

Data File : VL034723.D
Acq On : 28 Feb 2020 00:35
Operator : SY/AP
Sample : L1661-02DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SG-2-MUSIC-RMDL

Quant Time: Feb 28 03:14:33 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 28 01:15:02 2020
QLast Update : Fri Feb 28 01:15:02 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1152139	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2397491	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2373752	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.46 95 1958276 10.06 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 100.60%

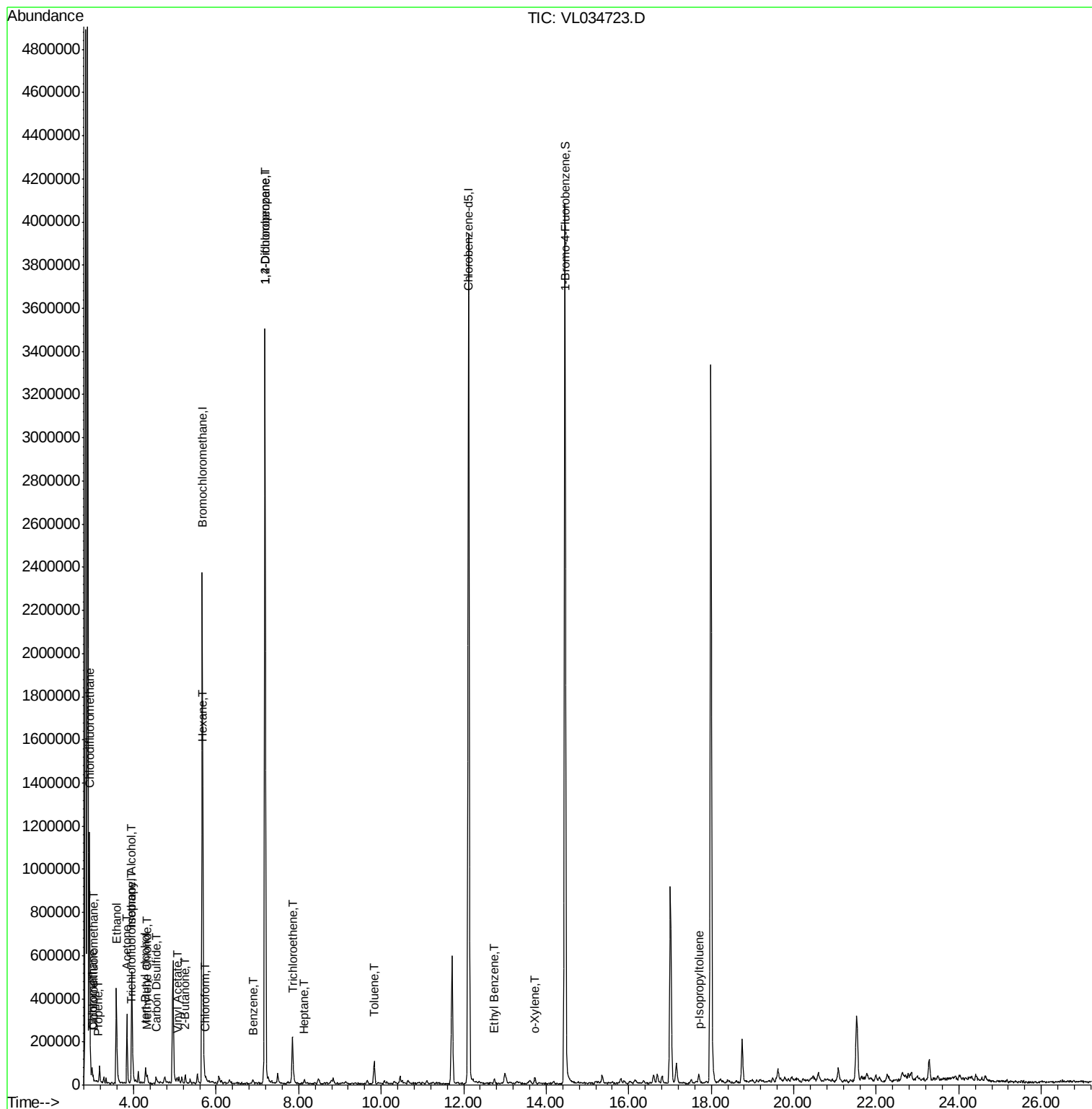
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	3992	0.022	ppbv	100
3) Chlorodifluoromethane	2.93	51	672653	5.410	ppbv #	58
4) Chloromethane	3.01	50	1486	0.021	ppbv #	43
9) Propene	3.12	41	1228	0.024	ppbv	98
10) Heptane	8.13	43	3999	0.030	ppbv #	26
11) Trichlorofluoromethane	3.93	101	3646	0.023	ppbv #	83
13) Ethanol	3.58	45	416585	25.372	ppbv	98
15) Acetone	3.83	43	294017	2.239	ppbv	100
17) tert-Butyl alcohol	4.29	59	37177	0.370	ppbv #	76
19) Isopropyl Alcohol	3.95	45	565284	7.229	ppbv	100
20) Methylene Chloride	4.33	84	6590	0.135	ppbv #	80
23) Vinyl Acetate	5.06	43	6205	0.035	ppbv #	82
26) Hexane	5.69	57	9445	0.088	ppbv #	64
27) Carbon Disulfide	4.55	76	2680	0.022	ppbv #	20
29) Chloroform	5.74	83	3472	0.020	ppbv	87
34) 2-Butanone	5.24	43	23189	0.154	ppbv #	53
36) Benzene	6.90	78	4162	0.020	ppbv #	73
38) Trichloroethene	7.85	130	57690	0.723	ppbv	92
39) 1,2-Dichloropropane	7.19	63	671411	8.150	ppbv #	22
53) Toluene	9.83	91	65841	0.299	ppbv	96
58) Ethyl Benzene	12.74	91	10014	0.035	ppbv	94
60) o-Xylene	13.73	91	6201	0.025	ppbv #	32
69) p-Isopropyltoluene	17.71	119	9336	0.025	ppbv #	21

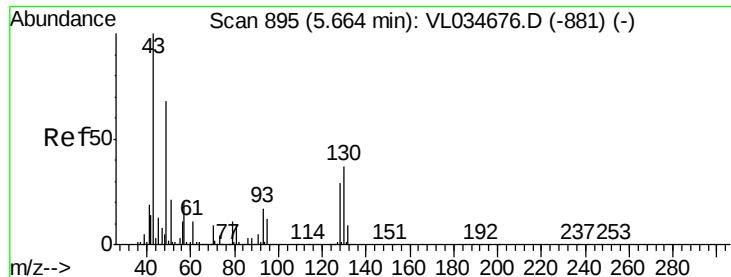
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

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Acq: 28 Feb 2020 00:35

Instrument :

MSVOA_L

ClientSampleId :

SG-2-MUSIC-RMDL

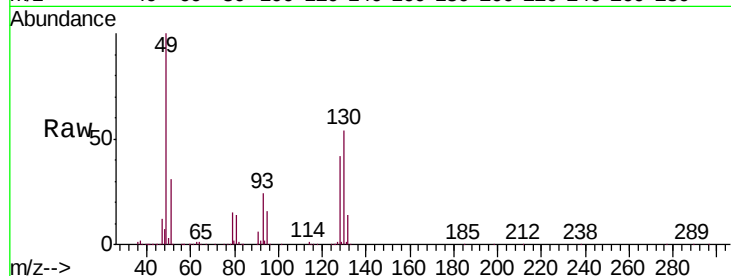
Tgt Ion: 49 Resp: 1152139

Ion Ratio Lower Upper

49 100

128 43.8 21.6 65.0

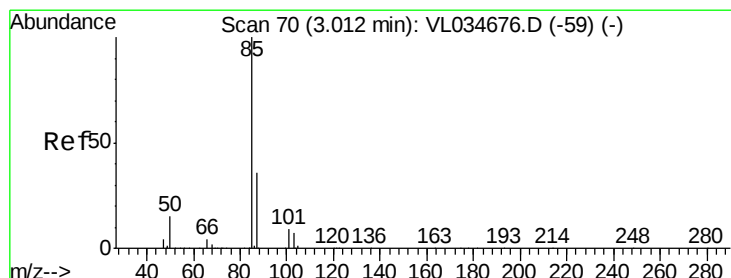
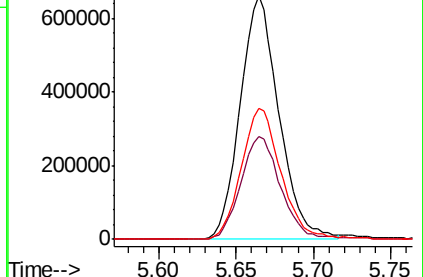
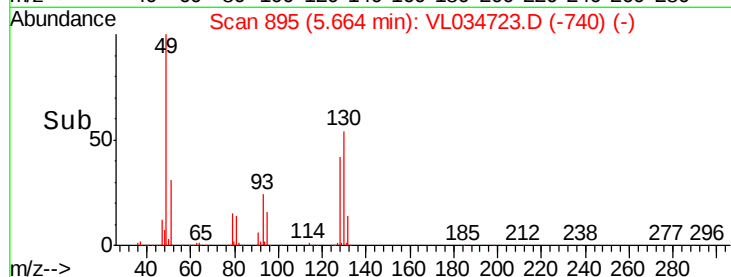
130 55.8 27.7 83.1



