

Data File : VL034710.D
Acq On : 27 Feb 2020 15:55
Operator : SY/AP
Sample : L1662-02DUP
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

Quant Time: Feb 28 01:08:15 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 26 06:58:15 2020
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	958189	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.20	114	1956756	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.13	117	1934128	10.00	ppbv	0.02

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.47 95 1630658 10.28 ppbv 0.02
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.80%

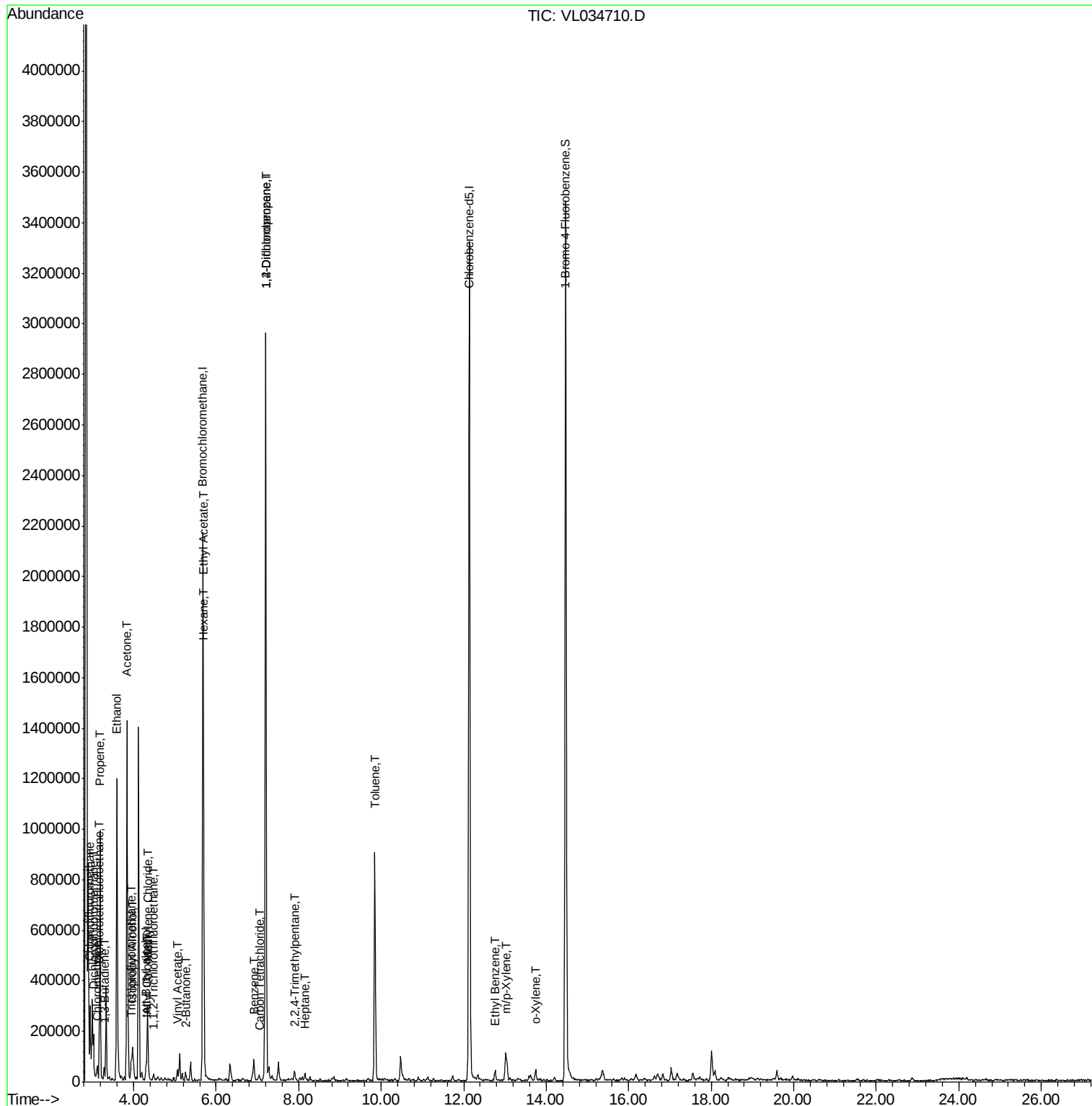
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	99925	0.661	ppbv	95
3) Chlorodifluoromethane	2.94	51	183608	1.776	ppbv #	71
4) Chloromethane	3.11	50	33293	0.575	ppbv #	89
8) Dichlorotetrafluoroethane	3.16	85	3137	0.023	ppbv	98
9) Propene	3.18	41	251248	5.813	ppbv	97
10) Heptane	8.15	43	5456	0.049	ppbv #	46
11) Trichlorofluoromethane	3.94	101	34071	0.257	ppbv	90
12) 1,1,2-Trichlorotrifluoroet	4.48	101	8205	0.088	ppbv	91
13) Ethanol	3.59	45	1171271	85.775	ppbv	97
15) Acetone	3.84	43	1410489	12.918	ppbv	98
16) 1,3-Butadiene	3.28	39	13633	0.270	ppbv #	7
17) tert-Butyl alcohol	4.30	59	12437	0.149	ppbv #	71
19) Isopropyl Alcohol	3.97	45	62659	0.963	ppbv #	94
20) Methylene Chloride	4.34	84	91850	2.262	ppbv	92
21) Allyl Chloride	4.31	41	4704	0.065	ppbv #	54
23) Vinyl Acetate	5.07	43	9206	0.062	ppbv #	48
25) Ethyl Acetate	5.70	43	114955	0.595	ppbv #	83
26) Hexane	5.70	57	142366	1.598	ppbv #	44
34) 2-Butanone	5.26	43	30536	0.248	ppbv	97
35) Carbon Tetrachloride	7.04	117	3818	0.029	ppbv #	48
36) Benzene	6.91	78	52602	0.311	ppbv	96
39) 1,2-Dichloropropane	7.20	63	563822	8.385	ppbv #	23
44) 2,2,4-Trimethylpentane	7.90	57	21600	0.073	ppbv #	56
53) Toluene	9.85	91	644117	3.583	ppbv	97
58) Ethyl Benzene	12.76	91	17493	0.075	ppbv	93
59) m/p-Xylene	13.04	91	32456	0.159	ppbv #	32
60) o-Xylene	13.75	91	29103	0.144	ppbv	97

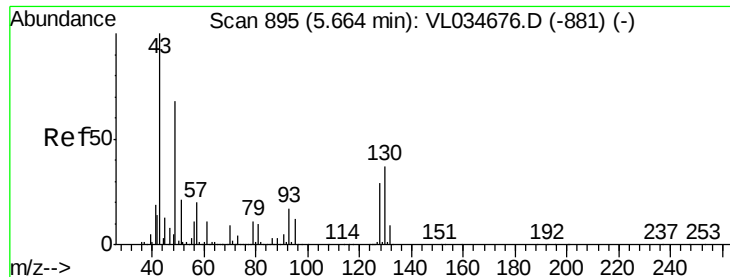
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.01 min

Lab File: VL034710.D

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Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-ROOMDUP

