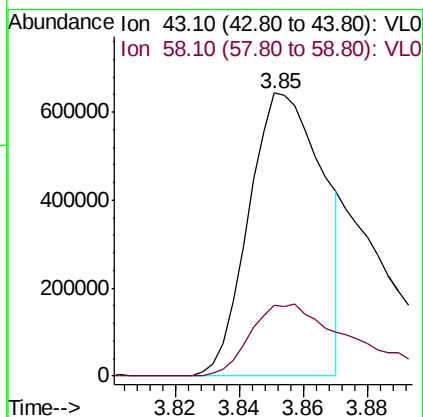
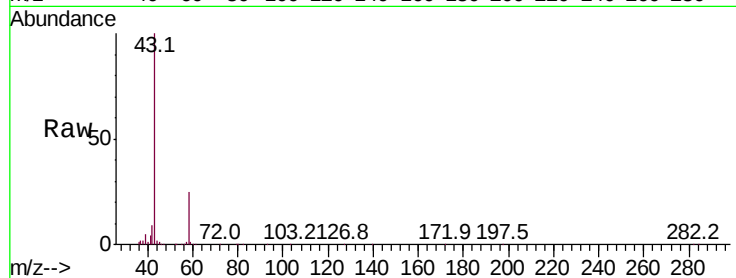
58 41.6 23.7 35.5#

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#17

tert-Butyl alcohol

Concen: 1.039 ppbv

RT: 4.31 min Scan# 473

Delta R.T. 0.01 min

Lab File: VL037205.D

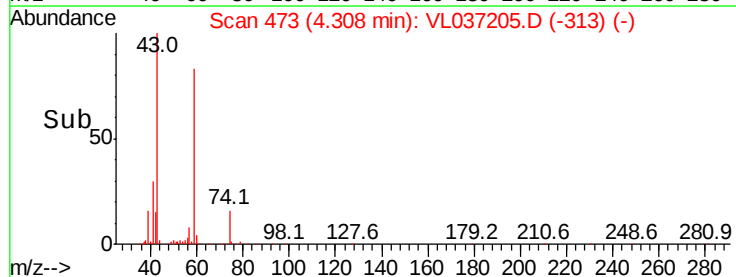
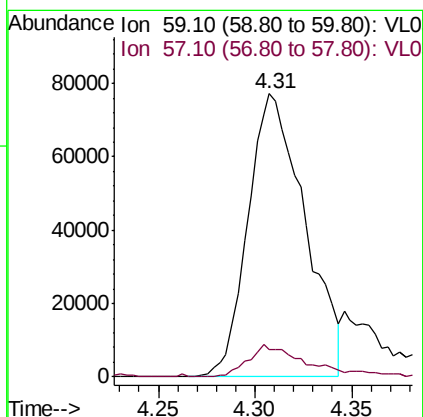
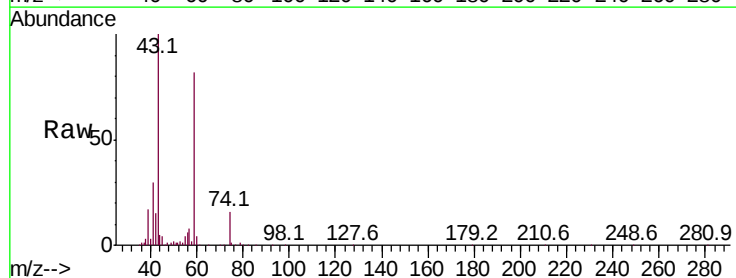
Acq: 17 Jun 2021 17:21

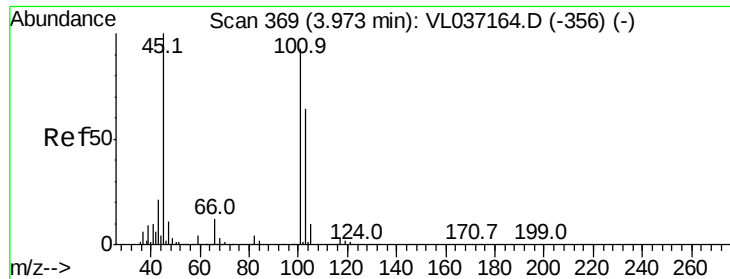
Tgt Ion: 59 Resp: 158044

Ion Ratio Lower Upper

59 100

57 12.1 8.8 13.2





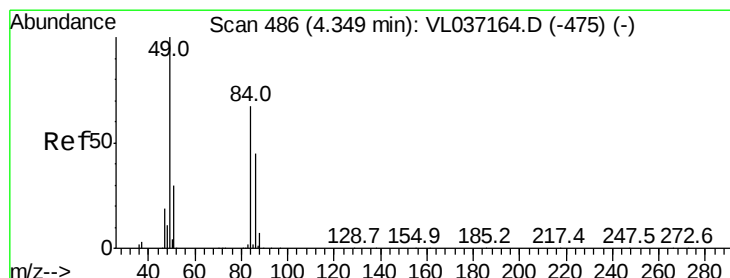
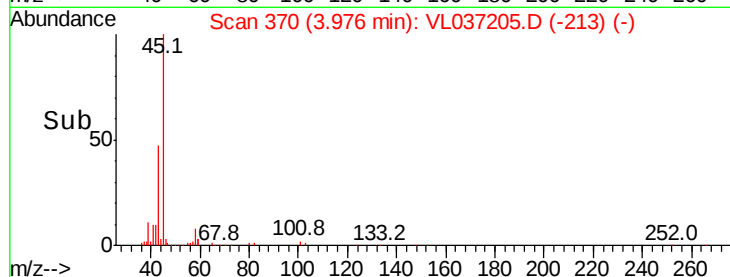
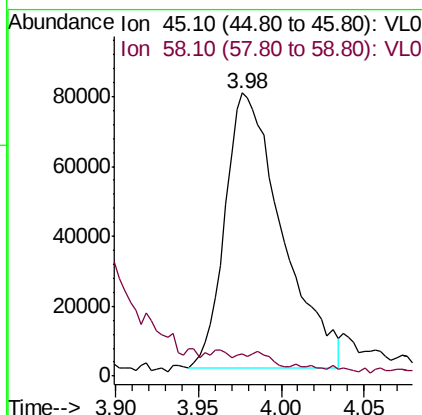
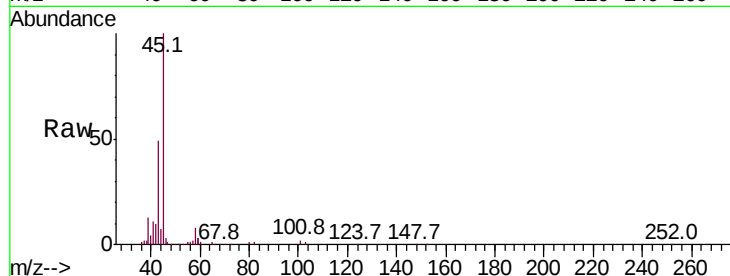
#19
Isopropyl Alcohol
Concen: 1.895 ppbv
RT: 3.98 min Scan# 370
Delta R.T. 0.00 min
Lab File: VL037205.D
Acq: 17 Jun 2021 17:21

