

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022720\
 Data File : VL034709.D
 Acq On : 27 Feb 2020 15:14
 Operator : SY/AP
 Sample : L1662-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

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

Manual Integrations
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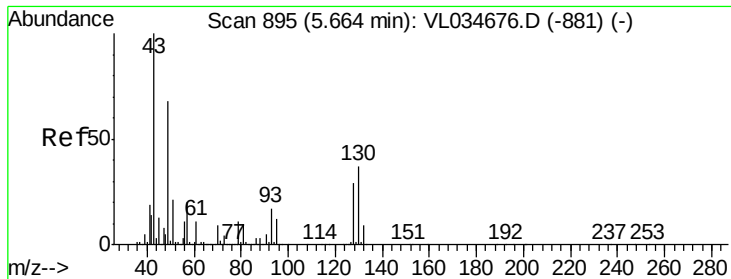
Quant Time: Feb 28 01:34:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 2
 QLast Update : Wed Feb 26 06:58:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	965844	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.20	114	1969067	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.14	117	1948663	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1652058	10.34	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	95023	0.624	ppbv	97
3) Chlorodifluoromethane	2.96	51	48943m	0.470	ppbv	
4) Chloromethane	3.12	50	31631	0.542	ppbv	92
9) Propene	3.00	41	53850m	1.236	ppbv	
11) Trichlorofluoromethane	3.94	101	36828	0.276	ppbv	93
13) Ethanol	3.59	45	1069760	77.721	ppbv	96
15) Acetone	3.84	43	1378398	12.524	ppbv	98
17) tert-Butyl alcohol	4.30	59	36013m	0.427	ppbv	
19) Isopropyl Alcohol	3.97	45	125902m	1.921	ppbv	
20) Methylene Chloride	4.34	84	89250	2.180	ppbv	94
26) Hexane	5.70	57	139875	1.558	ppbv #	42
34) 2-Butanone	5.26	43	33205m	0.268	ppbv	
35) Carbon Tetrachloride	7.04	117	10106m	0.077	ppbv	
36) Benzene	6.91	78	50895	0.299	ppbv #	88
53) Toluene	9.85	91	615748	3.404	ppbv	100
58) Ethyl Benzene	12.76	91	29059m	0.123	ppbv	
59) m/p-Xylene	13.03	91	107897m	0.525	ppbv	
60) o-Xylene	13.74	91	30095m	0.147	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.02 min

Lab File: VL034709.D

Acq: 27 Feb 2020 15:14

Instrument :

MSVOA_L

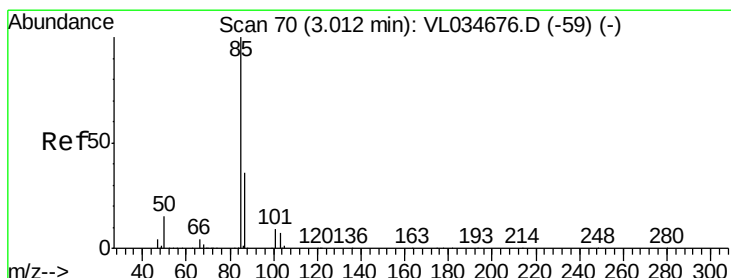
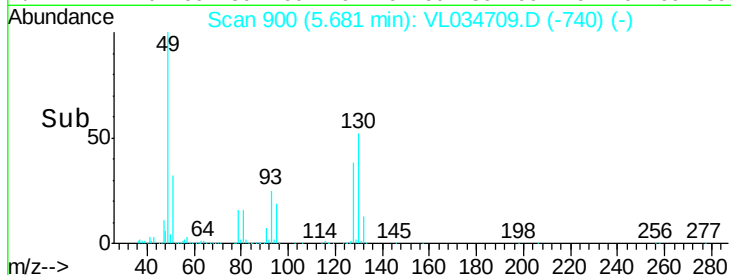
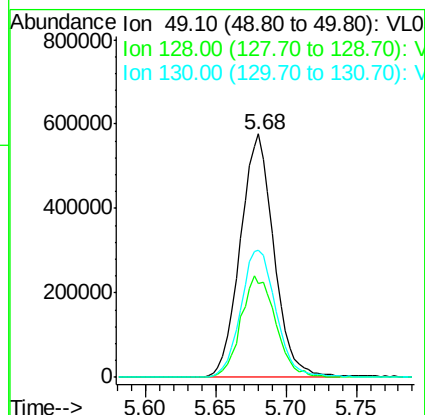
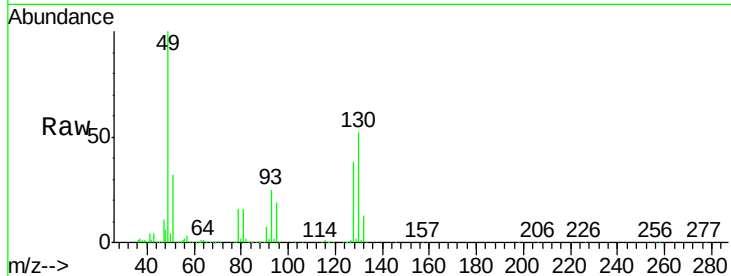
ClientSampleId :

IAS-2-MUSIC-ROOM

Tot Ion:	49	Resp:	965844
Ion Ratio	Lower	Upper	
49	100		
128	43.3	21.6	65.0
130	54.8	27.7	83.1

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#2

Dichlorodifluoromethane

Concen: 0.624 ppbv

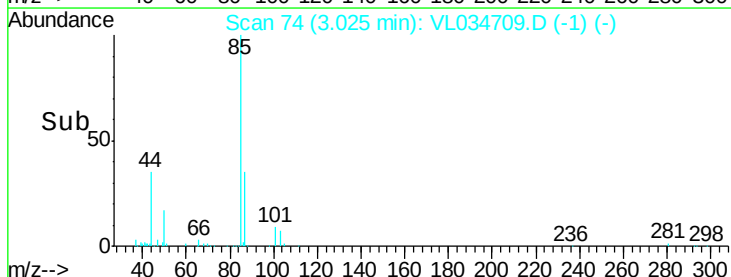
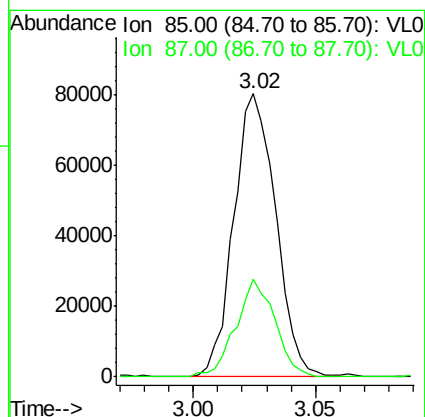
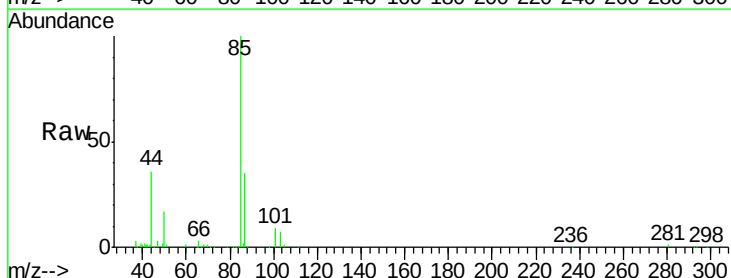
RT: 3.02 min Scan# 74