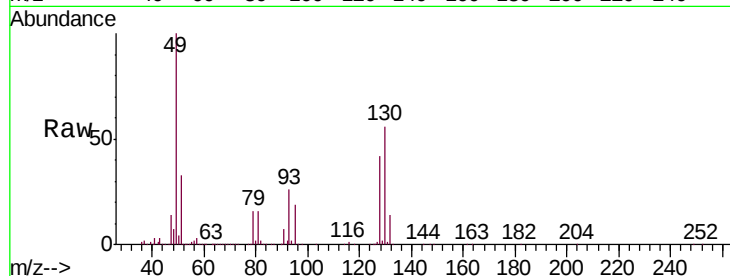
Tgt Ion: 49 Resp: 958189

Ion Ratio Lower Upper

49 100

128 43.7 21.6 65.0

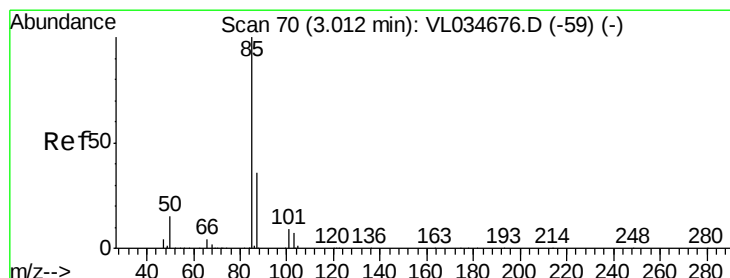
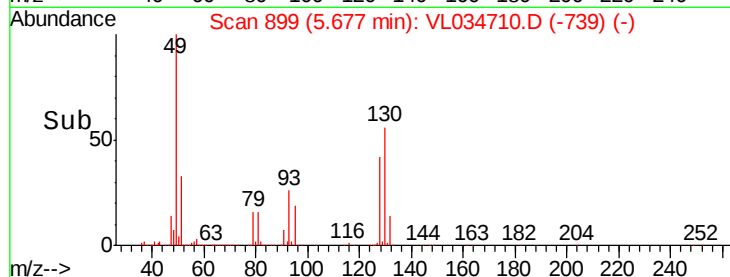
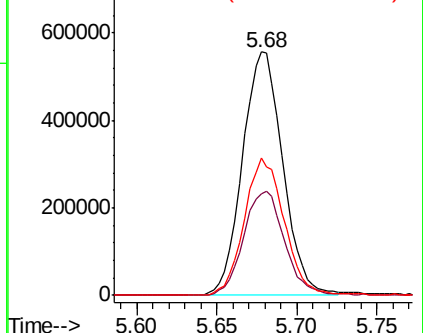
130 56.2 27.7 83.1



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.661 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL034710.D

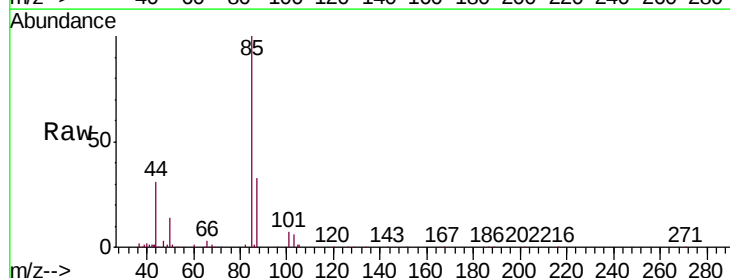
Acq: 27 Feb 2020 15:55

Tgt Ion: 85 Resp: 99925

Ion Ratio Lower Upper

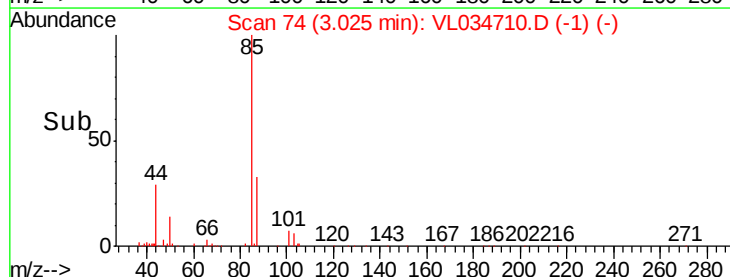
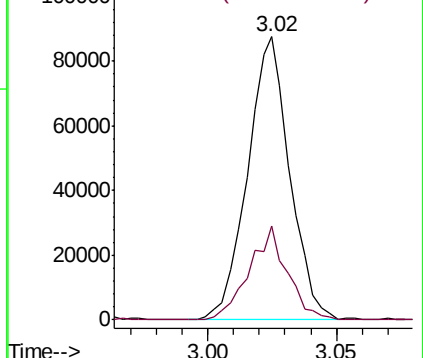
85 100

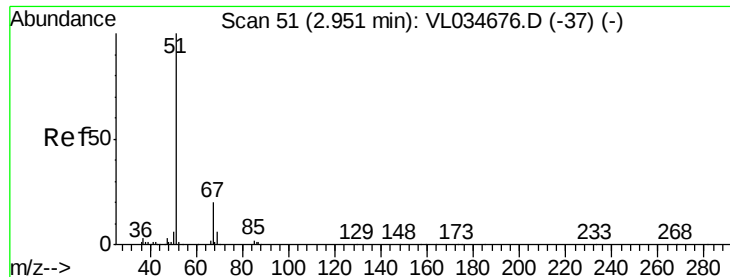
87 33.4 29.2 43.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.776 ppbv

RT: 2.94 min Scan# 47

Delta R.T. -0.01 min

Lab File: VL034710.D

Acq: 27 Feb 2020 15:55

Instrument :

MSVOA_L

ClientSampleId :

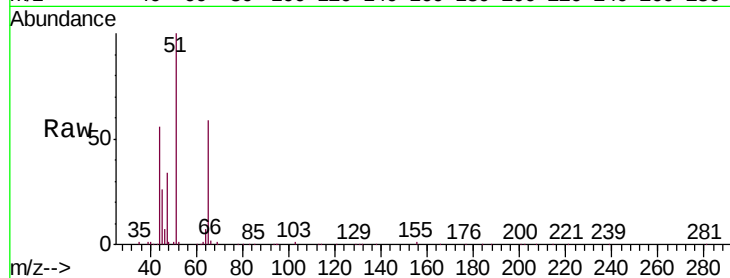
IAS-2-MUSIC-ROOMDUP

Tgt Ion: 51 Resp: 183608

Ion Ratio Lower Upper

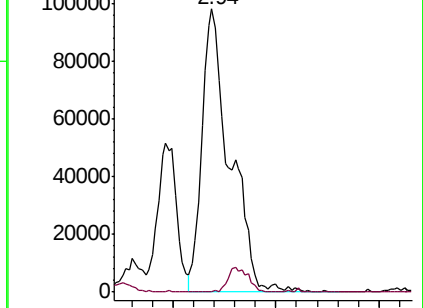
51 100

67 6.4 15.5 23.3#

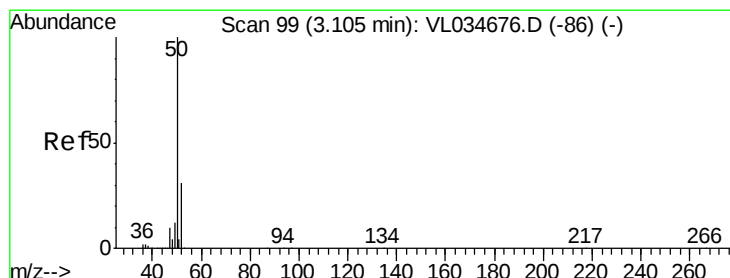
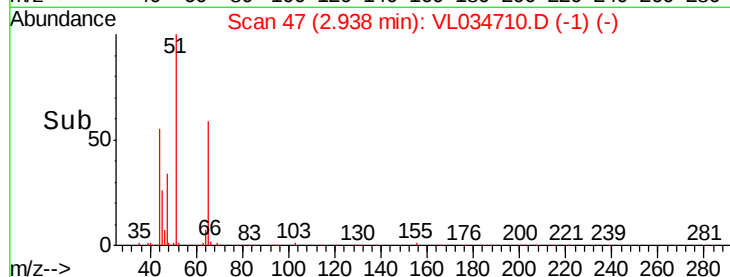