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: 0.022 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL034723.D

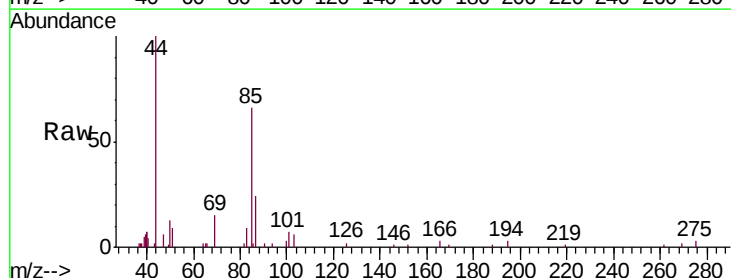
Acq: 28 Feb 2020 00:35

Tgt Ion: 85 Resp: 3992

Ion Ratio Lower Upper

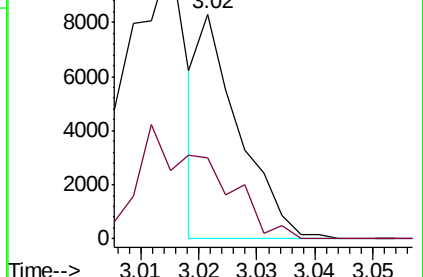
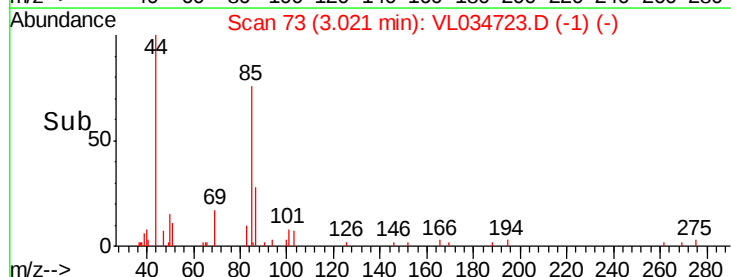
85 100

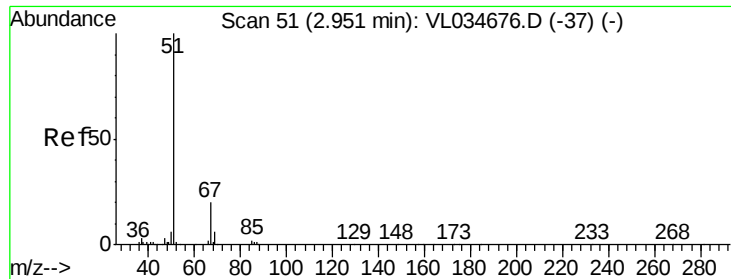
87 36.4 29.2 43.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

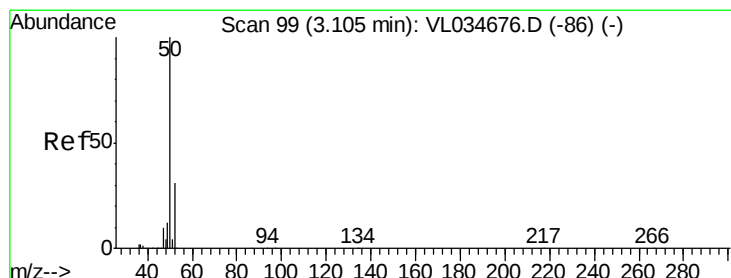
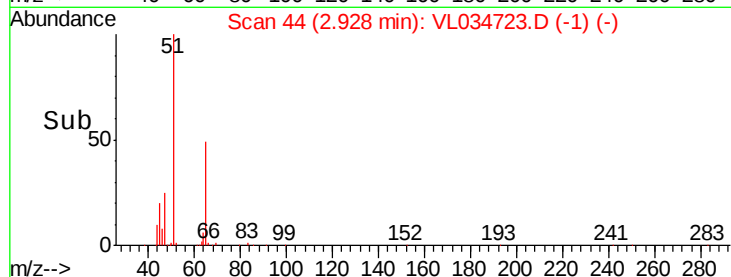
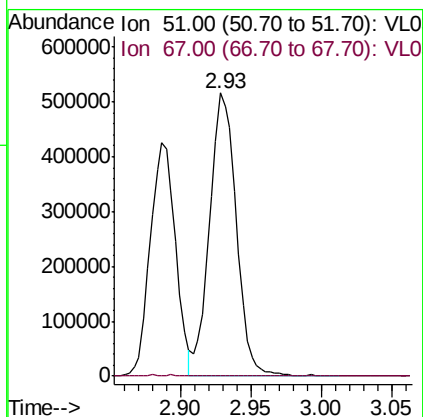
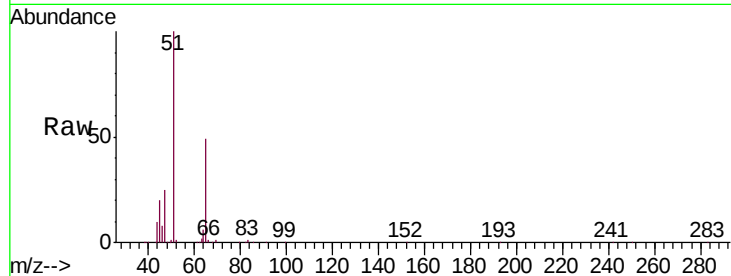




#3
 Chlorodifluoromethane
 Concen: 5.410 ppbv
 RT: 2.93 min Scan# 44
 Delta R.T. -0.02 min
 Lab File: VL034723.D
 Acq: 28 Feb 2020 00:35

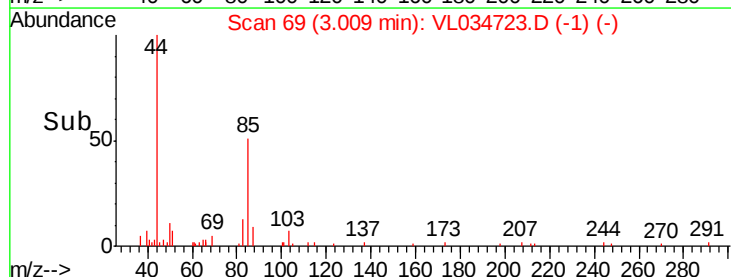
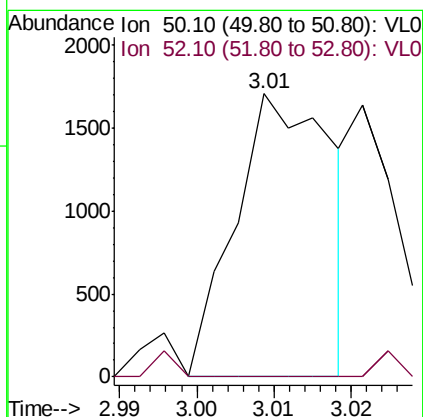
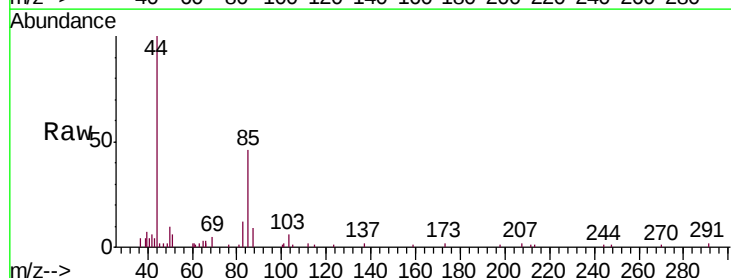
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2-MUSIC-RMDL

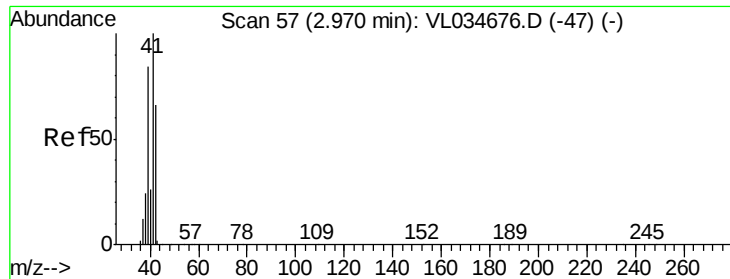
Tgt Ion: 51 Resp: 672653
 Ion Ratio Lower Upper
 51 100
 67 0.3 15.5 23.3#



#4
 Chloromethane
 Concen: 0.021 ppbv
 RT: 3.01 min Scan# 69
 Delta R.T. -0.10 min
 Lab File: VL034723.D
 Acq: 28 Feb 2020 00:35

Tgt Ion: 50 Resp: 1486
 Ion Ratio Lower Upper
 50 100
 52 0.0 25.0 37.4#





#9

Propene

Concen: 0.024 ppbv

RT: 3.12 min Scan# 105

Delta R.T. 0.15 min

Lab File: VL034723.D

Acq: 28 Feb 2020 00:35

Instrument :

MSVOA_L

ClientSampleId :