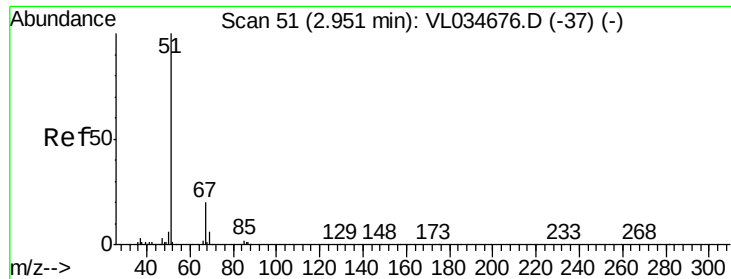
Delta R.T. 0.01 min

Lab File: VL034709.D

Acq: 27 Feb 2020 15:14

Tgt Ion:	85	Resp:	95023
Ion Ratio	Lower	Upper	
85	100		
87	34.9	29.2	43.8





#3

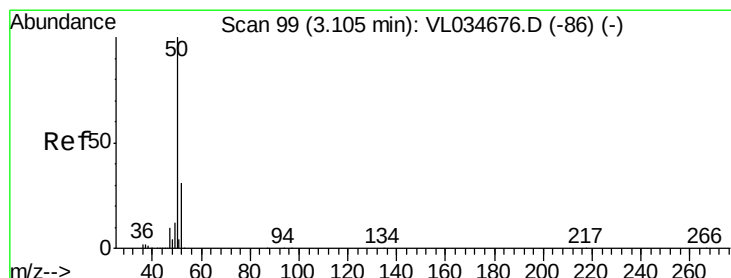
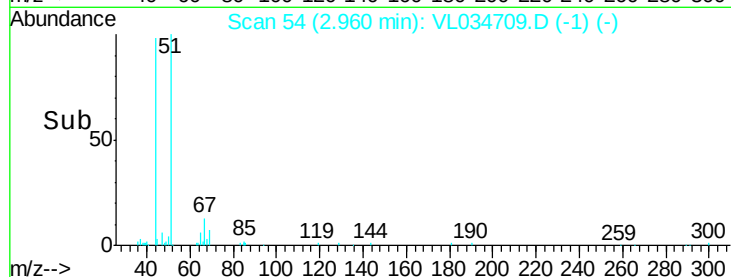
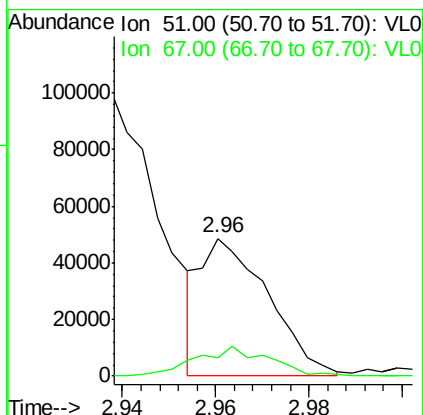
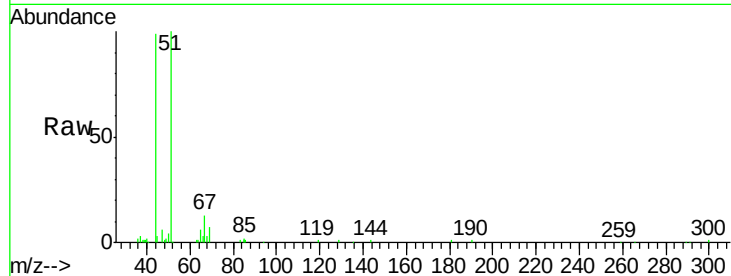
Chlorodifluoromethane
Concen: 0.470 ppbv
RT: 2.96 min Scan# 54
Delta R.T. 0.01 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

Instrument :
MSVOA_L
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
51	100		
67	24.4	15.5	23.3#

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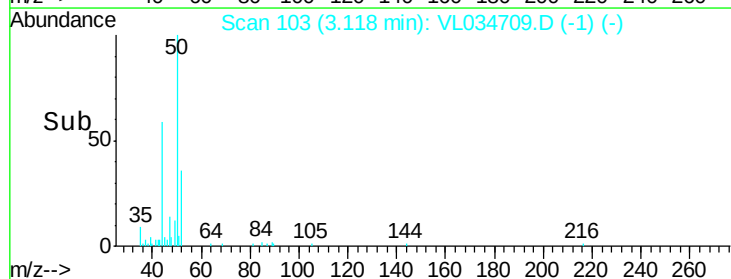
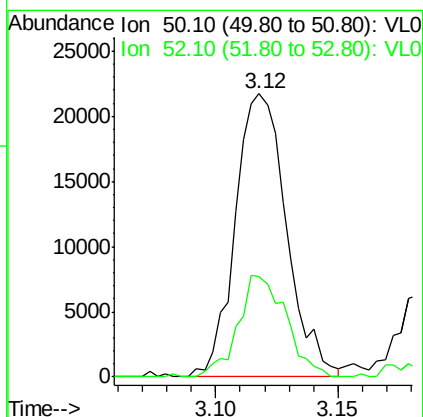
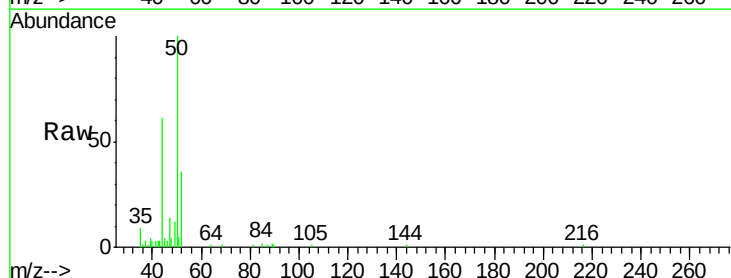
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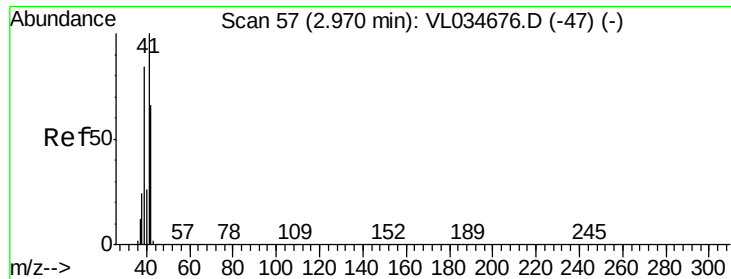


#4

Chloromethane
Concen: 0.542 ppbv
RT: 3.12 min Scan# 103
Delta R.T. 0.01 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

Tgt Ion	Ratio	Lower	Upper
50	100		
52	35.6	25.0	37.4





#9

Propene

Concen: 1.236 ppbv m

RT: 3.00 min Scan# 65

Delta R.T. 0.03 min

Lab File: VL034709.D

Acq: 27 Feb 2020 15:14

Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-ROOM

Tot Ion: 41 Resp: 53850

Ion Ratio Lower Upper

41 100

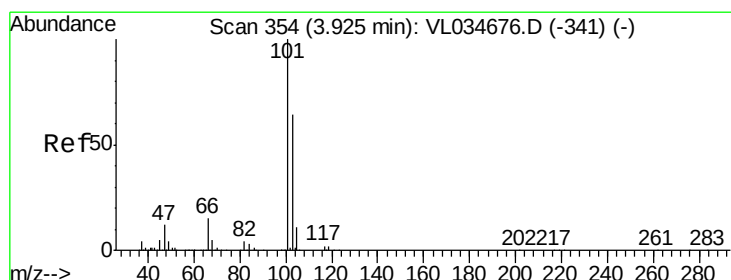
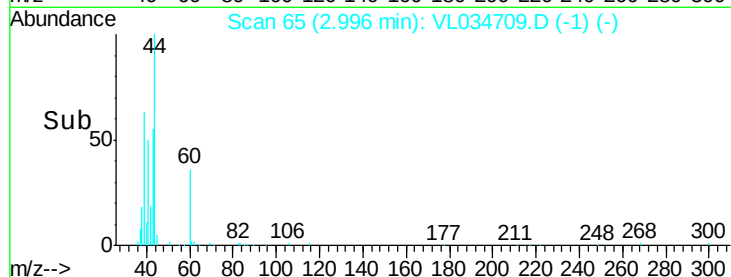
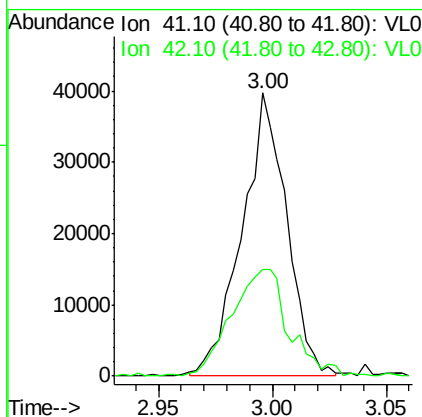
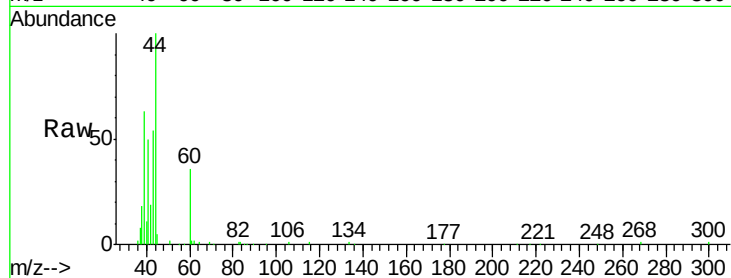
42 294.6 54.9 82.3#