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 0.575 ppbv

RT: 3.11 min Scan# 102

Delta R.T. 0.01 min

Lab File: VL034710.D

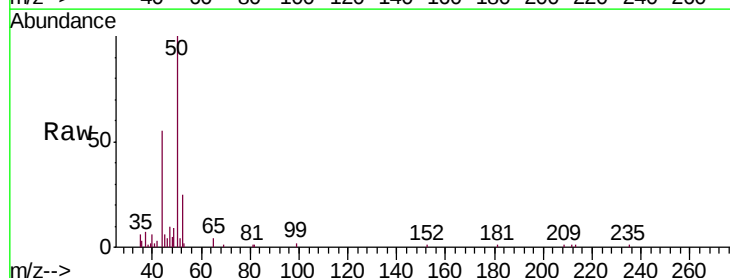
Acq: 27 Feb 2020 15:55

Tgt Ion: 50 Resp: 33293

Ion Ratio Lower Upper

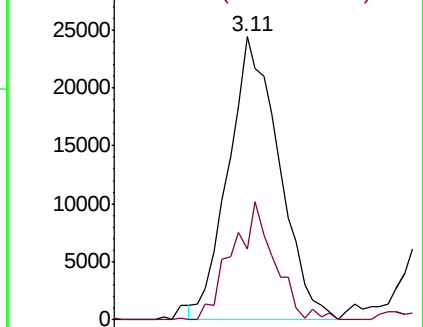
50 100

52 24.9 25.0 37.4#

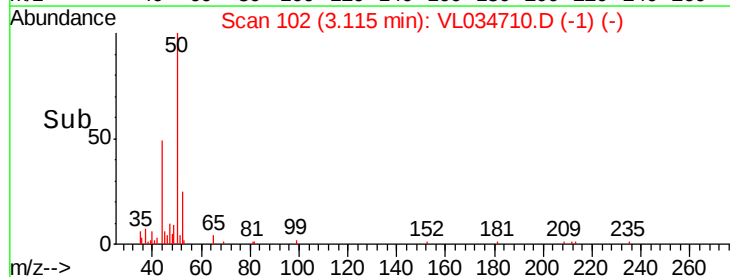


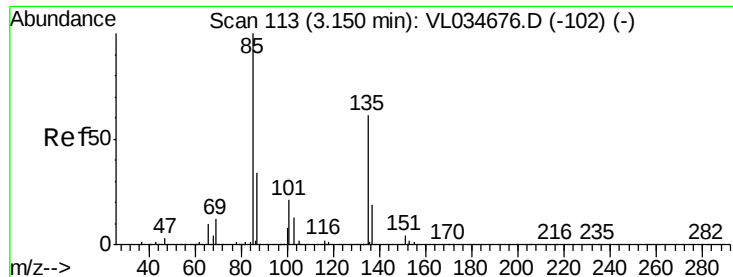
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->





#8

Dichlorotetrafluoroethane

Concen: 0.023 ppbv

RT: 3.16 min Scan# 116

Delta R.T. 0.01 min

Lab File: VL034710.D

Acq: 27 Feb 2020 15:55

Instrument :

MSVOA_L

ClientSampleId :

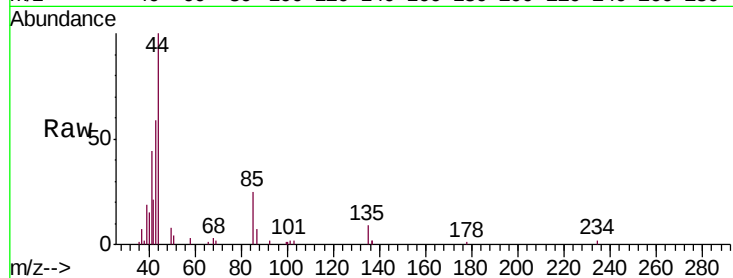
IAS-2-MUSIC-ROOMDUP

Tgt Ion: 85 Resp: 3137

Ion Ratio Lower Upper

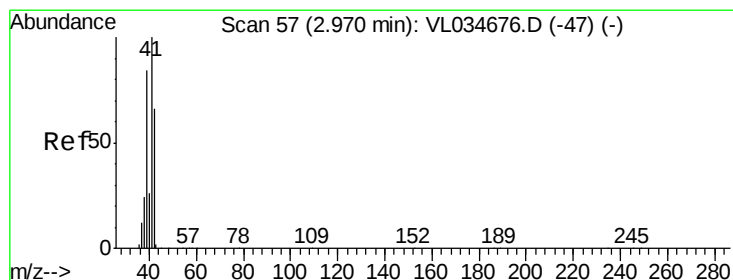
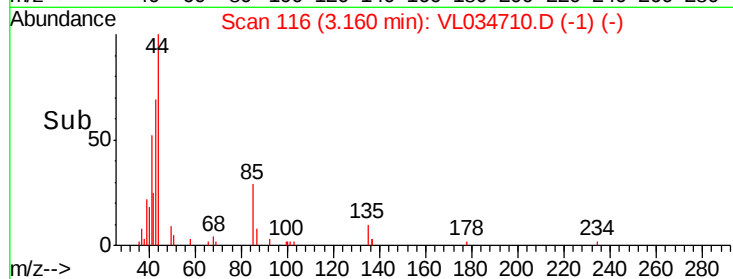
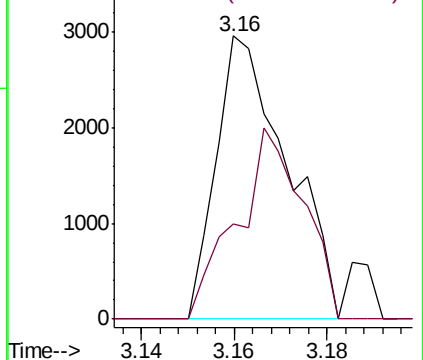
85 100

135 63.8 49.8 74.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 5.813 ppbv

RT: 3.18 min Scan# 123

Delta R.T. 0.21 min

Lab File: VL034710.D

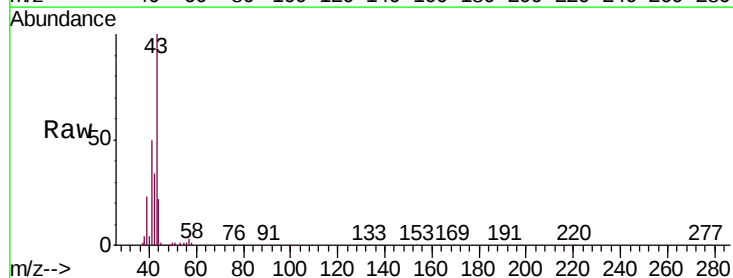
Acq: 27 Feb 2020 15:55

Tgt Ion: 41 Resp: 251248

Ion Ratio Lower Upper

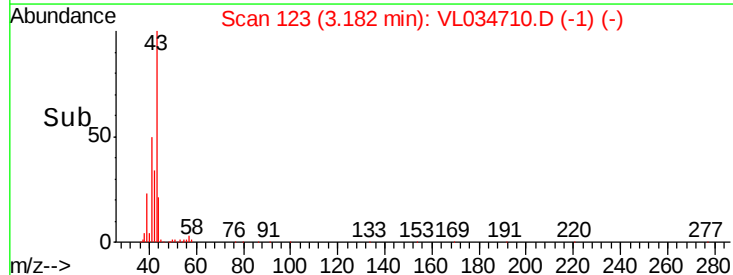
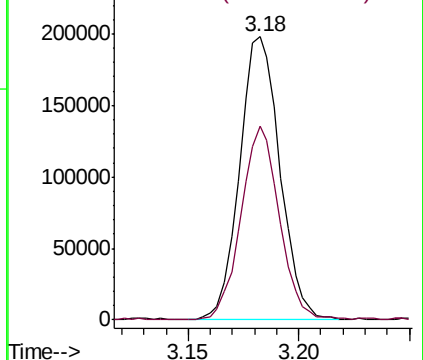
41 100

