

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061721\
 Data File : VL037200.D
 Acq On : 17 Jun 2021 14:04
 Operator : SY/AP
 Sample : M2721-01DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-PLAYROOM-1DL

Manual Integrations
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MMDadoda
 6/21/2021 12:53:56 PM

Quant Time: Jun 19 17:12:06 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 14:06:32 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	1354616	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4036694	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3601152	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2755341	10.10	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	26616	0.113	ppbv #	87
4) Chloromethane	3.14	50	13943m	0.159	ppbv	
13) Ethanol	3.61	45	745612	57.230	ppbv	47
15) Acetone	3.85	43	960896m	6.290	ppbv	
17) tert-Butyl alcohol	4.31	59	142777	1.011	ppbv	96
19) Isopropyl Alcohol	3.98	45	177449m	1.918	ppbv	
20) Methylene Chloride	4.35	84	577069	6.310	ppbv	97
25) Ethyl Acetate	5.68	43	1476842	4.466	ppbv	97
26) Hexane	5.69	57	786895	4.708	ppbv	91
30) Cyclohexane	7.13	84	79415	0.570	ppbv #	86
34) 2-Butanone	5.25	43	167586	1.067	ppbv #	88
53) Toluene	9.81	91	190867	0.490	ppbv	99
58) Ethyl Benzene	12.70	91	82854m	0.167	ppbv	
59) m/p-Xylene	12.96	91	258035m	0.614	ppbv	
60) o-Xylene	13.69	91	119397	0.298	ppbv	99
61) Styrene	13.53	104	1389547	6.730	ppbv	96
72) 4-Ethyltoluene	15.84	105	63400	0.140	ppbv #	92
73) 1,3,5-Trimethylbenzene	16.00	105	79010m	0.180	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	227119m	0.502	ppbv	

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

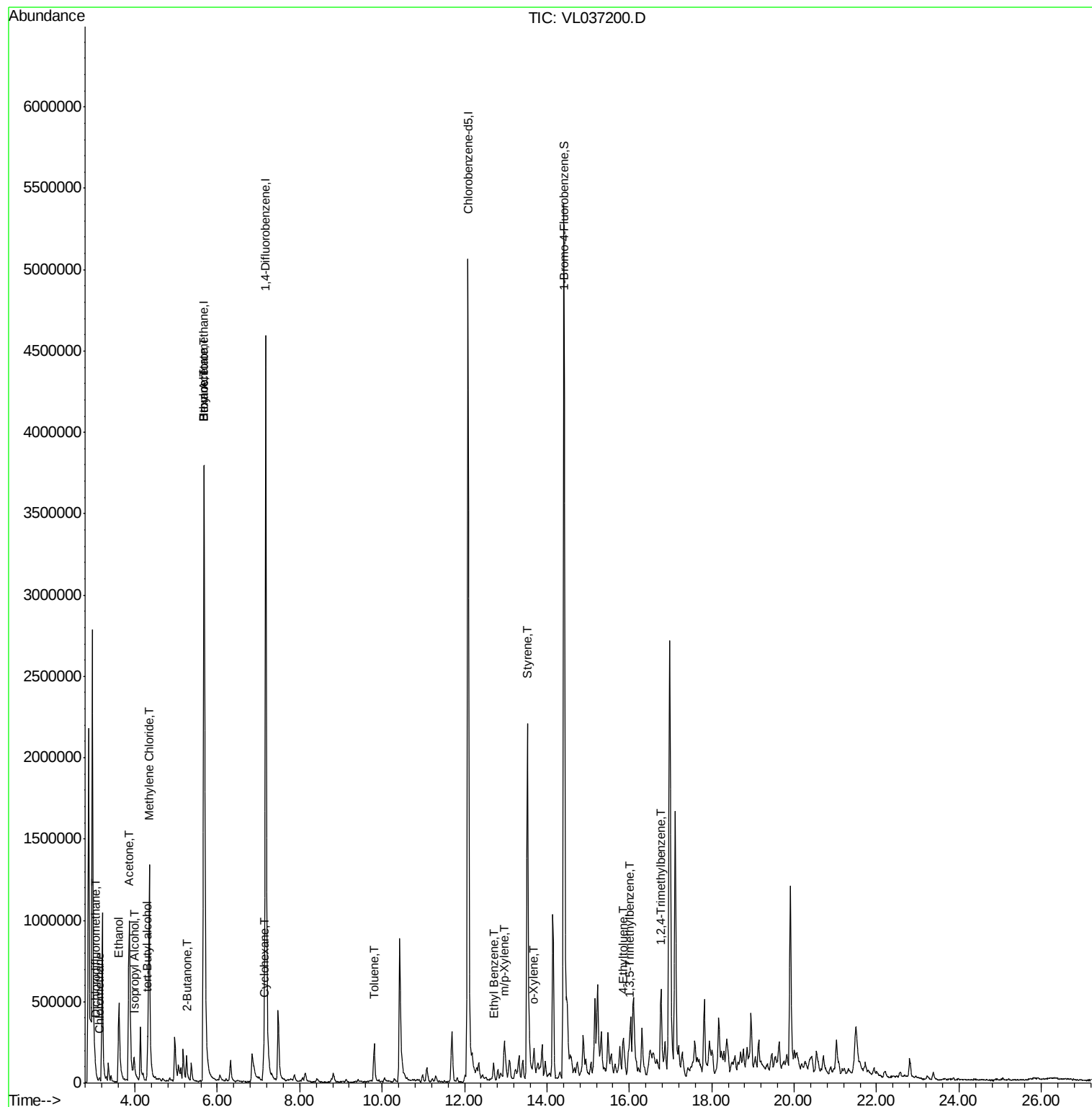
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL061721\
Data File : VL037200.D
Acq On : 17 Jun 2021 14:04
Operator : SY/AP
Sample : M2721-01DL 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

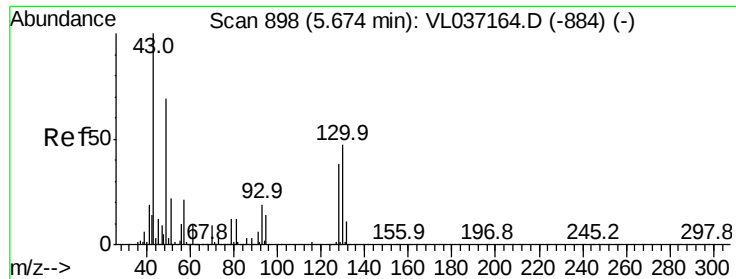
Instrument :
MSVOA_L
ClientSampleId :
IA-PLAYROOM-1DL

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Quant Time: Jun 19 17:12:06 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: VL037200.D

Acq: 17 Jun 2021 14:04

Instrument :

MSVOA_L

ClientSampleId :

IA-PLAYROOM-1DL

Tot Ion: 49 Resp: 1354616

Ion Ratio Lower Upper

49 100

128 57.4 29.3 88.0

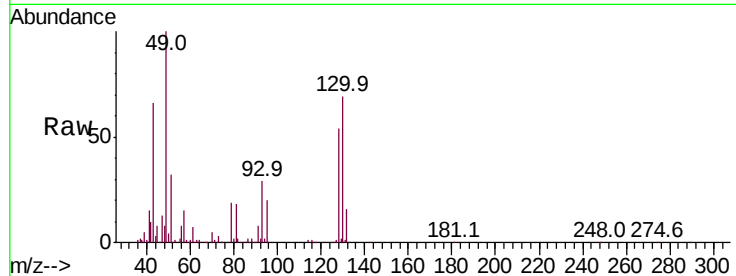
130 73.1 35.9 107.8

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.67

600000

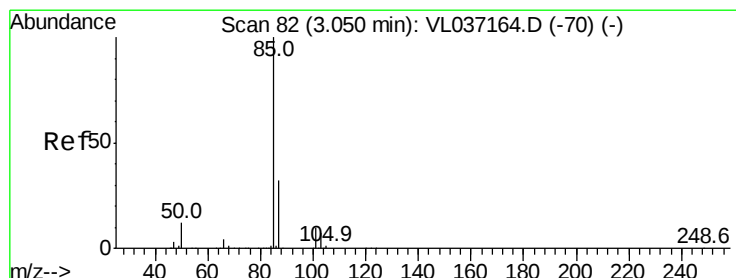
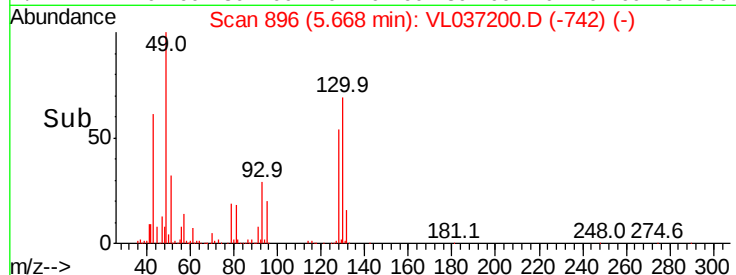
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 0.113 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL037200.D

