

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061721\
 Data File : VL037203.D
 Acq On : 17 Jun 2021 16:02
 Operator : SY/AP
 Sample : M2721-04DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-2DL

Manual Integrations
 APPROVED

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 6/21/2021 12:54:03 PM

Quant Time: Jun 19 17:19:11 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 17
 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	1500965	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4346961	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3854851	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	3002313	10.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	29064	0.111	ppbv	89
4) Chloromethane	3.14	50	14545	0.150	ppbv	97
9) Propene	3.02	41	31295m	0.335	ppbv	
13) Ethanol	3.61	45	651215	45.111	ppbv	48
15) Acetone	3.85	43	1048123m	6.192	ppbv	
17) tert-Butyl alcohol	4.31	59	160997m	1.029	ppbv	
19) Isopropyl Alcohol	3.98	45	146505	1.429	ppbv #	79
20) Methylene Chloride	4.35	84	449098	4.432	ppbv	98
25) Ethyl Acetate	5.68	43	1630483	4.450	ppbv	97
26) Hexane	5.69	57	938315	5.067	ppbv	87
30) Cyclohexane	7.13	84	95428	0.618	ppbv #	86
34) 2-Butanone	5.25	43	185337	1.096	ppbv	92
53) Toluene	9.81	91	320129	0.762	ppbv	99
58) Ethyl Benzene	12.71	91	77611m	0.146	ppbv	
59) m/p-Xylene	12.97	91	250201m	0.556	ppbv	
60) o-Xylene	13.69	91	106246	0.248	ppbv	94
61) Styrene	13.53	104	1500002	6.787	ppbv	97
72) 4-Ethyltoluene	15.84	105	62866m	0.129	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	78093m	0.166	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	209603	0.433	ppbv #	75

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

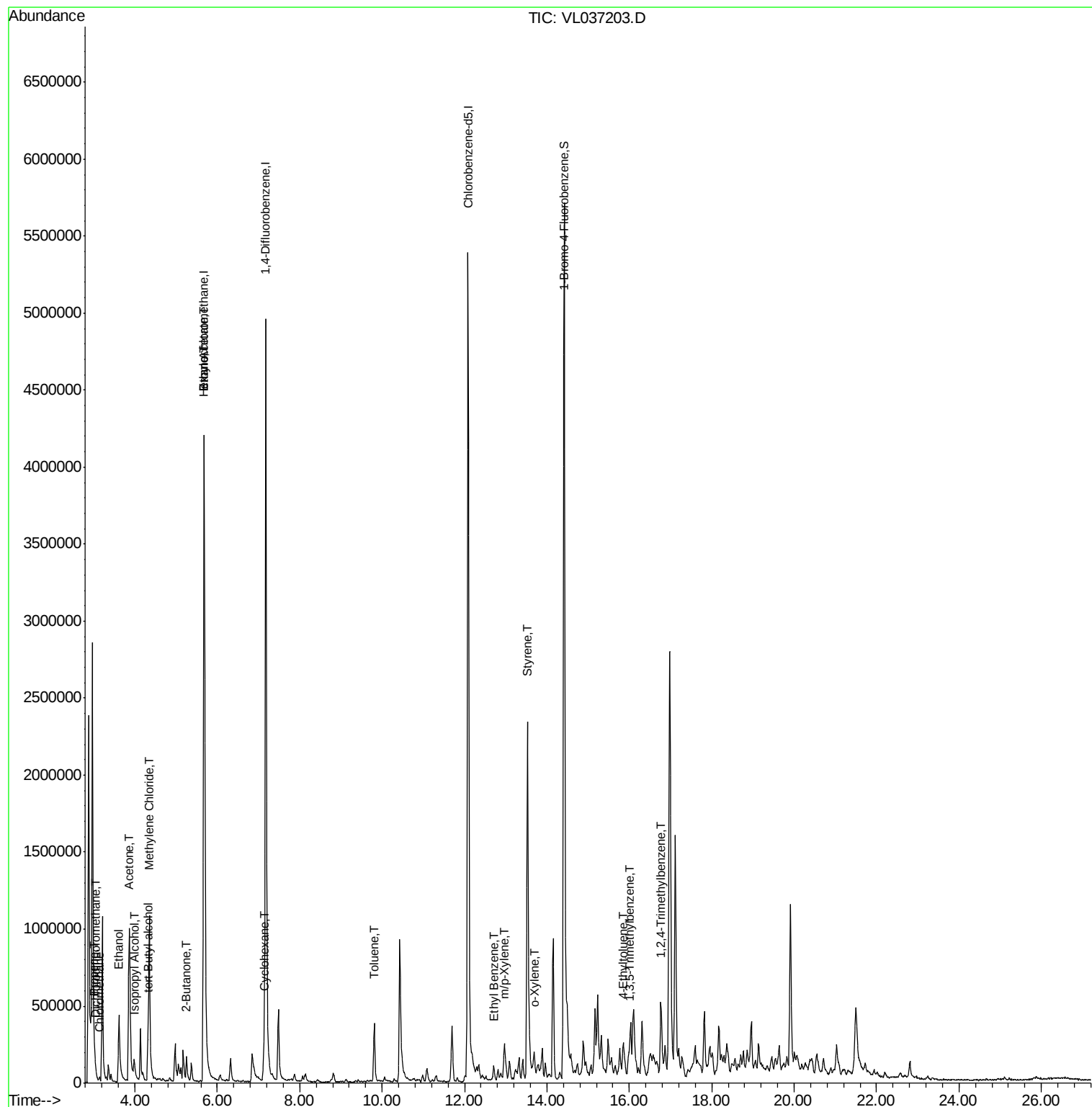
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL061721\
Data File : VL037203.D
Acq On : 17 Jun 2021 16:02
Operator : SY/AP
Sample : M2721-04DL 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

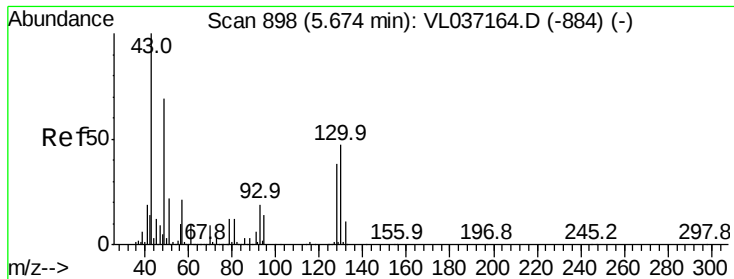
Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-2DL

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Quant Time: Jun 19 17:19:11 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

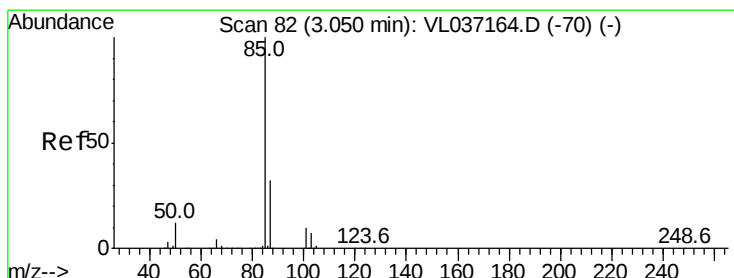
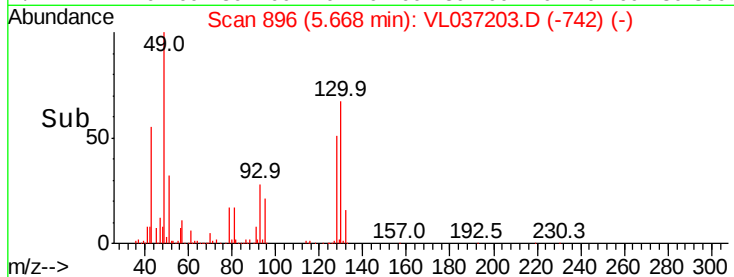
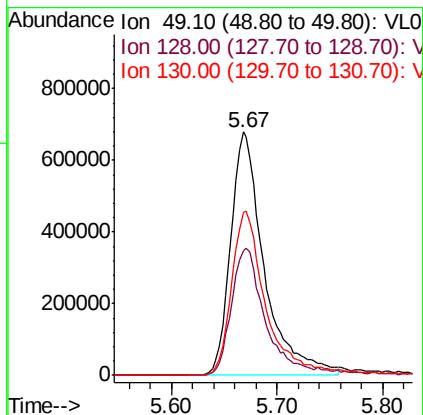
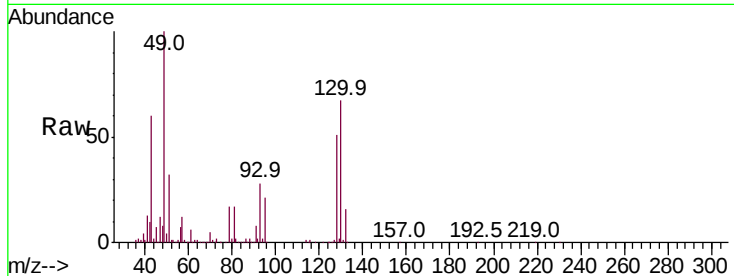
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL037203.D
Acq: 17 Jun 2021 16:02

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-2DL

Tot Ion: 49 Resp: 1500965
Ion Ratio Lower Upper
49 100
128 55.2 29.3 88.0
130 70.5 35.9 107.8