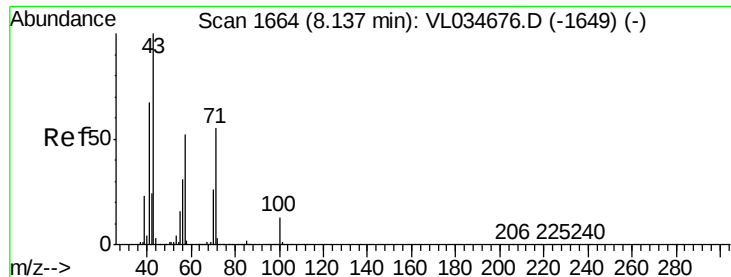
42 65.8 54.9 82.3



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

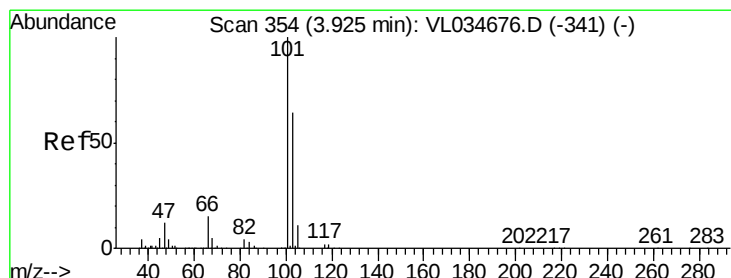
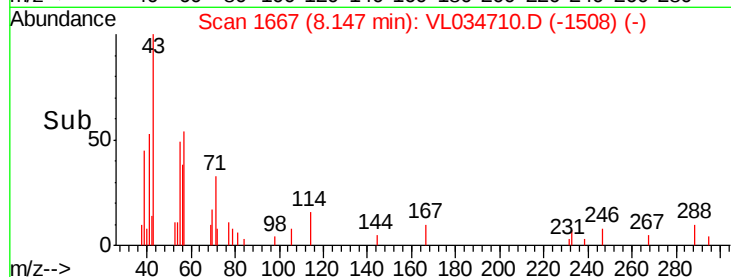
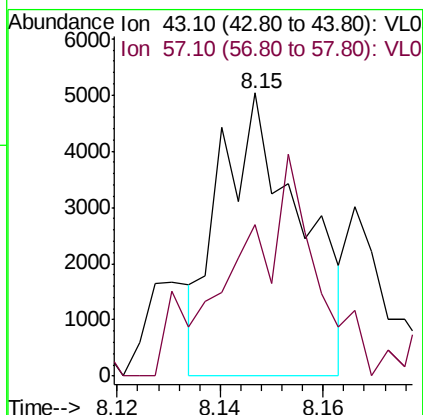
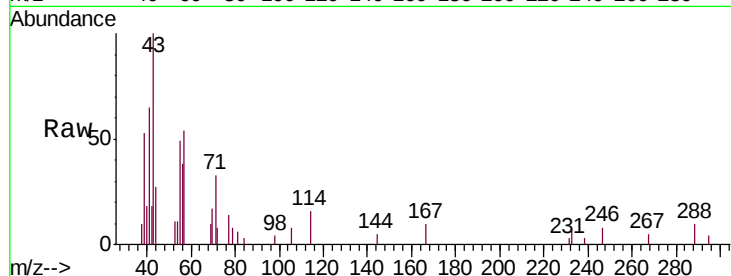




#10
 Heptane
 Concen: 0.049 ppbv
 RT: 8.15 min Scan# 1667
 Delta R.T. 0.01 min
 Lab File: VL034710.D
 Acq: 27 Feb 2020 15:55

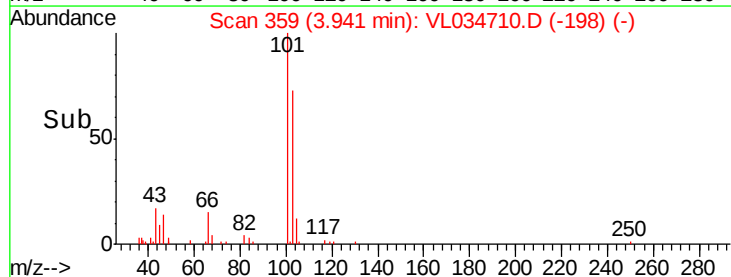
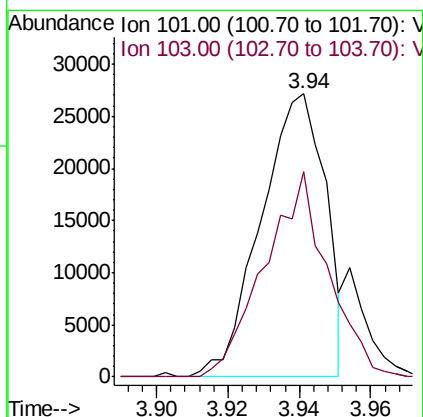
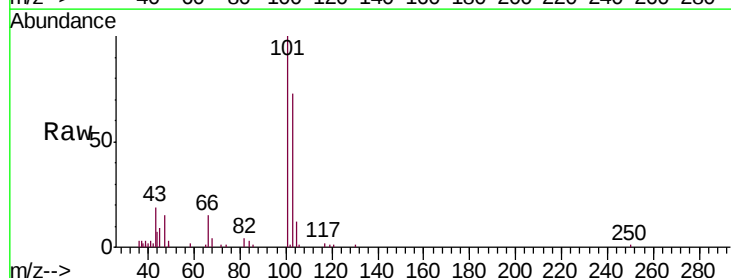
Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-2-MUSIC-ROOMDUP

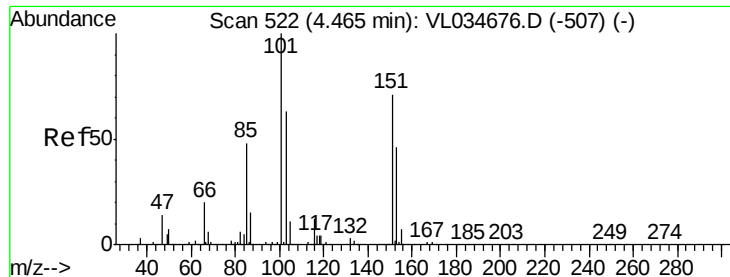
Tgt Ion: 43 Resp: 5456
 Ion Ratio Lower Upper
 43 100
 57 88.9 41.0 61.6#



#11
 Trichlorofluoromethane
 Concen: 0.257 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. 0.02 min
 Lab File: VL034710.D
 Acq: 27 Feb 2020 15:55

Tgt Ion: 101 Resp: 34071
 Ion Ratio Lower Upper
 101 100
 103 71.9 51.2 76.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.088 ppbv

RT: 4.48 min Scan# 527

Delta R.T. 0.02 min

Lab File: VL034710.D

Acq: 27 Feb 2020 15:55

Instrument :

MSVOA_L

ClientSampleId :