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#11

Trichlorofluoromethane

Concen: 0.276 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.02 min

Lab File: VL034709.D

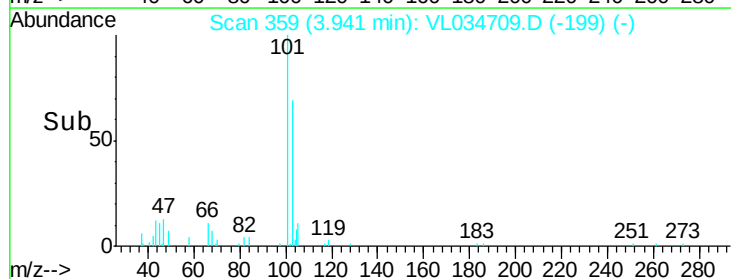
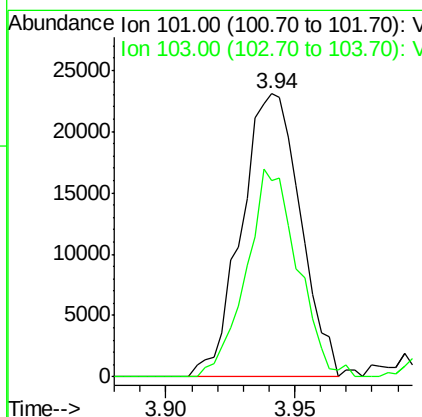
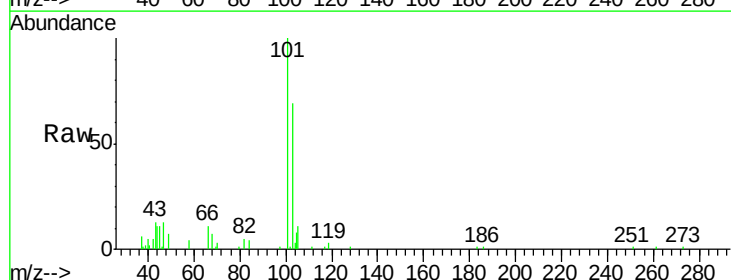
Acq: 27 Feb 2020 15:14

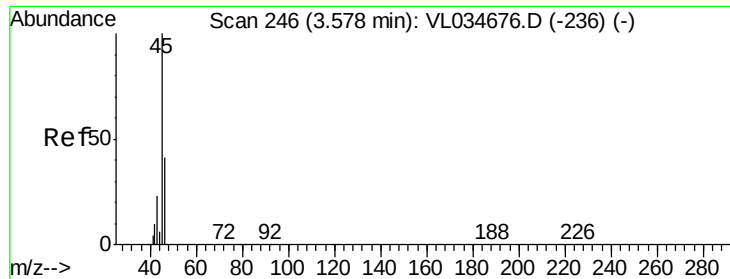
Tgt Ion: 101 Resp: 36828

Ion Ratio Lower Upper

101 100

103 69.3 51.2 76.8





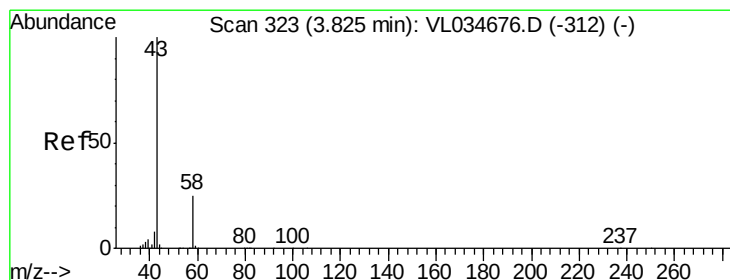
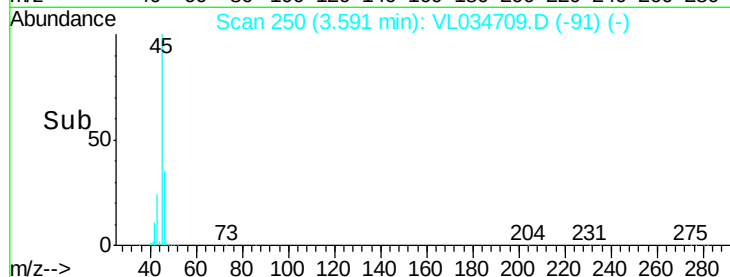
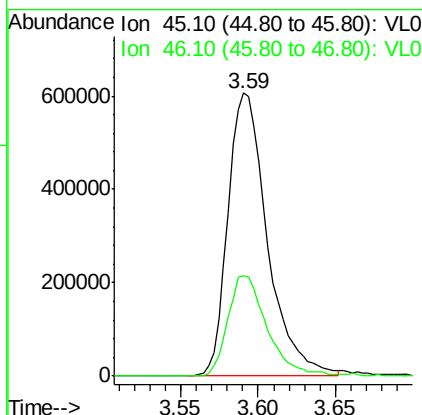
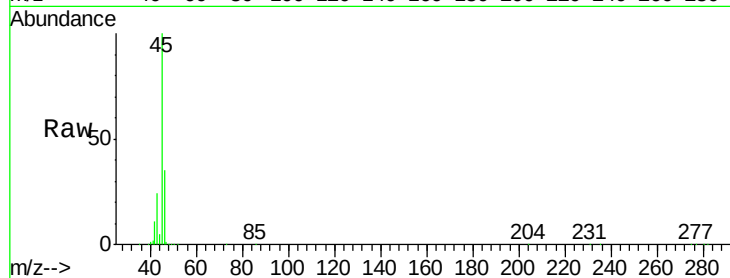
#13
Ethanol
Concen: 77.721 ppbv
RT: 3.59 min Scan# 250
Delta R.T. 0.01 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

