

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032921\
 Data File : VL036549.D
 Acq On : 29 Mar 2021 21:33
 Operator : SY/AP
 Sample : M1760-14
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-2-MUSIC-ROOM

Manual Integrations
 APPROVED

MMDadoda
 3/30/2021 7:44:21 PM

Quant Time: Mar 30 11:36:20 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1591932	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3560108	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3148586	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2522101	10.05	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	53141	0.205	ppbv	94
3) Chlorodifluoromethane	2.98	51	129253m	0.435	ppbv	
4) Chloromethane	3.13	50	52615m	0.501	ppbv	
9) Propene	3.01	41	88777	0.936	ppbv	84
11) Trichlorofluoromethane	3.94	101	48696	0.184	ppbv	97
13) Ethanol	3.59	45	1019192	90.262	ppbv	98
15) Acetone	3.83	43	1690474	10.789	ppbv	96
19) Isopropyl Alcohol	3.96	45	452638	5.252	ppbv #	95
20) Methylene Chloride	4.33	84	289919m	3.952	ppbv	
26) Hexane	5.67	57	760572	4.400	ppbv #	48
34) 2-Butanone	5.24	43	81050	0.466	ppbv	92
35) Carbon Tetrachloride	7.00	117	15281m	0.056	ppbv	
36) Benzene	6.87	78	74027m	0.225	ppbv	
53) Toluene	9.79	91	362371	1.036	ppbv	99
58) Ethyl Benzene	12.69	91	53155m	0.116	ppbv	
59) m/p-Xylene	12.95	91	214784m	0.538	ppbv	
60) o-Xylene	13.68	91	58967m	0.153	ppbv	

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

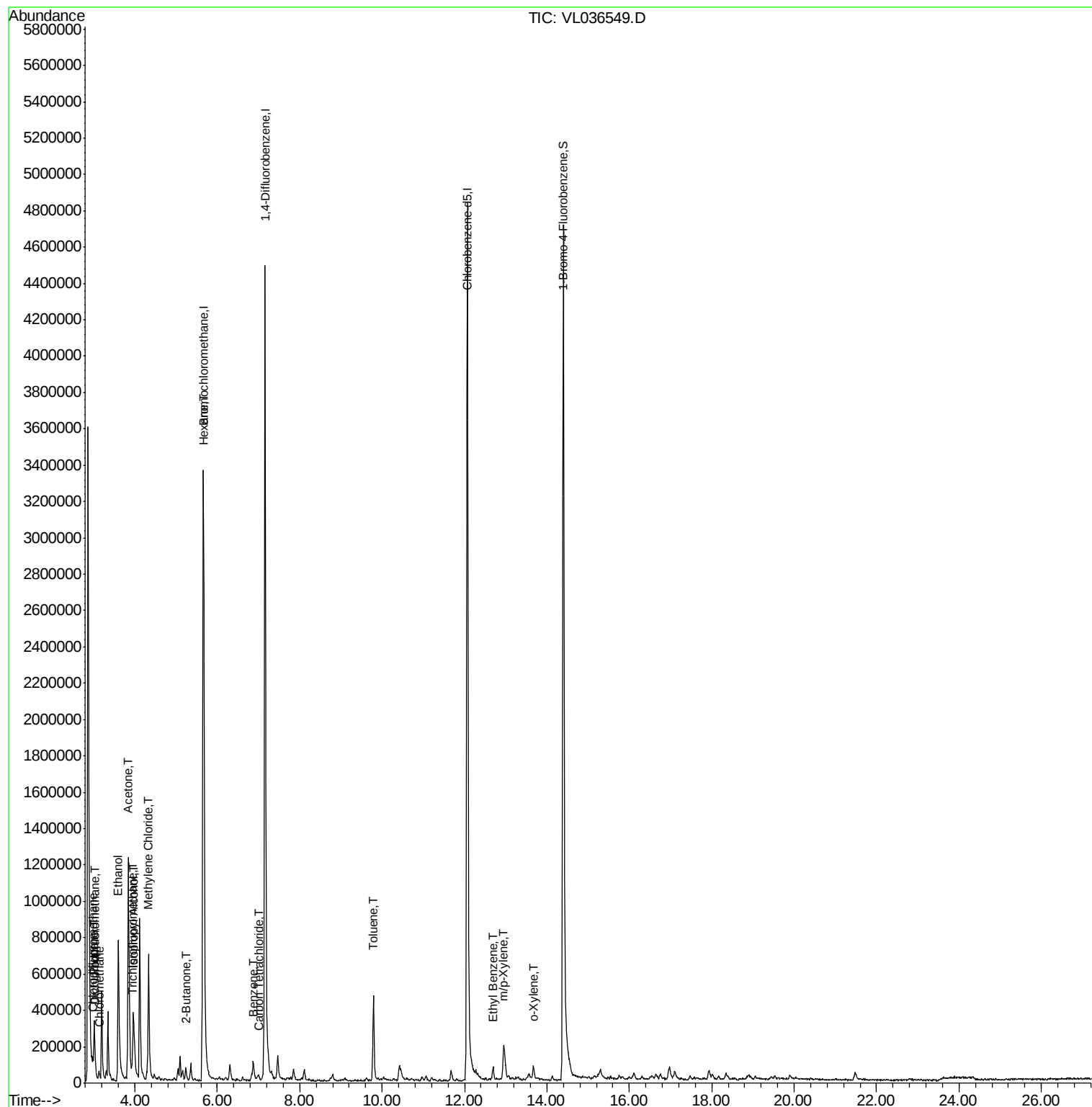
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032921\
Data File : VL036549.D
Acq On : 29 Mar 2021 21:33
Operator : SY/AP
Sample : M1760-14
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

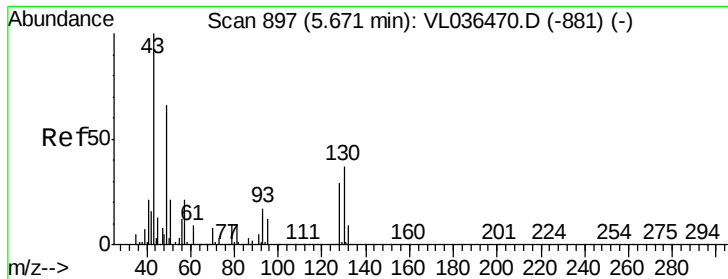
Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-ROOM

Manual Integrations
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3/30/2021 7:44:21 PM

Quant Time: Mar 30 11:36:20 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.02 min

Lab File: VL036549.D

Acq: 29 Mar 2021 21:33

Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-ROOM

Tot Ion: 49 Resp: 1591932

Ion Ratio Lower Upper

49 100

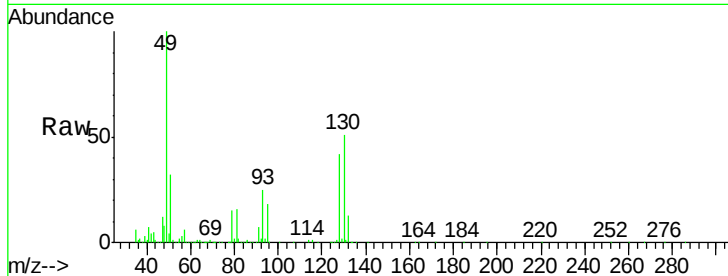
128 43.5 23.5 70.6

130 56.0 29.1 87.4

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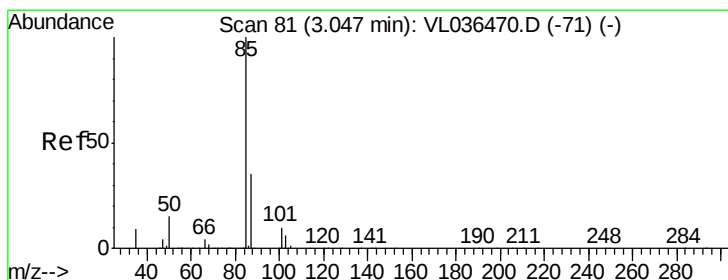
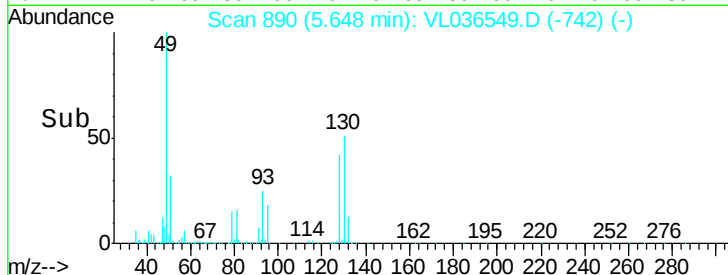
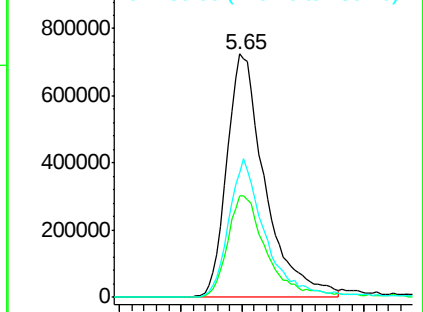
3/30/2021 7:44:21 PM