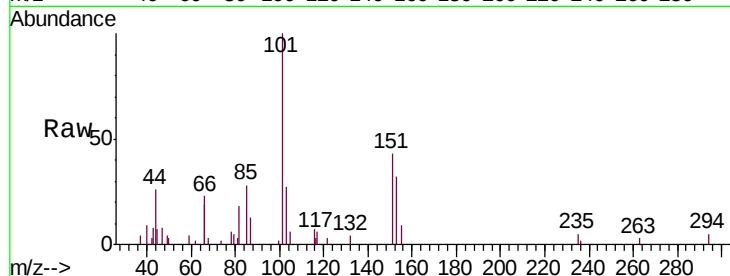
IAS-2-MUSIC-ROOMDUP

Tgt Ion:101 Resp: 8205

Ion Ratio Lower Upper

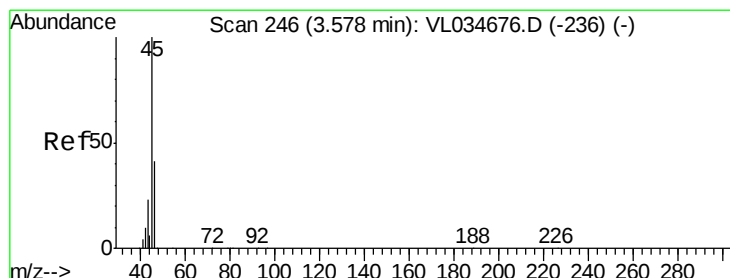
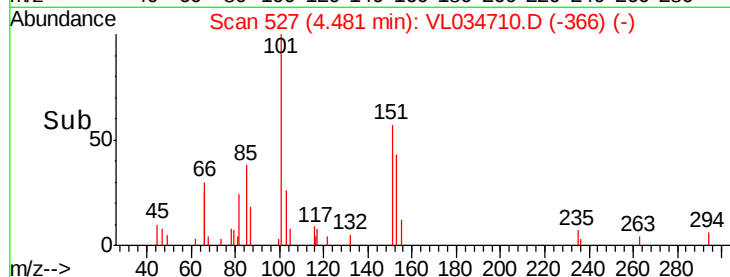
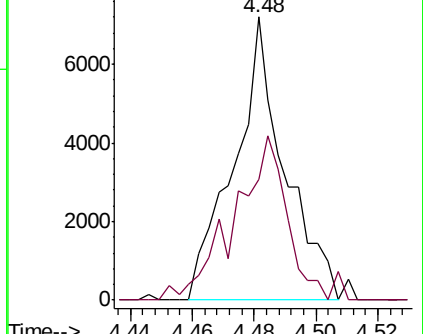
101 100

151 62.1 55.8 83.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 85.775 ppbv

RT: 3.59 min Scan# 250

Delta R.T. 0.01 min

Lab File: VL034710.D

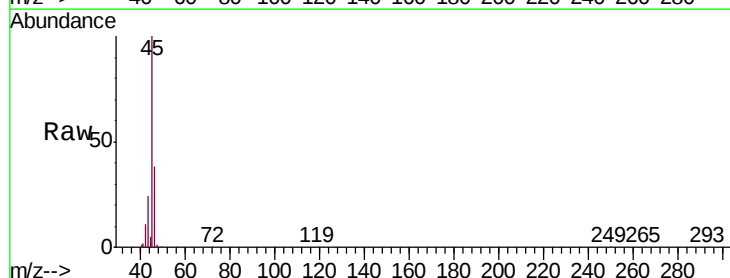
Acq: 27 Feb 2020 15:55

Tgt Ion: 45 Resp: 1171271

Ion Ratio Lower Upper

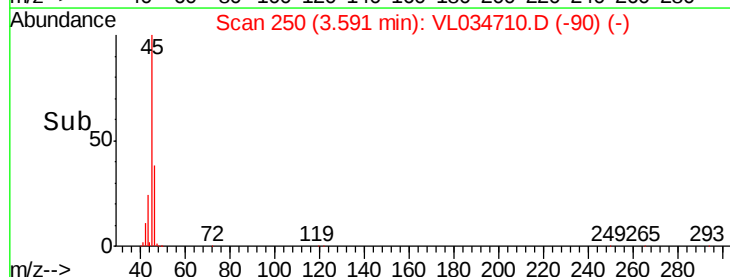
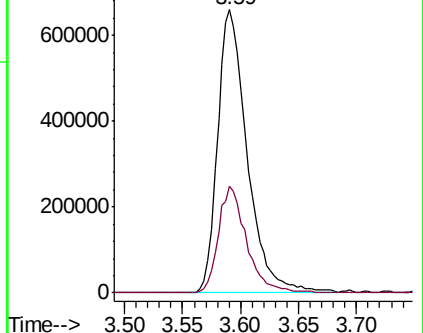
45 100

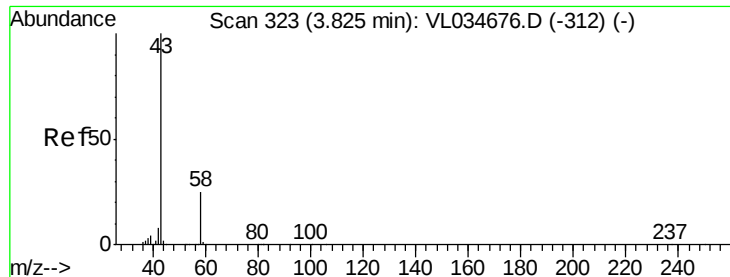
46 36.4 15.4 61.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 12.918 ppbv

RT: 3.84 min Scan# 326

Delta R.T. 0.01 min

Lab File: VL034710.D

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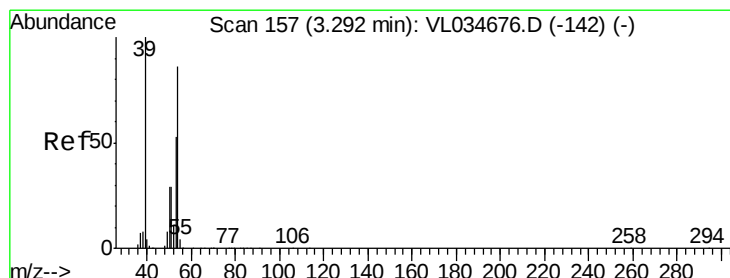
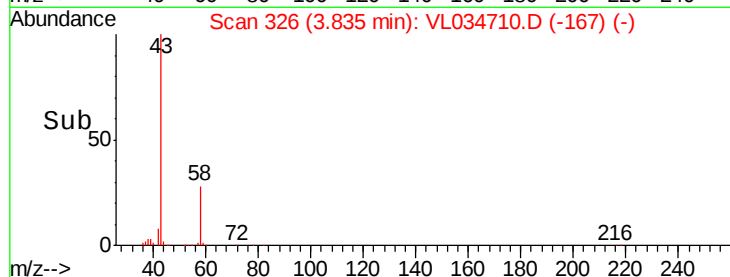
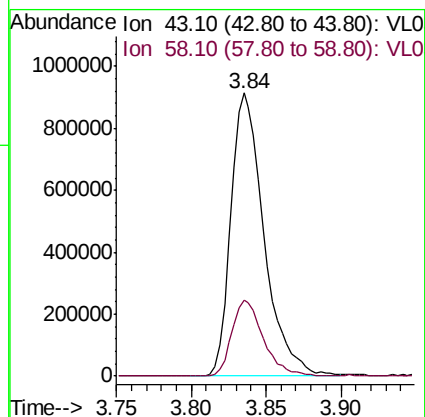
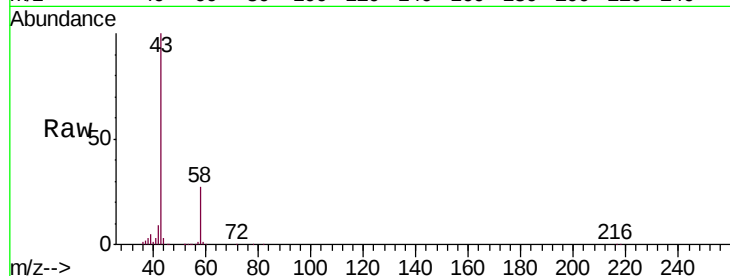
IAS-2-MUSIC-ROOMDUP