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

Tot Ion: 45 Resp: 1069760
Ion Ratio Lower Upper
45 100
46 35.9 15.4 61.4

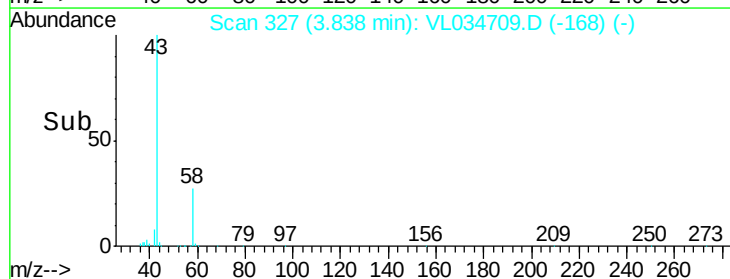
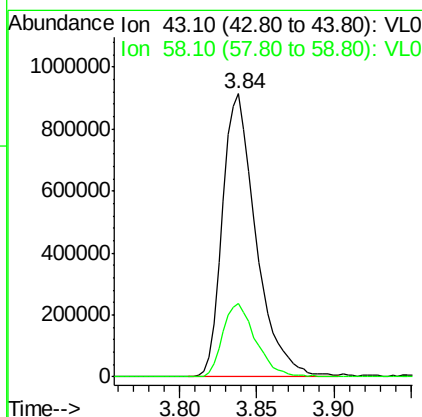
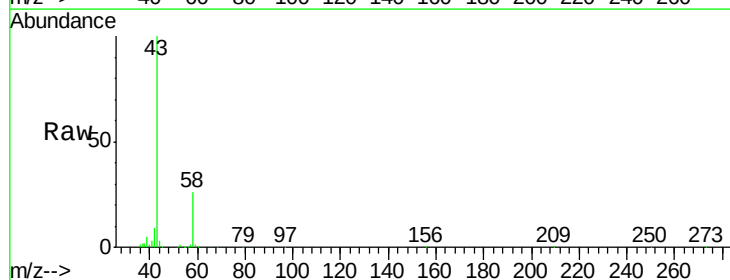
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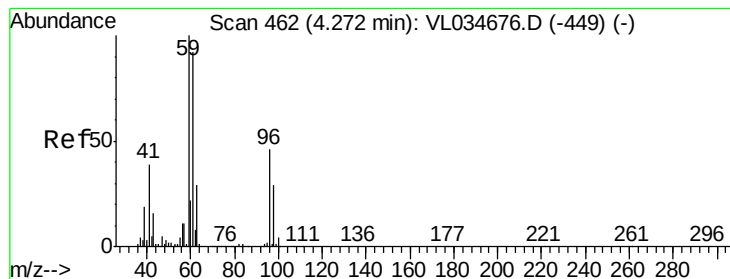
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#15
Acetone
Concen: 12.524 ppbv
RT: 3.84 min Scan# 327
Delta R.T. 0.01 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

Tgt Ion: 43 Resp: 1378398
Ion Ratio Lower Upper
43 100
58 25.6 21.4 32.0





#17

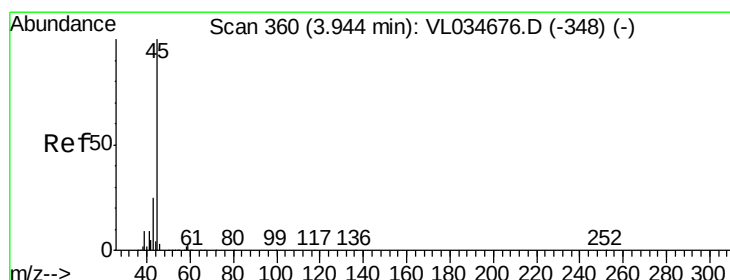
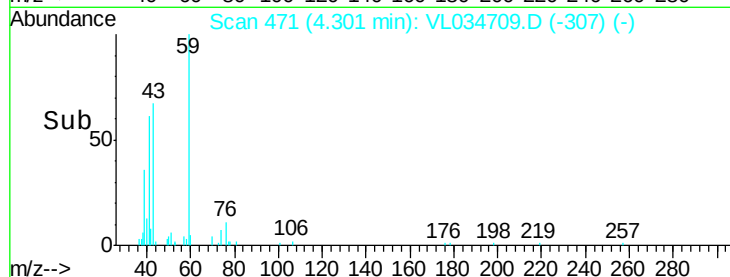
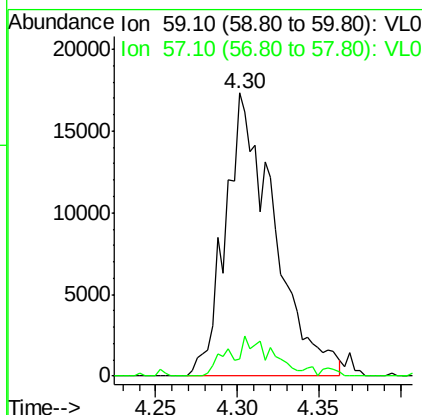
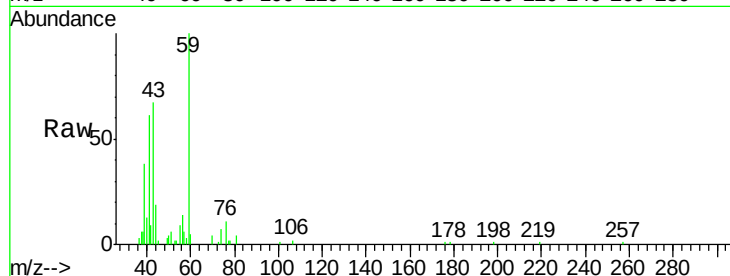
tert-Butyl alcohol
 Concen: 0.427 ppbv m
 RT: 4.30 min Scan# 471
 Delta R.T. 0.03 min
 Lab File: VL034709.D
 Acq: 27 Feb 2020 15:14

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

Tot Ion	59	Resp	36013
Ion Ratio	100	Lower	Upper
57	13.7	8.8	13.2#

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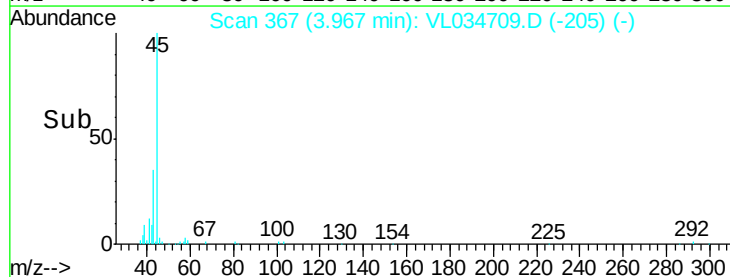
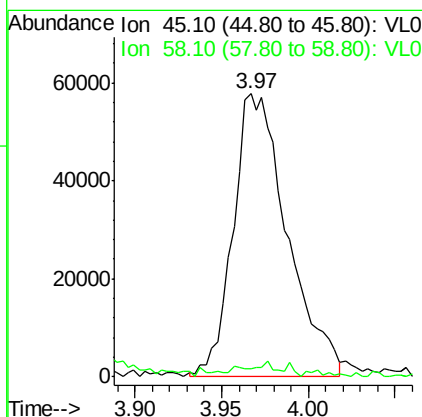
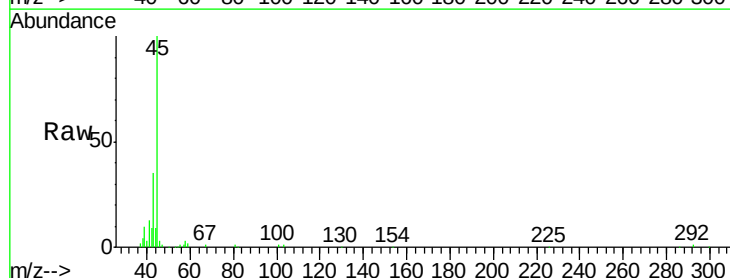
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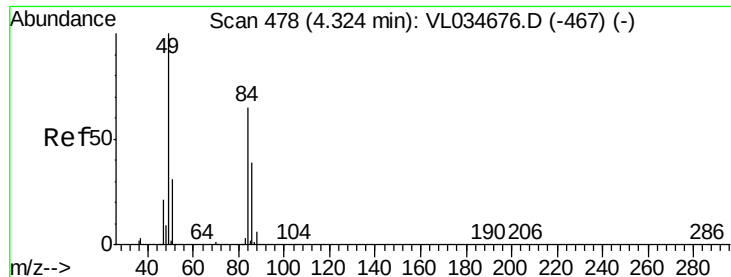


#19

Isopropyl Alcohol
 Concen: 1.921 ppbv m
 RT: 3.97 min Scan# 367
 Delta R.T. 0.02 min
 Lab File: VL034709.D
 Acq: 27 Feb 2020 15:14