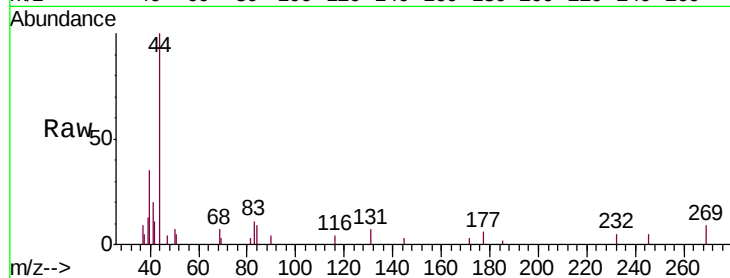
SG-2-MUSIC-RMDL

Tgt Ion: 41 Resp: 1228

Ion Ratio Lower Upper

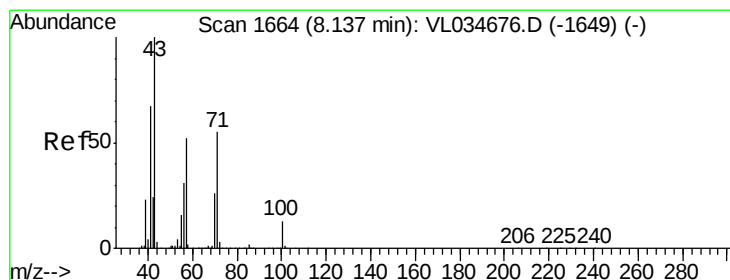
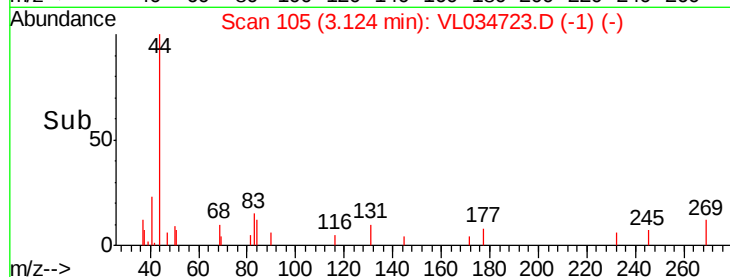
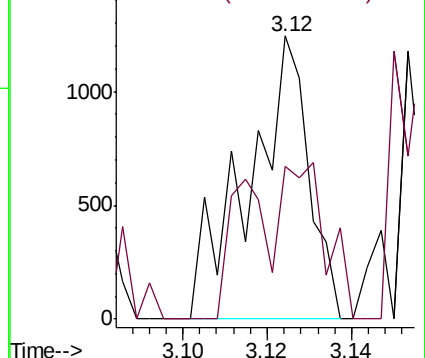
41 100

42 70.0 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: 0.030 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. -0.00 min

Lab File: VL034723.D

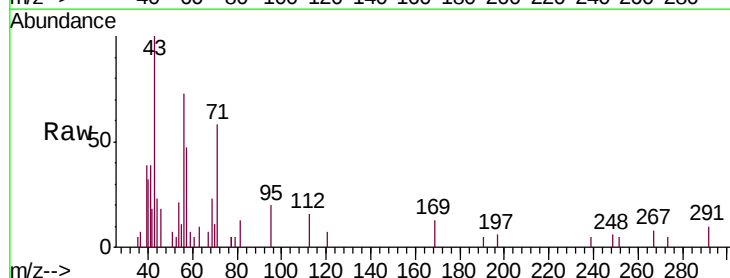
Acq: 28 Feb 2020 00:35

Tgt Ion: 43 Resp: 3999

Ion Ratio Lower Upper

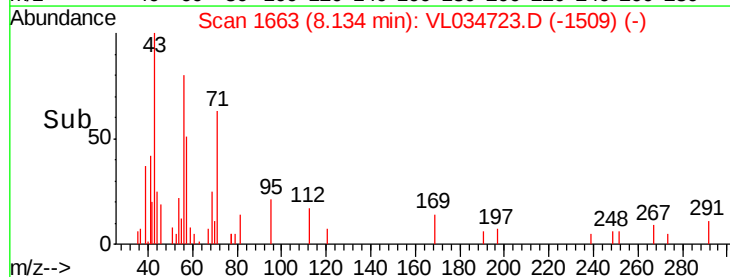
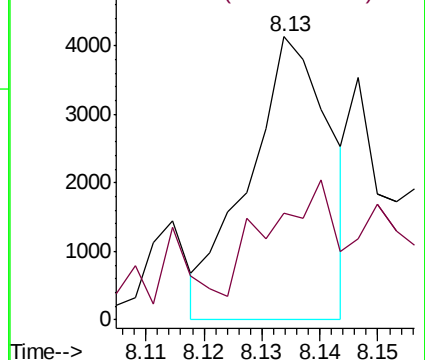
43 100

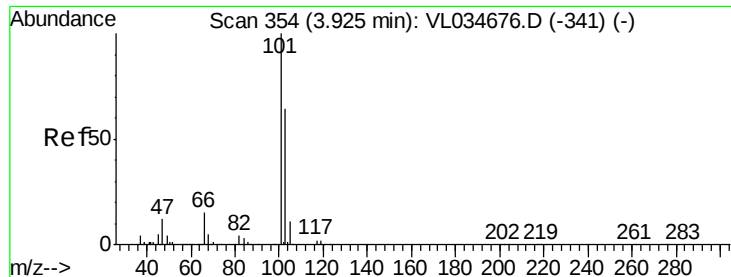
57 0.0 41.0 61.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.023 ppbv

RT: 3.93 min Scan# 355

Delta R.T. 0.00 min

Lab File: VL034723.D

Acq: 28 Feb 2020 00:35

Instrument :

MSVOA_L

ClientSampleId :

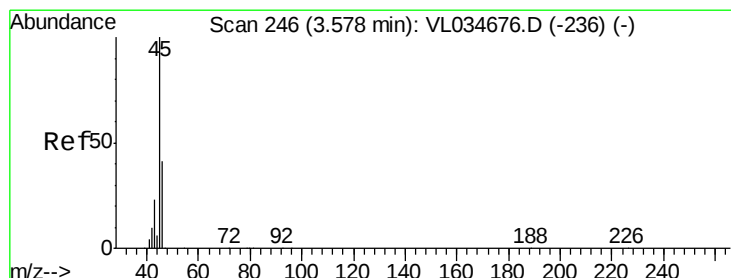
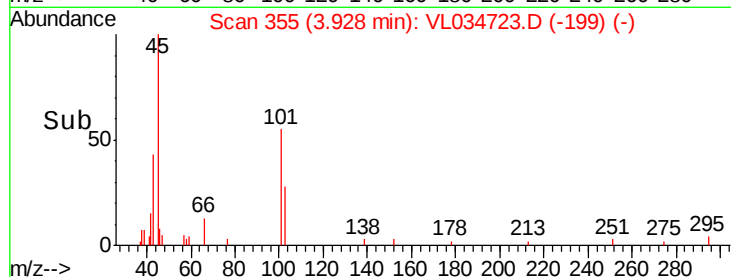
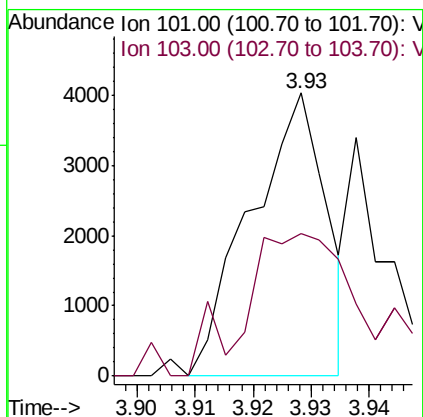
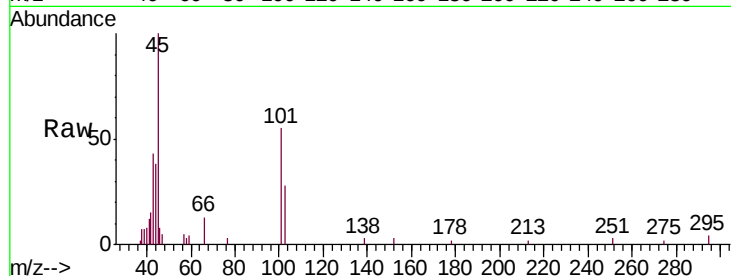
SG-2-MUSIC-RMDL

Tgt Ion:101 Resp: 3646

Ion Ratio Lower Upper

101 100

103 50.5 51.2 76.8#



#13

Ethanol

Concen: 25.372 ppbv

RT: 3.58 min Scan# 247

Delta R.T. 0.00 min

Lab File: VL034723.D

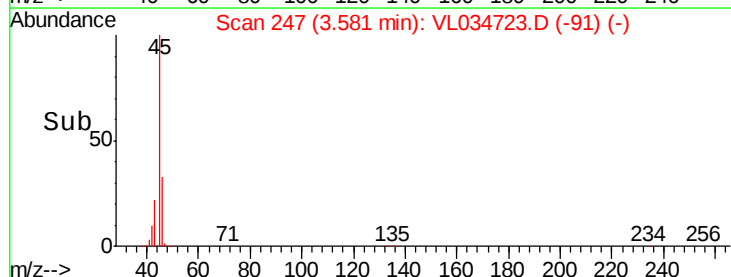
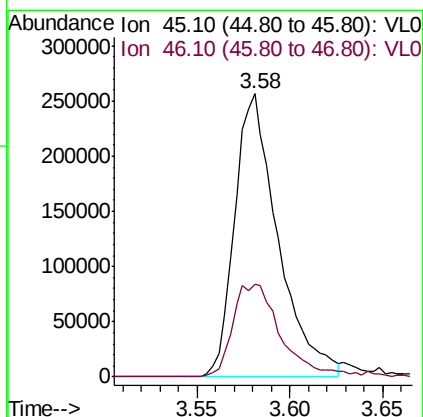
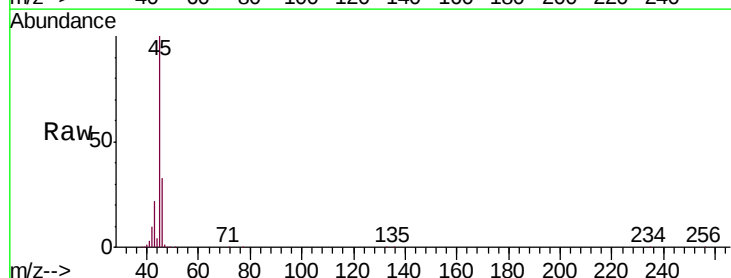
Acq: 28 Feb 2020 00:35