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



#2

Dichlorodifluoromethane

Concen: 0.205 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.01 min

Lab File: VL036549.D

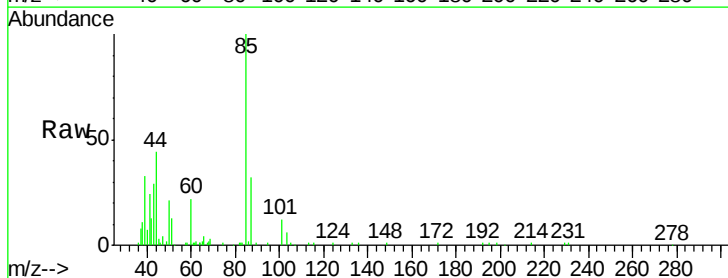
Acq: 29 Mar 2021 21:33

Tgt Ion: 85 Resp: 53141

Ion Ratio Lower Upper

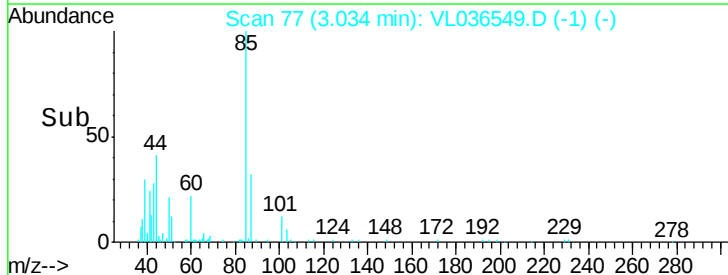
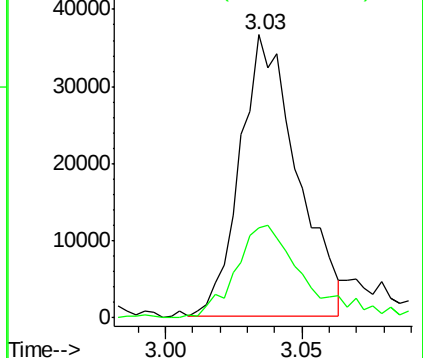
85 100

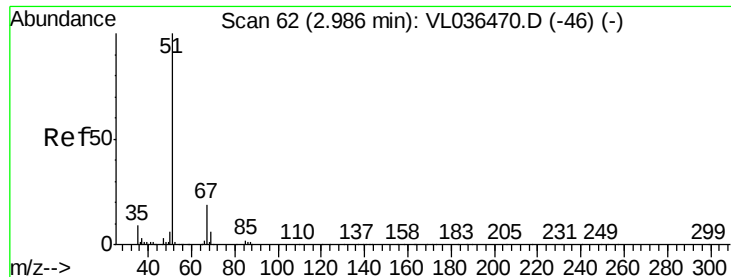
87 31.2 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.435 ppbv m

RT: 2.98 min Scan# 59

Delta R.T. -0.01 min

Lab File: VL036549.D

Acq: 29 Mar 2021 21:33

Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-ROOM

Tot Ion: 51 Resp: 129253

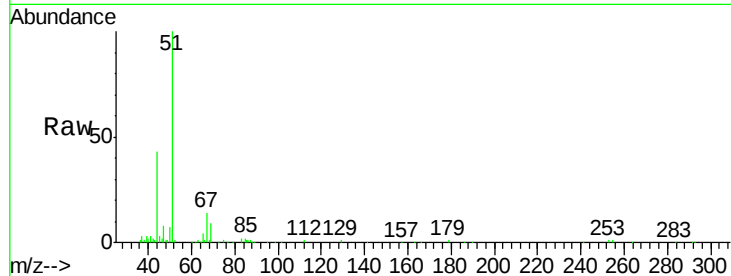
Ion Ratio Lower Upper

51 100

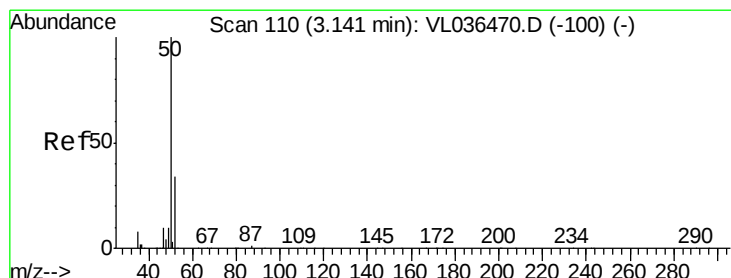
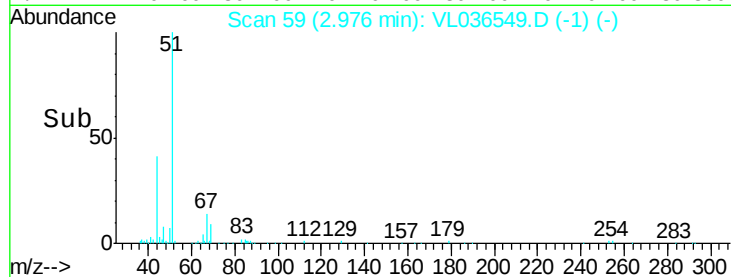
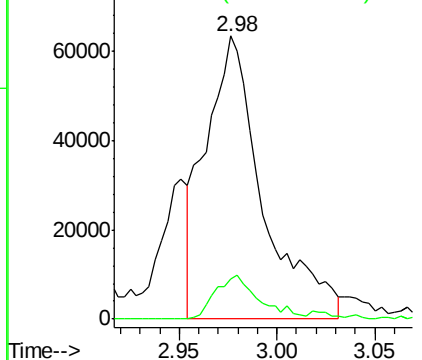
67 13.3 14.7 22.1#

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Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.501 ppbv m

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL036549.D

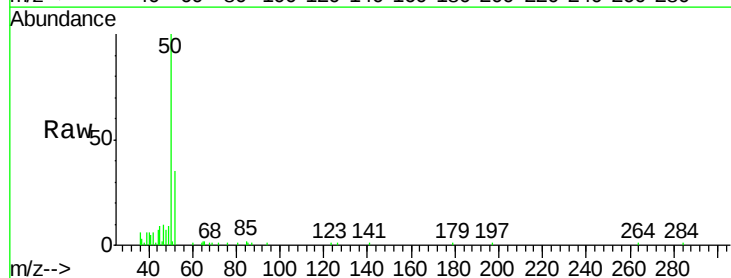
Acq: 29 Mar 2021 21:33

Tgt Ion: 50 Resp: 52615

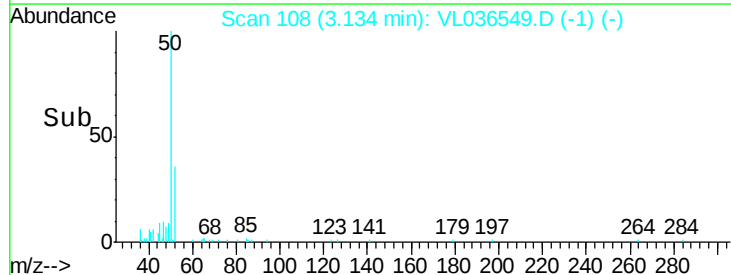
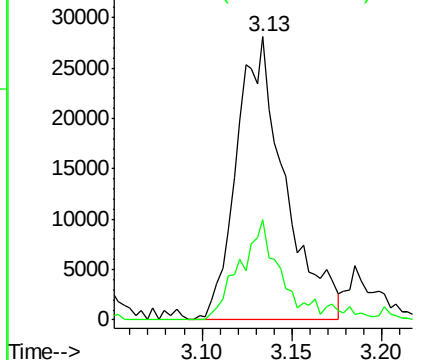
Ion Ratio Lower Upper