Tgt Ion	45	Resp	125902
Ion Ratio	100	Lower	Upper
58	281.4	1.8	2.6#





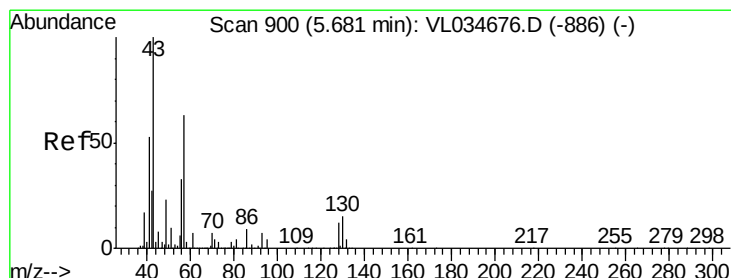
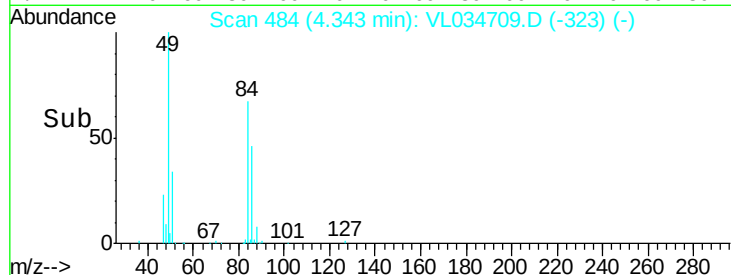
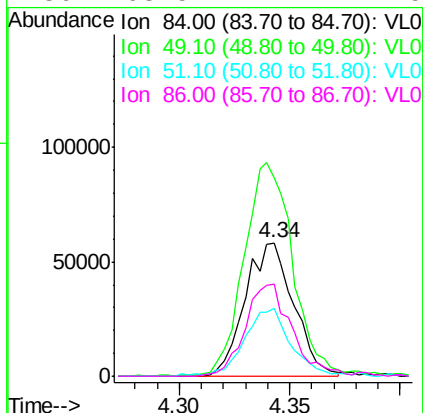
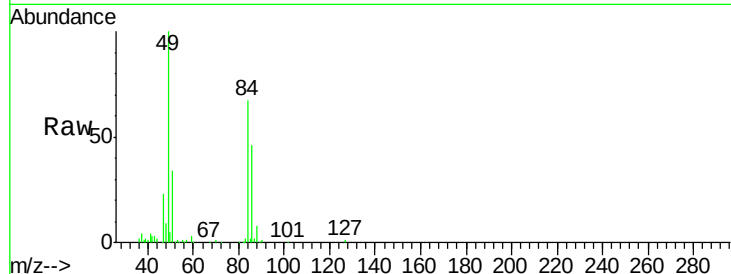
#20
Methylene Chloride
Concen: 2.180 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.02 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

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

Tot Ion:	84	Resp:	89250
Ion	Ratio	Lower	Upper
84	100		
49	147.6	122.8	184.2
51	50.4	38.6	58.0
86	68.5	47.7	71.5

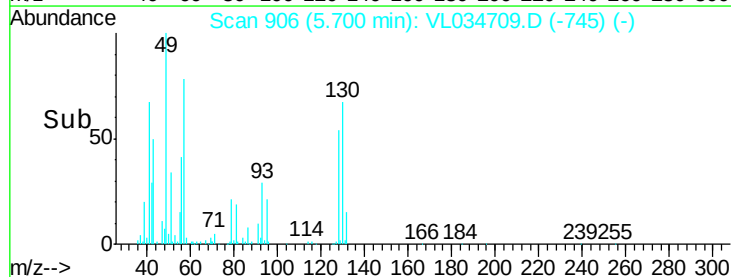
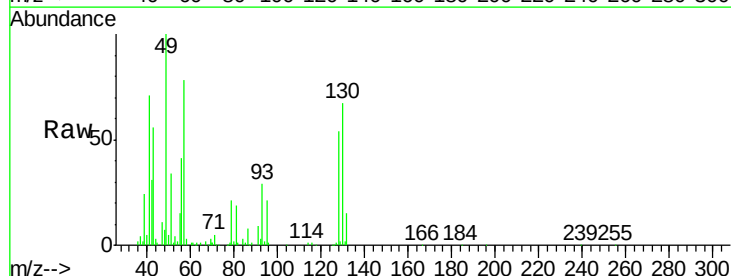
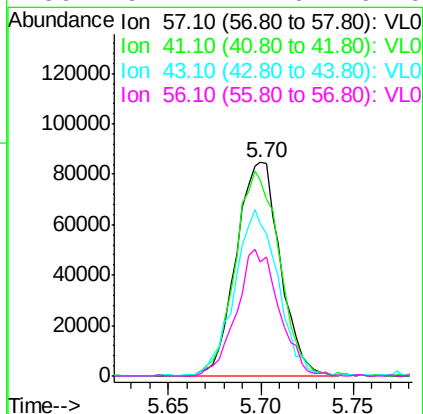
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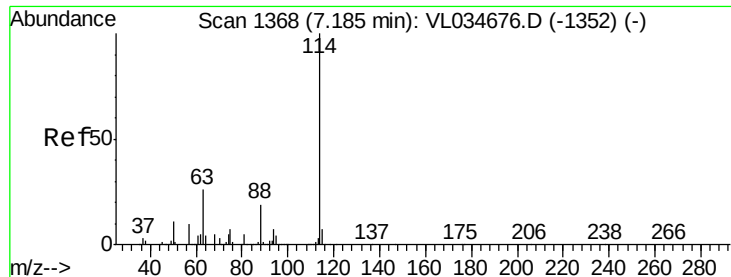
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#26
Hexane
Concen: 1.558 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.02 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

Tgt Ion:	57	Resp:	139875
Ion	Ratio	Lower	Upper
57	100		
41	97.8	70.3	105.5
43	77.4	177.0	265.4#
56	57.4	42.6	64.0





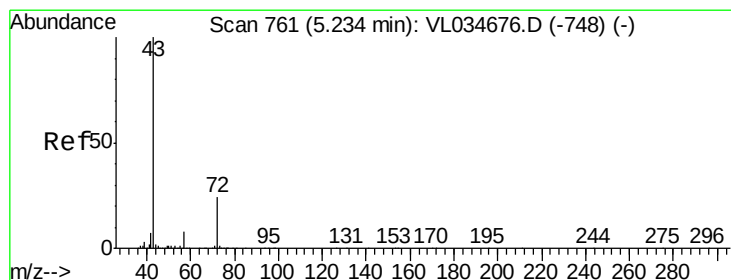
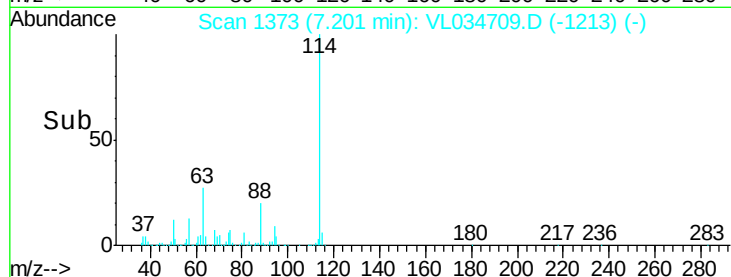
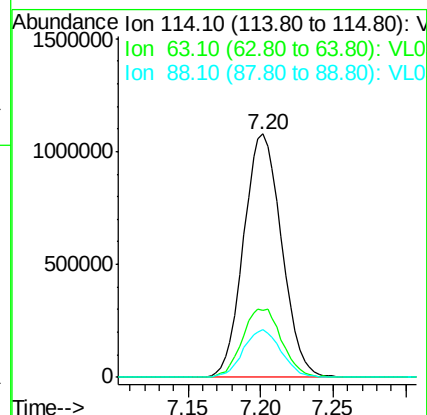
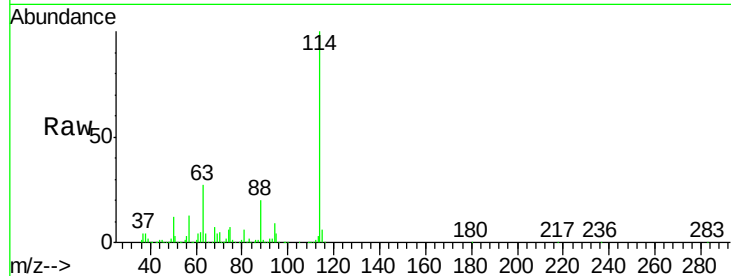
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1373
 Delta R.T. 0.02 min
 Lab File: VL034709.D
 Acq: 27 Feb 2020 15:14