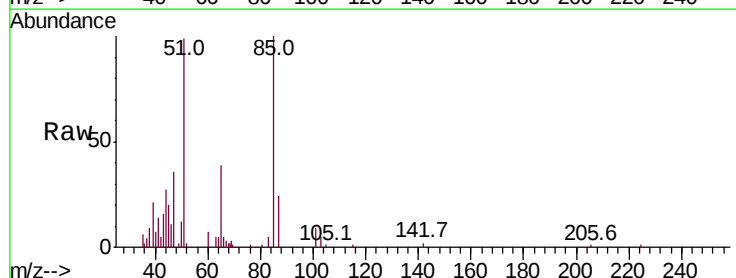
Acq: 17 Jun 2021 14:04

Tgt Ion: 85 Resp: 26616

Ion Ratio Lower Upper

85 100

87 24.7 25.8 38.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

20000

15000

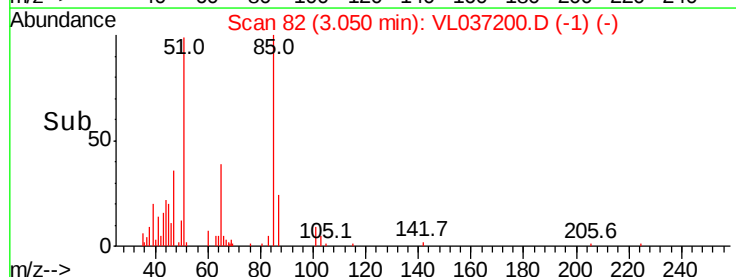
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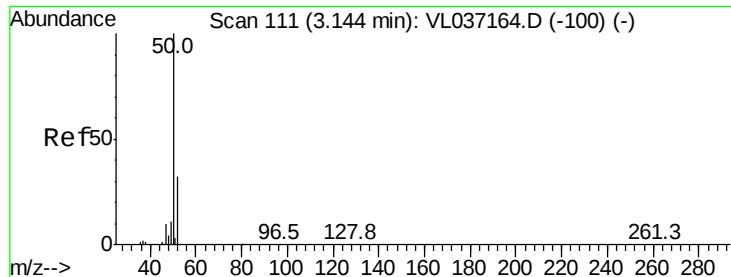
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0

3.00 3.02 3.04 3.06 3.08

Time-->





#4

Chloromethane

Concen: 0.159 ppbv m

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL037200.D

Acq: 17 Jun 2021 14:04

Instrument :

MSVOA_L

ClientSampleId :

IA-PLAYROOM-1DL

Tot Ion: 50 Resp: 13943

Ion Ratio Lower Upper

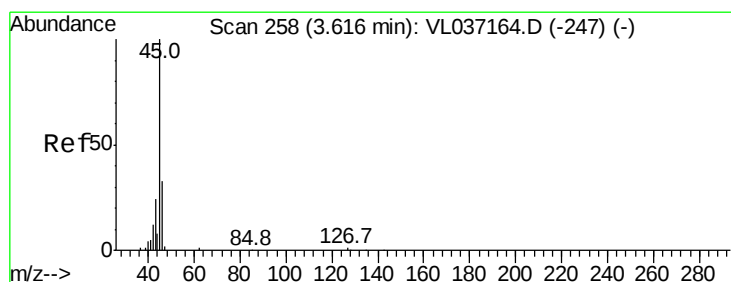
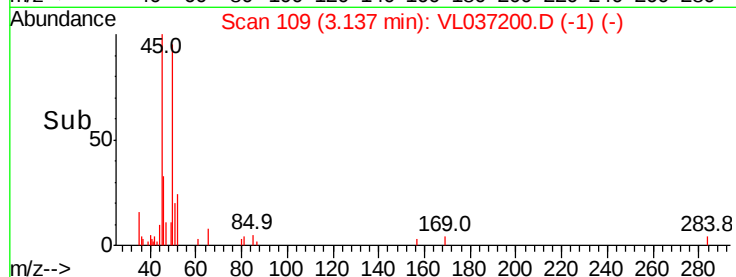
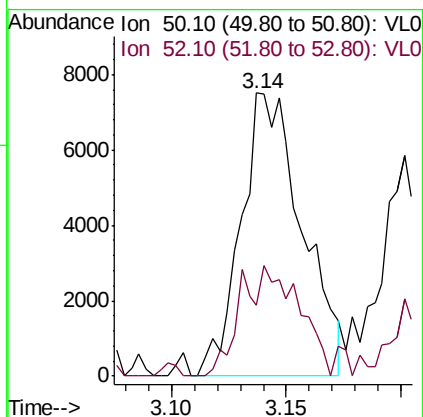
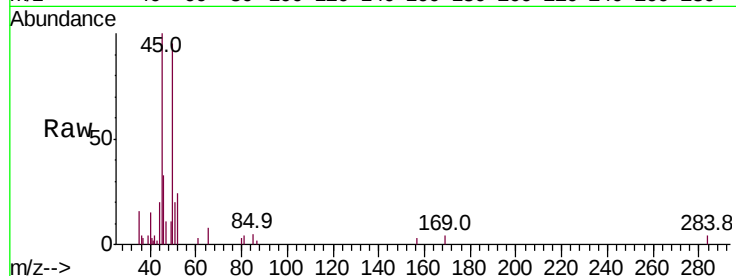
50 100

52 25.1 25.8 38.8#

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#13

Ethanol

Concen: 57.230 ppbv

RT: 3.61 min Scan# 256

Delta R.T. -0.01 min

Lab File: VL037200.D

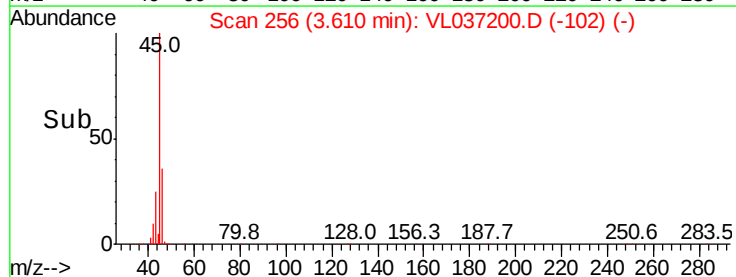
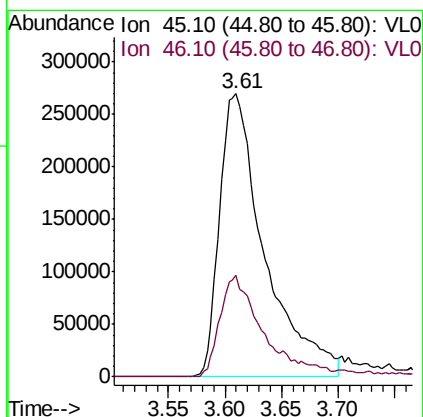
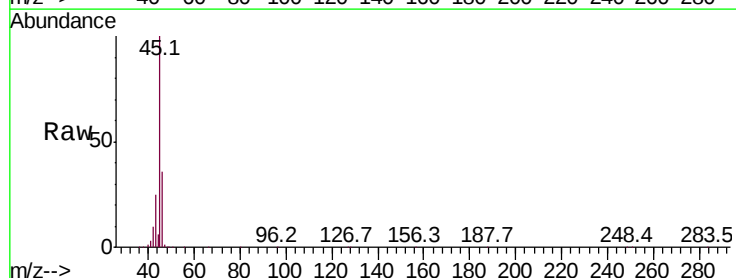
Acq: 17 Jun 2021 14:04