Manual Integrations
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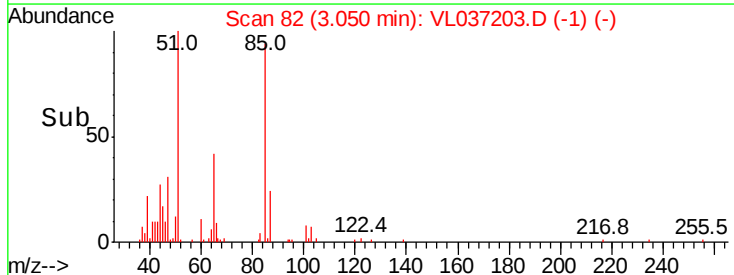
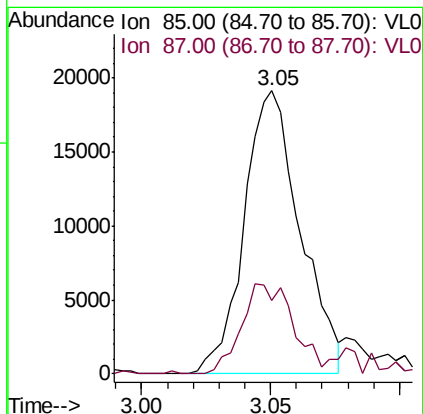
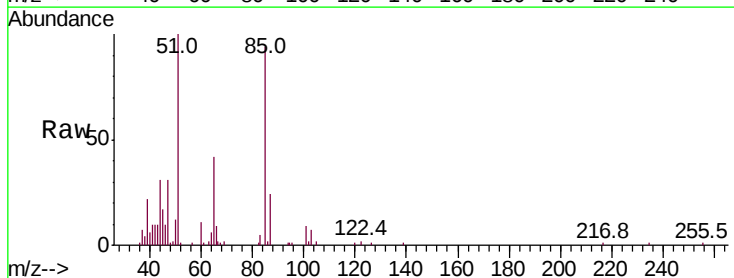
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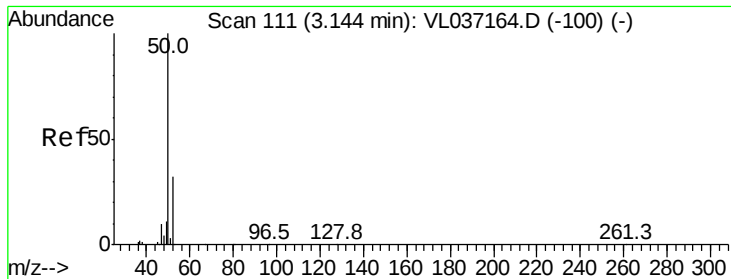


#2

Dichlorodifluoromethane
Concen: 0.111 ppbv
RT: 3.05 min Scan# 82
Delta R.T. 0.00 min
Lab File: VL037203.D
Acq: 17 Jun 2021 16:02

Tgt Ion: 85 Resp: 29064
Ion Ratio Lower Upper
85 100
87 25.8 25.8 38.6





#4

Chloromethane

Concen: 0.150 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL037203.D

Acq: 17 Jun 2021 16:02

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-2DL

Tot Ion: 50 Resp: 14545

Ion Ratio Lower Upper

50 100

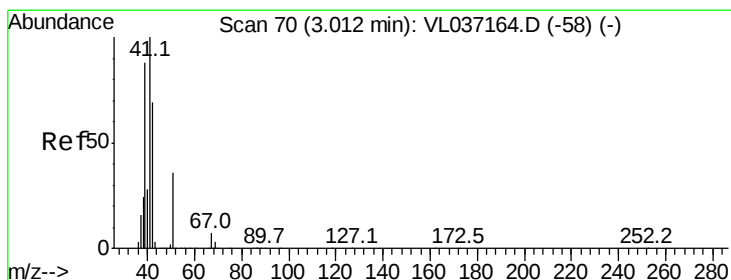
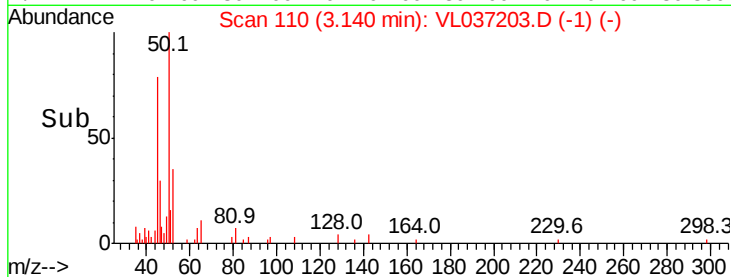
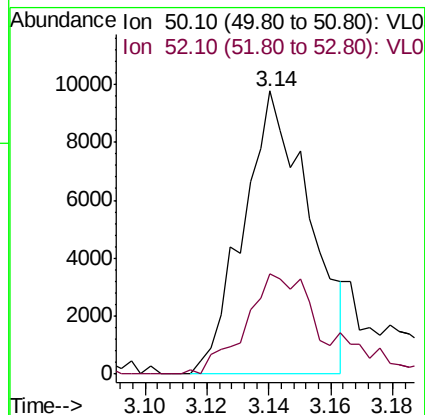
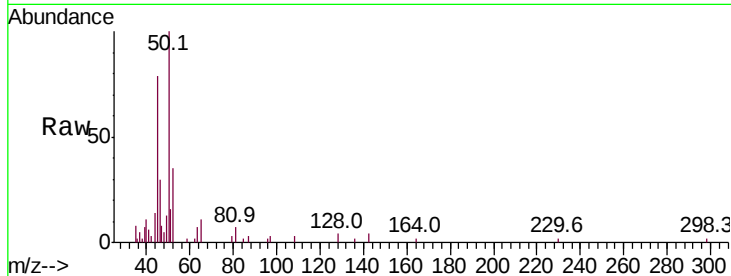
52 33.8 25.8 38.8

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#9

Propene

Concen: 0.335 ppbv m

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL037203.D

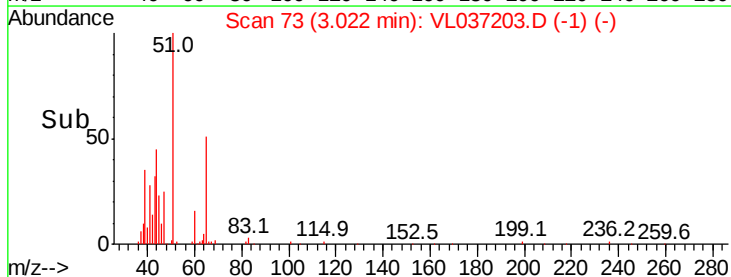
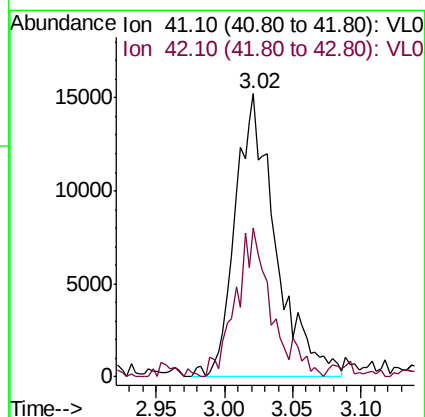
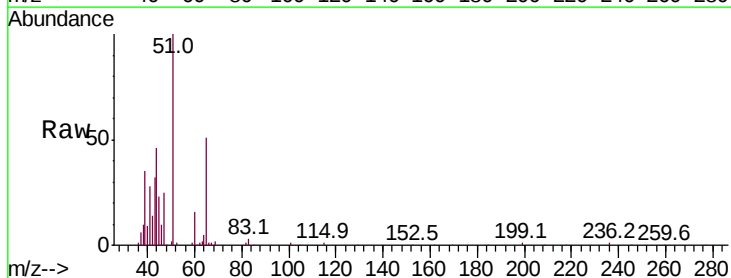
Acq: 17 Jun 2021 16:02