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

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.1	22.9	34.3
88	19.5	15.8	23.6

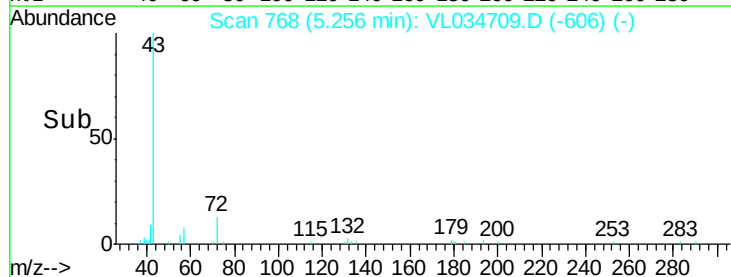
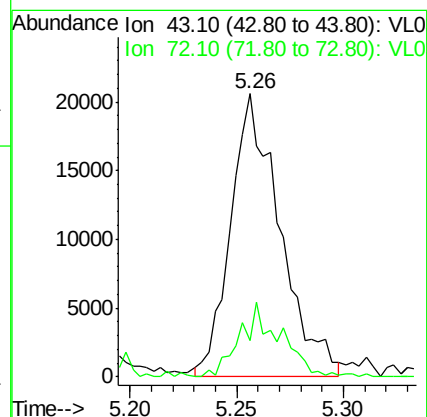
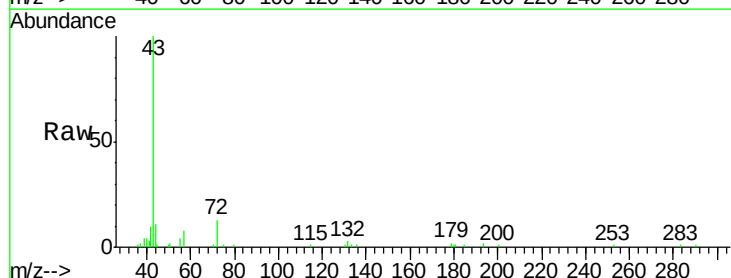
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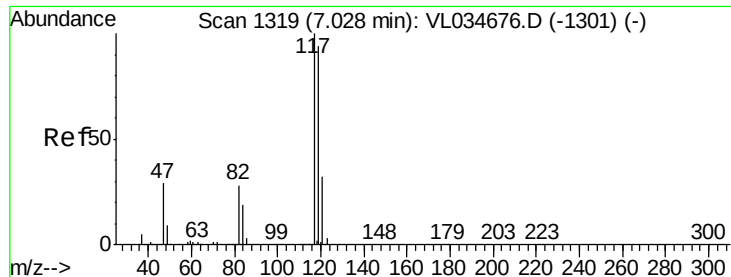
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#34
 2-Butanone
 Concen: 0.268 ppbv m
 RT: 5.26 min Scan# 768
 Delta R.T. 0.02 min
 Lab File: VL034709.D
 Acq: 27 Feb 2020 15:14

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.8	18.2	27.2





#35

Carbon Tetrachloride

Concen: 0.077 ppbv m

RT: 7.04 min Scan# 1324

Delta R.T. 0.02 min

Lab File: VL034709.D

Acq: 27 Feb 2020 15:14

Instrument :

MSVOA_L

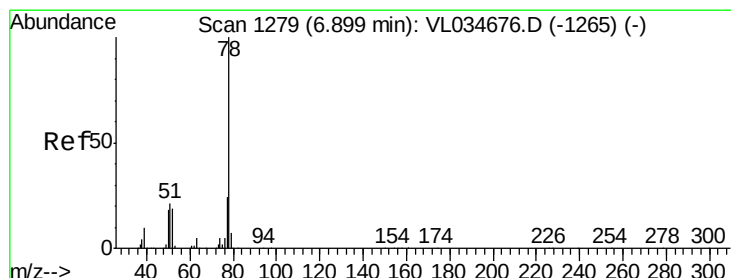
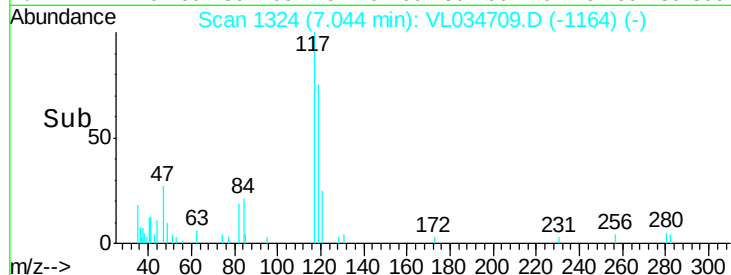
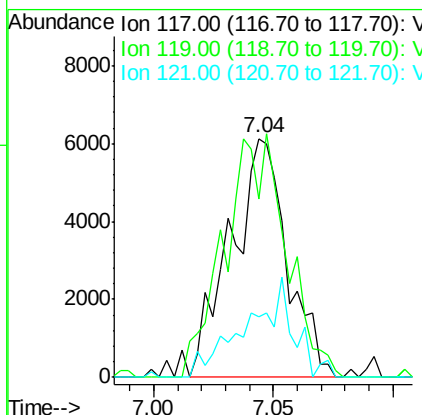
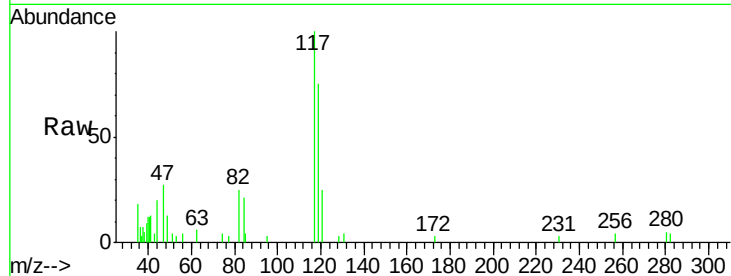
ClientSampleId :

IAS-2-MUSIC-ROOM

Tot Ion	Ratio	Lower	Upper
117	100		
119	74.9	75.5	113.3#
121	25.3	25.4	38.0#

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#36

Benzene

Concen: 0.299 ppbv

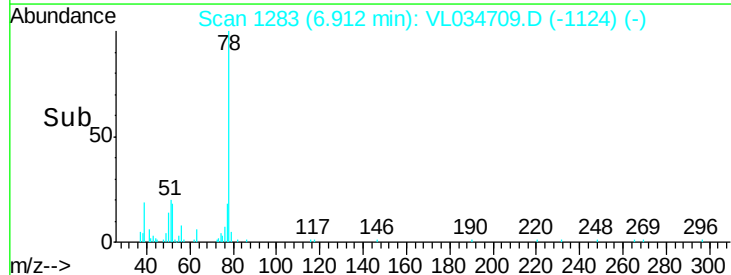
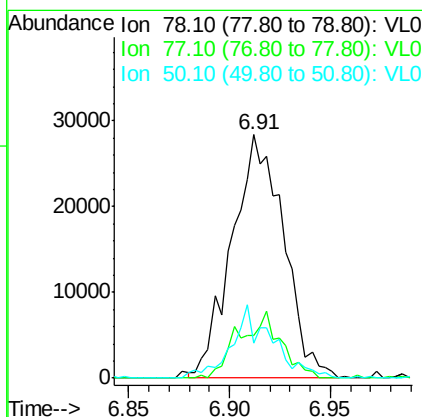
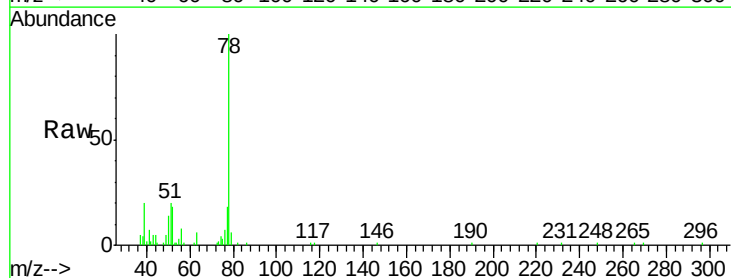
RT: 6.91 min Scan# 1283