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-4DL

Tot Ion: 45 Resp: 188852
Ion Ratio Lower Upper
45 100
58 230.1 2.4 3.6#

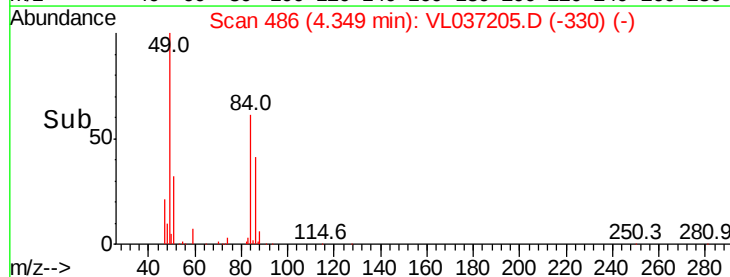
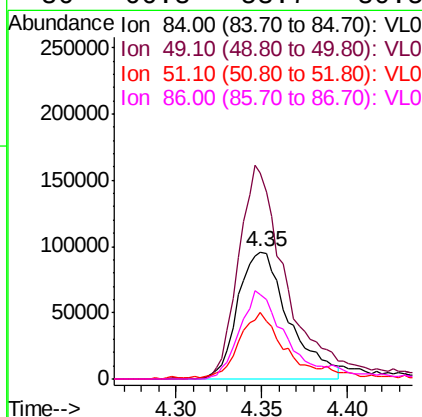
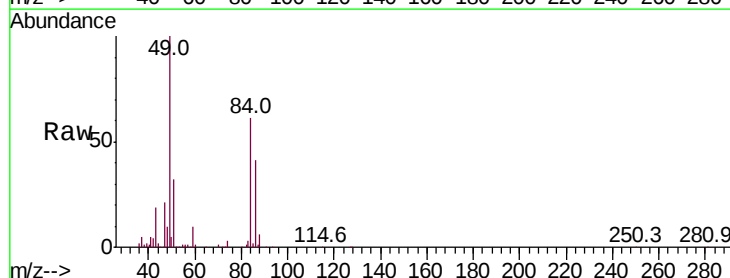
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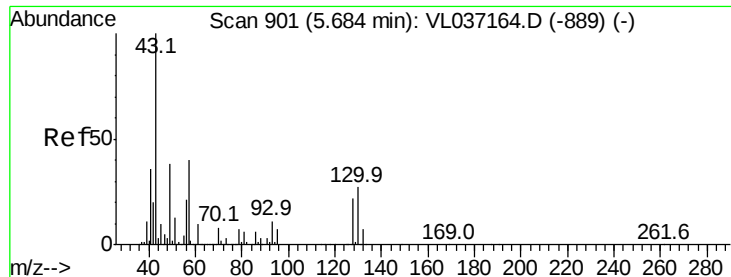
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#20
Methylene Chloride
Concen: 2.001 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.00 min
Lab File: VL037205.D
Acq: 17 Jun 2021 17:21

Tgt Ion: 84 Resp: 197068
Ion Ratio Lower Upper
84 100
49 161.9 119.7 179.5
51 50.9 36.1 54.1
86 66.8 53.7 80.5





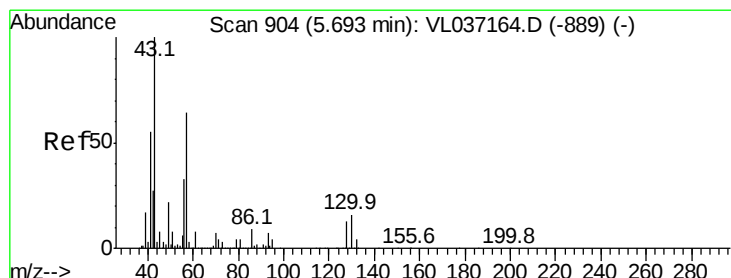
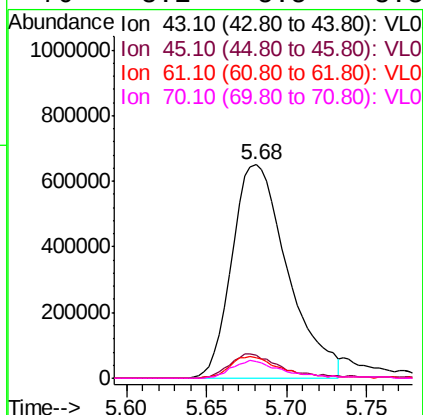
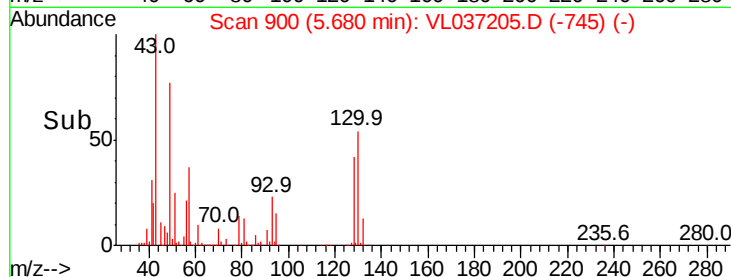
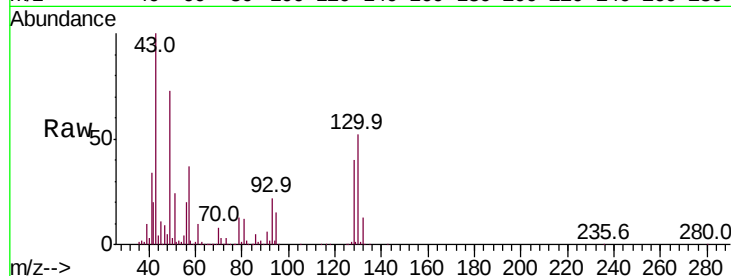
#25
Ethyl Acetate
Concen: 4.332 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL037205.D
Acq: 17 Jun 2021 17:21