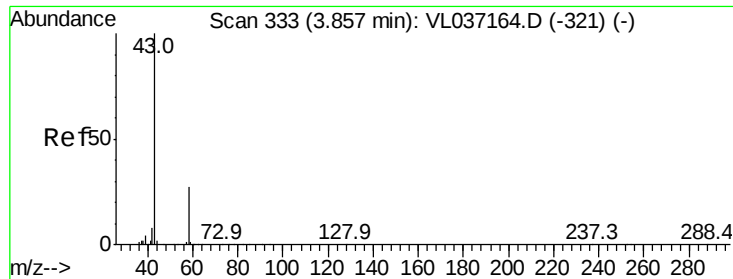
Tgt Ion: 45 Resp: 745612

Ion Ratio Lower Upper

45 100

46 37.2 34.2 137.0





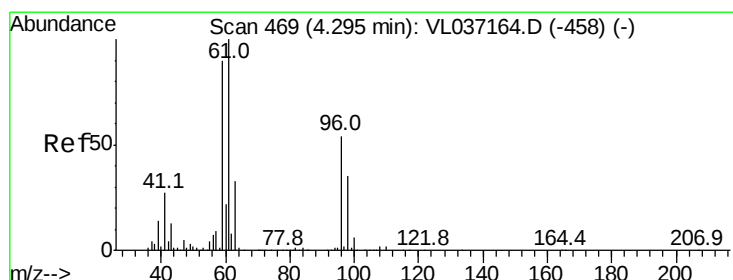
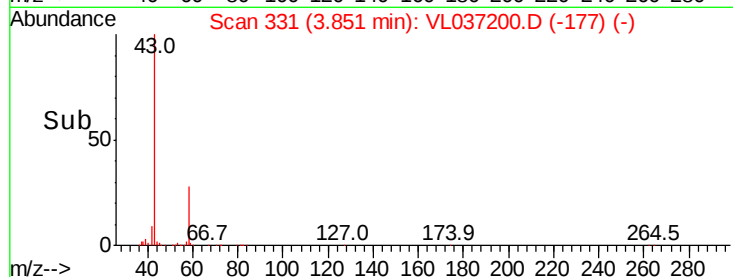
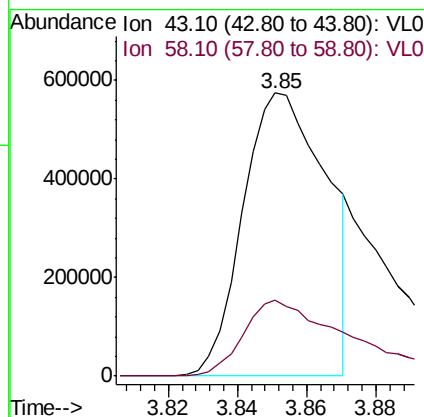
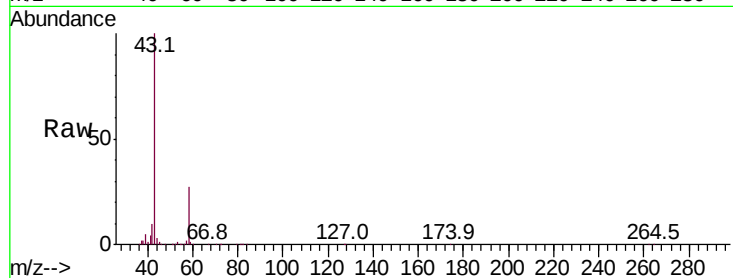
#15
Acetone
Concen: 6.290 ppbv m
RT: 3.85 min Scan# 331
Delta R.T. -0.01 min
Lab File: VL037200.D
Acq: 17 Jun 2021 14:04

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAYROOM-1DL

Tot Ion: 43 Resp: 960896
Ion Ratio Lower Upper
43 100
58 40.7 23.7 35.5#

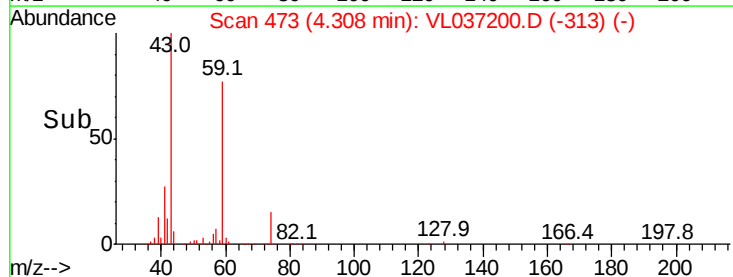
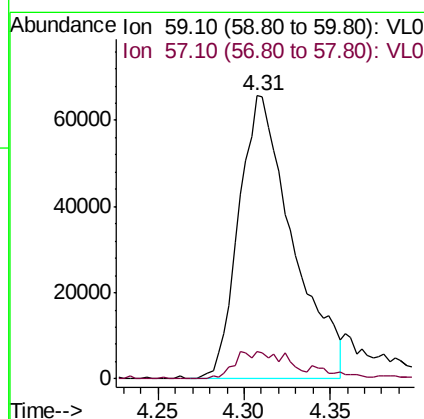
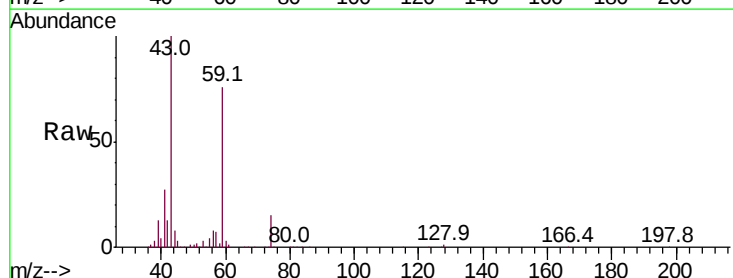
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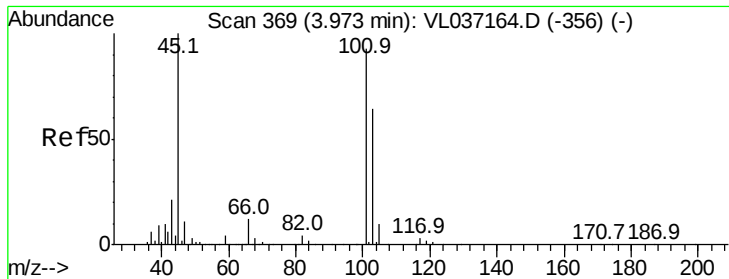
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#17
tert-Butyl alcohol
Concen: 1.011 ppbv
RT: 4.31 min Scan# 473
Delta R.T. 0.01 min
Lab File: VL037200.D
Acq: 17 Jun 2021 14:04

Tgt Ion: 59 Resp: 142777
Ion Ratio Lower Upper
59 100
57 12.6 8.8 13.2





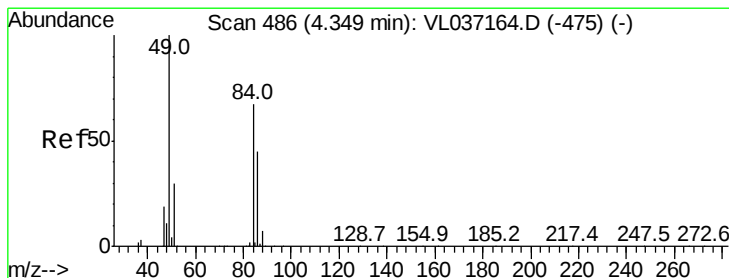
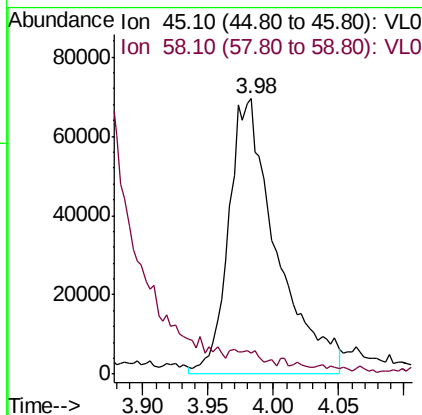
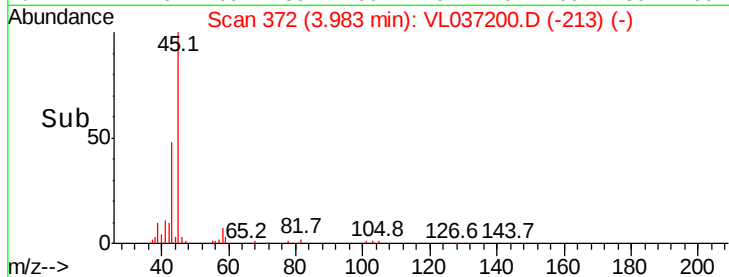
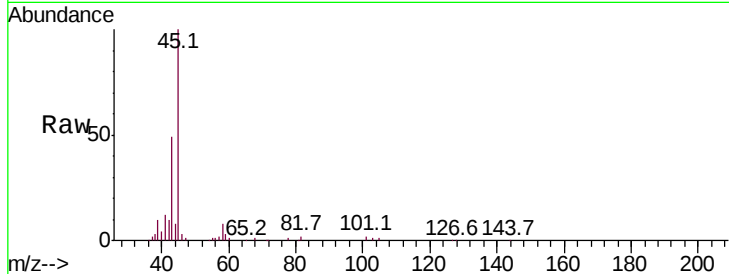
#19
Isopropyl Alcohol
Concen: 1.918 ppbv
RT: 3.98 min Scan# 372
Delta R.T. 0.01 min
Lab File: VL037200.D
Acq: 17 Jun 2021 14:04