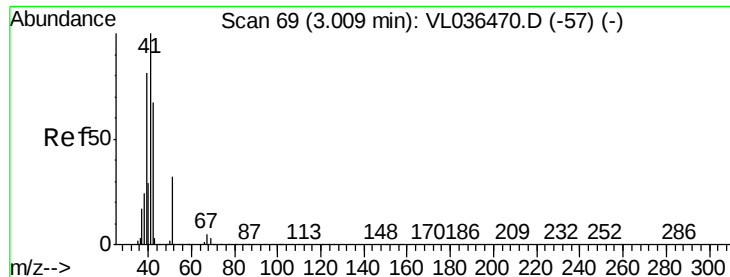
50 100

52 35.3 27.0 40.6



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.936 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL036549.D

Acq: 29 Mar 2021 21:33

Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-ROOM

Tot Ion: 41 Resp: 88777

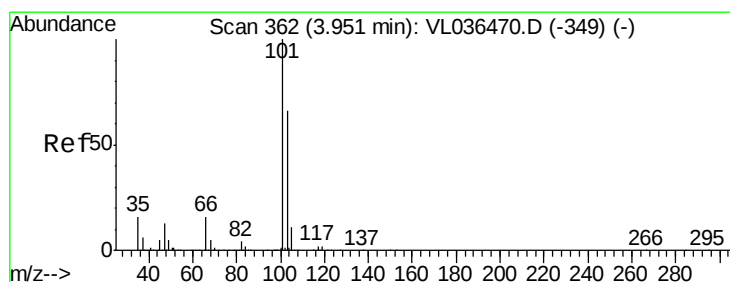
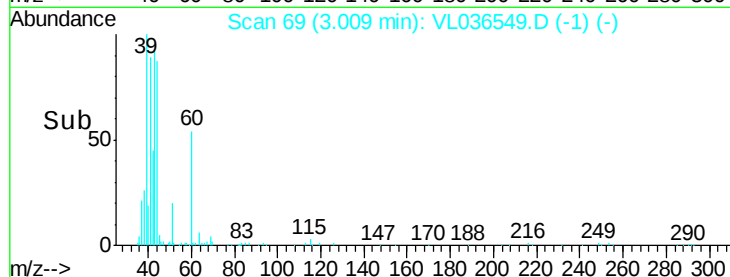
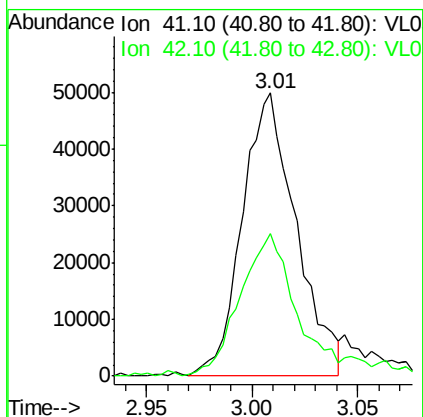
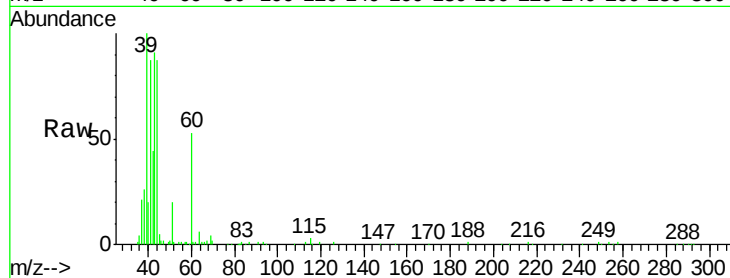
Ion Ratio Lower Upper

41 100

42 57.7 57.0 85.4

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#11

Trichlorofluoromethane

Concen: 0.184 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.01 min

Lab File: VL036549.D

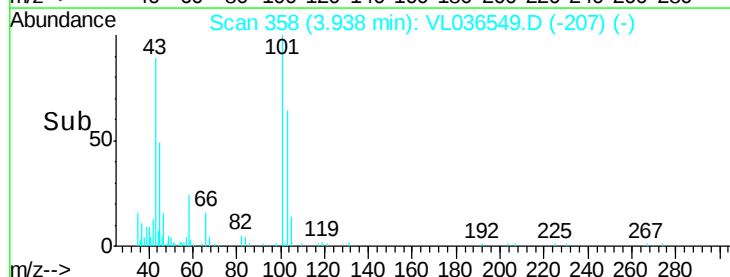
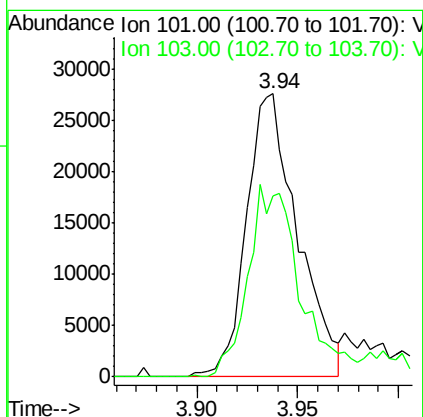
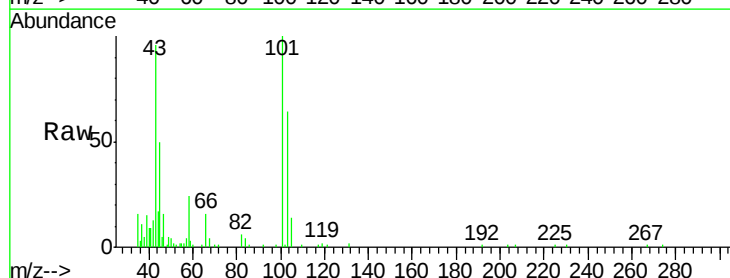
Acq: 29 Mar 2021 21:33