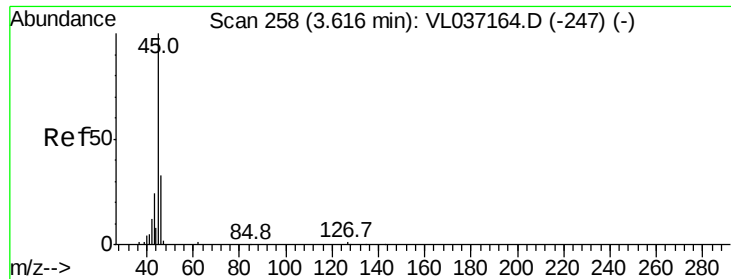
Tgt Ion: 41 Resp: 31295

Ion Ratio Lower Upper

41 100

42 823.5 54.5 81.7#





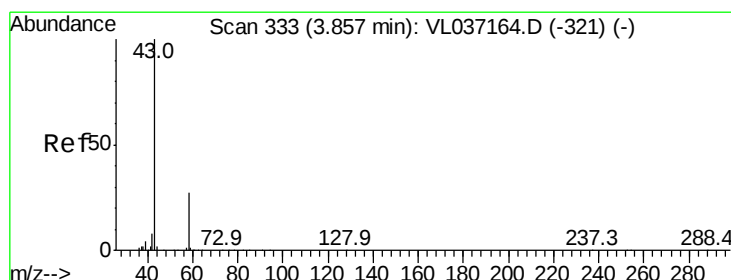
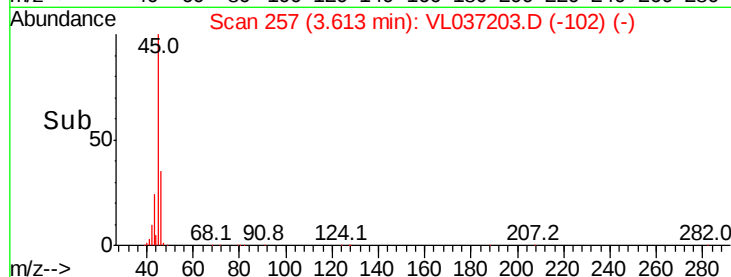
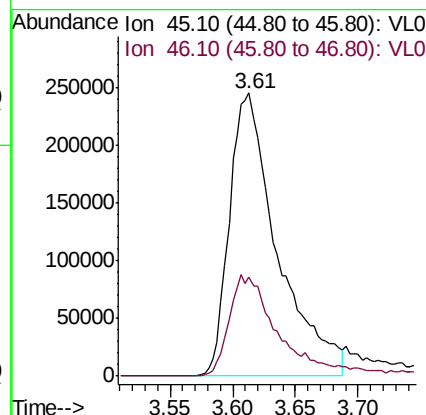
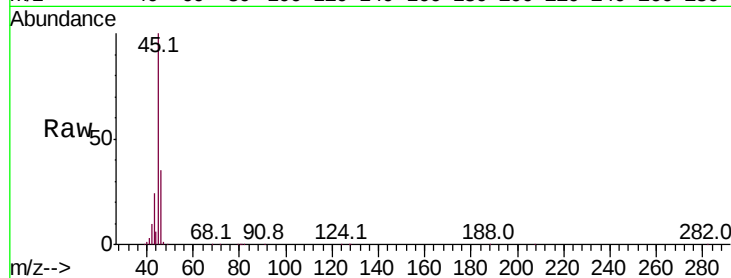
#13
Ethanol
Concen: 45.111 ppbv
RT: 3.61 min Scan# 257
Delta R.T. -0.00 min
Lab File: VL037203.D
Acq: 17 Jun 2021 16:02

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-2DL

Tot Ion	Ratio	Lower	Upper
45	100		
46	37.8	34.2	137.0

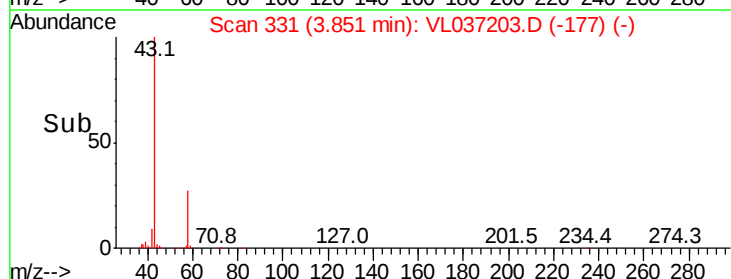
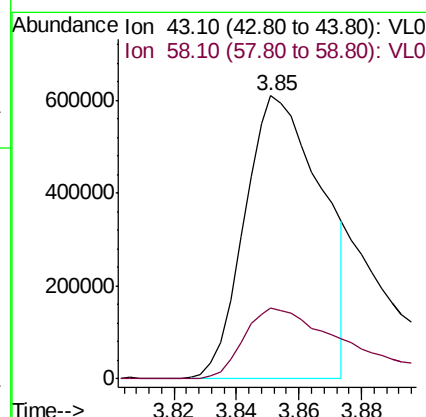
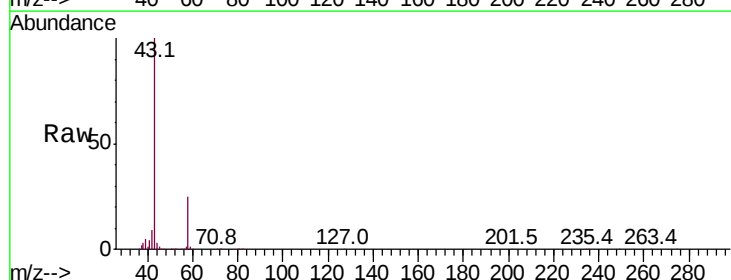
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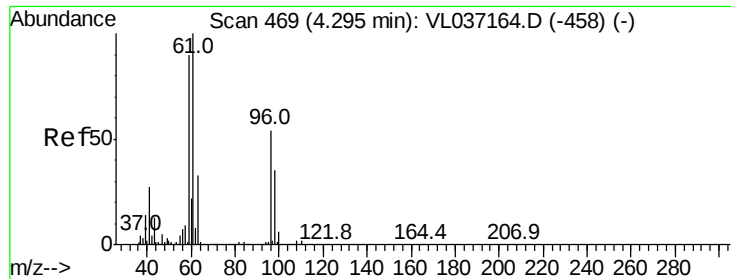
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#15
Acetone
Concen: 6.192 ppbv m
RT: 3.85 min Scan# 331
Delta R.T. -0.01 min
Lab File: VL037203.D
Acq: 17 Jun 2021 16:02

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.6	23.7	35.5#





#17

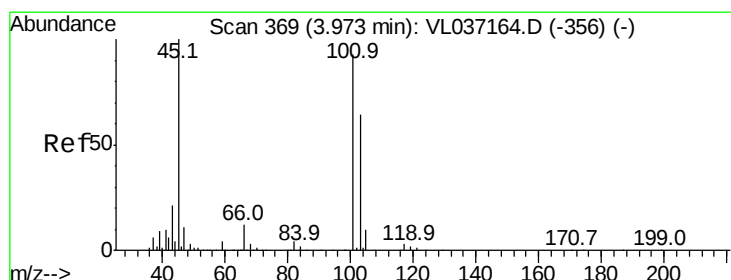
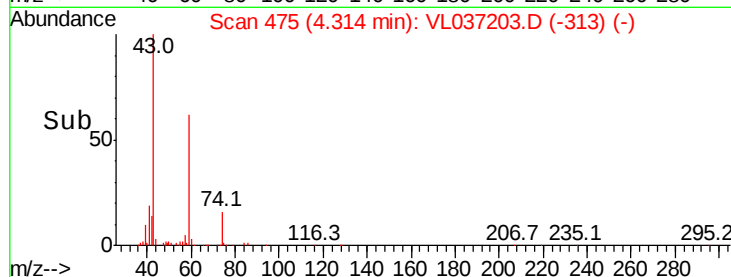
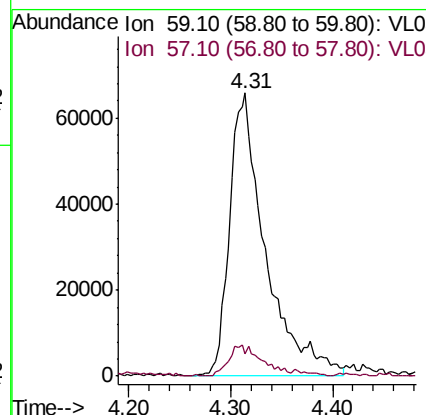
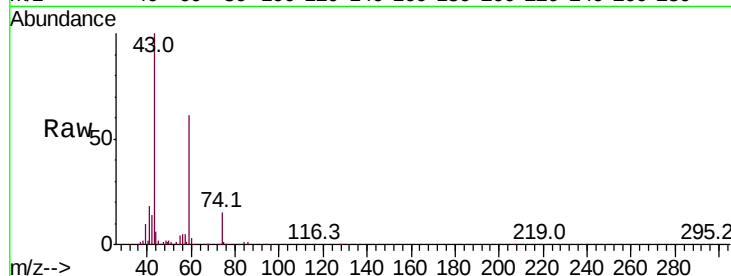
tert-Butyl alcohol
Concen: 1.029 ppbv m
RT: 4.31 min Scan# 475
Delta R.T. 0.02 min
Lab File: VL037203.D
Acq: 17 Jun 2021 16:02