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAYROOM-1DL

Tot Ion: 45 Resp: 177449
Ion Ratio Lower Upper
45 100
58 0.0 2.4 3.6#

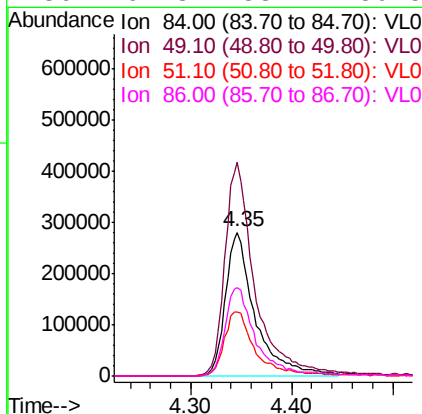
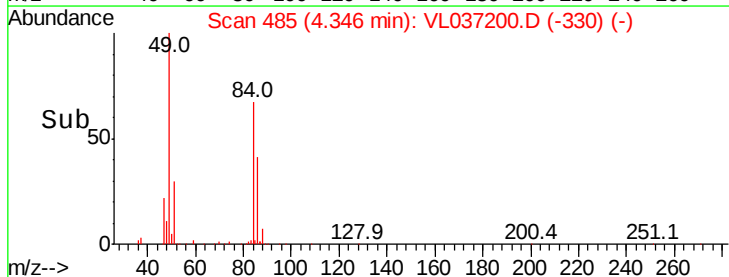
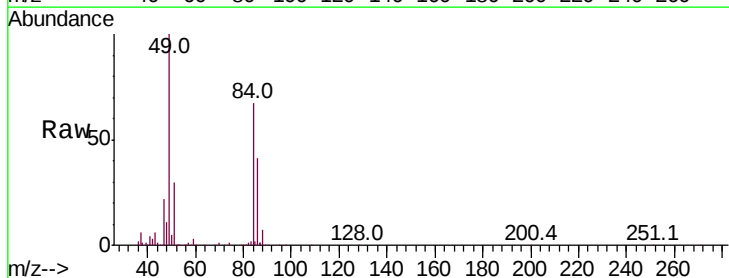
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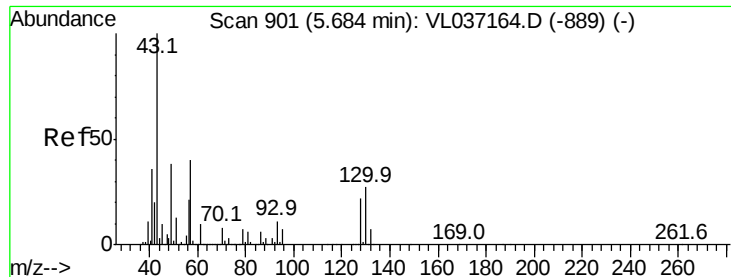
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#20
Methylene Chloride
Concen: 6.310 ppbv
RT: 4.35 min Scan# 485
Delta R.T. -0.00 min
Lab File: VL037200.D
Acq: 17 Jun 2021 14:04

Tgt Ion: 84 Resp: 577069
Ion Ratio Lower Upper
84 100
49 148.5 119.7 179.5
51 44.1 36.1 54.1
86 61.3 53.7 80.5





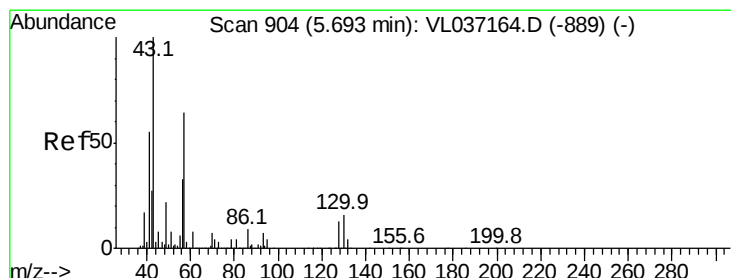
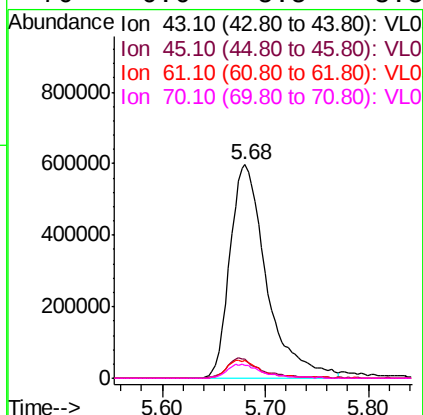
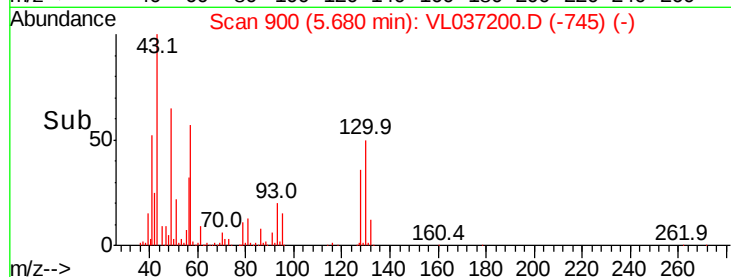
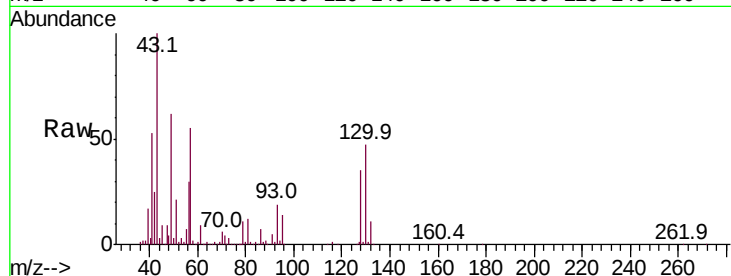
#25
Ethyl Acetate
Concen: 4.466 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL037200.D
Acq: 17 Jun 2021 14:04

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAYROOM-1DL

Tot Ion	43	Ratio	Lower	Upper
43	100			
45	8.9	8.0	12.0	
61	8.5	8.1	12.1	
70	6.6	5.5	8.3	

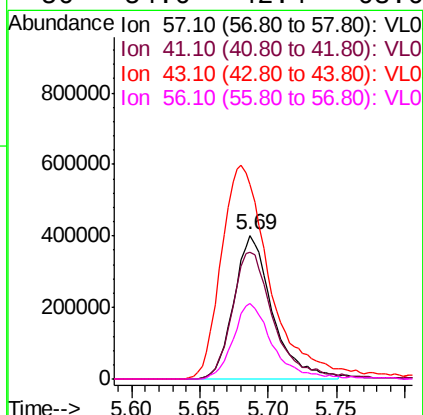
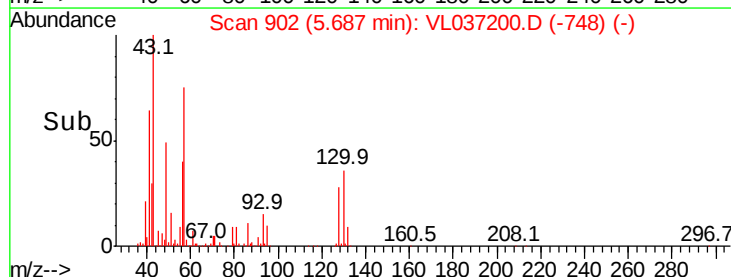
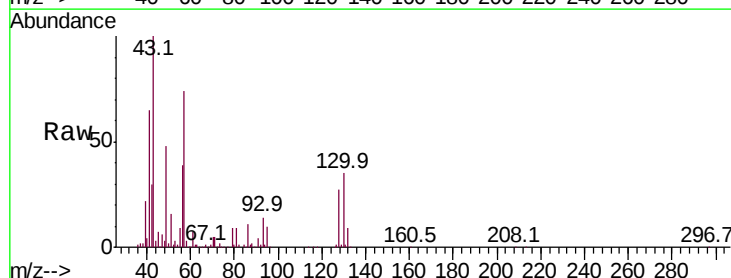
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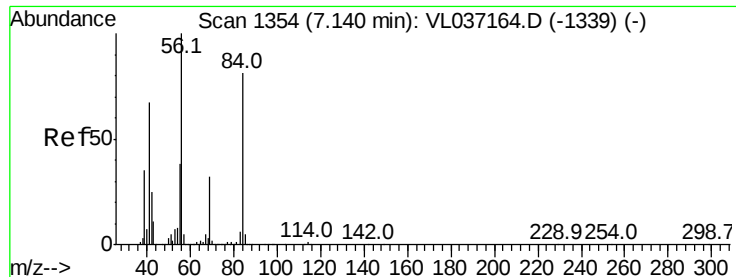
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#26
Hexane
Concen: 4.708 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL037200.D
Acq: 17 Jun 2021 14:04

Tgt Ion	57	Ratio	Lower	Upper
57	100			
41	97.0	73.5	110.3	
43	194.1	170.7	256.1	
56	54.6	42.4	63.6	