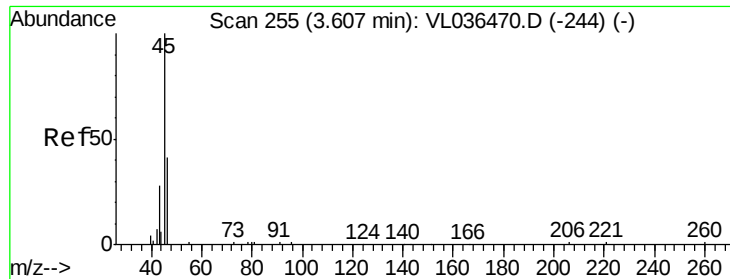
Tgt Ion:101 Resp: 48696

Ion Ratio Lower Upper

101 100

103 63.0 52.5 78.7





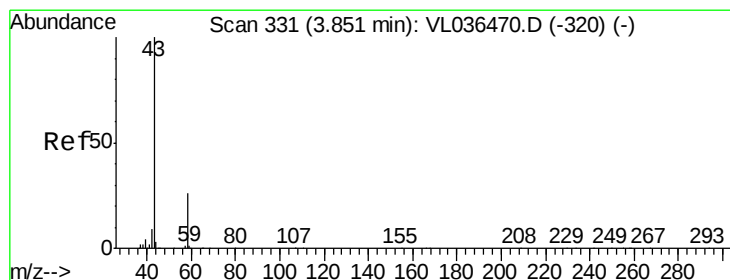
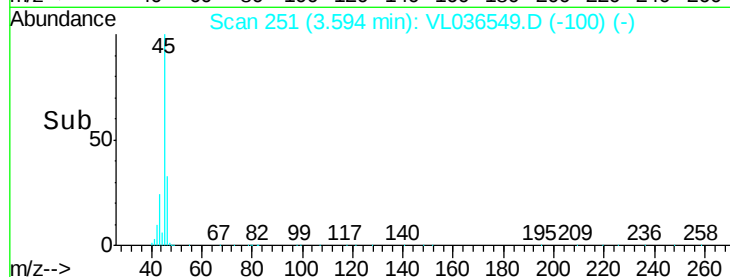
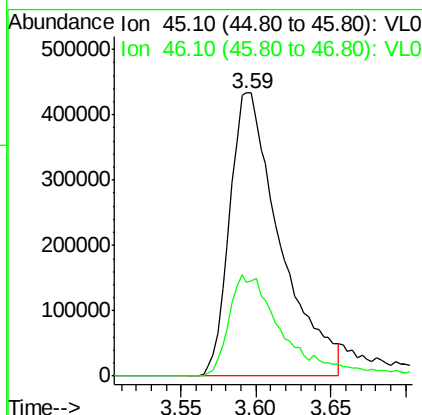
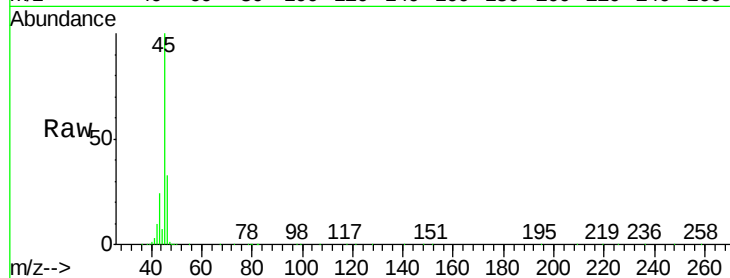
#13
Ethanol
Concen: 90.262 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.01 min
Lab File: VL036549.D
Acq: 29 Mar 2021 21:33

Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-ROOM

Tot Ion: 45 Resp: 1019192
Ion Ratio Lower Upper
45 100
46 39.9 16.6 66.2

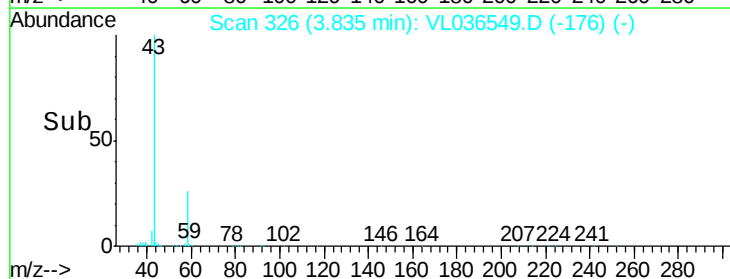
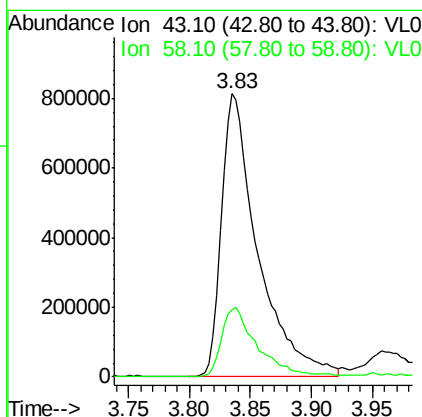
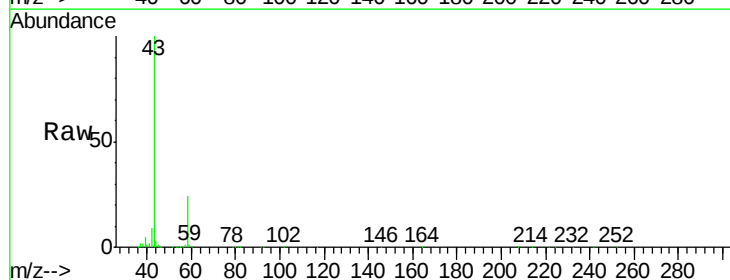
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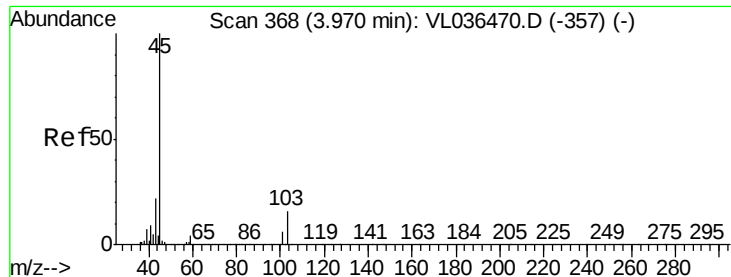
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#15
Acetone
Concen: 10.789 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.02 min
Lab File: VL036549.D
Acq: 29 Mar 2021 21:33

Tgt Ion: 43 Resp: 1690474
Ion Ratio Lower Upper
43 100
58 24.6 21.2 31.8





#19

Isopropyl Alcohol

Concen: 5.252 ppbv

RT: 3.96 min Scan# 365

Delta R.T. -0.01 min

Lab File: VL036549.D

Acq: 29 Mar 2021 21:33

Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-ROOM

Tot Ion: 45 Resp: 452638

Ion Ratio Lower Upper

45 100

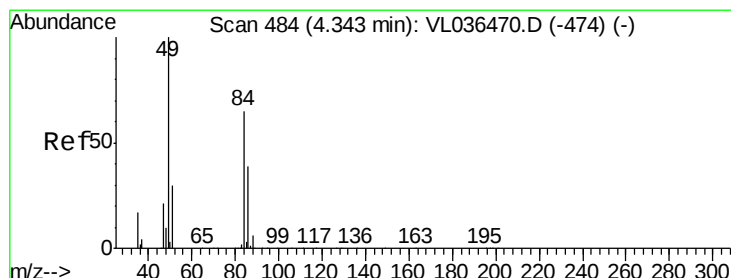
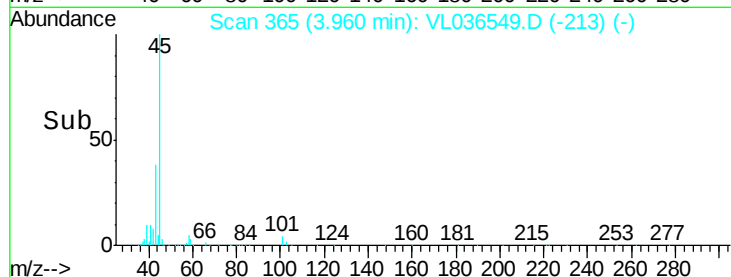
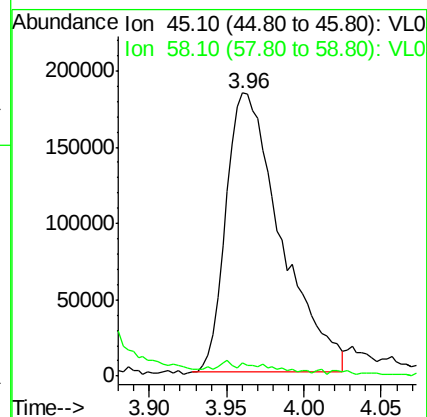
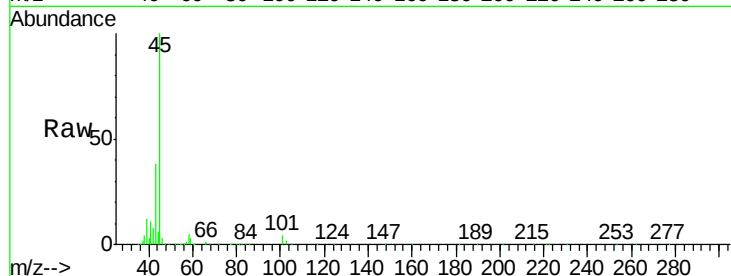
58 5.3 2.9 4.3#