Tgt Ion: 43 Resp: 1410489

Ion Ratio Lower Upper

43 100

58 25.9 21.4 32.0



#16

1,3-Butadiene

Concen: 0.270 ppbv

RT: 3.28 min Scan# 154

Delta R.T. -0.01 min

Lab File: VL034710.D

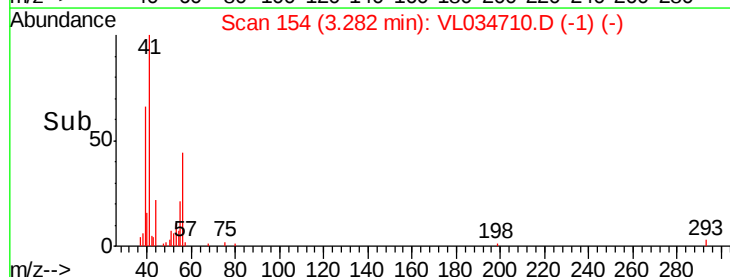
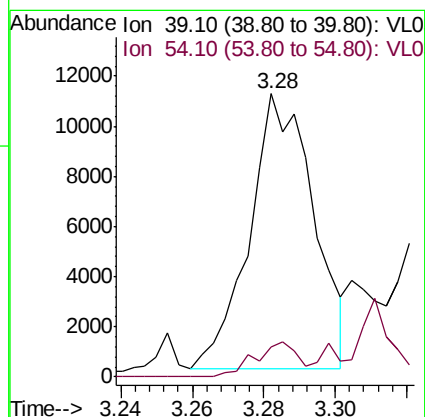
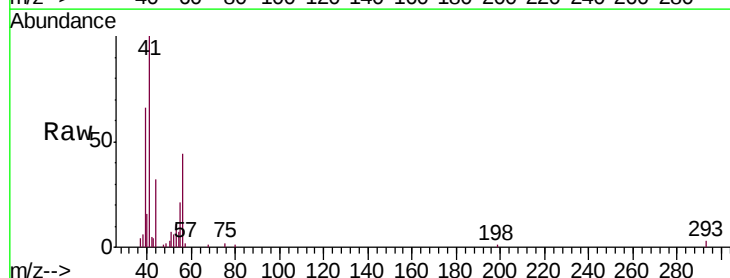
Acq: 27 Feb 2020 15:55

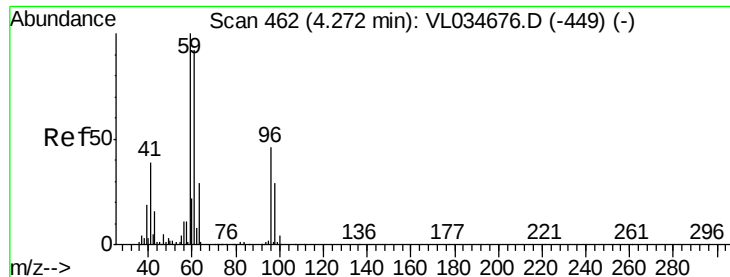
Tgt Ion: 39 Resp: 13633

Ion Ratio Lower Upper

39 100

54 0.0 67.0 100.6#

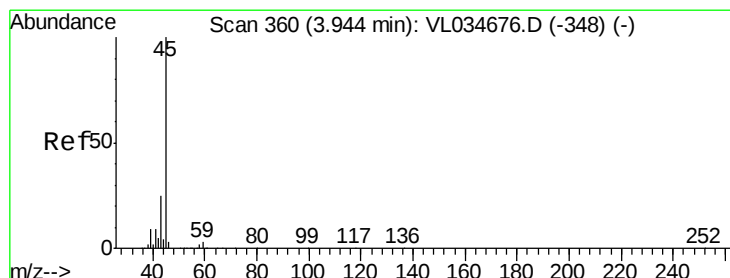
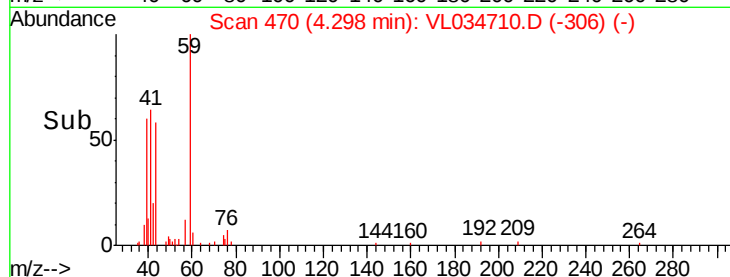
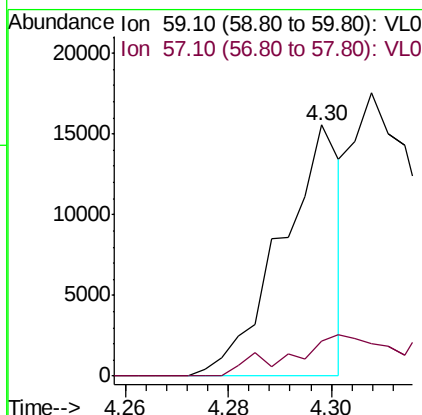
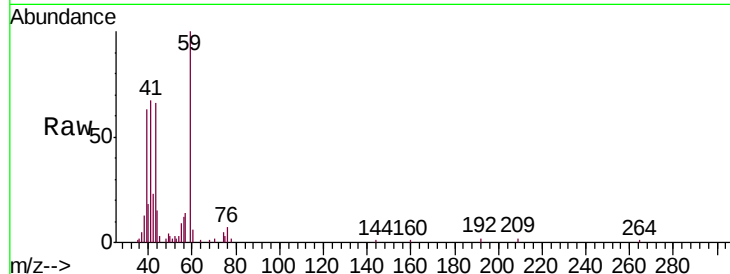




#17
 tert-Butyl alcohol
 Concen: 0.149 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. 0.03 min
 Lab File: VL034710.D
 Acq: 27 Feb 2020 15:55

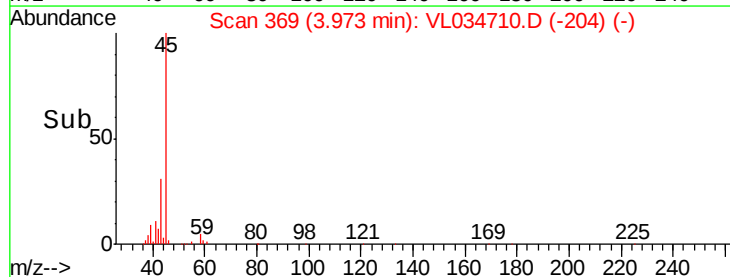
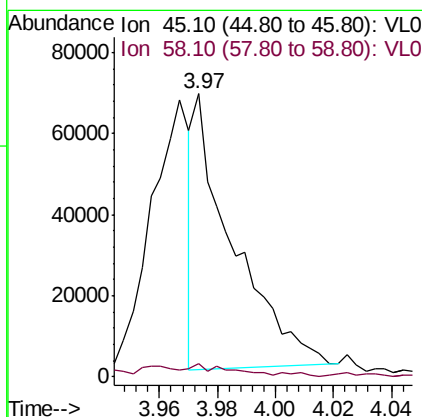
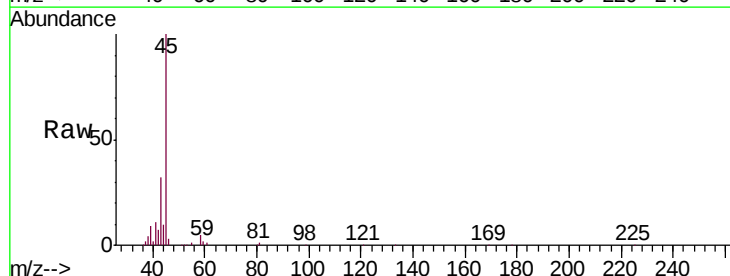
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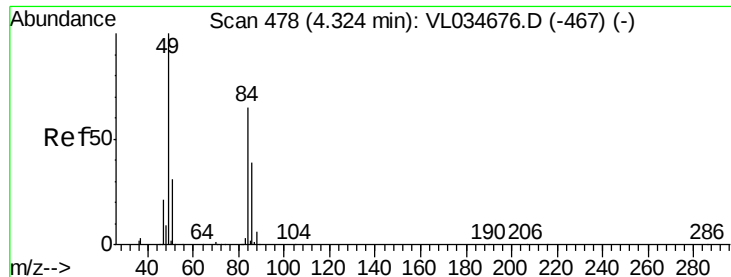
Tgt Ion: 59 Resp: 12437
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.8 13.2#