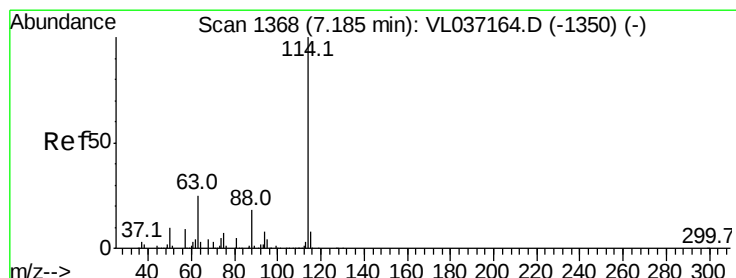
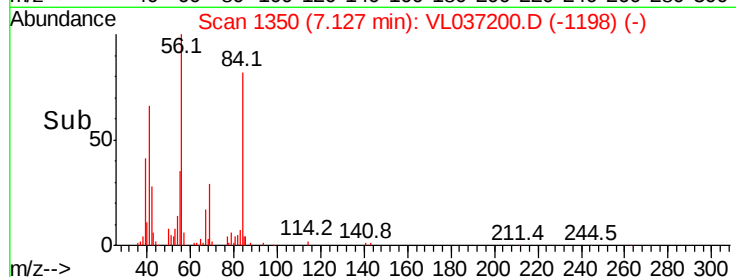
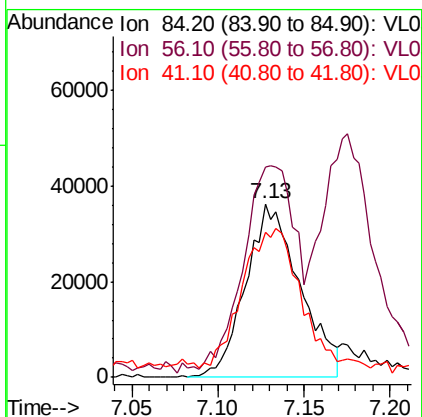
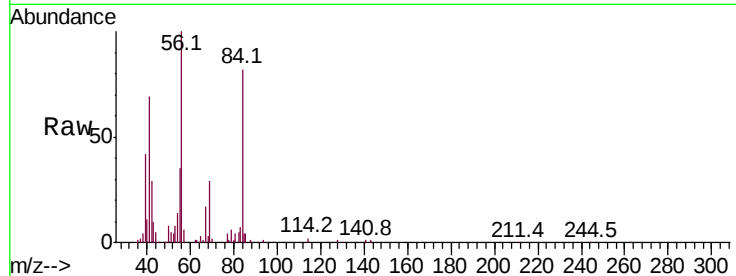
#30
Cvclohexane
Concen: 0.570 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. -0.01 min
Lab File: VL037200.D
Acq: 17 Jun 2021 14:04

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAYROOM-1DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	124.0	107.7	161.5
41	107.6	69.0	103.6#

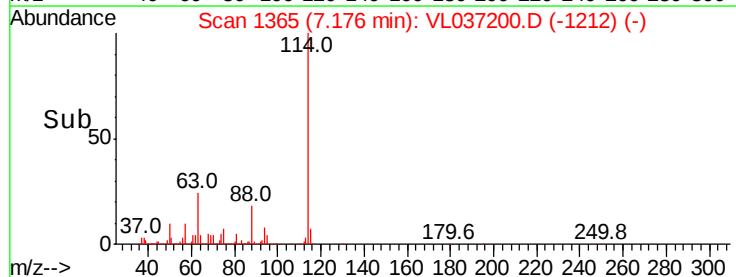
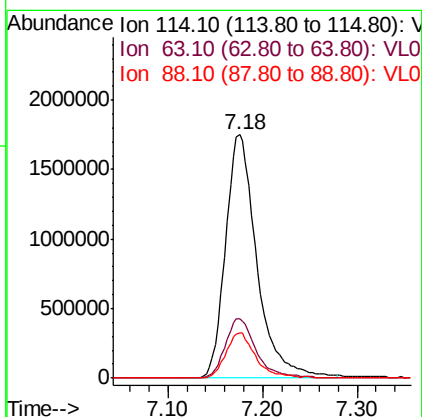
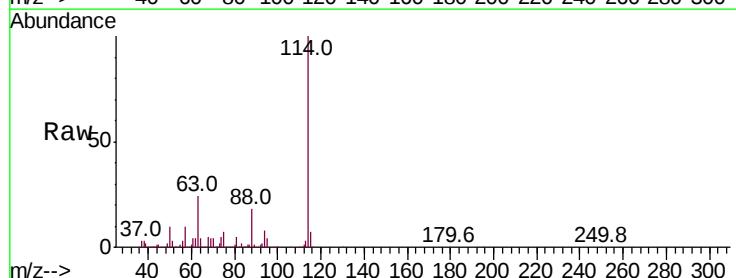
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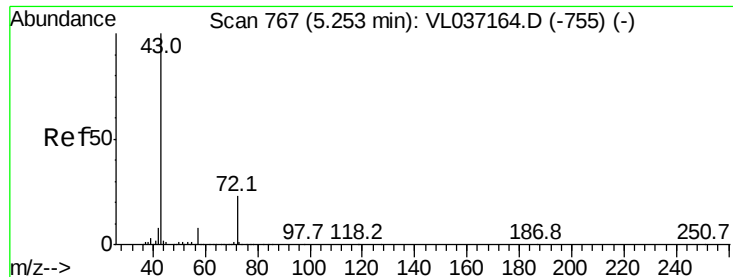
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.01 min
Lab File: VL037200.D
Acq: 17 Jun 2021 14:04

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.6	29.4
88	17.9	14.2	21.2





#34

2-Butanone

Concen: 1.067 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.00 min

Lab File: VL037200.D

Acq: 17 Jun 2021 14:04

Instrument :

MSVOA_L

ClientSampleId :

IA-PLAYROOM-1DL

Tot Ion: 43 Resp: 167586

Ion Ratio Lower Upper

43 100

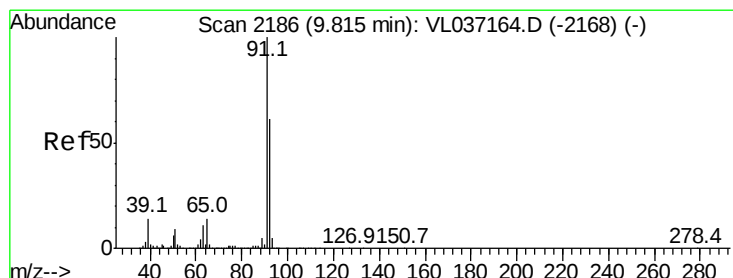
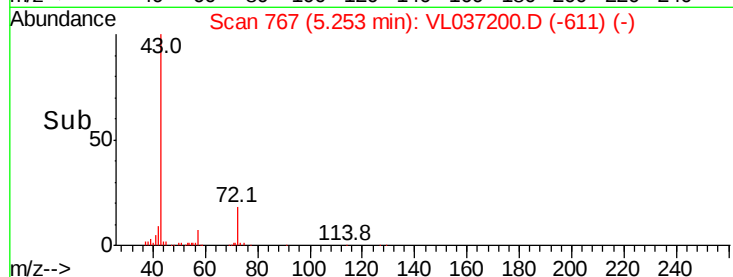
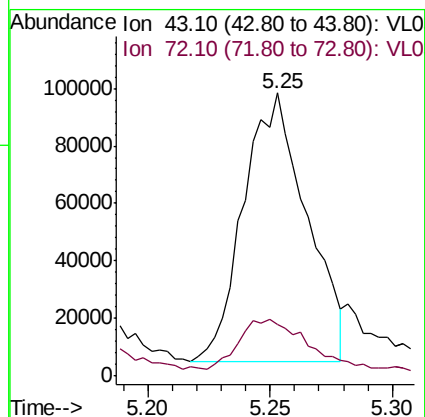
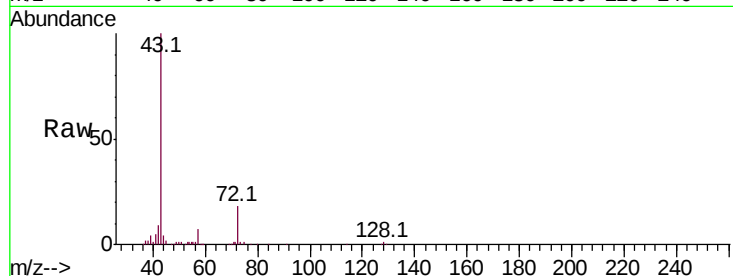
72 29.4 18.9 28.3#