Instrument :
MSVOA_L
ClientSampled :
IA-BEDROOM-2DL

Tot Ion: 59 Resp: 160997
Ion Ratio Lower Upper
59 100
57 11.0 8.8 13.2

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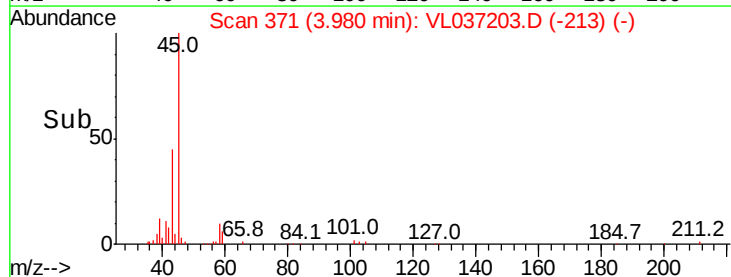
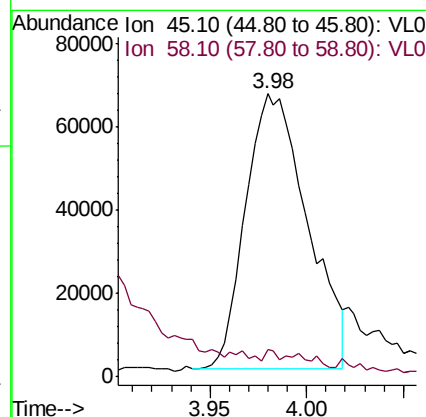
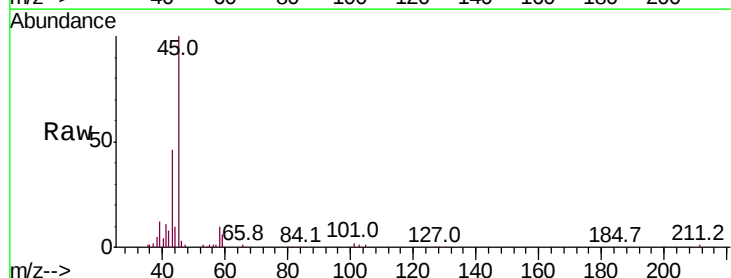
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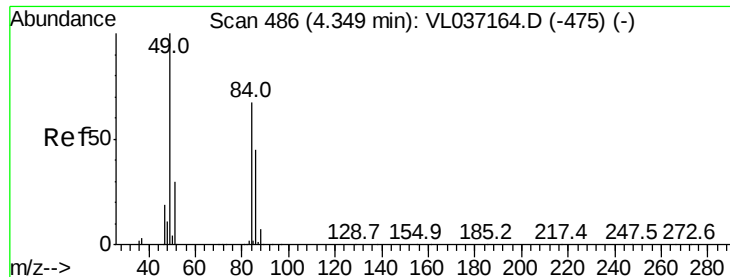


#19

Isopropyl Alcohol
Concen: 1.429 ppbv
RT: 3.98 min Scan# 371
Delta R.T. 0.01 min
Lab File: VL037203.D
Acq: 17 Jun 2021 16:02

Tgt Ion: 45 Resp: 146505
Ion Ratio Lower Upper
45 100
58 10.0 2.4 3.6#





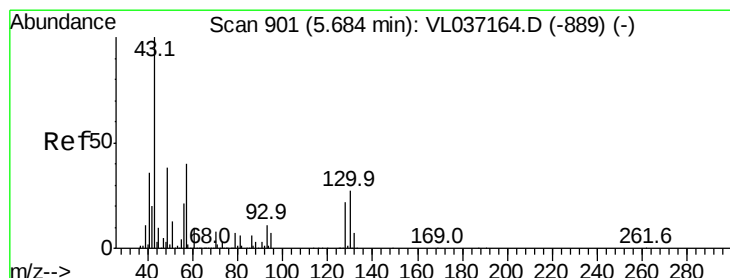
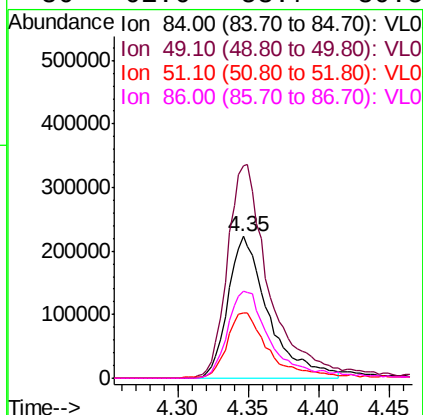
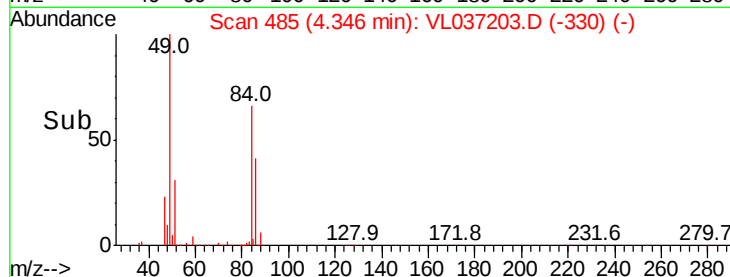
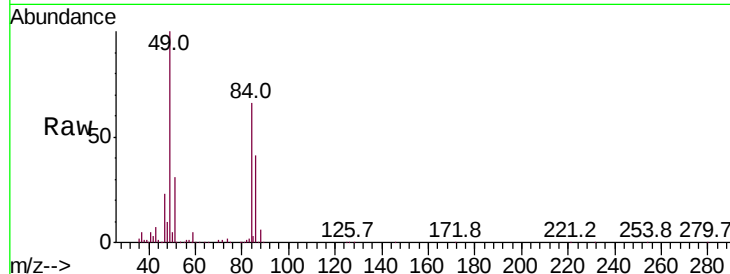
#20
Methvlene Chloride
Concen: 4.432 ppbv
RT: 4.35 min Scan# 485
Delta R.T. -0.00 min
Lab File: VL037203.D
Acq: 17 Jun 2021 16:02

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-2DL

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	150.3	119.7	179.5	
51	45.5	36.1	54.1	
86	61.6	53.7	80.5	

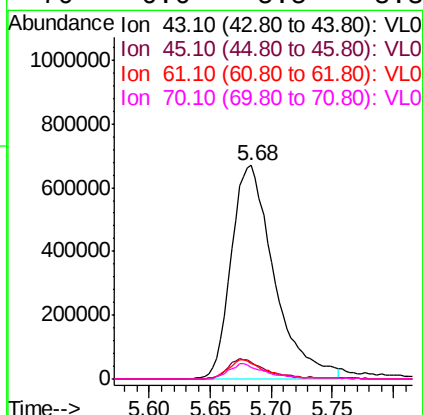
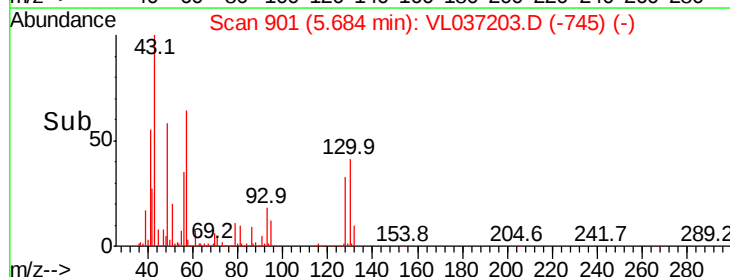
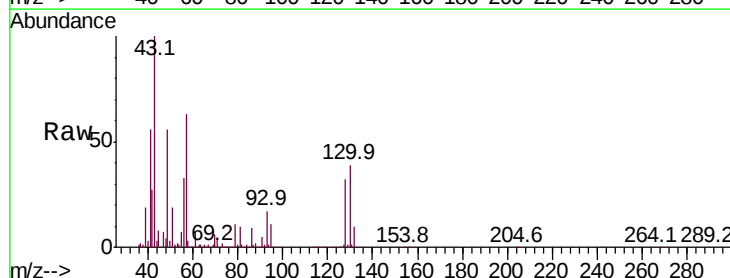
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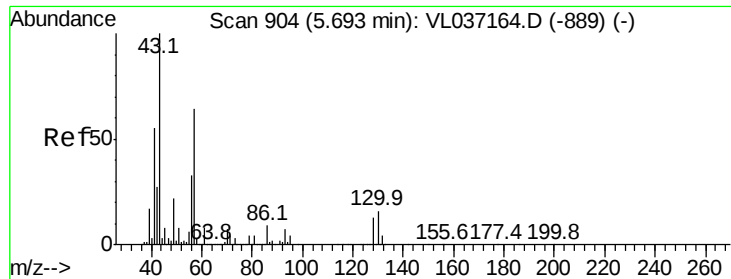
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#25
Ethyl Acetate
Concen: 4.450 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL037203.D
Acq: 17 Jun 2021 16:02

Tgt Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.2	8.0	12.0	
61	8.2	8.1	12.1	
70	6.6	5.5	8.3	





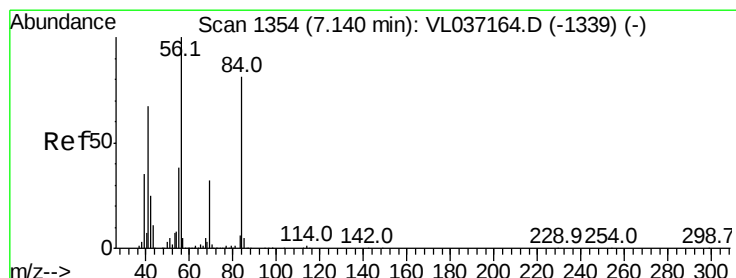
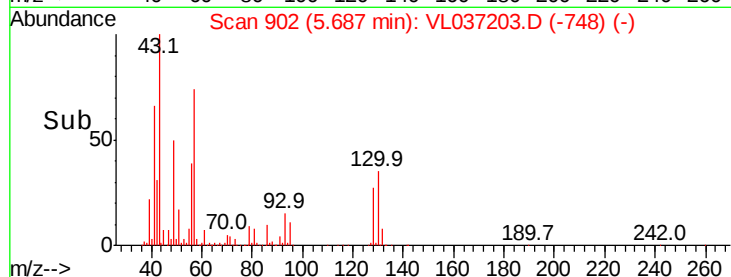
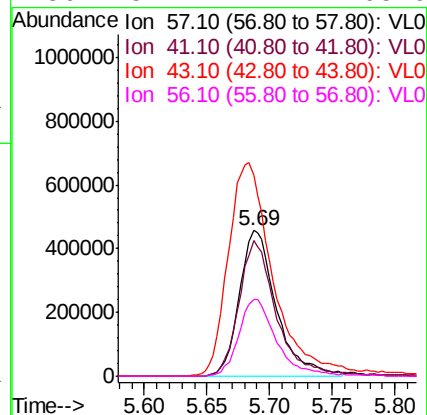
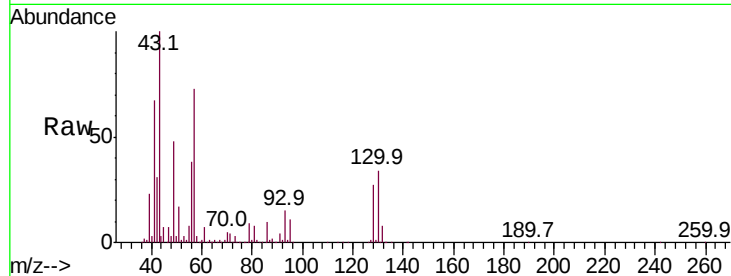
#26
Hexane
Concen: 5.067 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL037203.D
Acq: 17 Jun 2021 16:02