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-4DL

Tot Ion	Ratio	Lower	Upper
43	100		
45	11.1	8.0	12.0
61	10.0	8.1	12.1
70	8.1	5.5	8.3

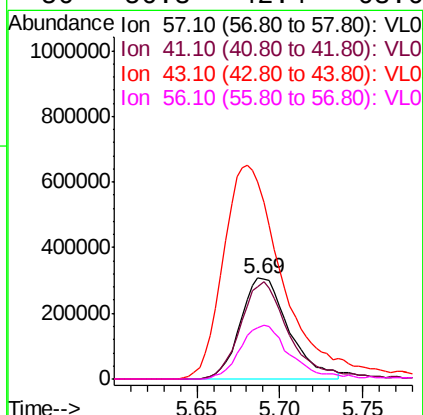
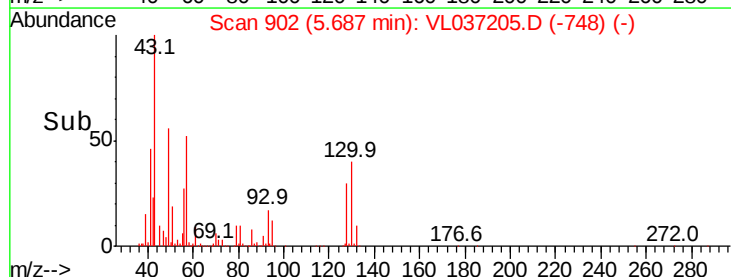
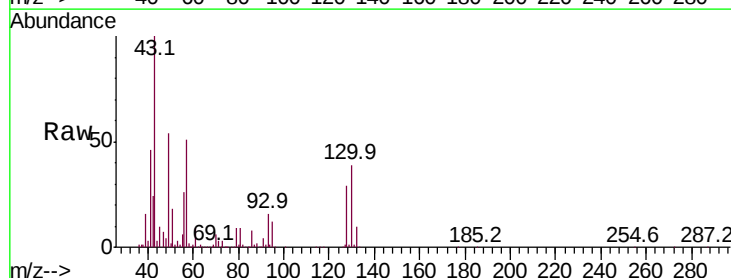
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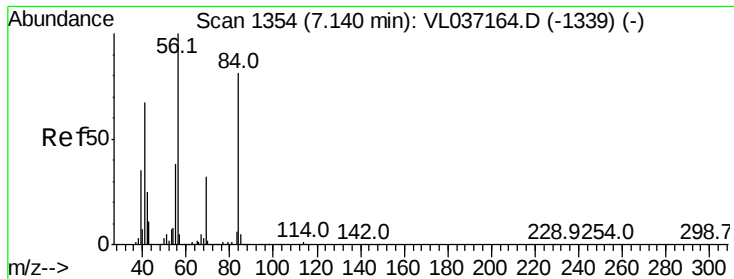
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#26
Hexane
Concen: 3.468 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL037205.D
Acq: 17 Jun 2021 17:21

Tgt Ion	Ratio	Lower	Upper
57	100		
41	99.8	73.5	110.3
43	269.8	170.7	256.1#
56	56.3	42.4	63.6





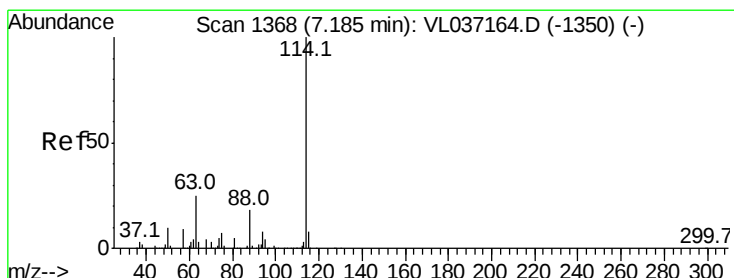
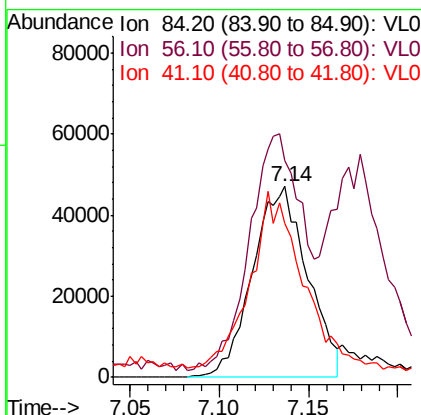
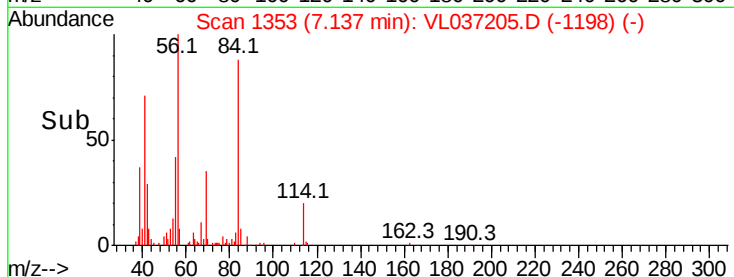
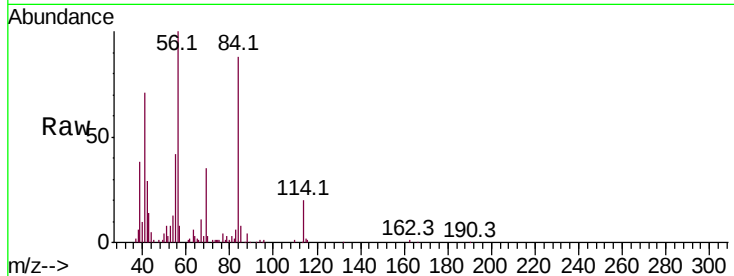
#30
Cvclohexane
Concen: 0.675 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. -0.00 min
Lab File: VL037205.D
Acq: 17 Jun 2021 17:21

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-4DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	130.1	107.7	161.5
41	92.9	69.0	103.6