Manual Integrations

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#53

Toluene

Concen: 0.490 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL037200.D

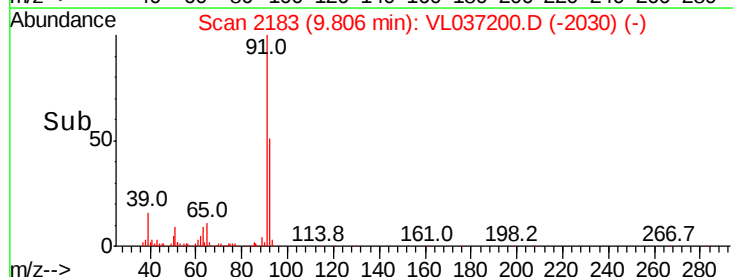
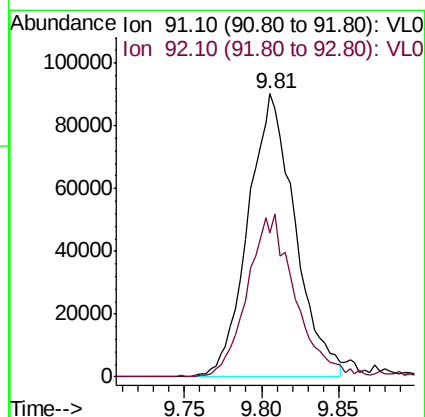
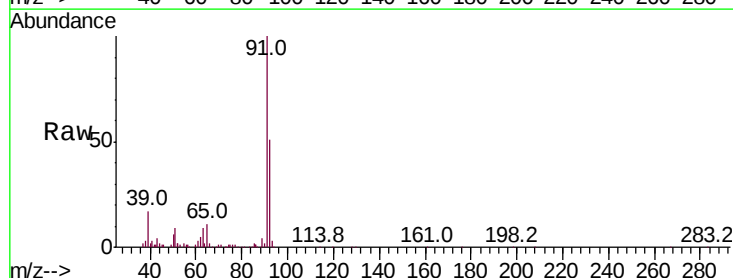
Acq: 17 Jun 2021 14:04

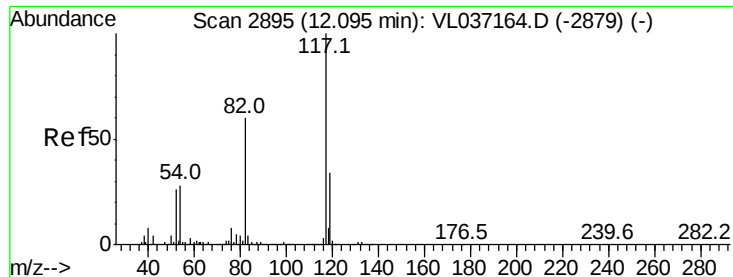
Tgt Ion: 91 Resp: 190867

Ion Ratio Lower Upper

91 100

92 59.8 48.3 72.5





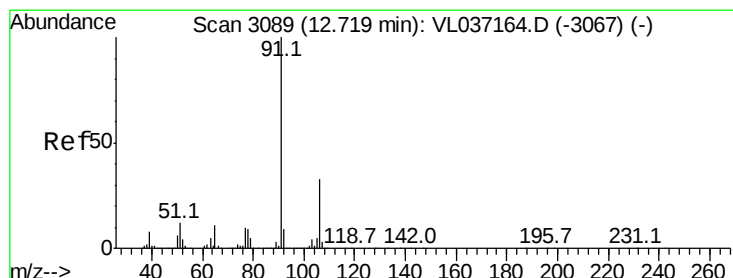
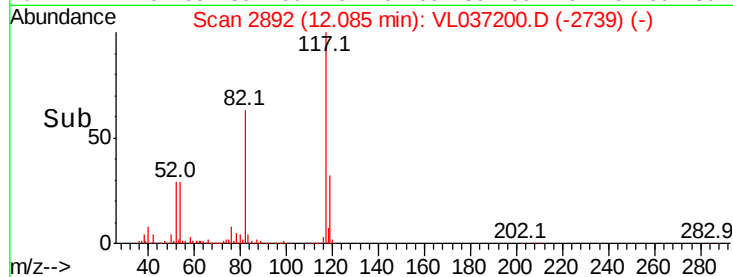
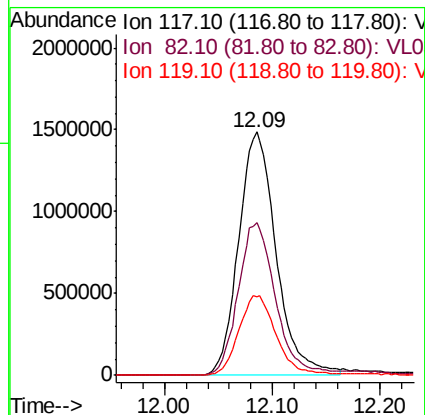
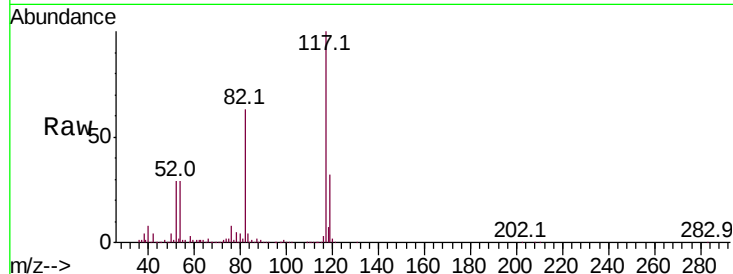
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL037200.D
Acq: 17 Jun 2021 14:04

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAYROOM-1DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	64.9	51.7	77.5
119	33.8	47.6	71.4

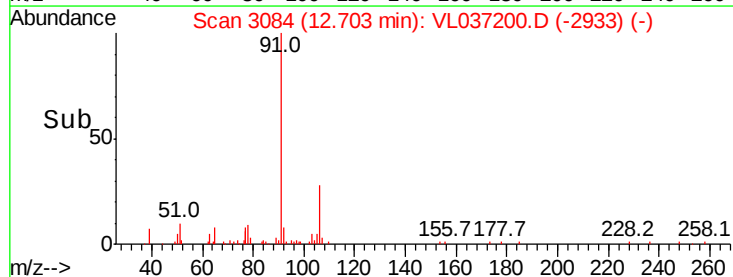
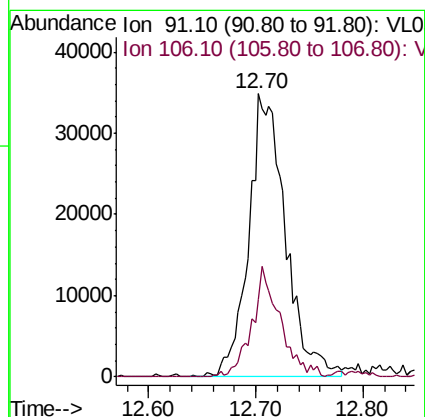
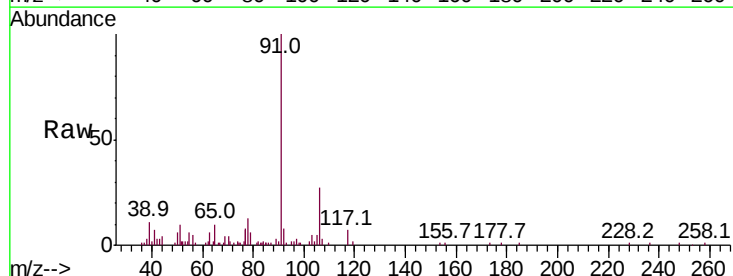
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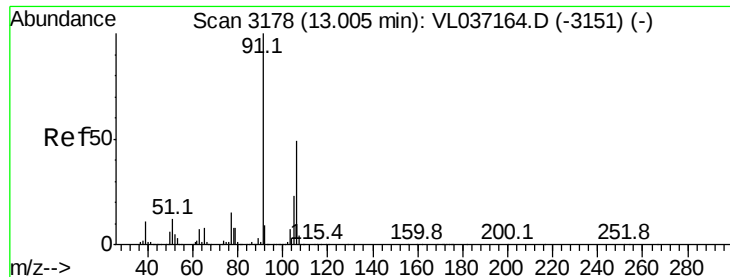
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#58
Ethyl Benzene
Concen: 0.167 ppbv m
RT: 12.70 min Scan# 3084
Delta R.T. -0.02 min
Lab File: VL037200.D
Acq: 17 Jun 2021 14:04