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-2DL

Tot Ion	Ion	Ratio	Lower	Upper
57	100			
41	95.0	73.5	110.3	
43	181.0	170.7	256.1	
56	54.4	42.4	63.6	

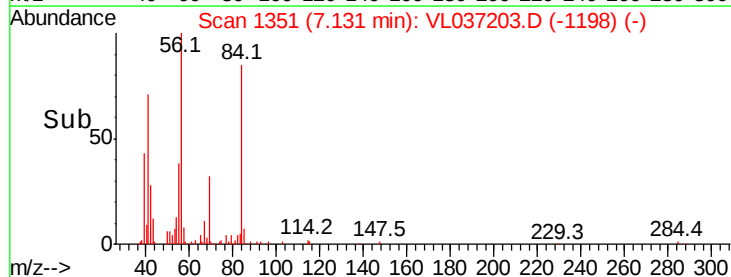
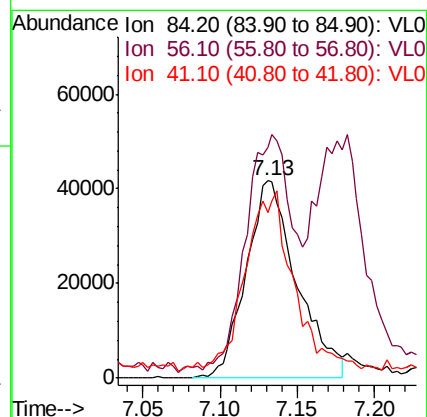
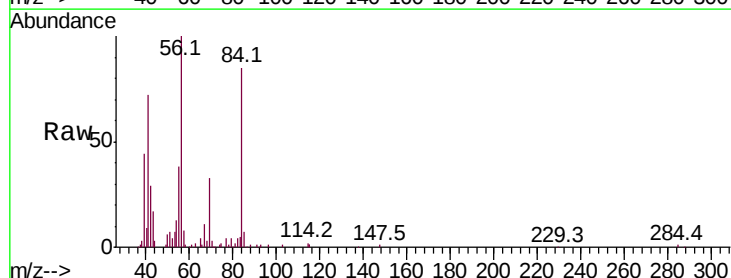
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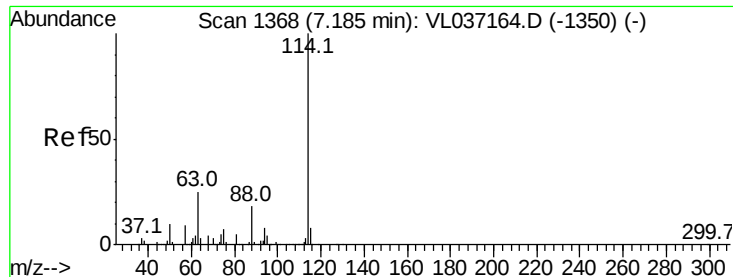
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#30
Cyclohexane
Concen: 0.618 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.01 min
Lab File: VL037203.D
Acq: 17 Jun 2021 16:02

Tgt Ion	Ion	Ratio	Lower	Upper
84	100			
56	107.4	107.7	161.5#	
41	85.8	69.0	103.6	





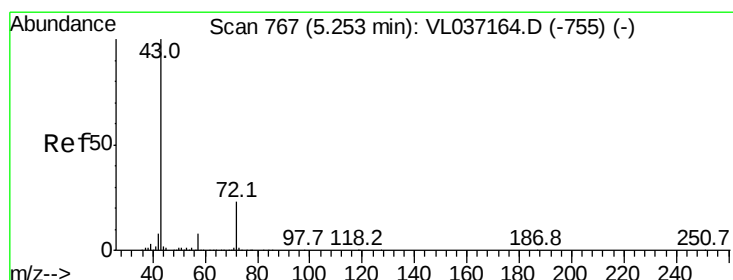
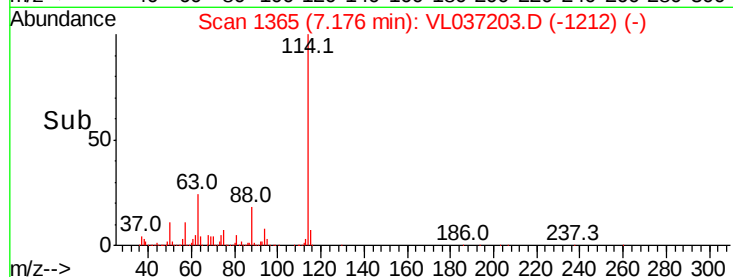
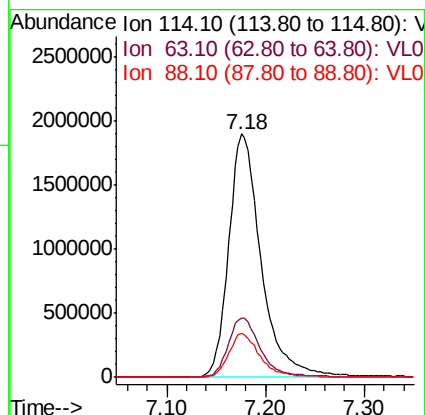
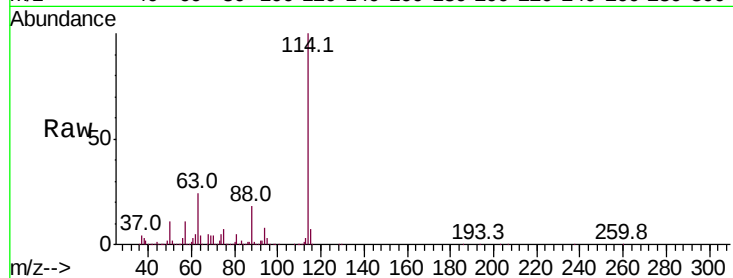
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.01 min
 Lab File: VL037203.D
 Acq: 17 Jun 2021 16:02

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-BEDROOM-2DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.9	19.6	29.4
88	17.6	14.2	21.2

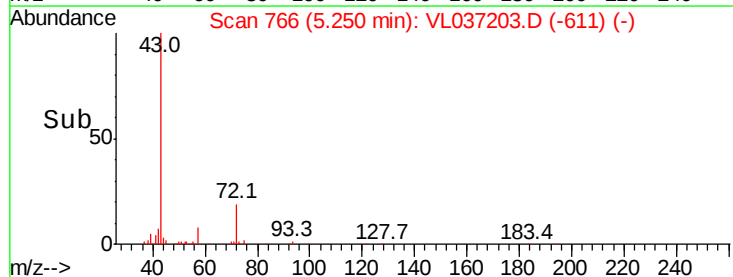
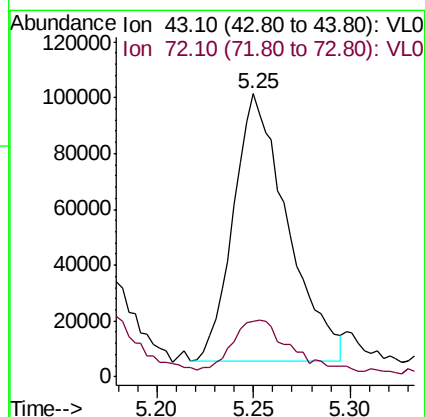
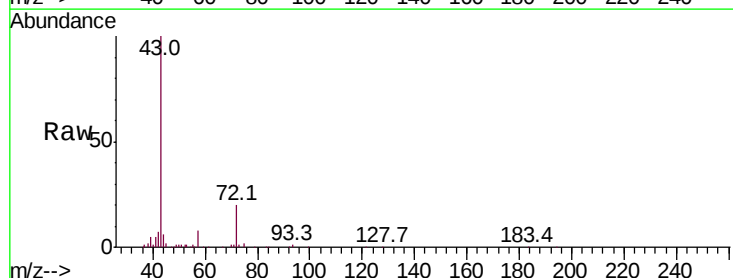
Manual Integrations
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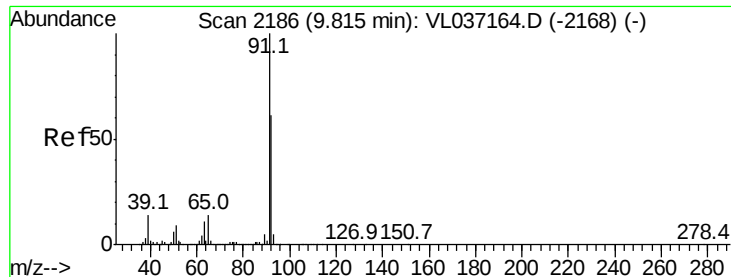
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#34
 2-Butanone
 Concen: 1.096 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. -0.00 min
 Lab File: VL037203.D
 Acq: 17 Jun 2021 16:02