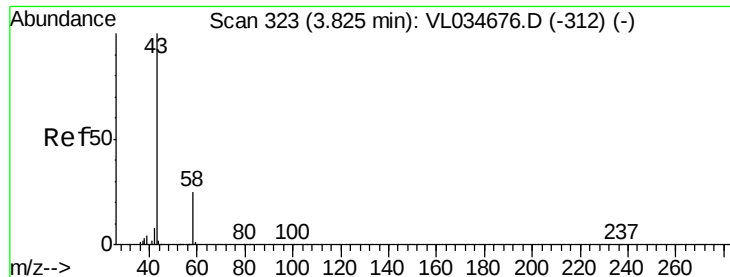
Tgt Ion: 45 Resp: 416585

Ion Ratio Lower Upper

45 100

46 37.3 15.4 61.4





#15

Acetone

Concen: 2.239 ppbv

RT: 3.83 min Scan# 326

Delta R.T. 0.01 min

Lab File: VL034723.D

Acq: 28 Feb 2020 00:35

Instrument :

MSVOA_L

ClientSampleId :

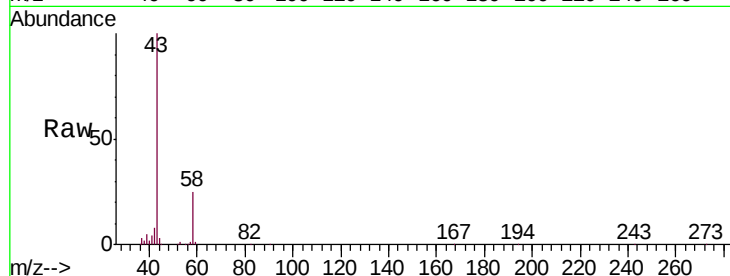
SG-2-MUSIC-RMDL

Tgt Ion: 43 Resp: 294017

Ion Ratio Lower Upper

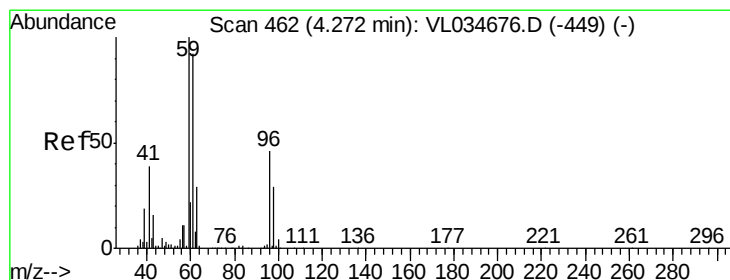
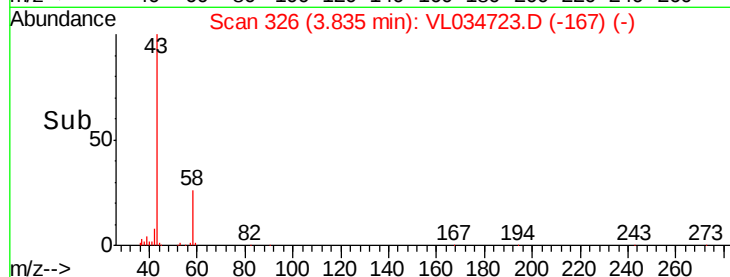
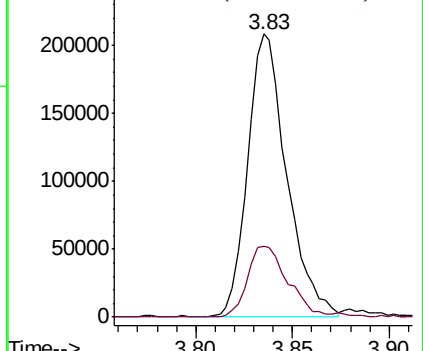
43 100

58 26.9 21.4 32.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.370 ppbv

RT: 4.29 min Scan# 466

Delta R.T. 0.01 min

Lab File: VL034723.D

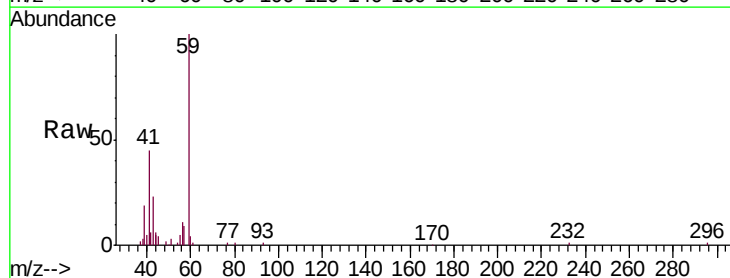
Acq: 28 Feb 2020 00:35

Tgt Ion: 59 Resp: 37177

Ion Ratio Lower Upper

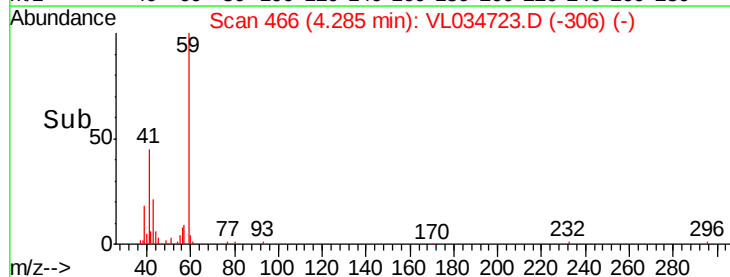
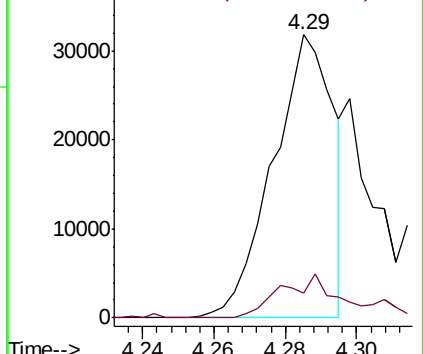
59 100

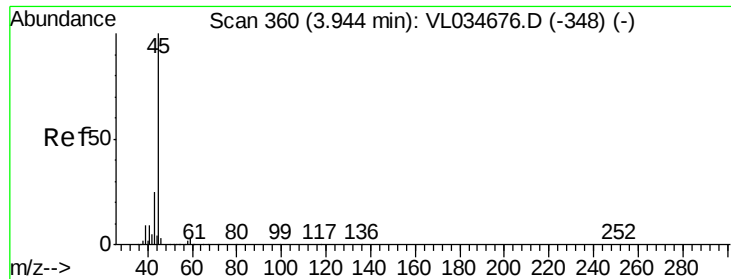
57 19.9 8.8 13.2#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#19

Isopropyl Alcohol

Concen: 7.229 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL034723.D

Acq: 28 Feb 2020 00:35

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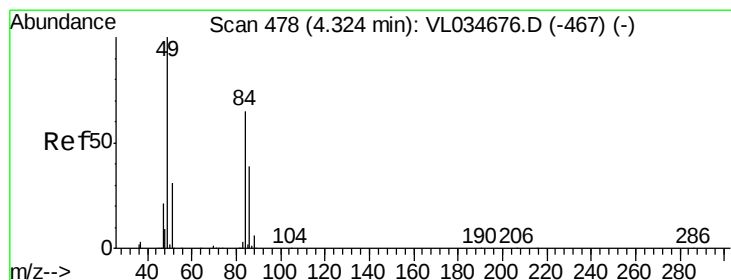
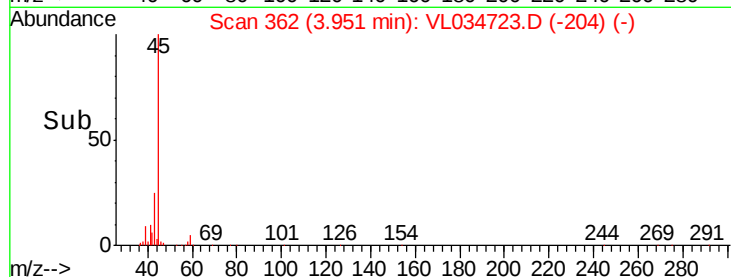
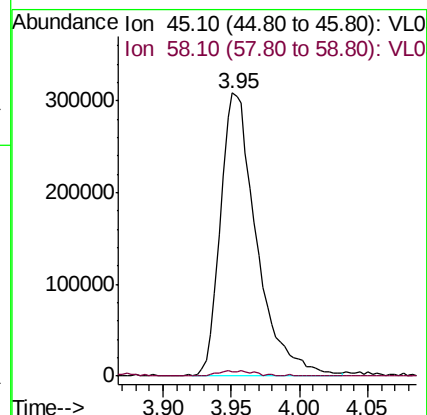
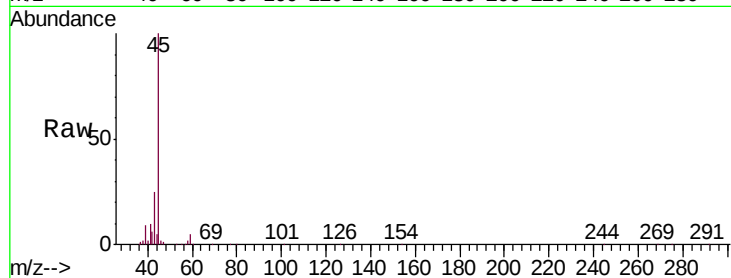
SG-2-MUSIC-RMDL