Manual Integrations

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#20

Methylene Chloride

Concen: 3.952 ppbv m

RT: 4.33 min Scan# 479

Delta R.T. -0.02 min

Lab File: VL036549.D

Acq: 29 Mar 2021 21:33

Tgt Ion: 84 Resp: 289919

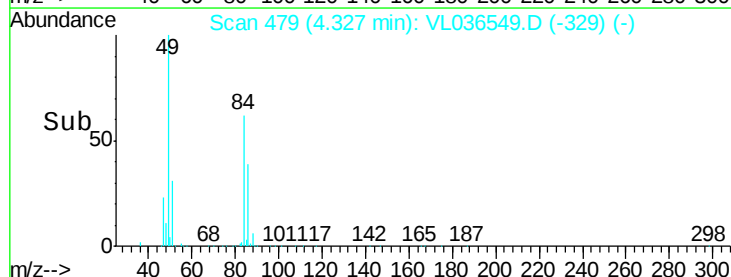
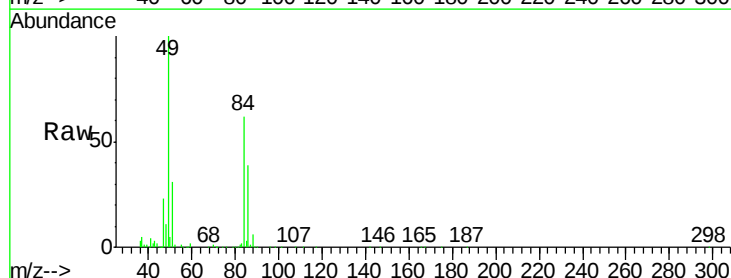
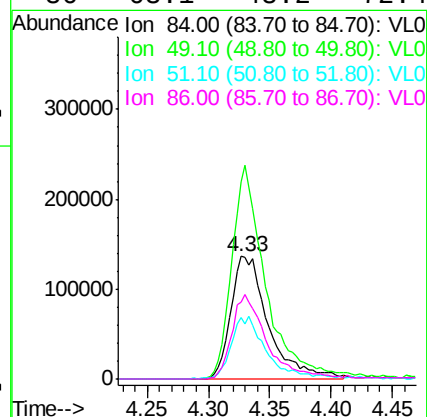
Ion Ratio Lower Upper

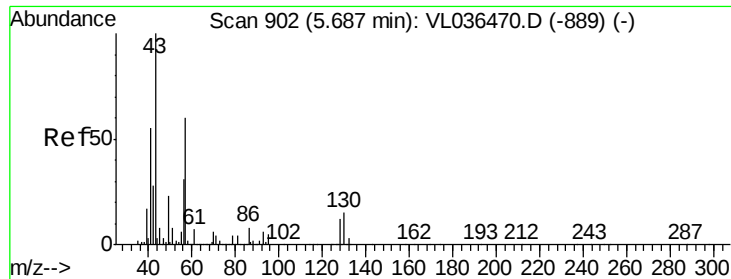
84 100

49 160.3 122.9 184.3

51 50.1 36.9 55.3

86 63.1 48.2 72.4





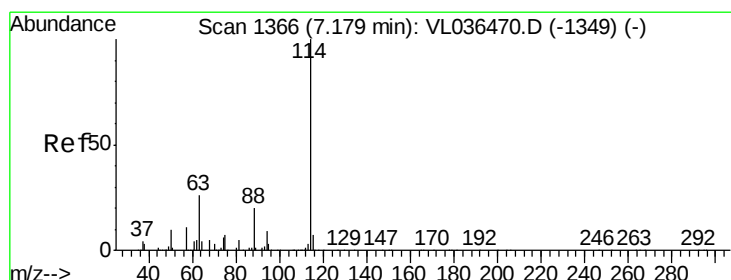
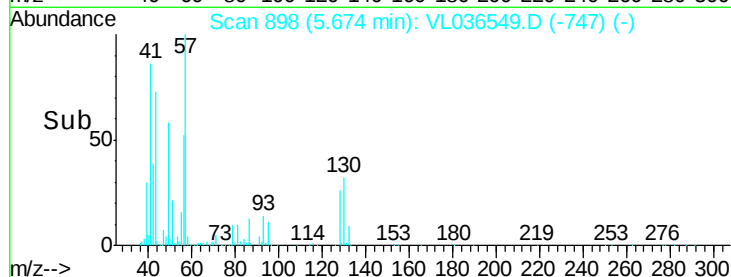
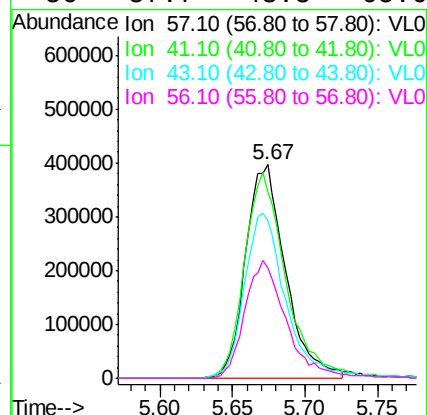
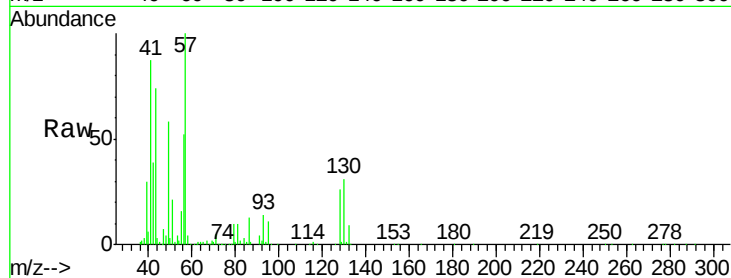
#26
Hexane
Concen: 4.400 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL036549.D
Acq: 29 Mar 2021 21:33

Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-ROOM

Tot Ion	57	Resp	760572
Ion	Ratio	Lower	Upper
57	100		
41	102.1	77.2	115.8
43	81.2	173.8	260.6#
56	57.7	43.8	65.6

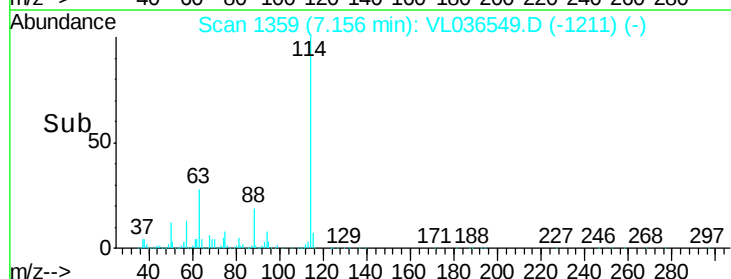
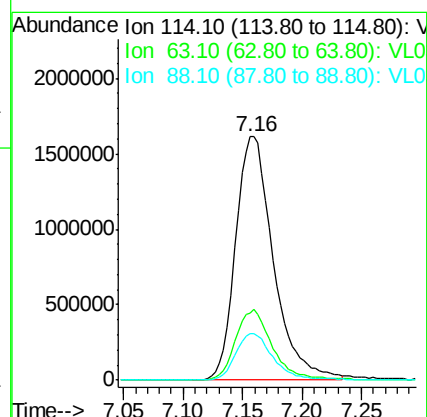
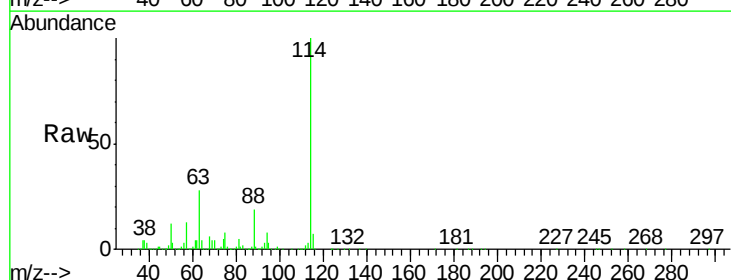
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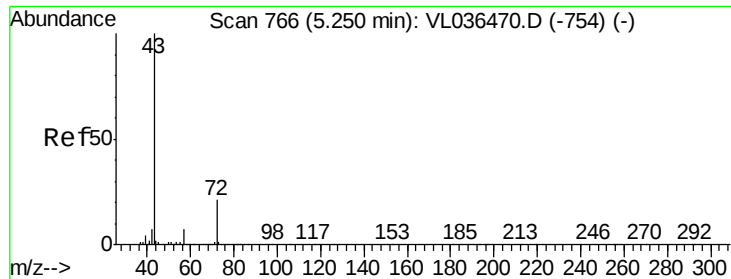
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.02 min
Lab File: VL036549.D
Acq: 29 Mar 2021 21:33