Tgt Ion	Ratio	Lower	Upper
43	100		
72	27.7	18.9	28.3





#53

Toluene

Concen: 0.762 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VL037203.D

Acq: 17 Jun 2021 16:02

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-2DL

Tot Ion: 91 Resp: 320129

Ion Ratio Lower Upper

91 100

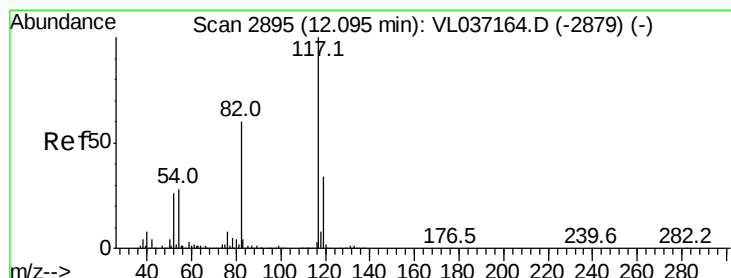
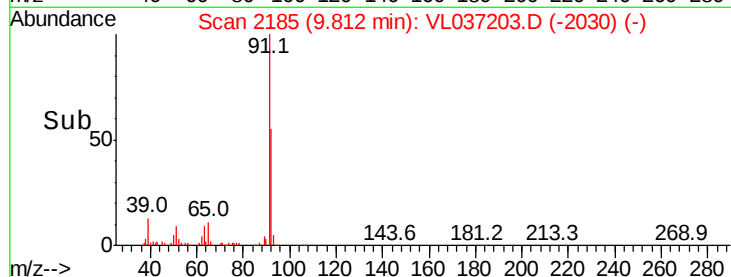
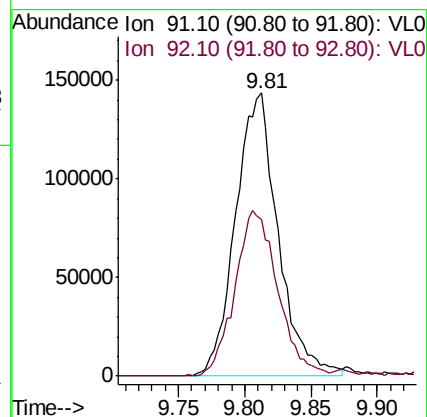
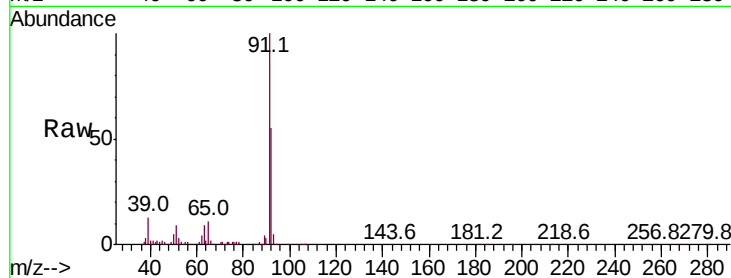
92 60.9 48.3 72.5

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL037203.D

Acq: 17 Jun 2021 16:02

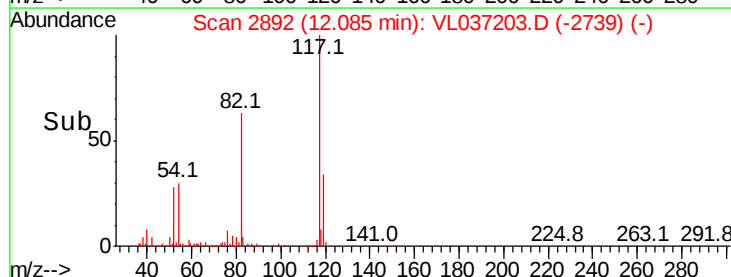
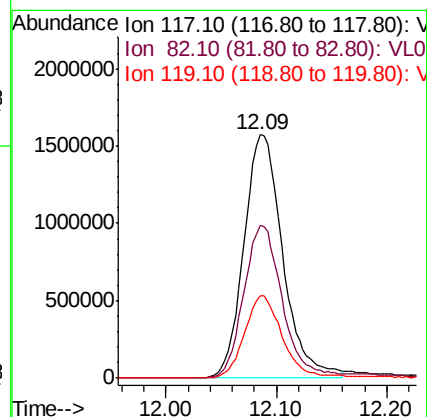
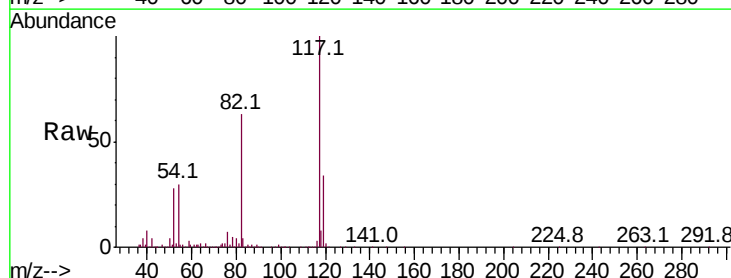
Tgt Ion: 117 Resp: 3854851

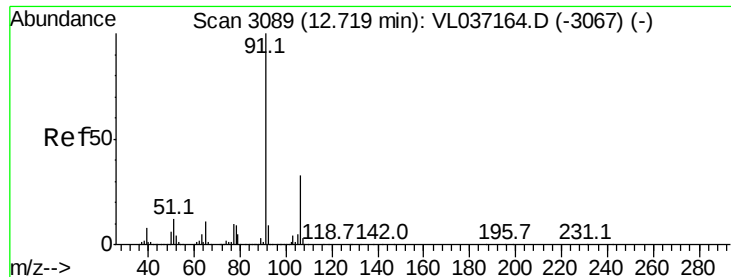
Ion Ratio Lower Upper

117 100

82 65.4 51.7 77.5

119 34.1 47.6 71.4#





#58

Ethyl Benzene

Concen: 0.146 ppbv m

RT: 12.71 min Scan# 3086

Delta R.T. -0.01 min

Lab File: VL037203.D

Acq: 17 Jun 2021 16:02

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-2DL

Tot Ion: 91 Resp: 77611

Ion Ratio Lower Upper

91 100

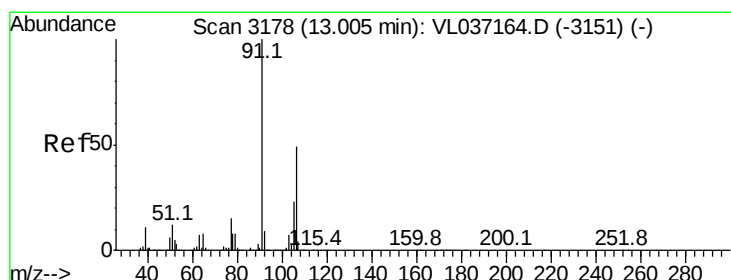
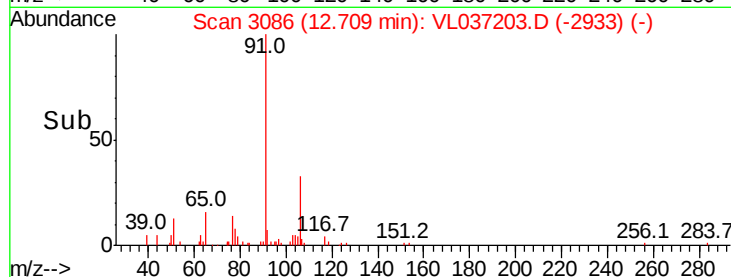
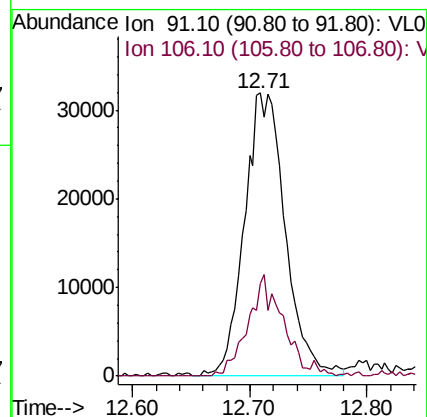
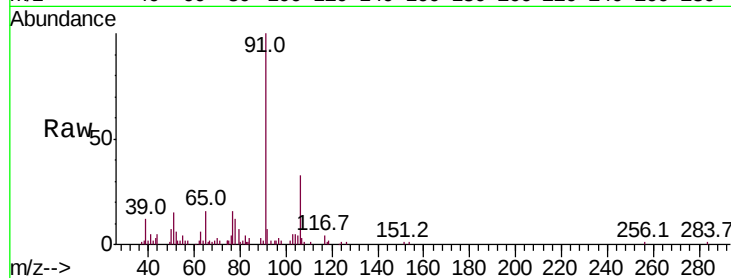
106 32.7 26.3 39.5