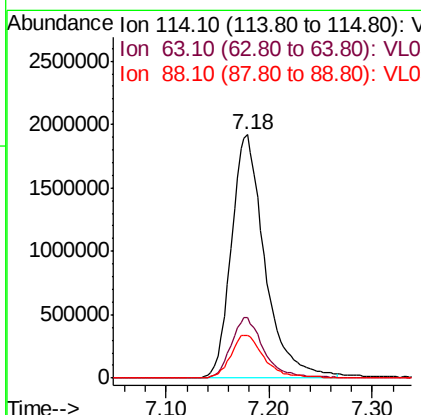
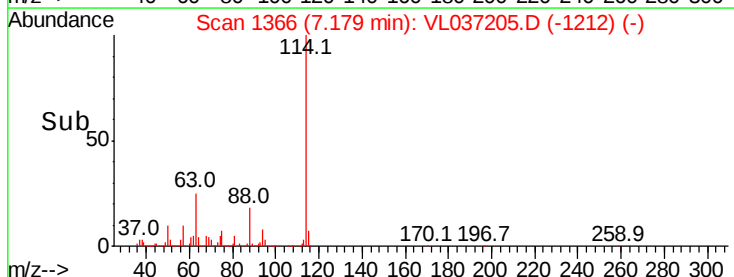
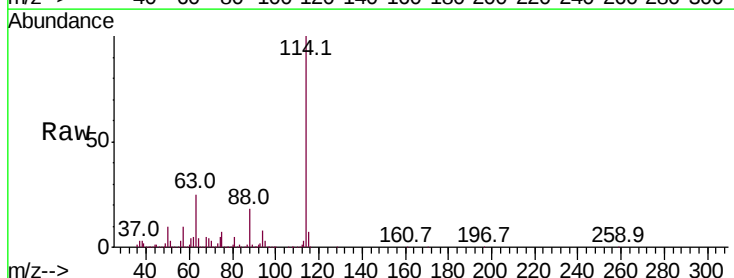
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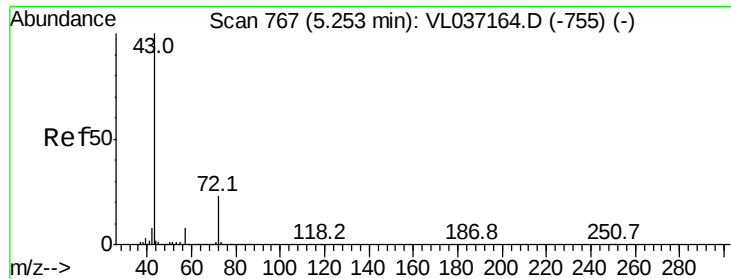
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VL037205.D
Acq: 17 Jun 2021 17:21

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: 1.206 ppbv

RT: 5.25 min Scan# 766

Delta R.T. -0.00 min

Lab File: VL037205.D

Acq: 17 Jun 2021 17:21

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-4DL

Tot Ion: 43 Resp: 203547

Ion Ratio Lower Upper

43 100

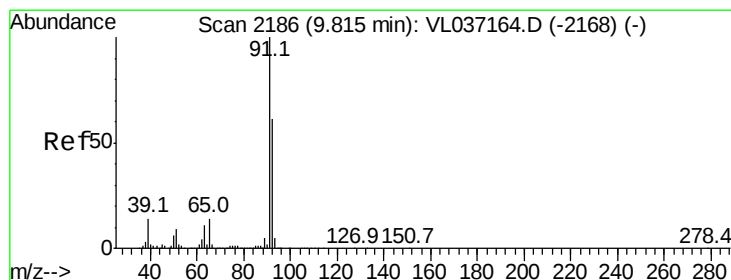
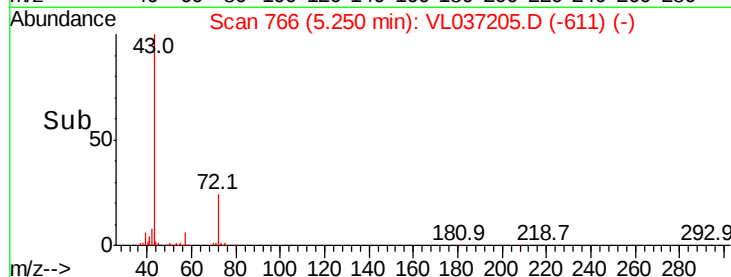
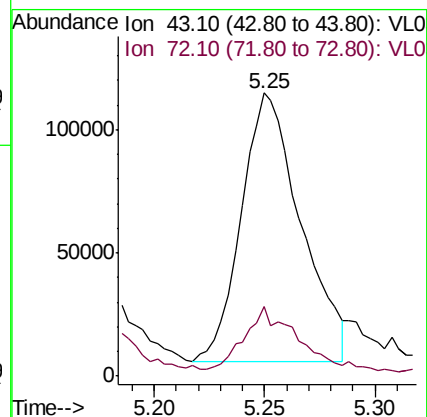
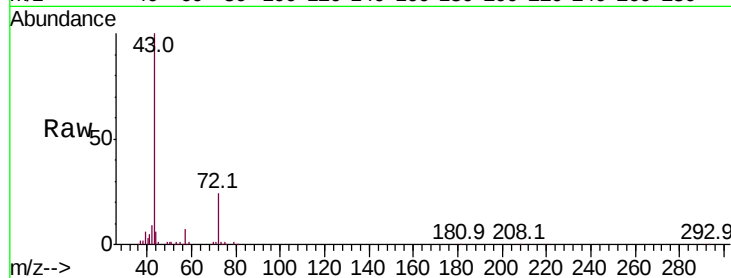
72 29.6 18.9 28.3#