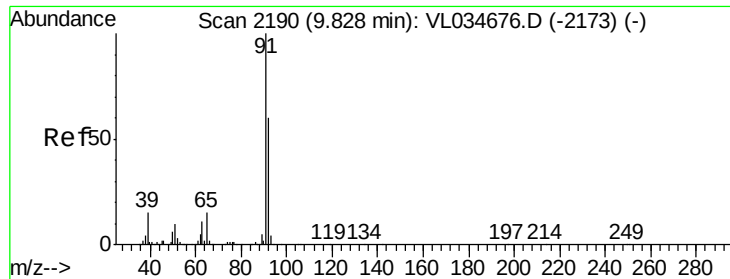
Delta R.T. 0.01 min

Lab File: VL034709.D

Acq: 27 Feb 2020 15:14

Tgt Ion	Ratio	Lower	Upper
78	100		
77	17.6	19.5	29.3#
50	14.1	14.6	21.8#





#53

Toluene

Concen: 3.404 ppbv

RT: 9.85 min Scan# 2196

Delta R.T. 0.02 min

Lab File: VL034709.D

Acq: 27 Feb 2020 15:14

Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-ROOM

Tot Ion: 91 Resp: 615748

Ion Ratio Lower Upper

91 100

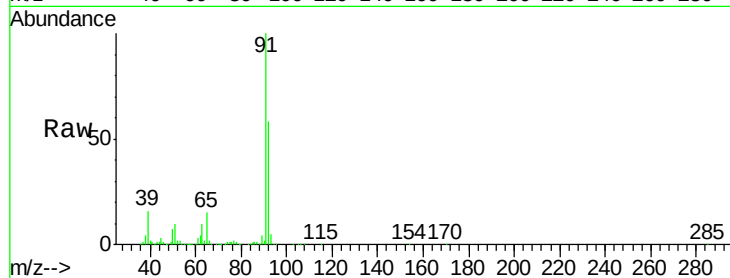
92 60.5 48.5 72.7

Manual Integrations

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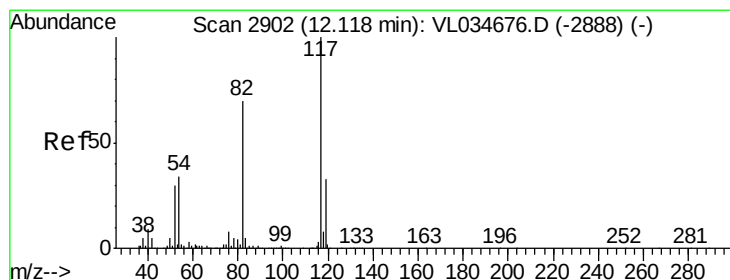
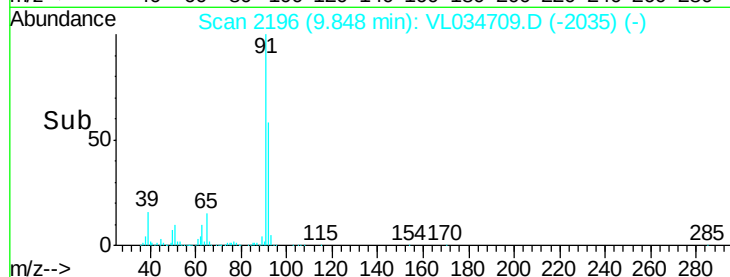
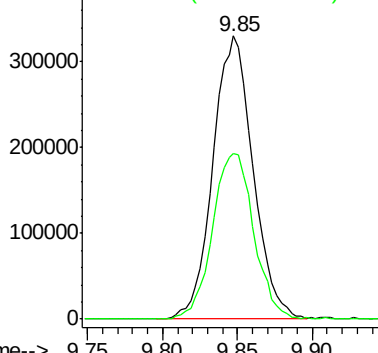
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.14 min Scan# 2908

Delta R.T. 0.02 min

Lab File: VL034709.D

Acq: 27 Feb 2020 15:14

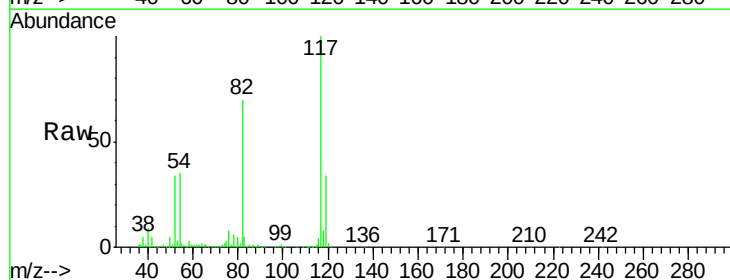
Tgt Ion: 117 Resp: 1948663

Ion Ratio Lower Upper

117 100

82 70.5 54.1 81.1

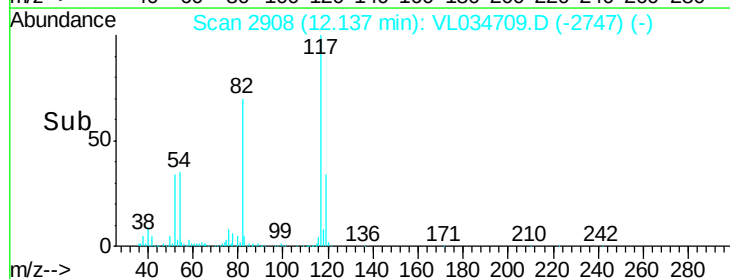
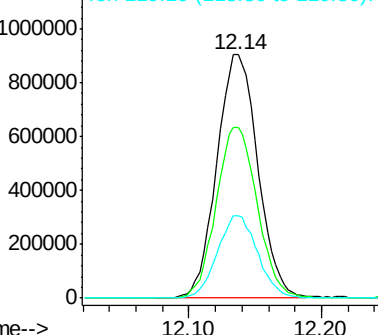
119 33.3 27.6 41.4