Manual Integrations

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#59

m/p-Xylene

Concen: 0.556 ppbv m

RT: 12.97 min Scan# 3166

Delta R.T. -0.04 min

Lab File: VL037203.D

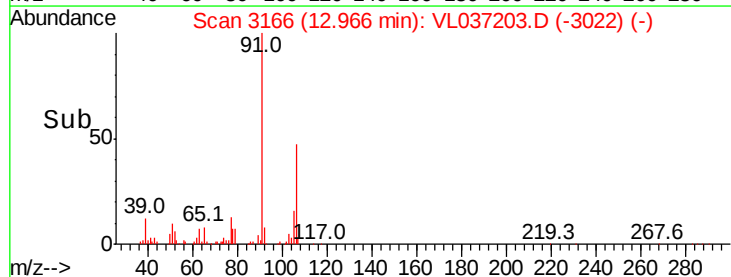
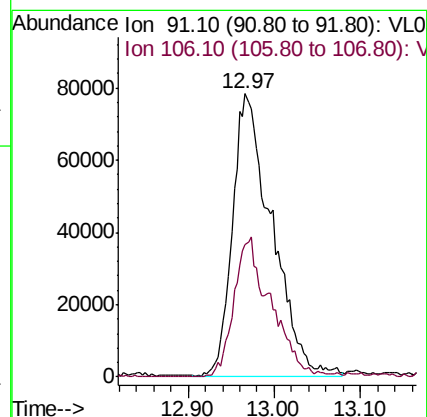
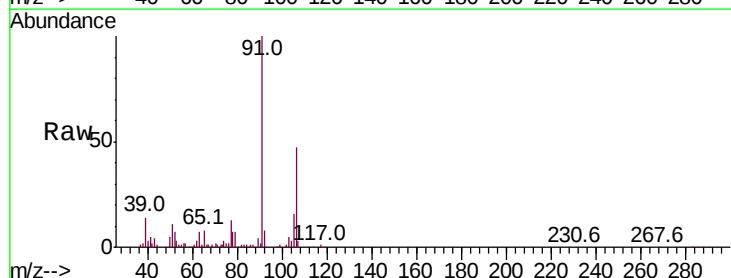
Acq: 17 Jun 2021 16:02

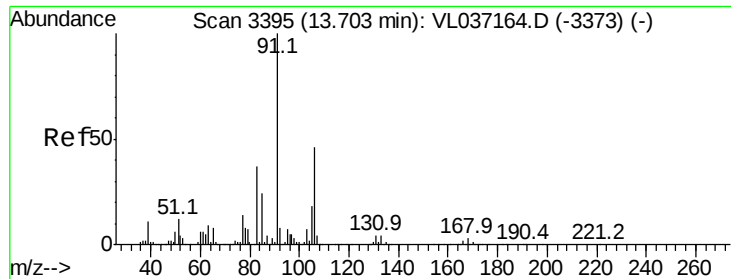
Tgt Ion: 91 Resp: 250201

Ion Ratio Lower Upper

91 100

106 0.0 37.0 55.4#





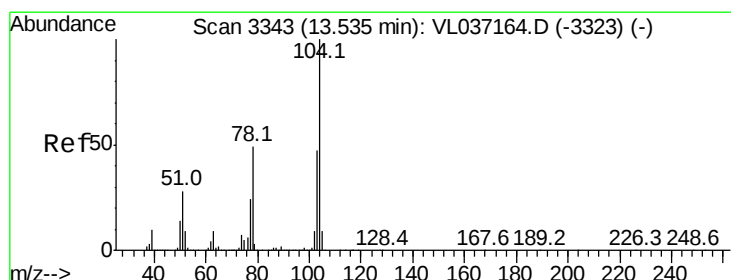
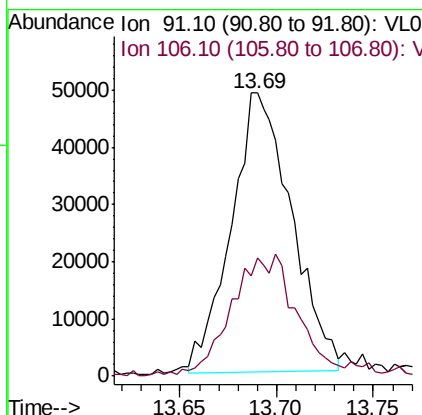
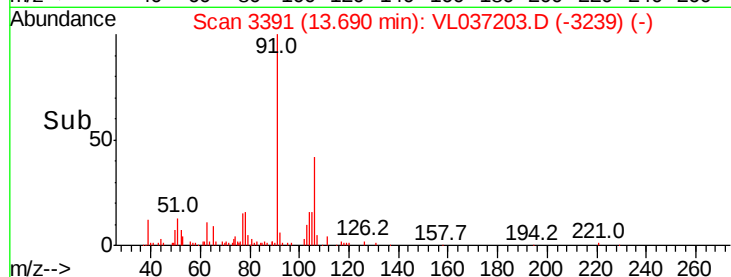
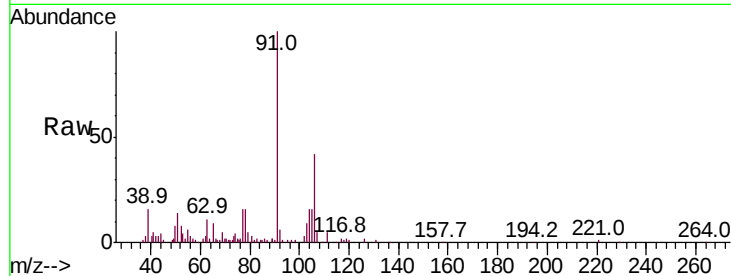
#60
o-Xylene
Concen: 0.248 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL037203.D
Acq: 17 Jun 2021 16:02

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-2DL

Tot Ion: 91 Resp: 106246
Ion Ratio Lower Upper
91 100
106 50.0 23.0 69.0

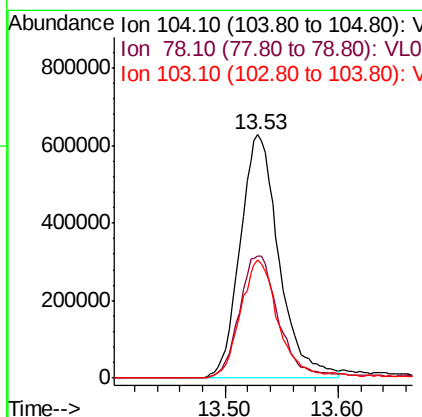
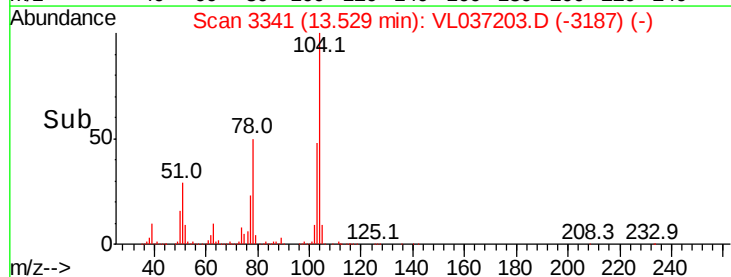
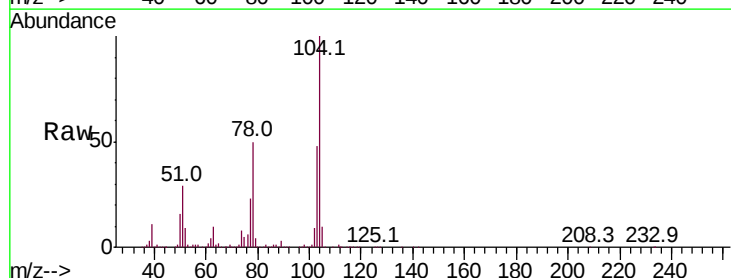
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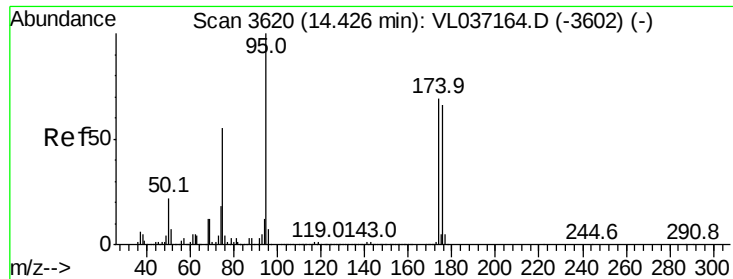
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#61
Styrene
Concen: 6.787 ppbv
RT: 13.53 min Scan# 3341
Delta R.T. -0.01 min
Lab File: VL037203.D
Acq: 17 Jun 2021 16:02

Tgt Ion:104 Resp: 1500002
Ion Ratio Lower Upper
104 100
78 52.2 39.7 59.5
103 48.4 37.6 56.4