#19
 Isopropyl Alcohol
 Concen: 0.963 ppbv
 RT: 3.97 min Scan# 369
 Delta R.T. 0.03 min
 Lab File: VL034710.D
 Acq: 27 Feb 2020 15:55

Tgt Ion: 45 Resp: 62659
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.8 2.6#

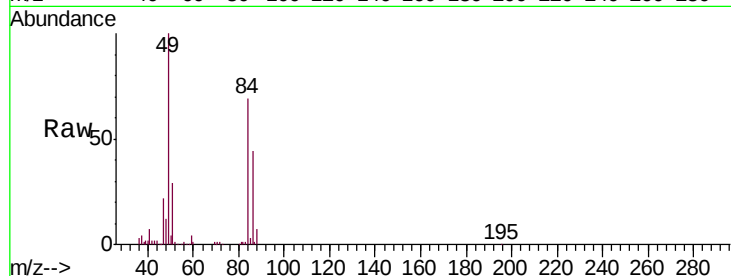




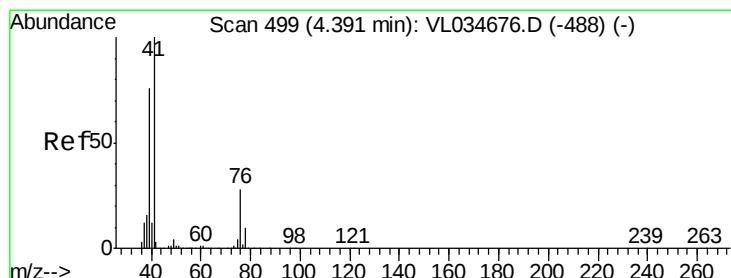
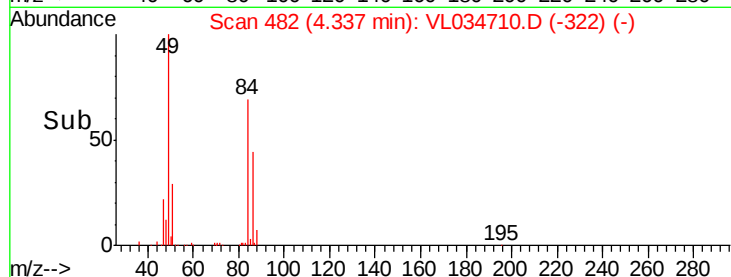
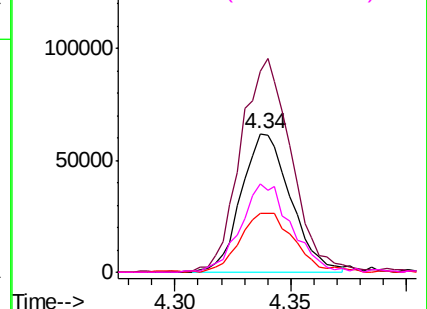
#20
Methylene Chloride
Concen: 2.262 ppbv
RT: 4.34 min Scan# 482
Delta R.T. 0.01 min
Lab File: VL034710.D
Acq: 27 Feb 2020 15:55

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

Tgt Ion:	84	Resp:	91850
Ion	Ratio	Lower	Upper
84	100		
49	143.3	122.8	184.2
51	41.2	38.6	58.0
86	62.9	47.7	71.5

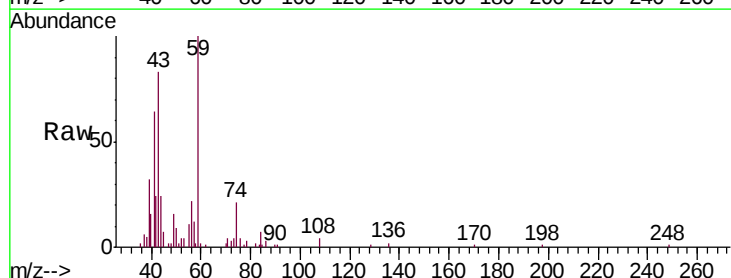


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

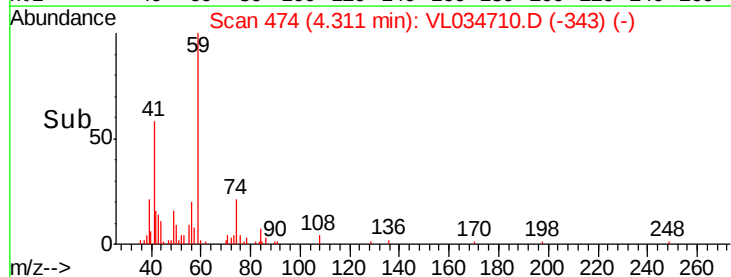
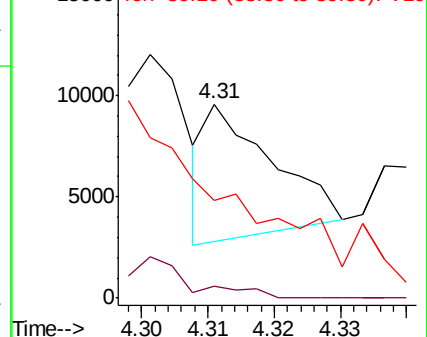


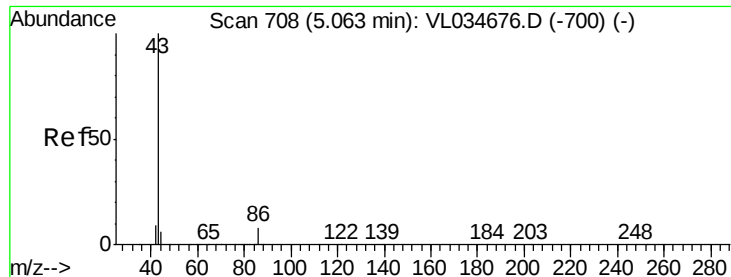
#21
Allyl Chloride
Concen: 0.065 ppbv
RT: 4.31 min Scan# 474
Delta R.T. -0.08 min
Lab File: VL034710.D
Acq: 27 Feb 2020 15:55

Tgt Ion:	41	Resp:	4704
Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.8	34.2#
39	114.6	61.7	92.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 0.062 ppbv

RT: 5.07 min Scan# 711

Delta R.T. 0.01 min

Lab File: VL034710.D

Acq: 27 Feb 2020 15:55

Instrument :

MSVOA_L

ClientSampleId :

IAS-2-MUSIC-ROOMDUP

Tgt Ion: 43 Resp: 9206

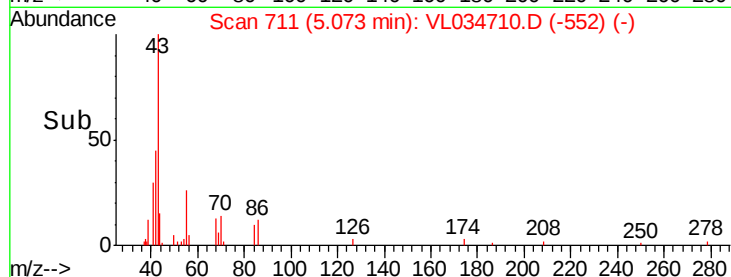
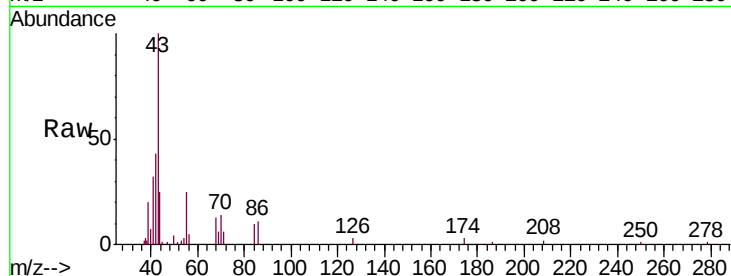
Ion Ratio Lower Upper