Manual Integrations

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#53

Toluene

Concen: 0.815 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.01 min

Lab File: VL037205.D

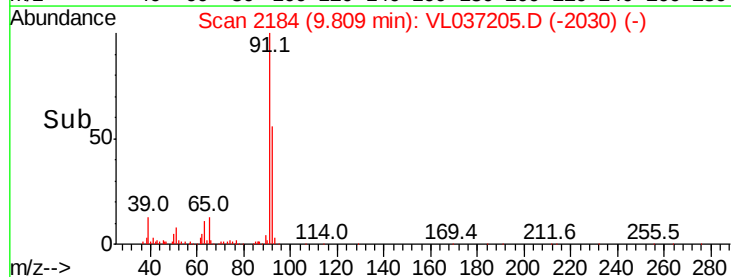
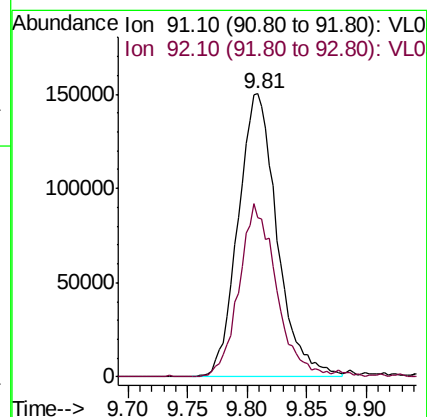
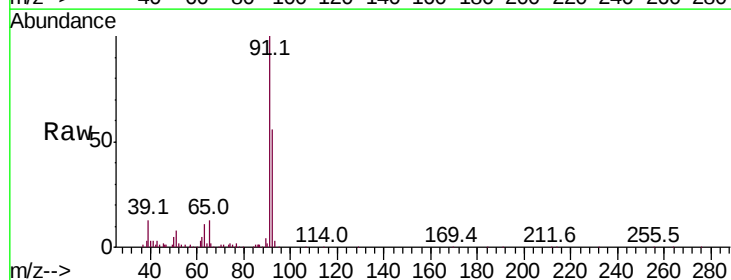
Acq: 17 Jun 2021 17:21

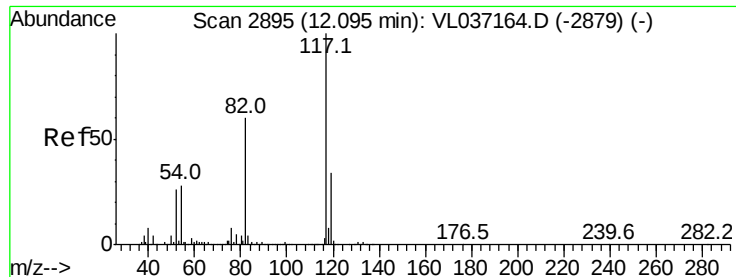
Tgt Ion: 91 Resp: 341846

Ion Ratio Lower Upper

91 100

92 59.7 48.3 72.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL037205.D

Acq: 17 Jun 2021 17:21

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-4DL

Tot Ion:117 Resp: 3831041

Ion Ratio Lower Upper

117 100

82 66.1 51.7 77.5

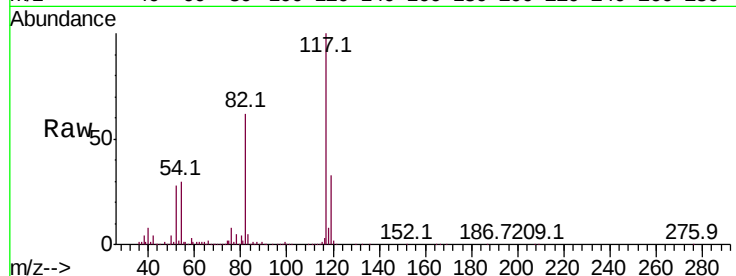
119 34.5 47.6 71.4#

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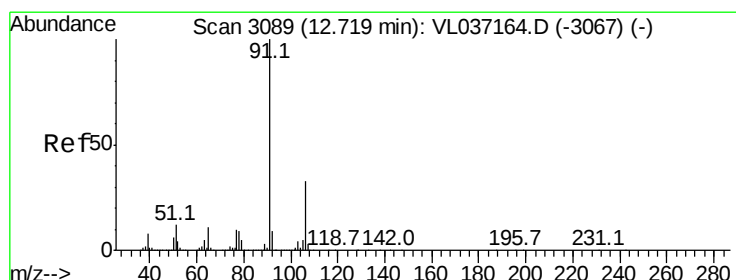
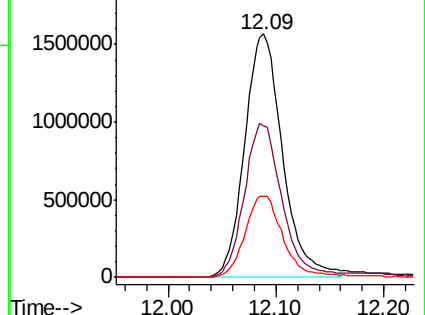
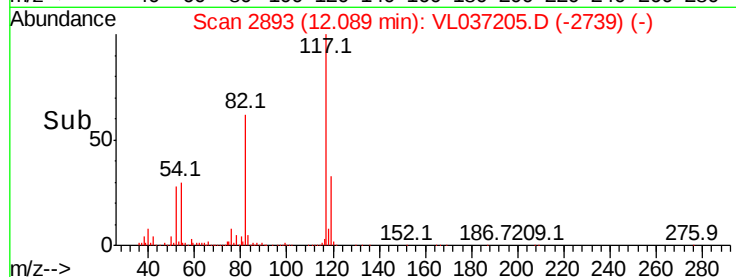
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.183 ppbv m

RT: 12.72 min Scan# 3088

Delta R.T. -0.00 min

Lab File: VL037205.D

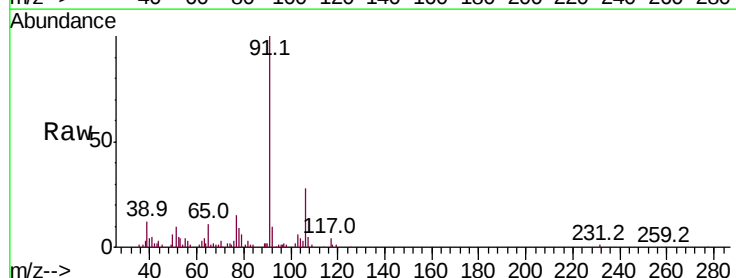
Acq: 17 Jun 2021 17:21

Tgt Ion: 91 Resp: 96523

Ion Ratio Lower Upper

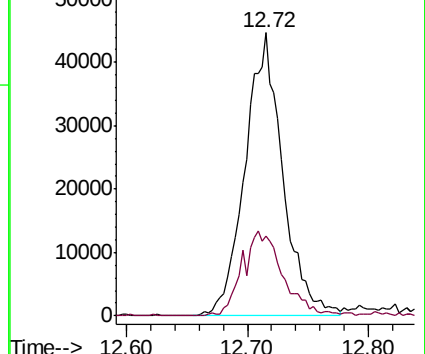
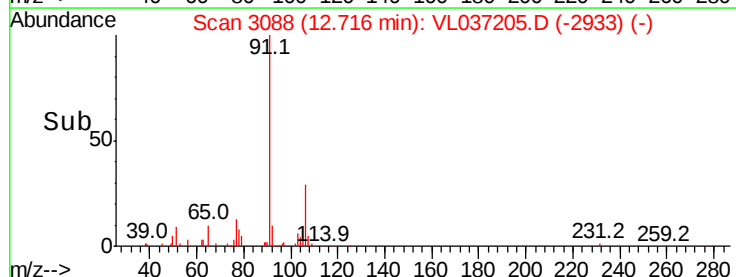
91 100