Tgt Ion	114	Resp	3560108
Ion	Ratio	Lower	Upper
114	100		
63	28.6	22.4	33.6
88	19.3	15.4	23.0





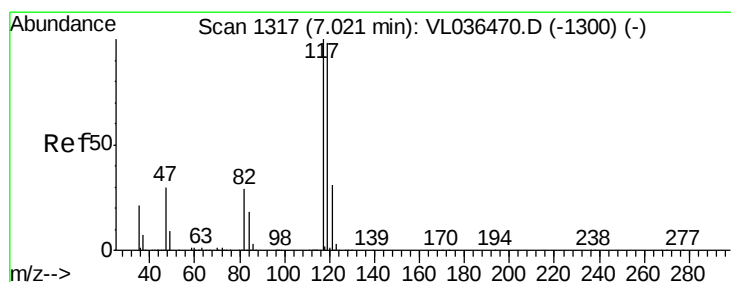
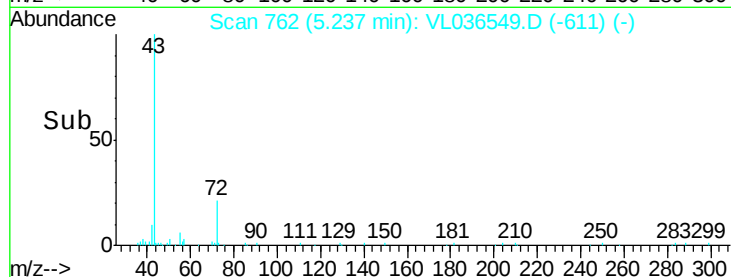
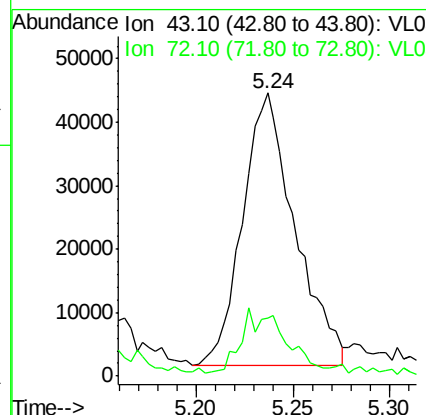
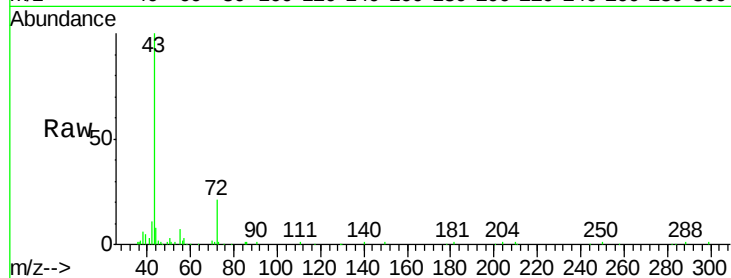
#34
2-Butanone
Concen: 0.466 ppbv
RT: 5.24 min Scan# 762
Delta R.T. -0.01 min
Lab File: VL036549.D
Acq: 29 Mar 2021 21:33

Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-ROOM

Tot Ion: 43 Resp: 81050
Ion Ratio Lower Upper
43 100
72 25.2 17.0 25.6

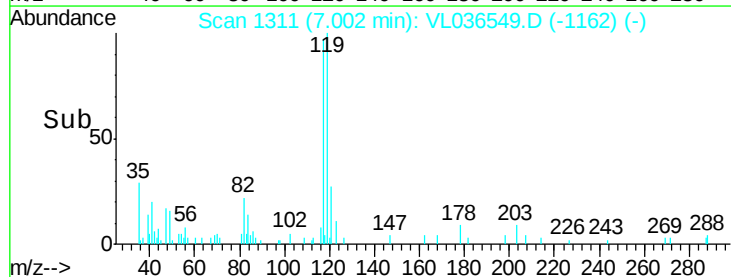
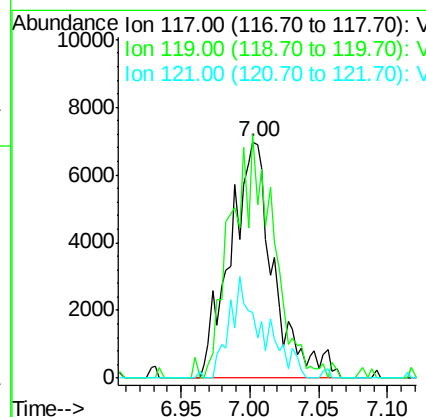
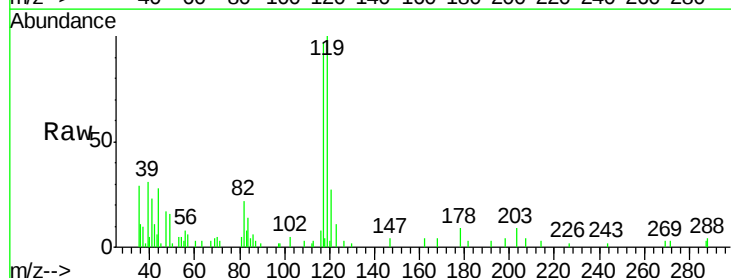
Manual Integrations
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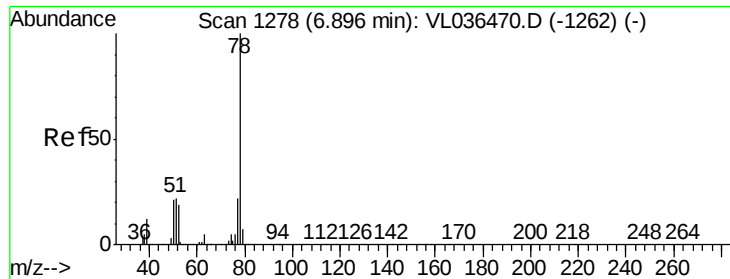
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#35
Carbon Tetrachloride
Concen: 0.056 ppbv m
RT: 7.00 min Scan# 1311
Delta R.T. -0.02 min
Lab File: VL036549.D
Acq: 29 Mar 2021 21:33

Tgt Ion: 117 Resp: 15281
Ion Ratio Lower Upper
117 100
119 103.0 78.2 117.2
121 27.7 24.5 36.7





#36

Benzene

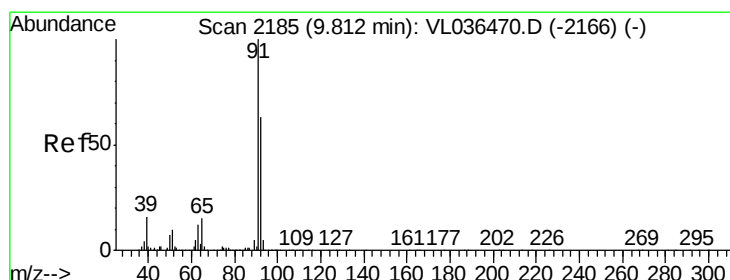
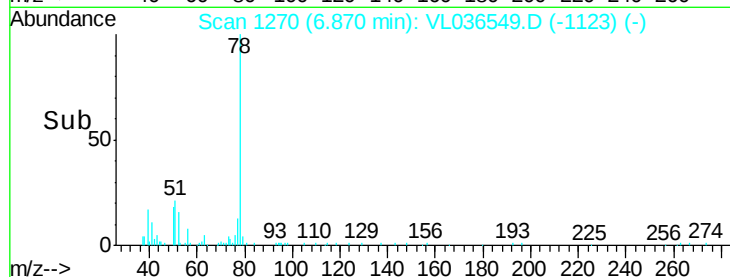
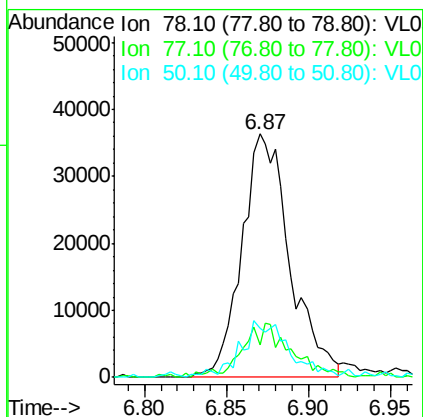
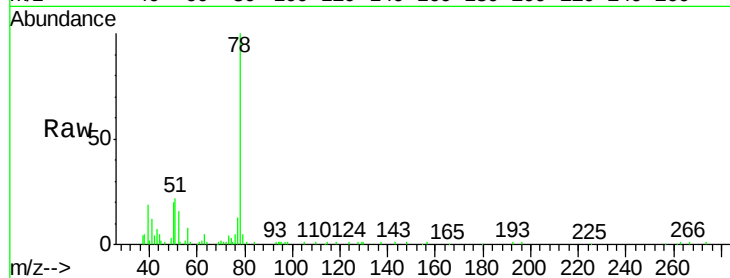
Concen: 0.225 ppbv m
 RT: 6.87 min Scan# 1270
 Delta R.T. -0.03 min
 Lab File: VL036549.D
 Acq: 29 Mar 2021 21:33