Tgt Ion	Ratio	Lower	Upper
91	100		
106	27.3	26.3	39.5





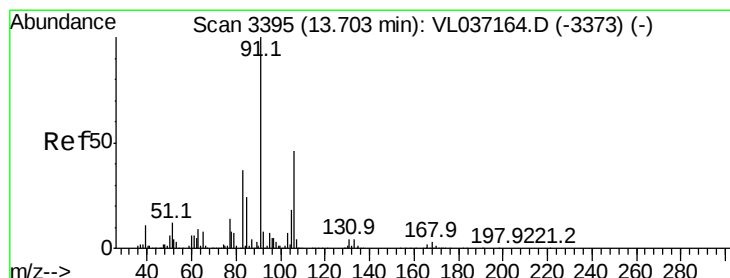
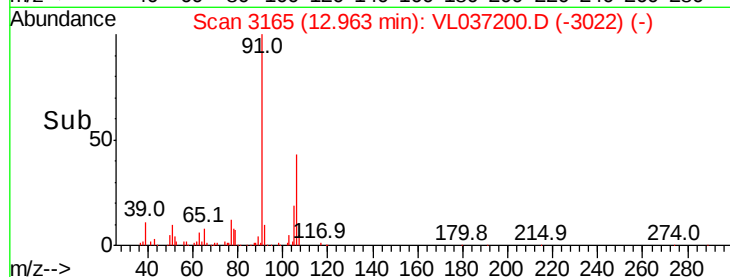
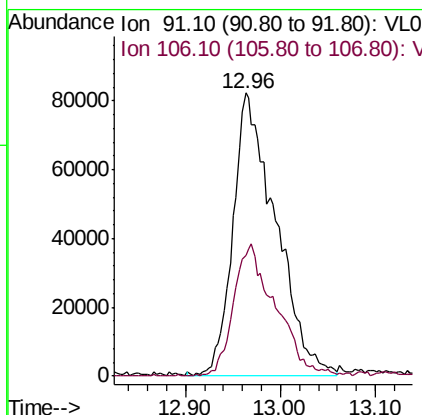
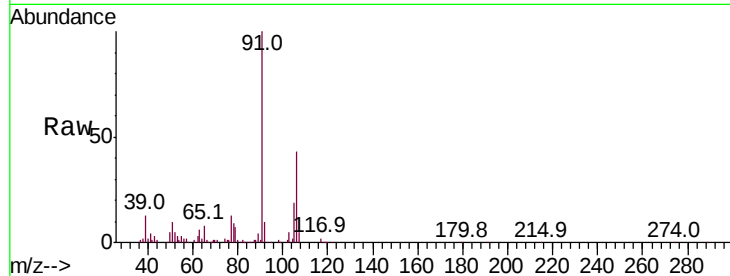
#59
m/p-Xylene
Concen: 0.614 ppbv m
RT: 12.96 min Scan# 3165
Delta R.T. -0.04 min
Lab File: VL037200.D
Acq: 17 Jun 2021 14:04

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAYROOM-1DL

Tot Ion: 91 Resp: 258035
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.4#

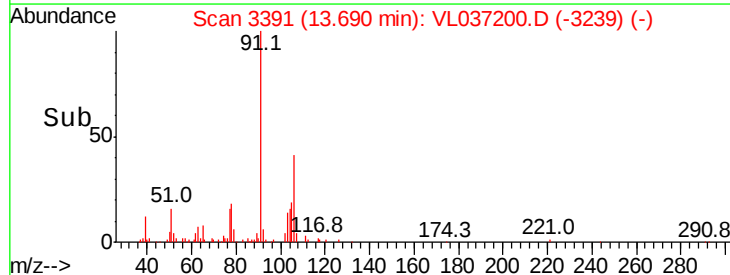
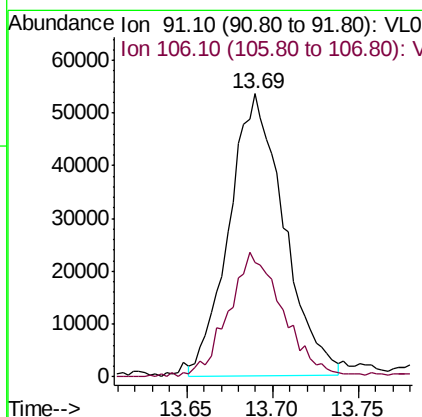
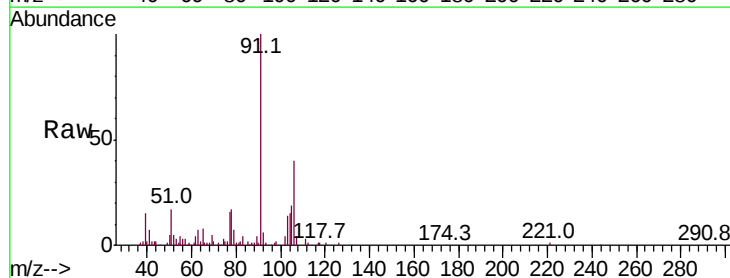
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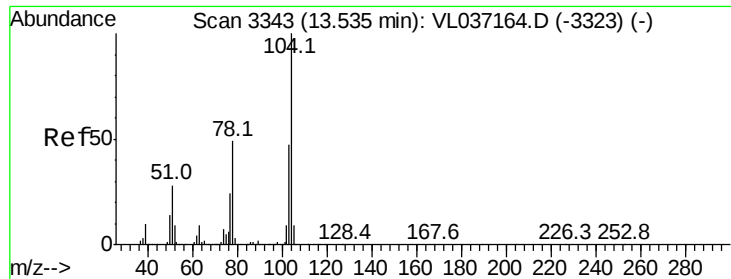
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#60
o-Xylene
Concen: 0.298 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL037200.D
Acq: 17 Jun 2021 14:04

Tgt Ion: 91 Resp: 119397
Ion Ratio Lower Upper
91 100
106 45.2 23.0 69.0





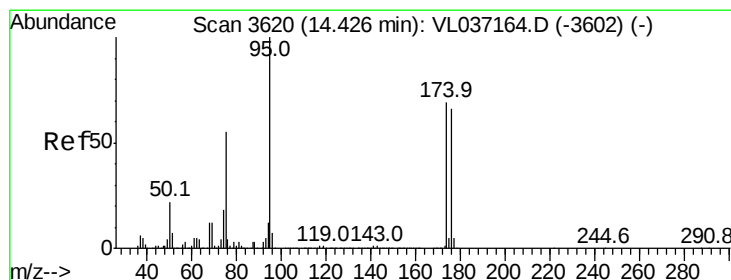
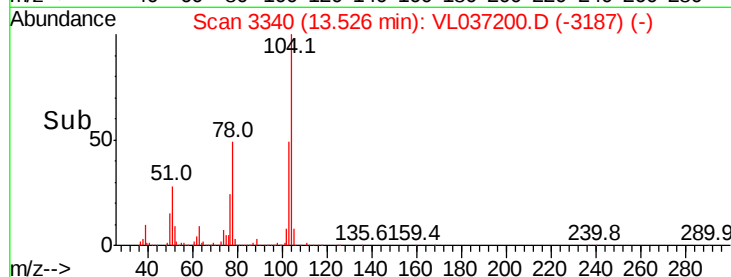
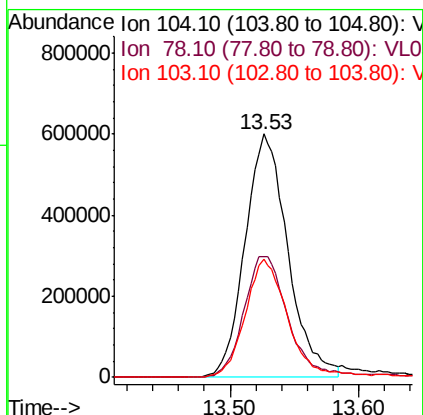
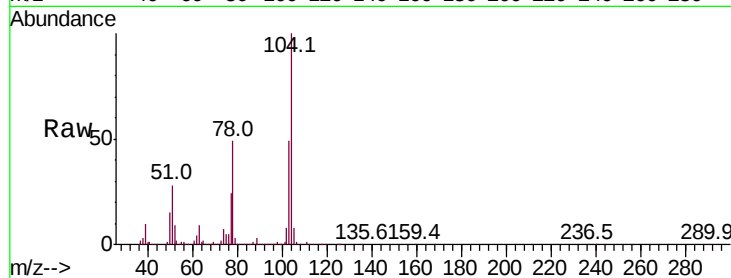
#61
Stvrene
Concen: 6.730 ppbv
RT: 13.53 min Scan# 3340
Delta R.T. -0.01 min
Lab File: VL037200.D
Acq: 17 Jun 2021 14:04

Instrument :
MSVOA_L
ClientSampleId :
IA-PLAYROOM-1DL

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.4	39.7	59.5
103	49.4	37.6	56.4