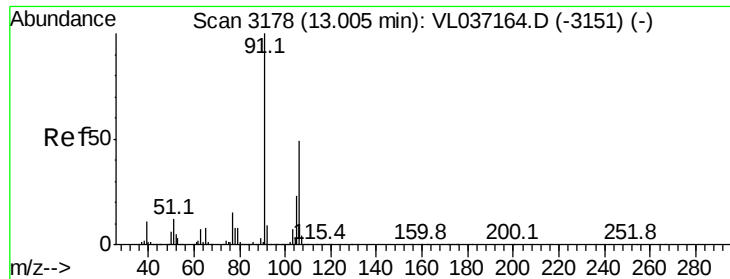
106 28.4 26.3 39.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





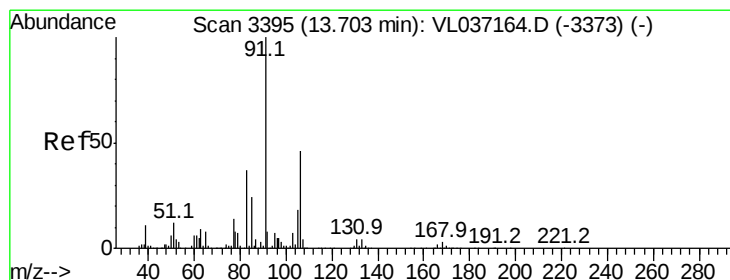
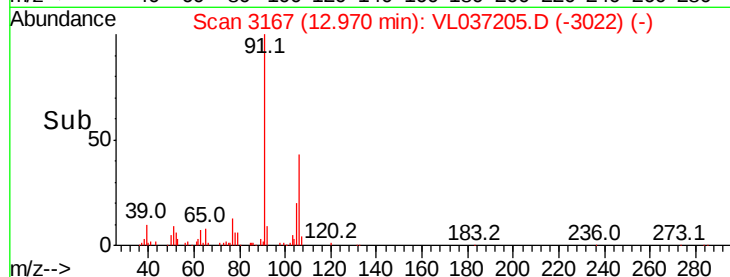
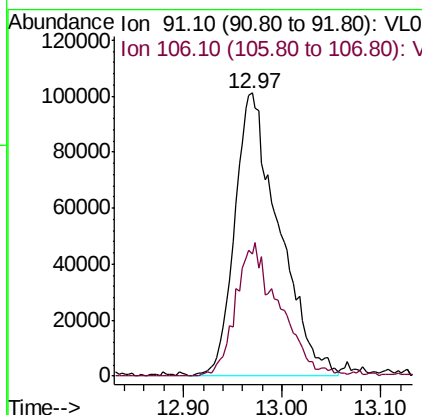
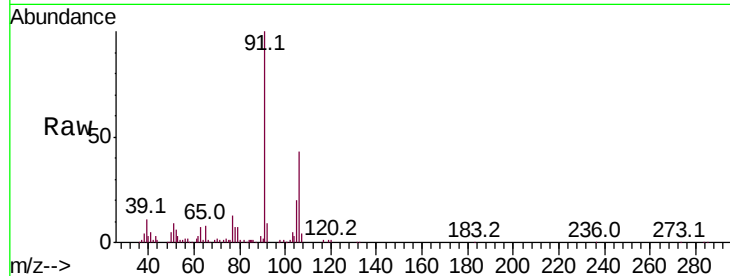
#59
m/p-Xylene
Concen: 0.702 ppbv m
RT: 12.97 min Scan# 3167
Delta R.T. -0.04 min
Lab File: VL037205.D
Acq: 17 Jun 2021 17:21

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-4DL

Tot Ion: 91 Resp: 313560
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.4#

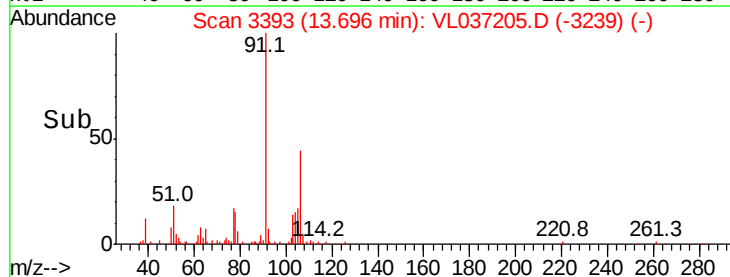
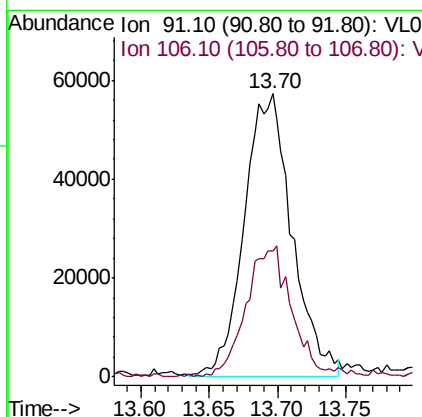
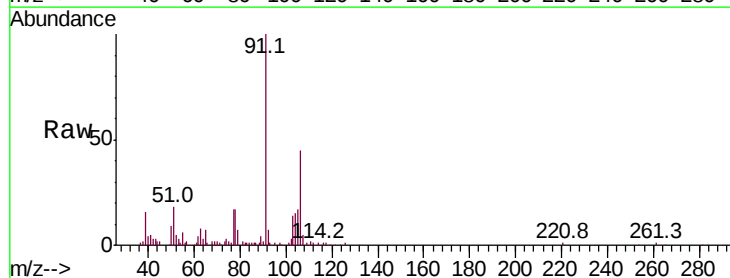
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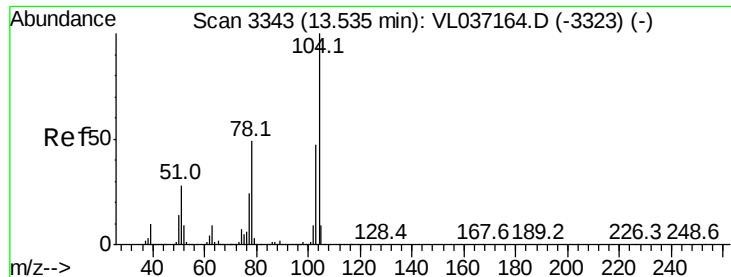
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#60
o-Xylene
Concen: 0.327 ppbv m
RT: 13.70 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL037205.D
Acq: 17 Jun 2021 17:21