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-2-MUSIC-ROOM

Tot Ion	Ratio	Lower	Upper
78	100		
77	13.4	18.0	27.0#
50	20.2	16.5	24.7

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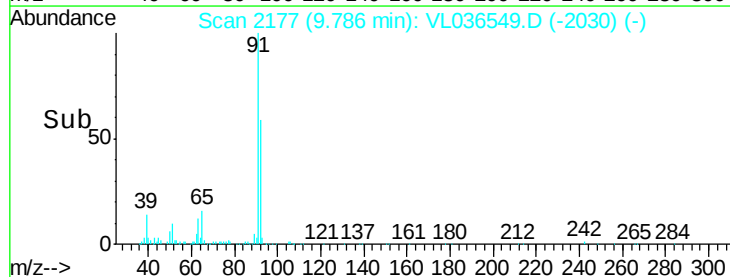
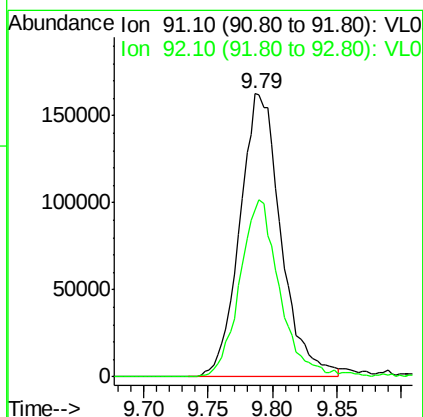
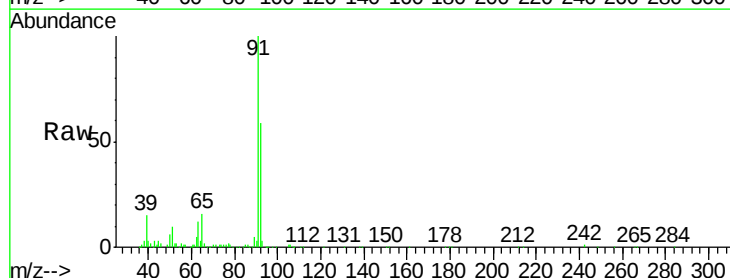


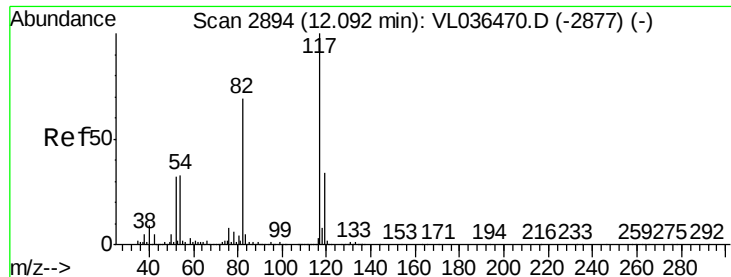
#53

Toluene

Concen: 1.036 ppbv
 RT: 9.79 min Scan# 2177
 Delta R.T. -0.03 min
 Lab File: VL036549.D
 Acq: 29 Mar 2021 21:33

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.8	73.2





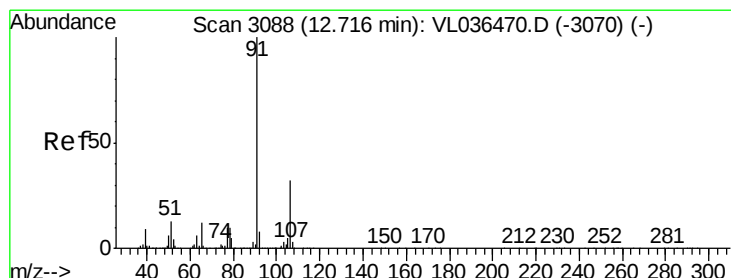
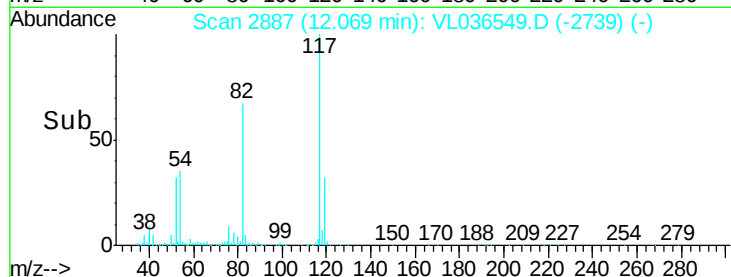
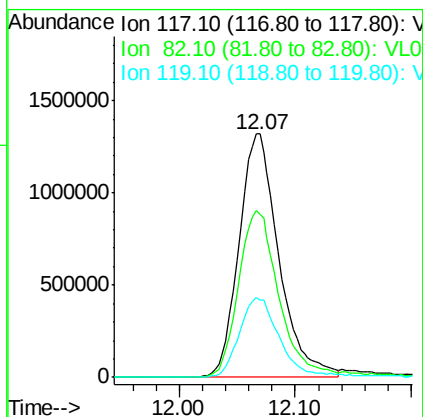
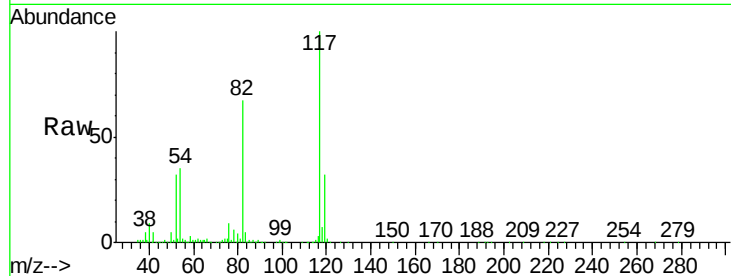
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2887
Delta R.T. -0.02 min
Lab File: VL036549.D
Acq: 29 Mar 2021 21:33

Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-ROOM

Tot Ion	Ratio	Lower	Upper
117	100		
82	72.0	57.4	86.0
119	34.1	47.4	71.0#

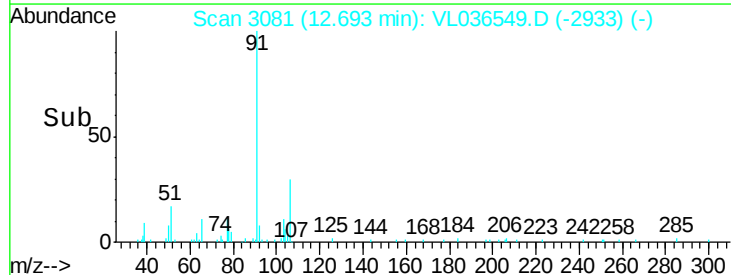
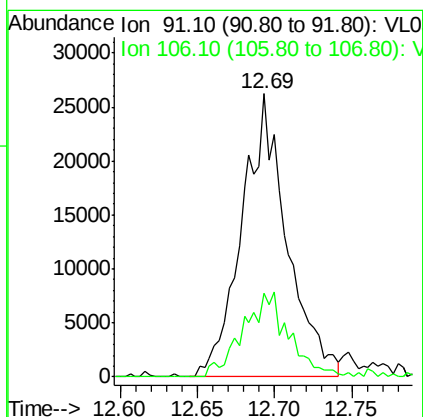
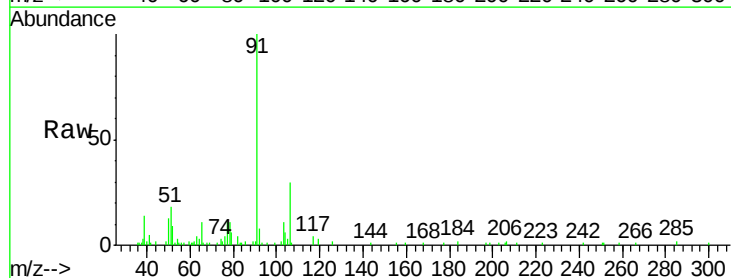
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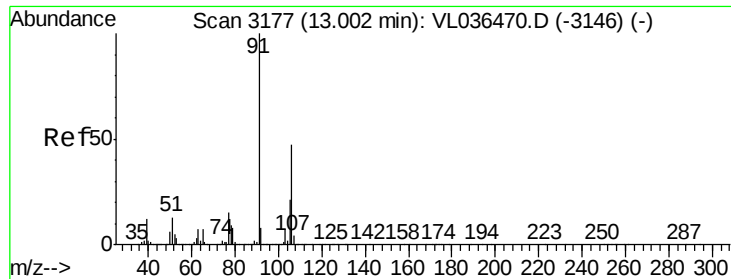
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#58
Ethyl Benzene
Concen: 0.116 ppbv m
RT: 12.69 min Scan# 3081
Delta R.T. -0.02 min
Lab File: VL036549.D
Acq: 29 Mar 2021 21:33

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.6	25.3	37.9





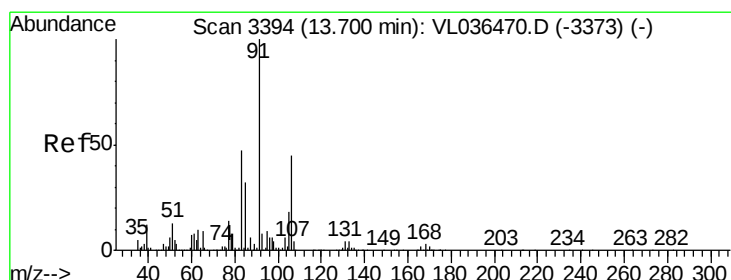
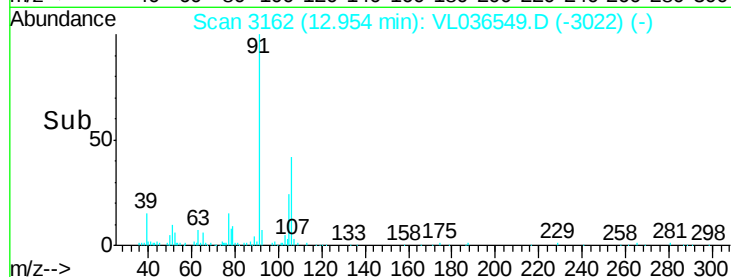
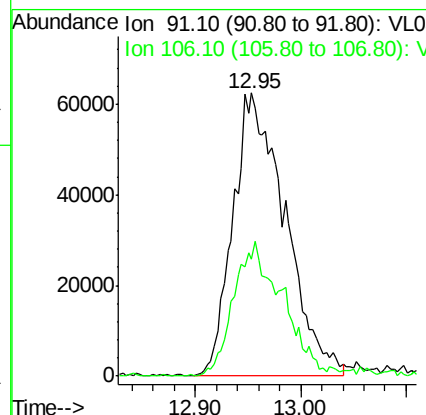
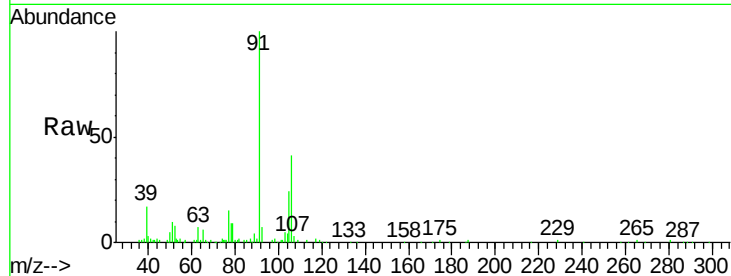
#59
m/p-Xylene
Concen: 0.538 ppbv m
RT: 12.95 min Scan# 3162
Delta R.T. -0.05 min
Lab File: VL036549.D
Acq: 29 Mar 2021 21:33

Instrument :
MSVOA_L
ClientSampleId :
IAS-2-MUSIC-ROOM

Tot Ion: 91 Resp: 214784
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

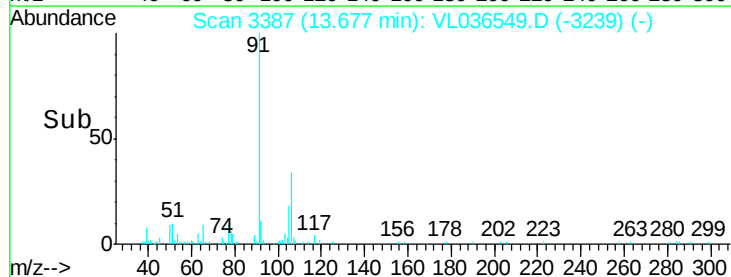
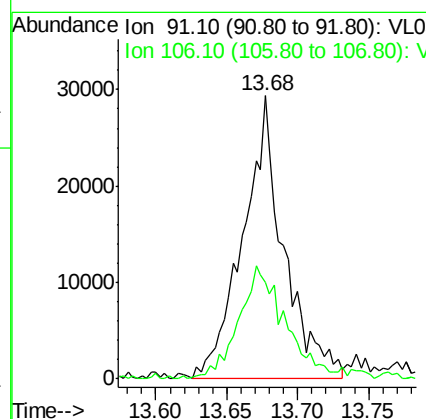
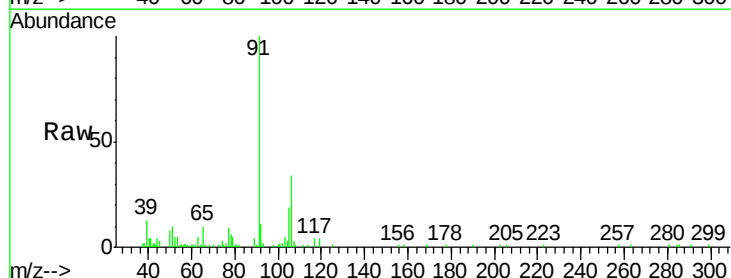
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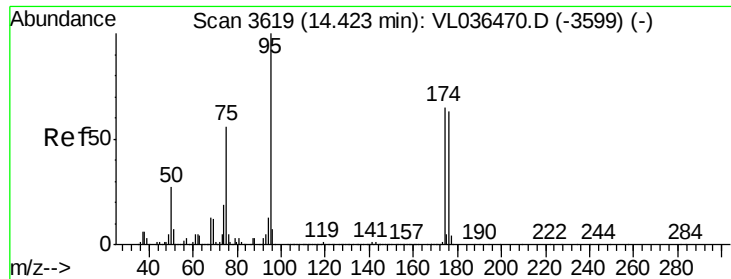
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#60
o-Xylene
Concen: 0.153 ppbv m
RT: 13.68 min Scan# 3387
Delta R.T. -0.02 min
Lab File: VL036549.D
Acq: 29 Mar 2021 21:33

Tgt Ion: 91 Resp: 58967
Ion Ratio Lower Upper
91 100
106 47.6 22.3 66.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.050 ppbv
 RT: 14.40 min Scan# 3611
 Delta R.T. -0.03 min
 Lab File: VL036549.D
 Acq: 29 Mar 2021 21:33

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-2-MUSIC-ROOM

Tot Ion	Ratio	Lower	Upper
95	100		
174	66.2	51.0	76.6
175	4.8	3.9	5.9

Manual Integrations
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