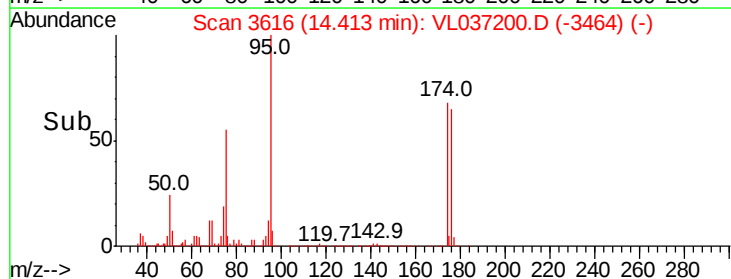
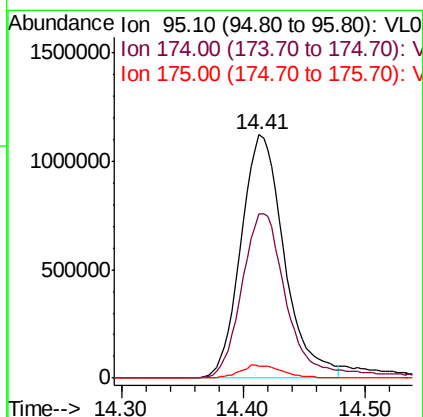
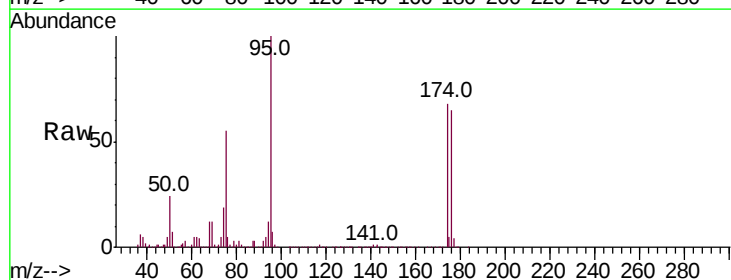
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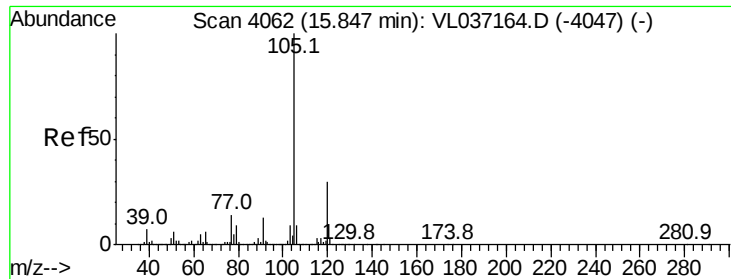
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.097 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. -0.01 min
Lab File: VL037200.D
Acq: 17 Jun 2021 14:04

Tgt Ion	Ratio	Lower	Upper
95	100		
174	73.5	57.0	85.4
175	5.3	4.4	6.6





#72

4-Ethyltoluene

Concen: 0.140 ppbv

RT: 15.84 min Scan# 4061

Delta R.T. -0.00 min

Lab File: VL037200.D

Acq: 17 Jun 2021 14:04

Instrument :

MSVOA_L

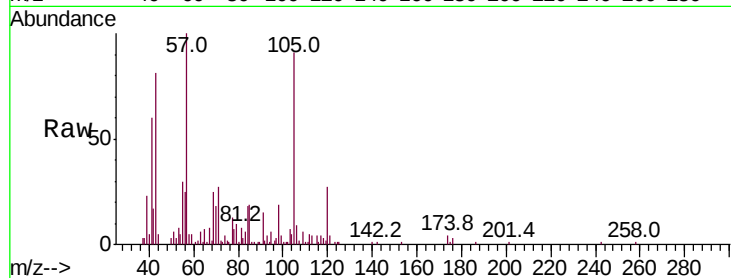
ClientSampleId :

IA-PLAYROOM-1DL

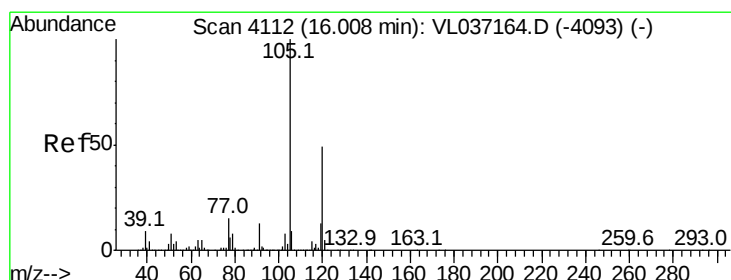
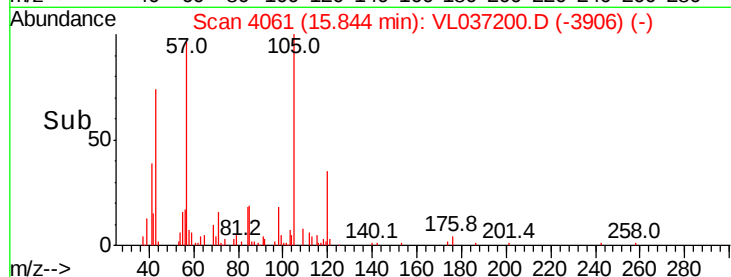
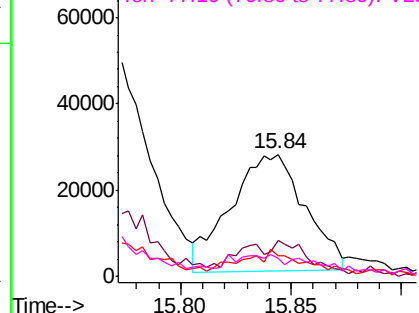
Tot Ion:	105	Resp:	63400
Ion Ratio	Lower	Upper	
105	100		
120	31.2	24.7	37.1
91	20.8	10.2	15.4#
77	20.1	11.0	16.6#

Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.180 ppbv m

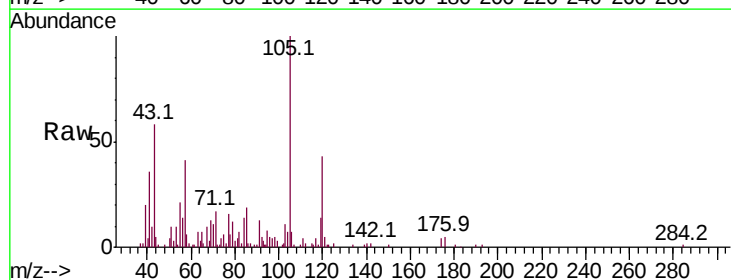
RT: 16.00 min Scan# 4108

Delta R.T. -0.01 min

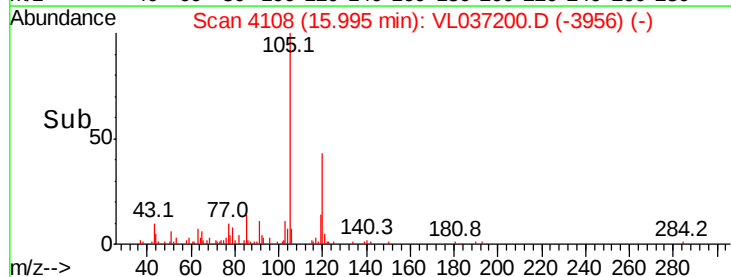
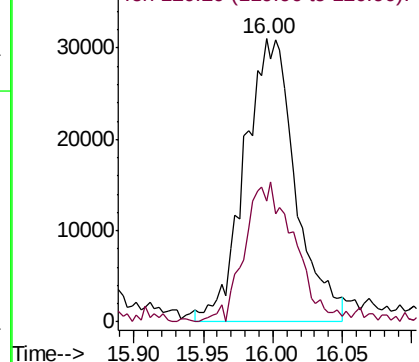
Lab File: VL037200.D

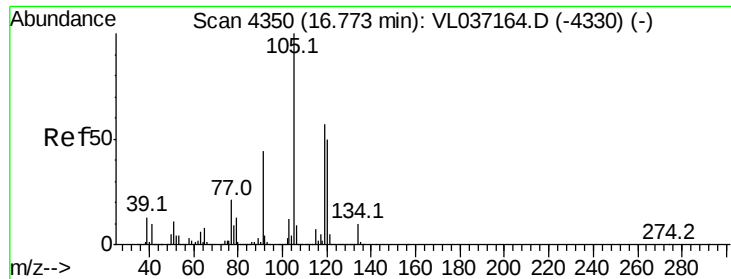
Acq: 17 Jun 2021 14:04

Tgt Ion:	105	Resp:	79010
Ion Ratio	Lower	Upper	
105	100		
120	42.7	39.4	59.2



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 0.502 ppbv m

RT: 16.76 min Scan# 4346

Delta R.T. -0.01 min

Lab File: VL037200.D

Acq: 17 Jun 2021 14:04

Instrument :

MSVOA_L

ClientSampleId :

IA-PLAYROOM-1DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	44.0	39.8	59.8
91	15.6	37.0	55.4#
77	15.9	17.0	25.4#

Manual Integrations
APPROVED

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