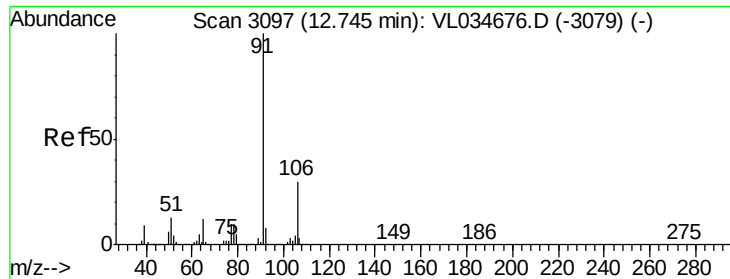


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.123 ppbv m

RT: 12.76 min Scan# 3103

Delta R.T. 0.02 min

Lab File: VL034709.D

Acq: 27 Feb 2020 15:14

Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-ROOM

Tot Ion: 91 Resp: 29059

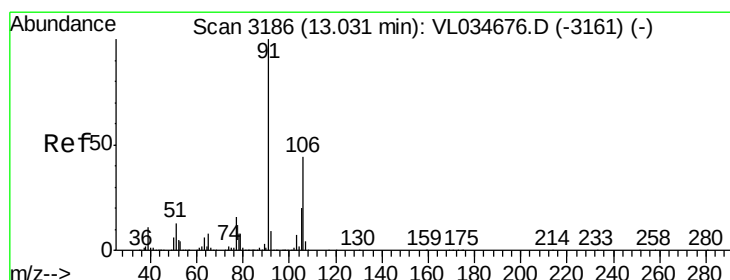
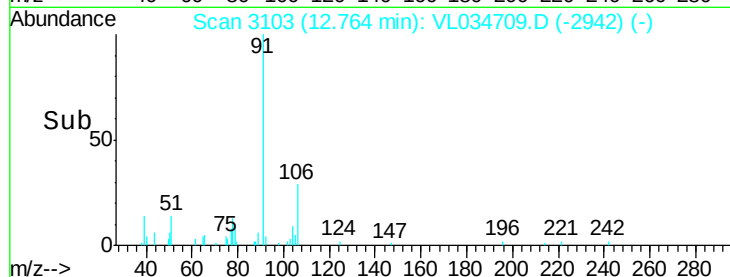
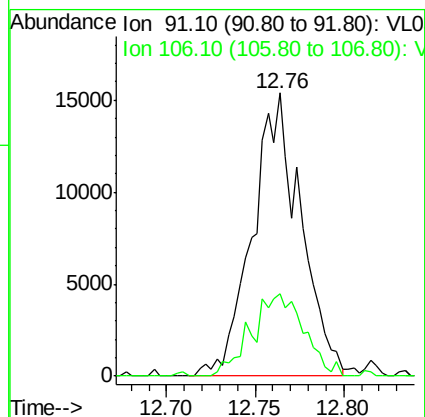
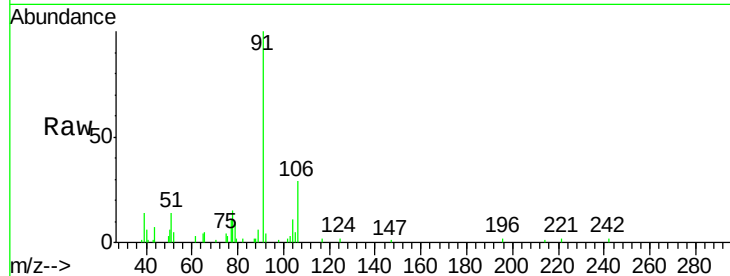
Ion Ratio Lower Upper

91 100

106 29.0 24.0 36.0

Manual Integrations
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#59

m/p-Xylene

Concen: 0.525 ppbv m

RT: 13.03 min Scan# 3185

Delta R.T. -0.00 min

Lab File: VL034709.D

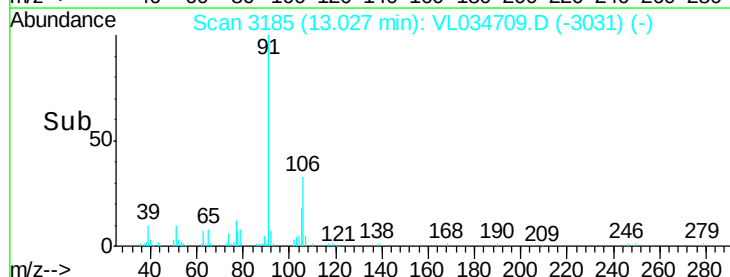
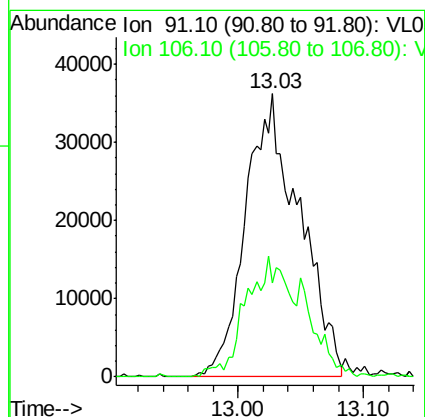
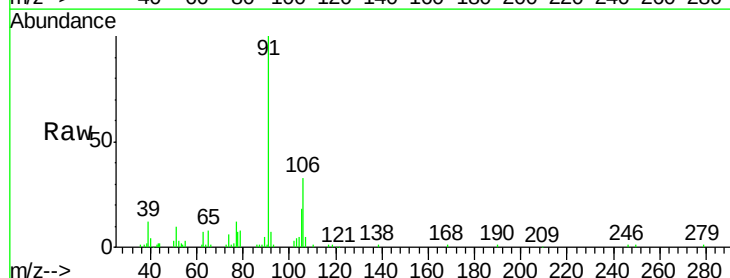
Acq: 27 Feb 2020 15:14

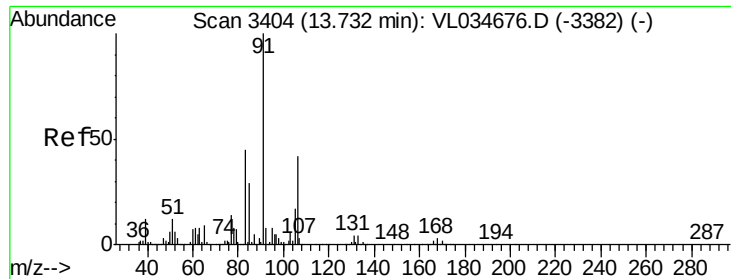
Tgt Ion: 91 Resp: 107897

Ion Ratio Lower Upper

91 100

106 0.0 35.6 53.4#





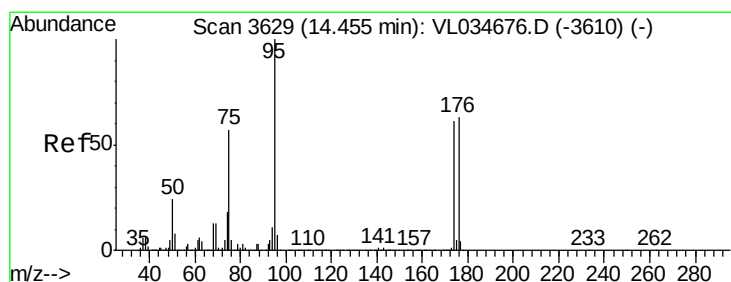
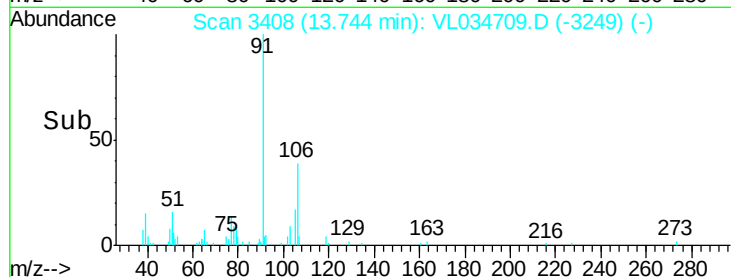
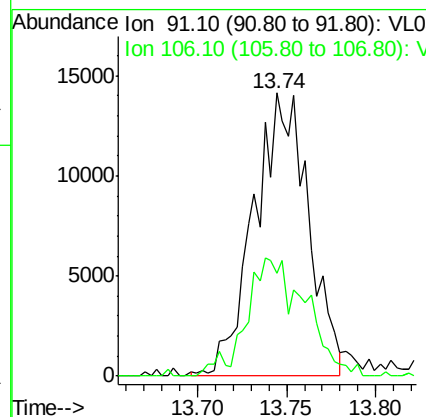
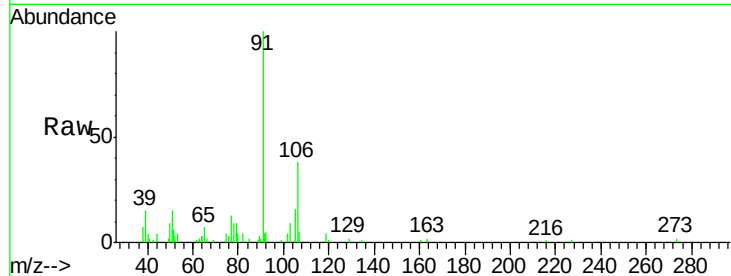
#60
o-Xylene
Concen: 0.147 ppbv m
RT: 13.74 min Scan# 3408
Delta R.T. 0.01 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

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

Tot Ion: 91 Resp: 30095
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.5#

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.339 ppbv
RT: 14.47 min Scan# 3634
Delta R.T. 0.02 min
Lab File: VL034709.D
Acq: 27 Feb 2020 15:14

Tgt Ion: 95 Resp: 1652058
Ion Ratio Lower Upper
95 100
174 62.3 50.7 76.1
175 4.6 3.9 5.9