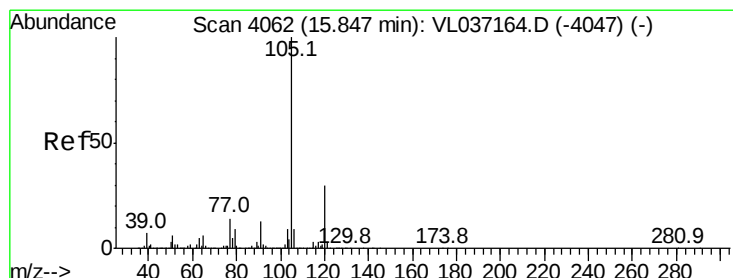
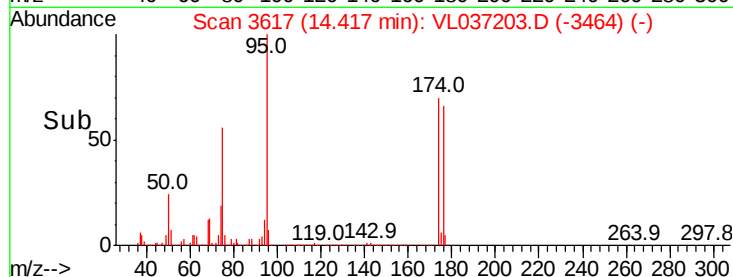
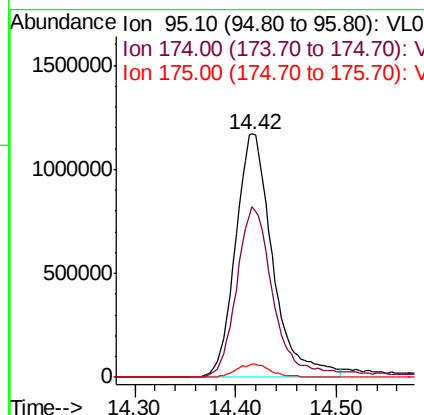
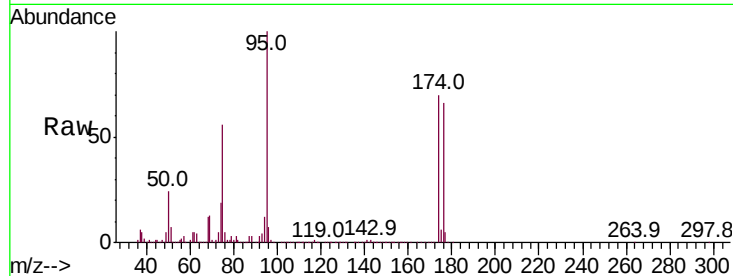
#68
1-Bromo-4-Fluorobenzene
Concen: 10.278 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. -0.01 min
Lab File: VL037203.D
Acq: 17 Jun 2021 16:02

Instrument :
MSVOA_L
ClientSampleId :
IA-BEDROOM-2DL

Tot Ion: 95 Resp: 3002313
Ion Ratio Lower Upper
95 100
174 72.2 57.0 85.4
175 5.3 4.4 6.6

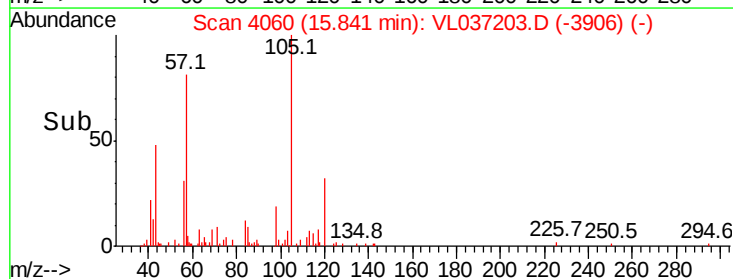
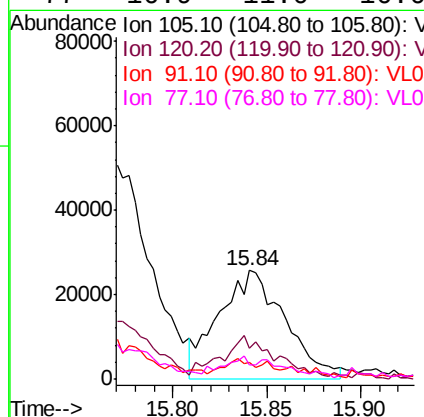
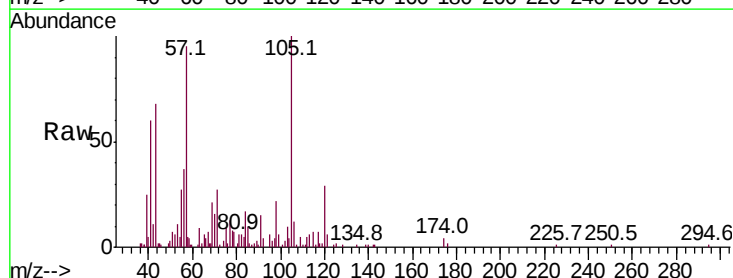
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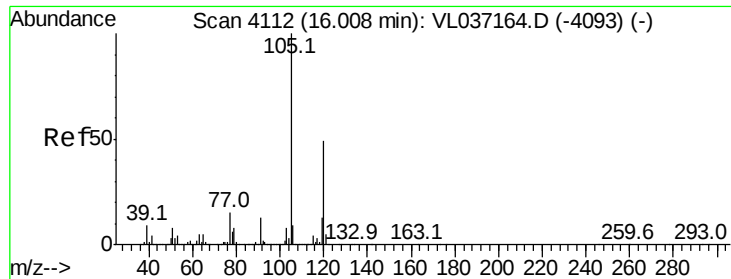
MMDadoda
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#72
4-Ethyltoluene
Concen: 0.129 ppbv m
RT: 15.84 min Scan# 4060
Delta R.T. -0.01 min
Lab File: VL037203.D
Acq: 17 Jun 2021 16:02

Tgt Ion: 105 Resp: 62866
Ion Ratio Lower Upper
105 100
120 33.8 24.7 37.1
91 11.6 10.2 15.4
77 16.9 11.0 16.6#





#73

1,3,5-Trimethylbenzene

Concen: 0.166 ppbv m

RT: 16.00 min Scan# 4109

Delta R.T. -0.01 min

Lab File: VL037203.D

Acq: 17 Jun 2021 16:02

Instrument :

MSVOA_L

ClientSampleId :

IA-BEDROOM-2DL

Tot Ion:105 Resp: 78093

Ion Ratio Lower Upper

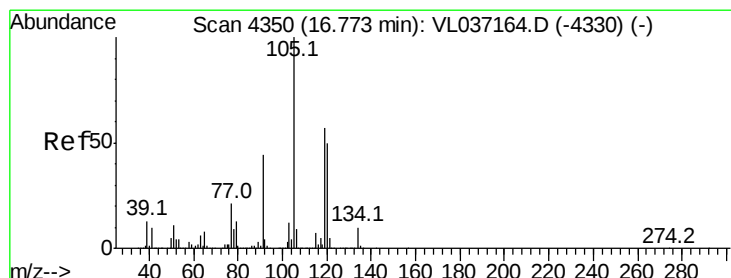
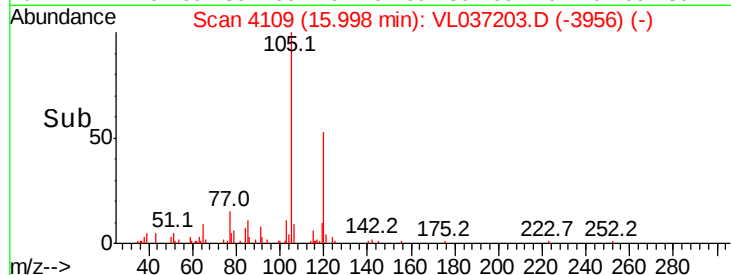
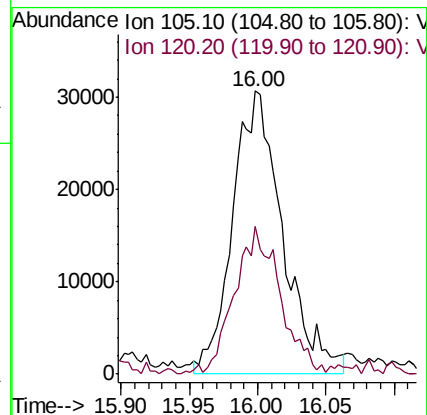
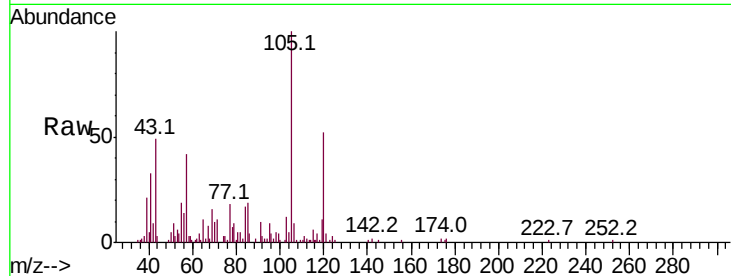
105 100

120 52.4 39.4 59.2

Manual Integrations
APPROVED

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#74

1,2,4-Trimethylbenzene

Concen: 0.433 ppbv

RT: 16.76 min Scan# 4347

Delta R.T. -0.01 min

Lab File: VL037203.D

Acq: 17 Jun 2021 16:02

Tgt Ion:105 Resp: 209603

Ion Ratio Lower Upper

105 100

120 48.1 39.8 59.8

91 10.6 37.0 55.4#

77 12.8 17.0 25.4#