43 100

86 20.2 6.0 9.0#

42 40.5 8.0 12.0#

44 11.8 4.5 6.7#

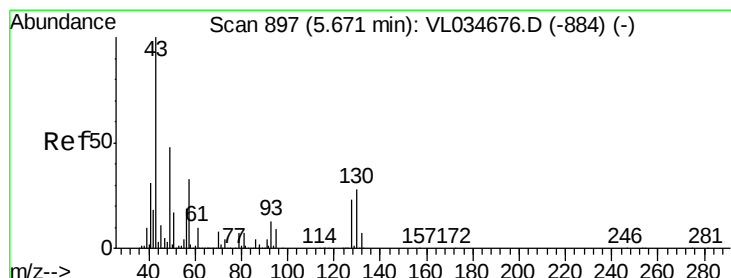
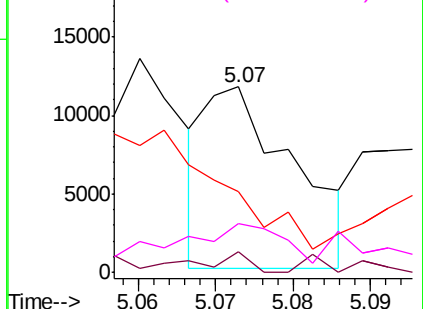


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.595 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.03 min

Lab File: VL034710.D

Acq: 27 Feb 2020 15:55

Tgt Ion: 43 Resp: 114955

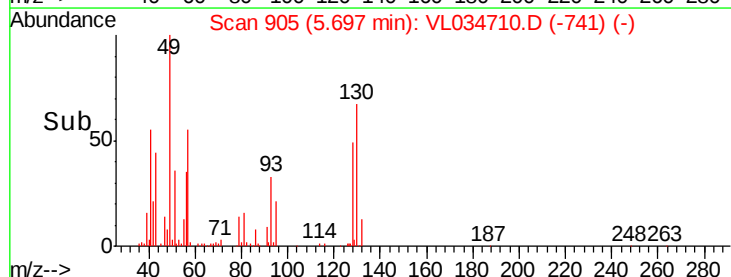
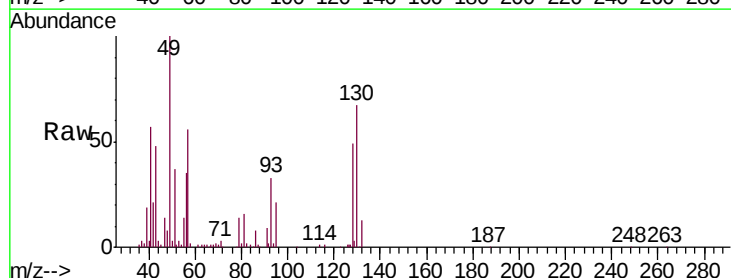
Ion Ratio Lower Upper

43 100

45 4.5 8.2 12.4#

61 1.9 7.8 11.6#

70 3.0 6.1 9.1#

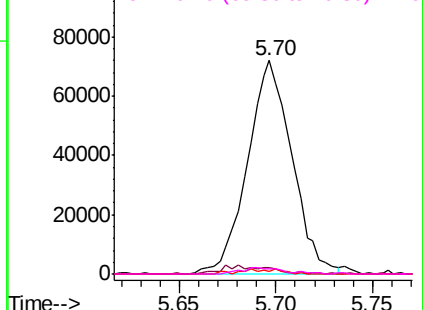


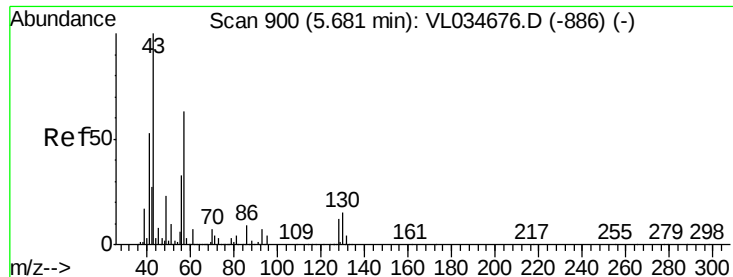
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0





#26

Hexane

Concen: 1.598 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.02 min

Lab File: VL034710.D

Acq: 27 Feb 2020 15:55

Instrument :

MSVOA_L

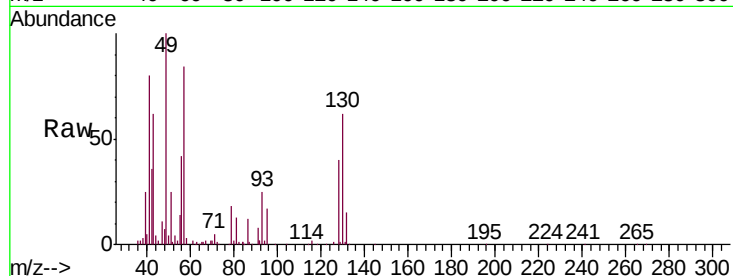
ClientSampleId :

IAS-2-MUSIC-ROOMDUP

Tgt Ion: 57 Resp: 142366

Ion Ratio Lower Upper

57	100		
41	97.8	70.3	105.5
43	81.7	177.0	265.4#
56	56.7	42.6	64.0

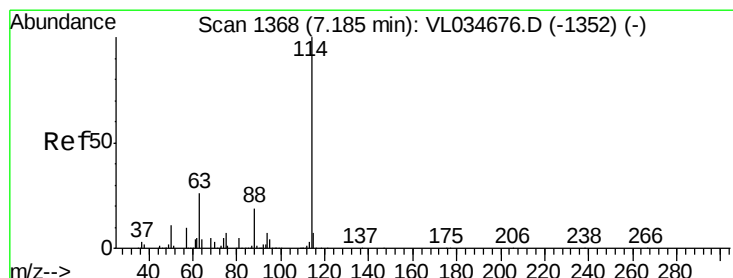
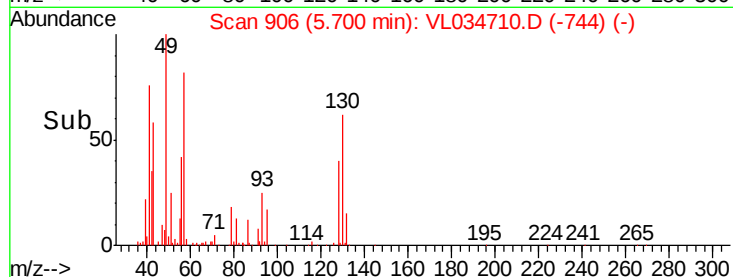
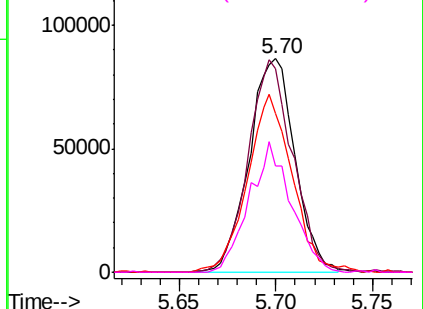


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1373

Delta R.T. 0.02 min

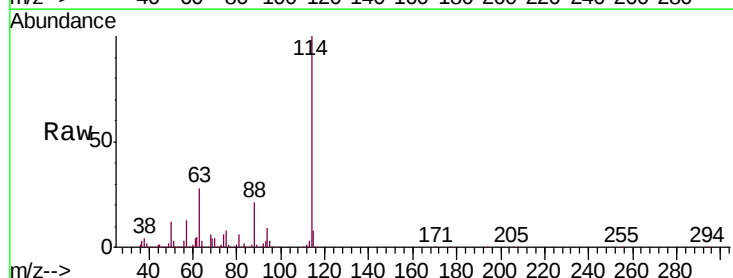
Lab File: VL034710.D

Acq: 27 Feb 2020 15:55

Tgt Ion: 114 Resp: 1956756

Ion Ratio Lower Upper

114	100		
63	29.0	22.9	34.3
88	19.8	15.8	23.6



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