Tgt Ion: 45 Resp: 565284

Ion Ratio Lower Upper

45 100

58 2.1 1.8 2.6



#20

Methylene Chloride

Concen: 0.135 ppbv

RT: 4.33 min Scan# 479

Delta R.T. 0.00 min

Lab File: VL034723.D

Acq: 28 Feb 2020 00:35

Tgt Ion: 84 Resp: 6590

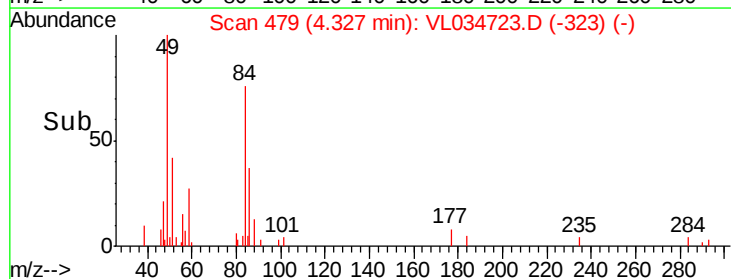
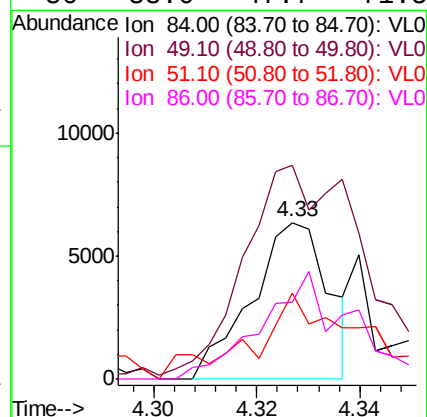
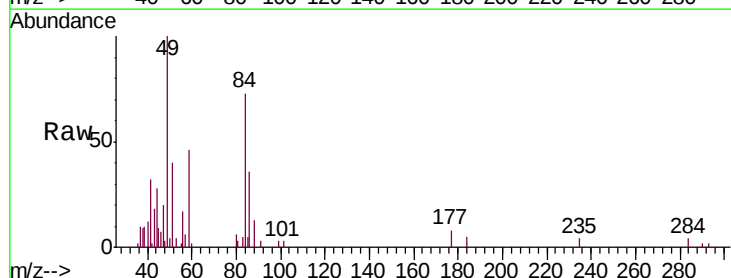
Ion Ratio Lower Upper

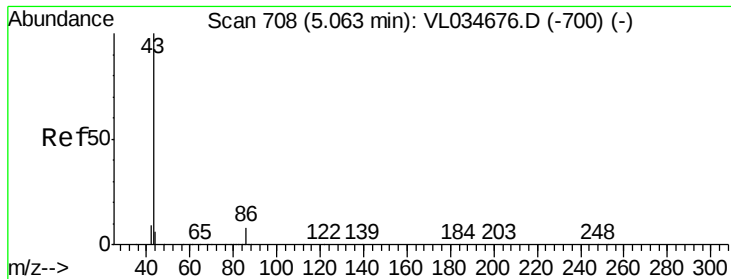
84 100

49 129.9 122.8 184.2

51 38.9 38.6 58.0

86 38.0 47.7 71.5#





#23

Vinyl Acetate

Concen: 0.035 ppbv

RT: 5.06 min Scan# 708

Delta R.T. -0.00 min

Lab File: VL034723.D

Acq: 28 Feb 2020 00:35

Instrument :

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ClientSampleId :

SG-2-MUSIC-RMDL

Tgt Ion: 43 Resp: 6205

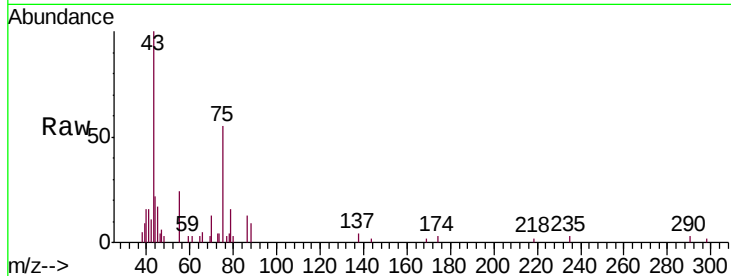
Ion Ratio Lower Upper

43 100

86 10.4 6.0 9.0#

42 0.0 8.0 12.0#

44 0.0 4.5 6.7#

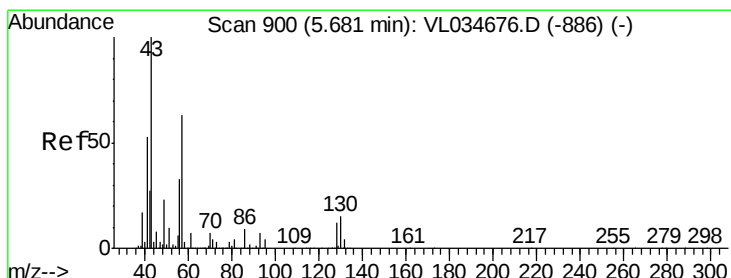
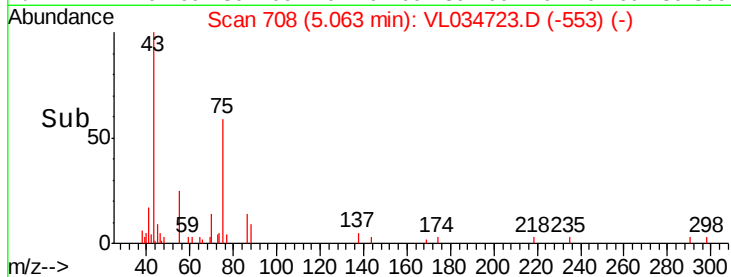
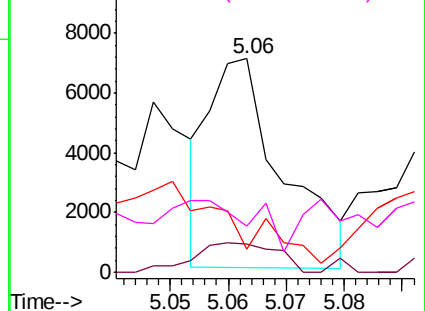


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#26

Hexane

Concen: 0.088 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.01 min

Lab File: VL034723.D

Acq: 28 Feb 2020 00:35

Tgt Ion: 57 Resp: 9445

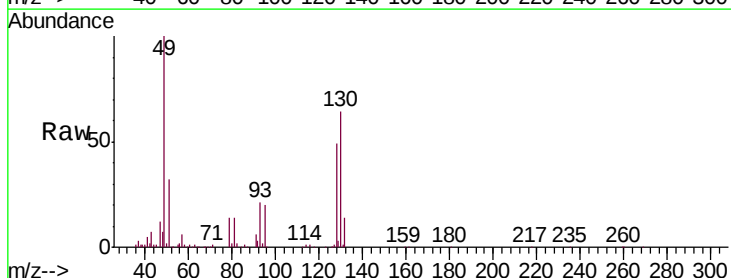
Ion Ratio Lower Upper

57 100

41 117.0 70.3 105.5#

43 157.7 177.0 265.4#

56 76.5 42.6 64.0#

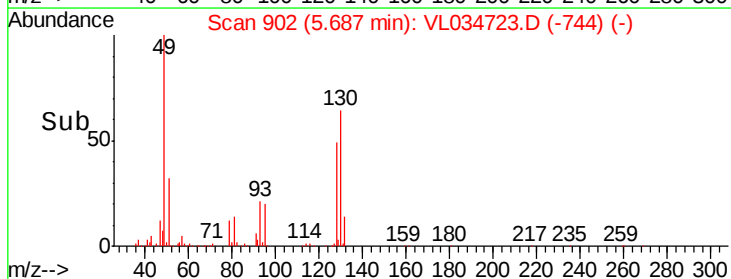
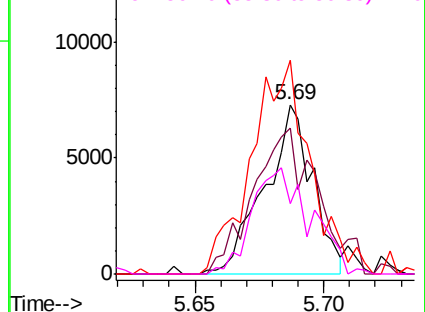