Tgt Ion: 91 Resp: 139351
Ion Ratio Lower Upper
91 100
106 45.5 23.0 69.0





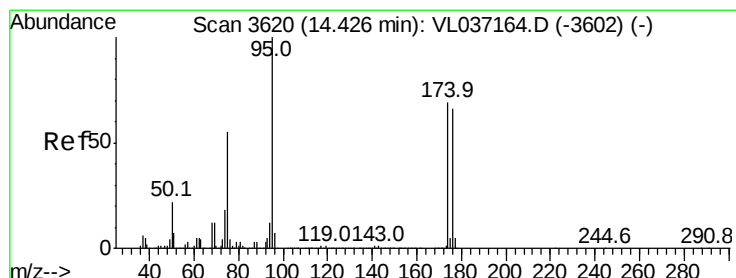
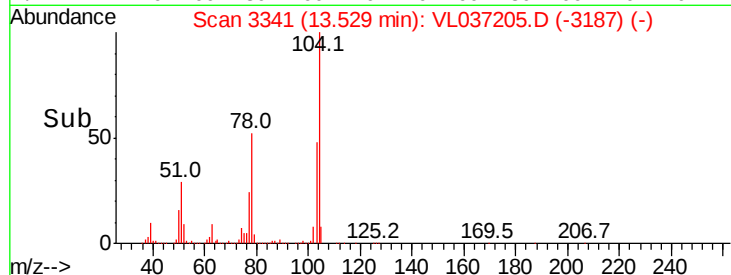
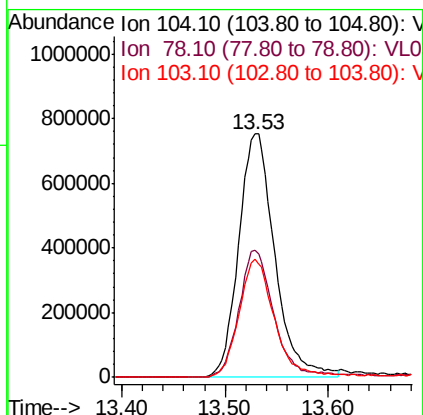
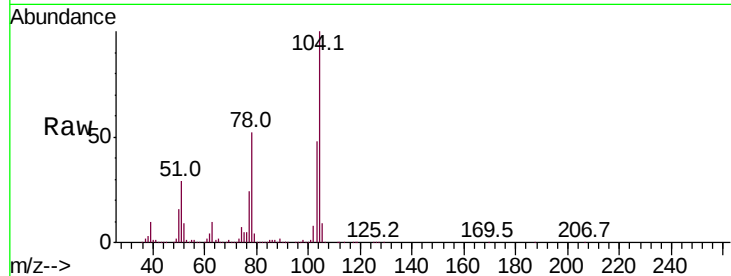
#61
Stvrene
Concen: 8.359 ppbv
RT: 13.53 min Scan# 3341
Delta R.T. -0.01 min
Lab File: VL037205.D
Acq: 17 Jun 2021 17:21

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-4DL

Tot Ion	Ratio	Lower	Upper
104	100		
78	51.5	39.7	59.5
103	48.4	37.6	56.4

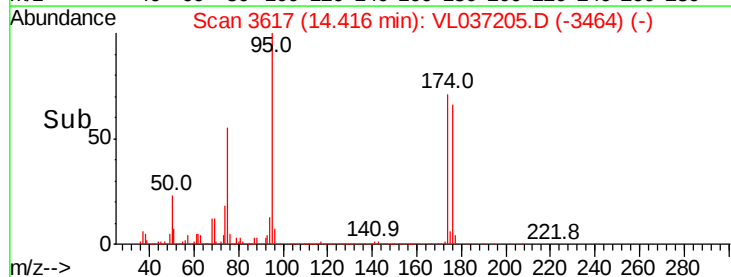
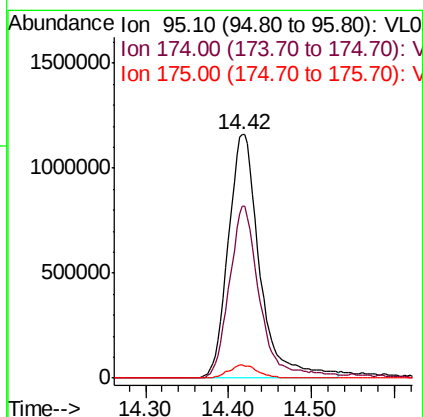
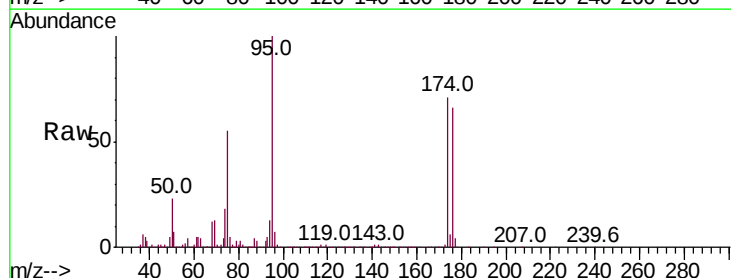
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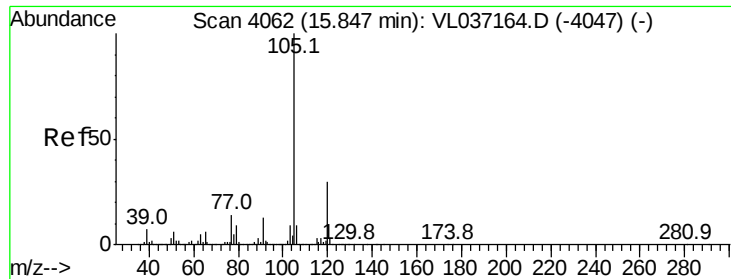
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.532 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL037205.D
Acq: 17 Jun 2021 17:21