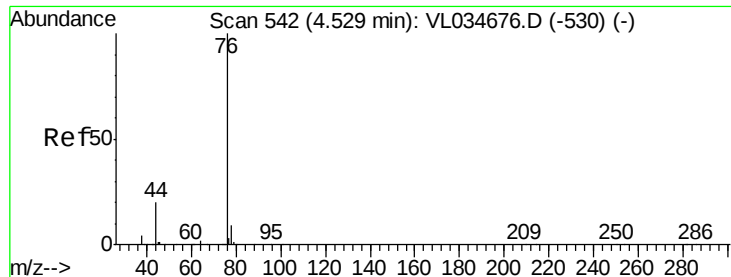
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#27

Carbon Disulfide

Concen: 0.022 ppbv

RT: 4.55 min Scan# 547

Delta R.T. 0.02 min

Lab File: VL034723.D

Acq: 28 Feb 2020 00:35

Instrument :

MSVOA_L

ClientSampleId :

SG-2-MUSIC-RMDL

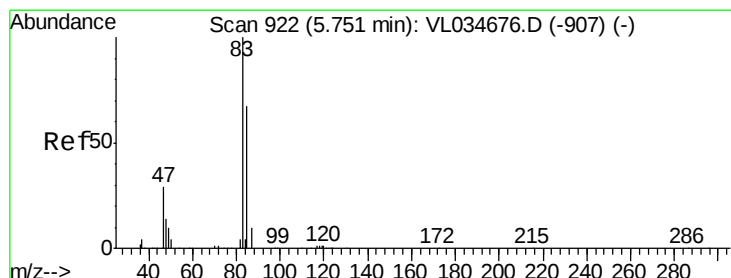
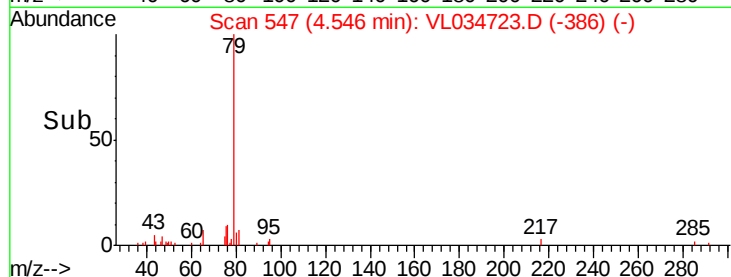
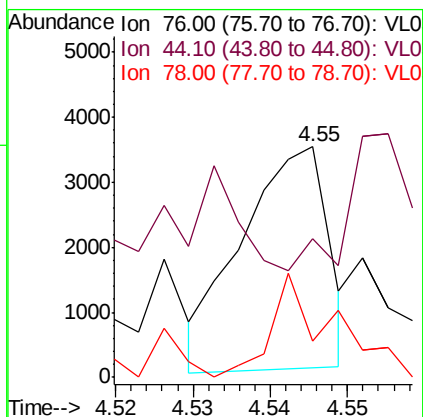
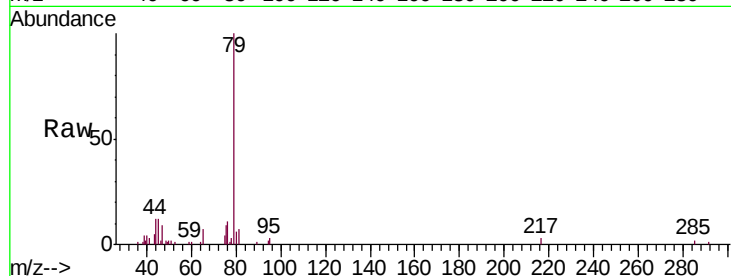
Tgt Ion: 76 Resp: 2680

Ion Ratio Lower Upper

76 100

44 0.0 15.3 22.9#

78 66.1 7.6 11.4#



#29

Chloroform

Concen: 0.020 ppbv

RT: 5.74 min Scan# 920

Delta R.T. -0.01 min

Lab File: VL034723.D

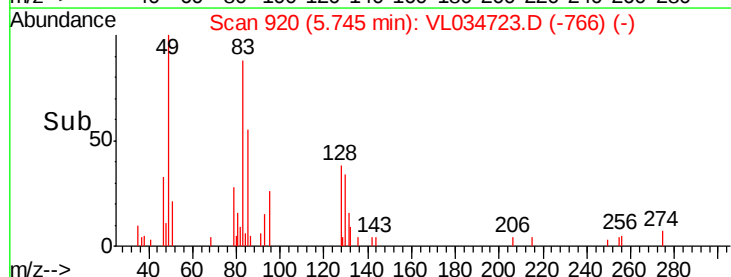
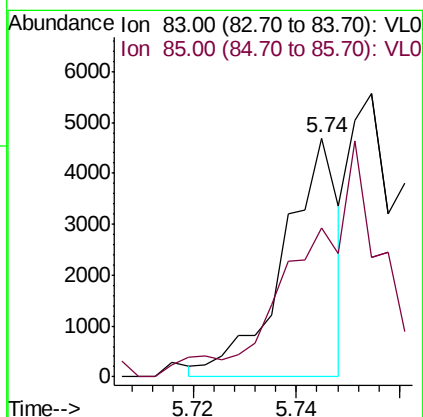
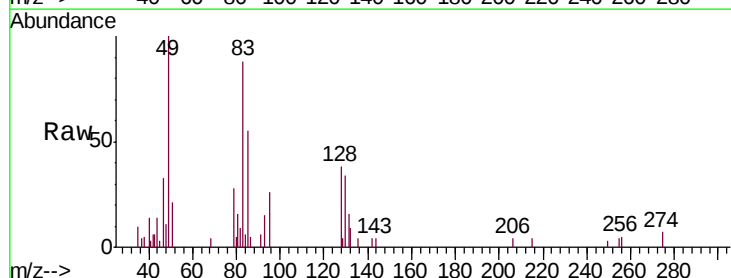
Acq: 28 Feb 2020 00:35

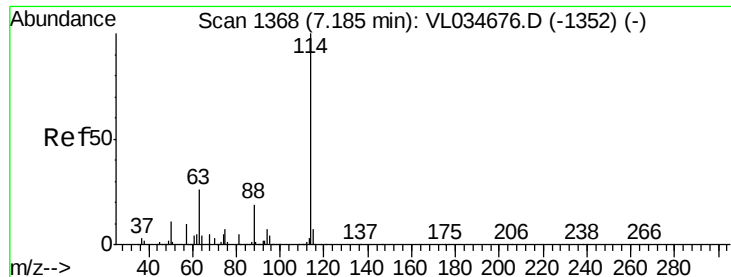
Tgt Ion: 83 Resp: 3472

Ion Ratio Lower Upper

83 100

85 57.0 53.9 80.9

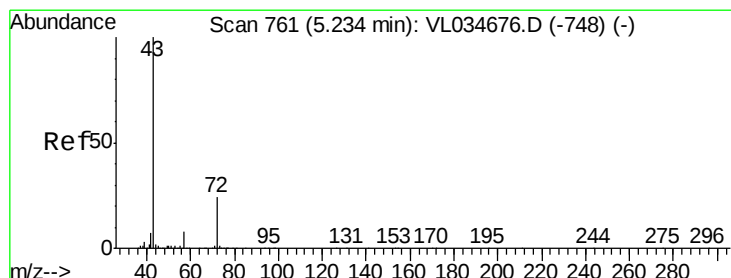
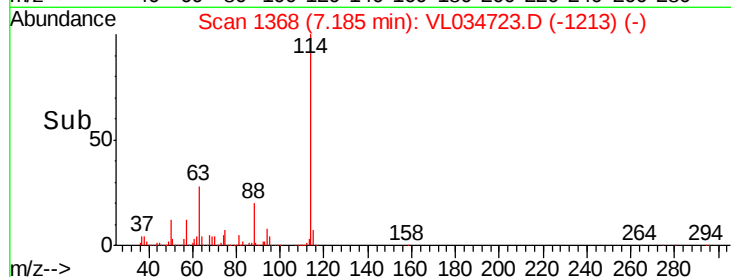
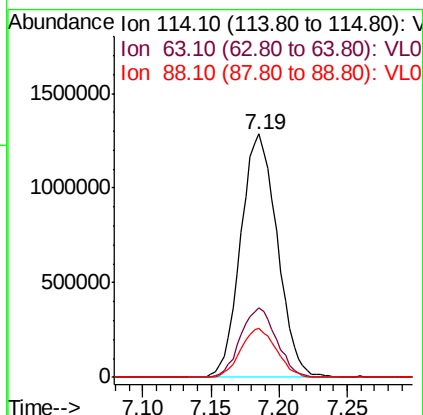
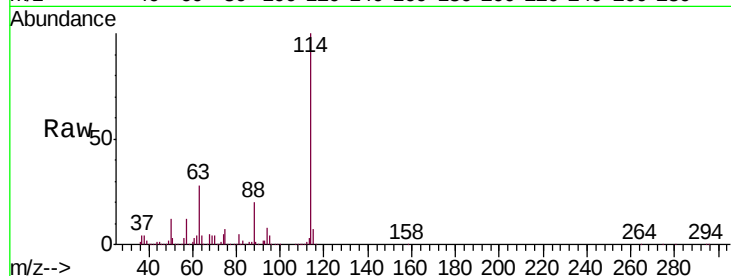




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. -0.00 min
 Lab File: VL034723.D
 Acq: 28 Feb 2020 00:35

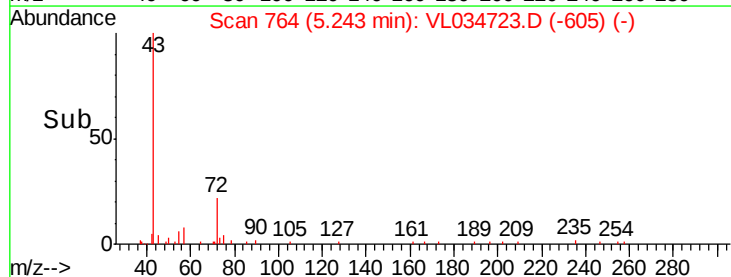
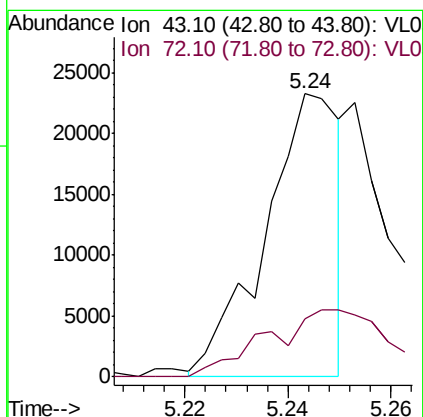
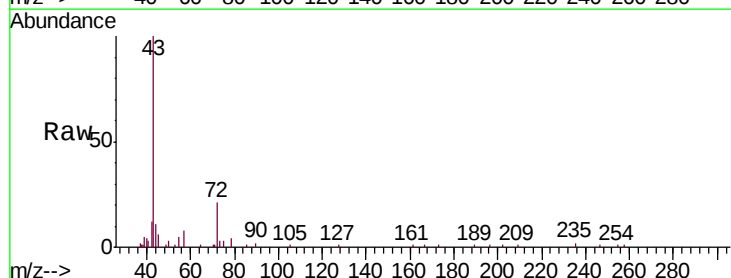
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2-MUSIC-RMDL

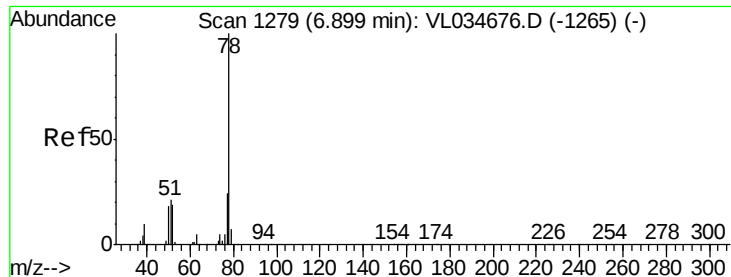
Tgt Ion:114 Resp: 2397491
 Ion Ratio Lower Upper
 114 100
 63 28.3 22.9 34.3
 88 19.8 15.8 23.6



#34
 2-Butanone
 Concen: 0.154 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.01 min
 Lab File: VL034723.D
 Acq: 28 Feb 2020 00:35

Tgt Ion: 43 Resp: 23189
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.2 27.2#





#36

Benzene

Concen: 0.020 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. 0.00 min

Lab File: VL034723.D

Acq: 28 Feb 2020 00:35

Instrument :

MSVOA_L

ClientSampleId :

SG-2-MUSIC-RMDL

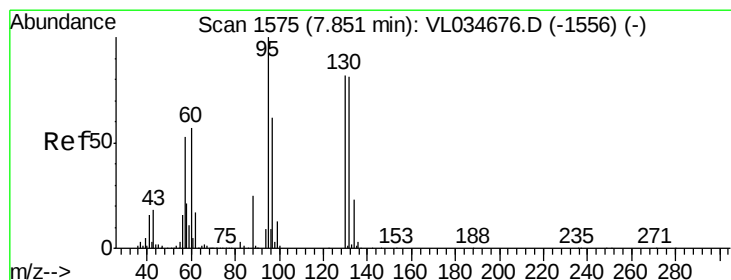
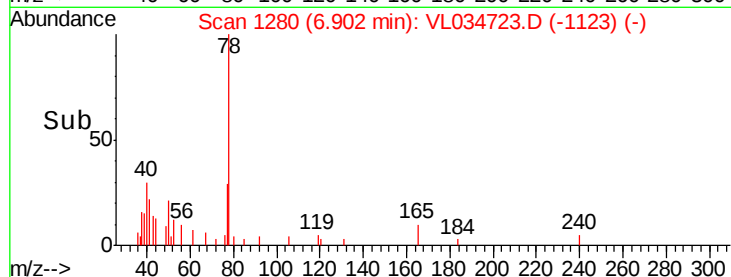
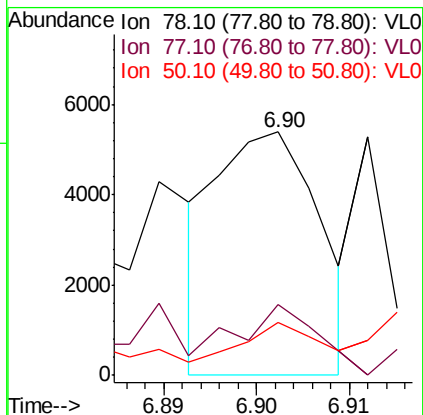
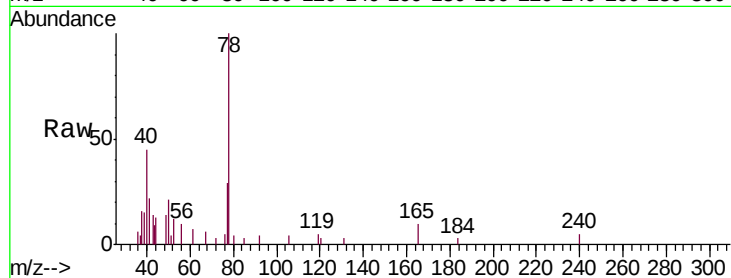
Tgt Ion: 78 Resp: 4162

Ion Ratio Lower Upper

78 100

77 38.3 19.5 29.3#

50 29.5 14.6 21.8#



#38

Trichloroethene

Concen: 0.723 ppbv

RT: 7.85 min Scan# 1575

Delta R.T. -0.00 min

Lab File: VL034723.D

Acq: 28 Feb 2020 00:35

Tgt Ion: 130 Resp: 57690

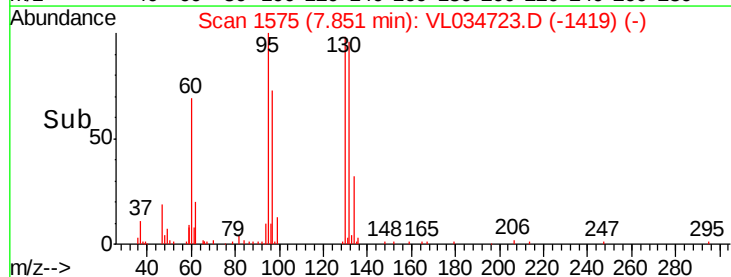
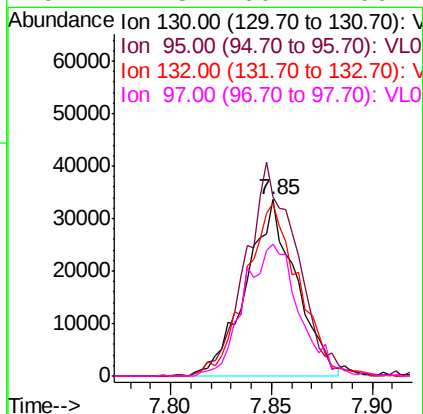
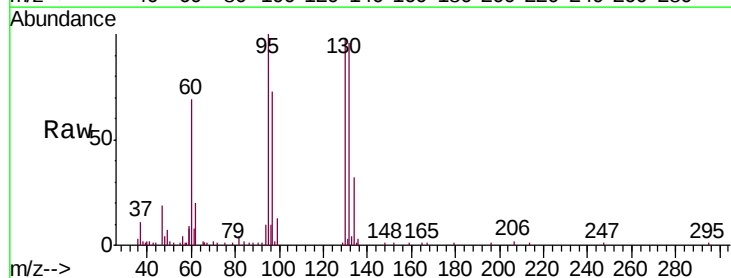
Ion Ratio Lower Upper