Tgt Ion	Ratio	Lower	Upper
95	100		
174	70.7	57.0	85.4
175	5.2	4.4	6.6





#72

4-Ethyltoluene

Concen: 0.156 ppbv m

RT: 15.85 min Scan# 4062

Delta R.T. -0.00 min

Lab File: VL037205.D

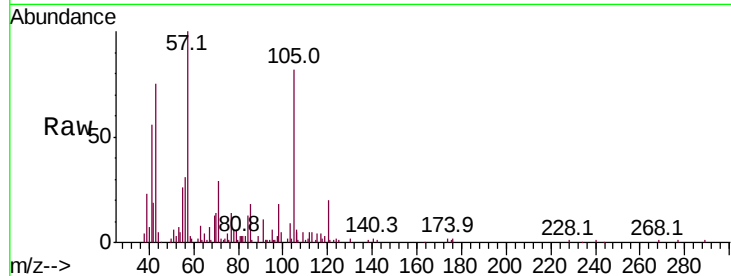
Acq: 17 Jun 2021 17:21

Instrument :

MSVOA_L

ClientSampleId :

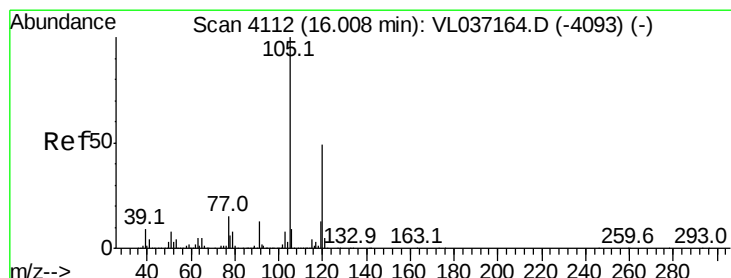
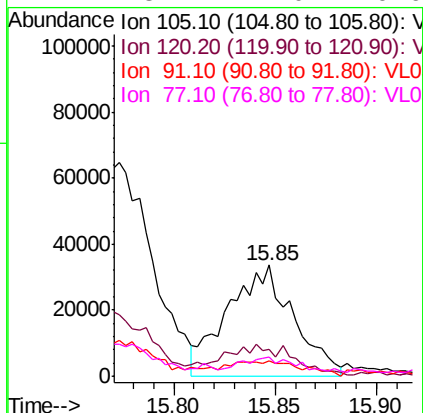
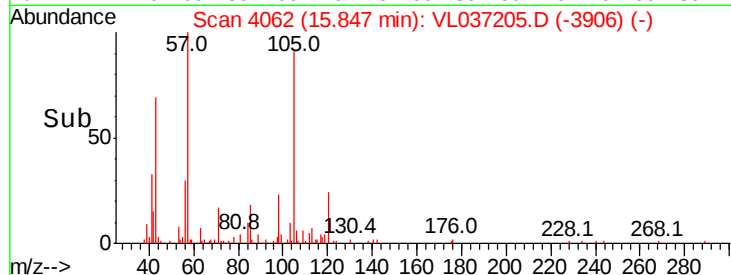
IA-BEDROOM-4DL



Tot Ion	Ratio	Lower	Upper
105	100		
120	31.1	24.7	37.1
91	13.8	10.2	15.4
77	18.2	11.0	16.6

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#73

1,3,5-Trimethylbenzene

Concen: 0.207 ppbv m

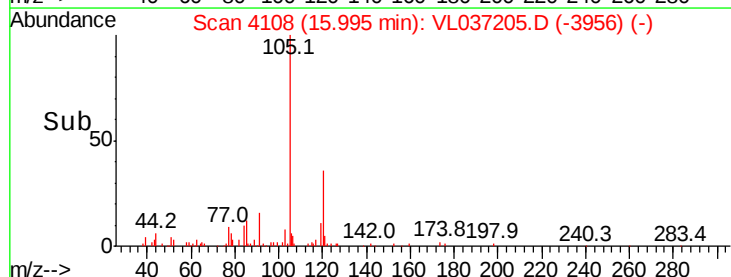
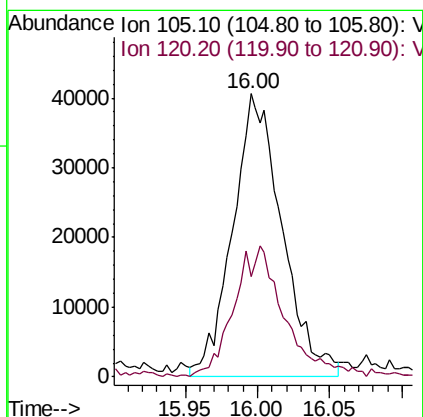
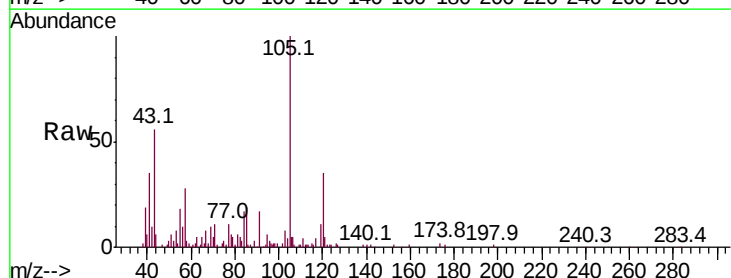
RT: 16.00 min Scan# 4108

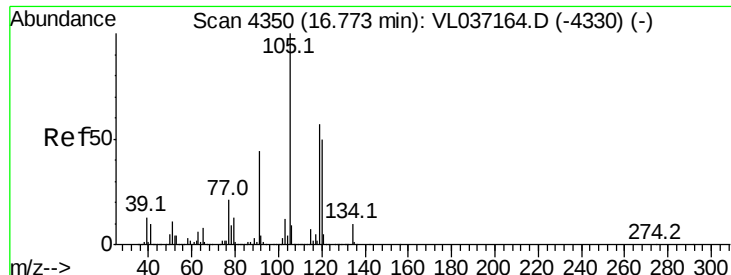
Delta R.T. -0.01 min

Lab File: VL037205.D

Acq: 17 Jun 2021 17:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	35.4	39.4	59.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.545 ppbv
 RT: 16.76 min Scan# 4346
 Delta R.T. -0.01 min
 Lab File: VL037205.D
 Acq: 17 Jun 2021 17:21

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-4DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	37.7	39.8	59.8#
91	11.2	37.0	55.4#
77	15.6	17.0	25.4#

Manual Integrations
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