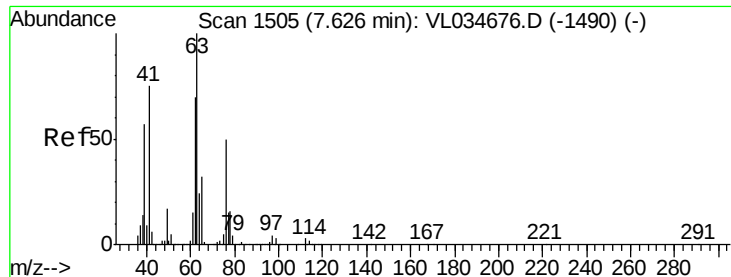
130 100

95 101.9 97.1 145.7

132 101.4 78.3 117.5

97 74.8 60.1 90.1

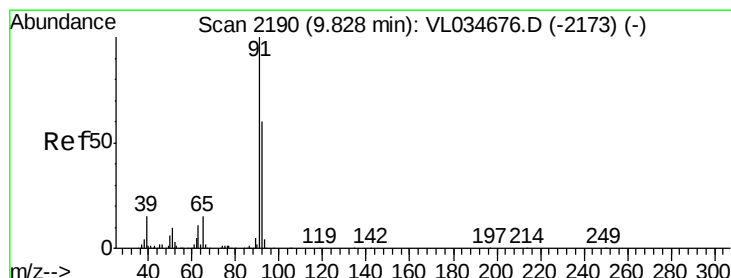
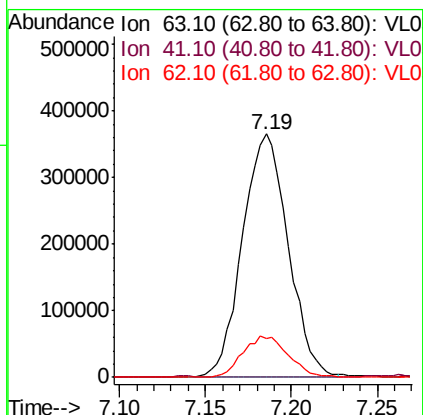
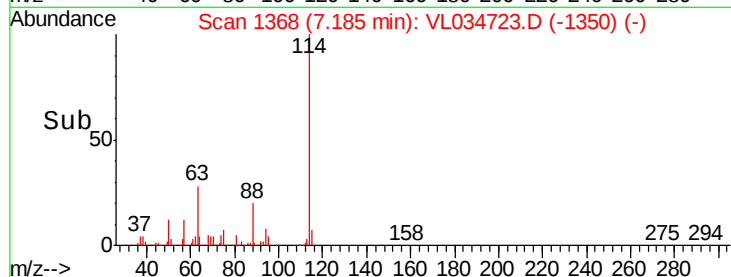
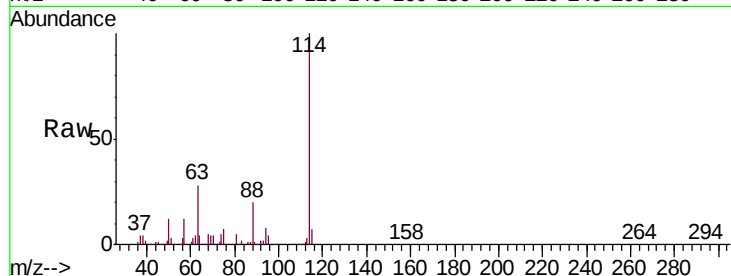




#39
 1,2-Dichloropropane
 Concen: 8.150 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. -0.44 min
 Lab File: VL034723.D
 Acq: 28 Feb 2020 00:35

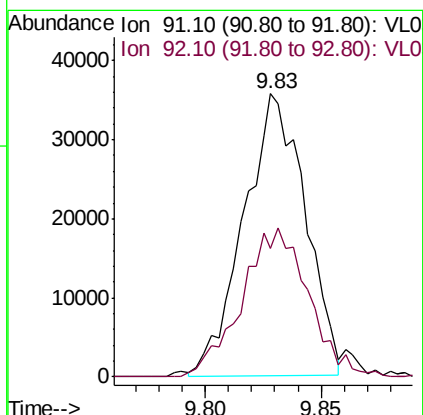
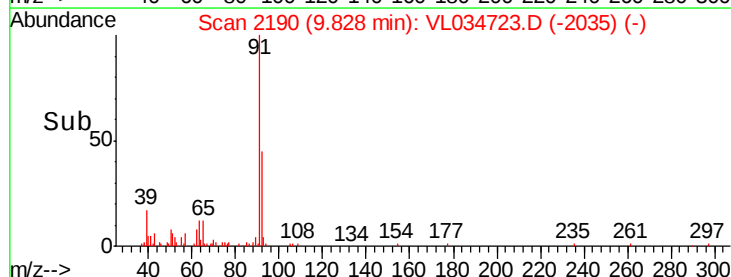
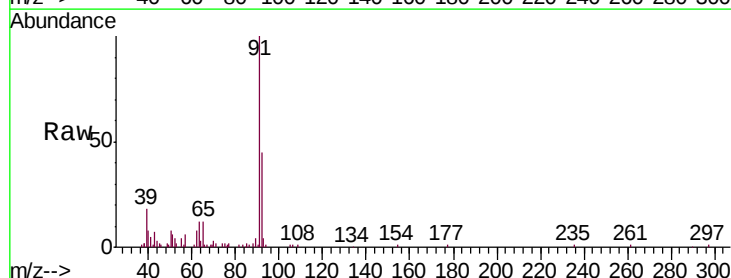
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2-MUSIC-RMDL

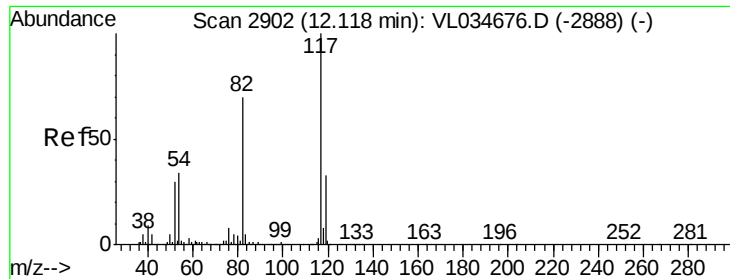
Tgt Ion: 63 Resp: 671411
 Ion Ratio Lower Upper
 63 100
 41 0.1 60.2 90.4#
 62 15.7 56.3 84.5#



#53
 Toluene
 Concen: 0.299 ppbv
 RT: 9.83 min Scan# 2190
 Delta R.T. -0.00 min
 Lab File: VL034723.D
 Acq: 28 Feb 2020 00:35

Tgt Ion: 91 Resp: 65841
 Ion Ratio Lower Upper
 91 100
 92 57.2 48.5 72.7

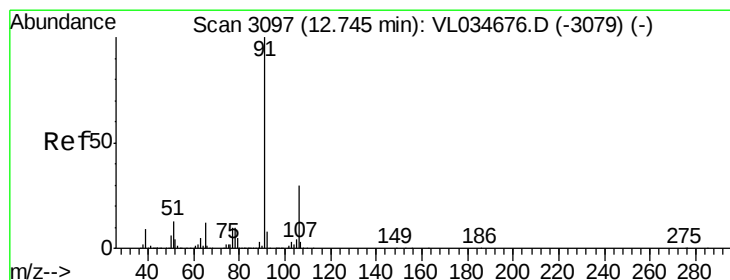
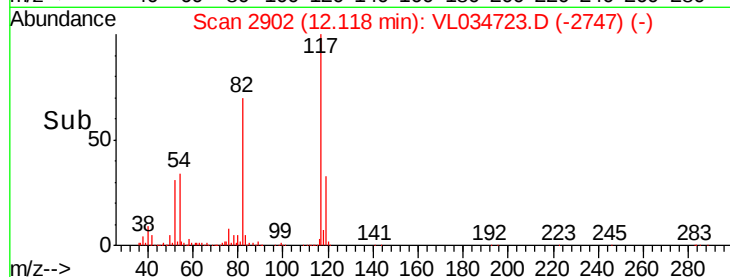
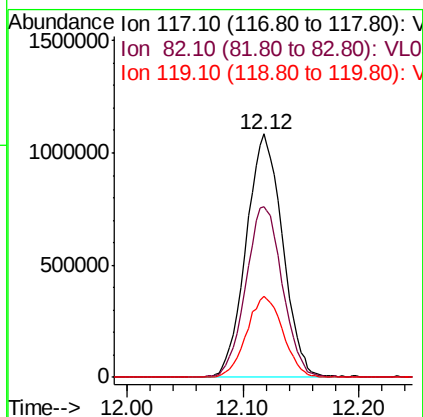
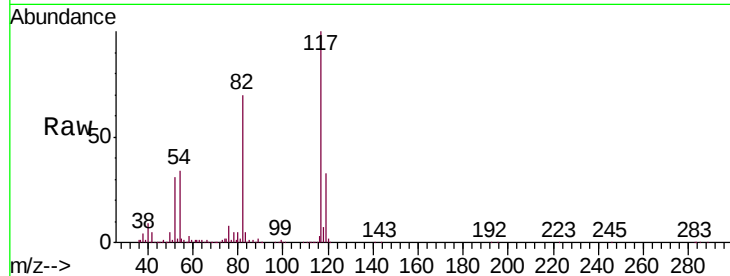




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2902
Delta R.T. -0.00 min
Lab File: VL034723.D
Acq: 28 Feb 2020 00:35

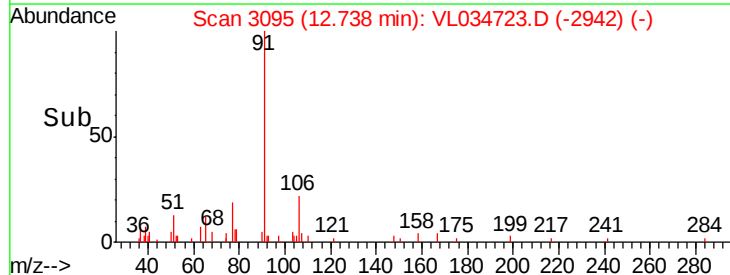
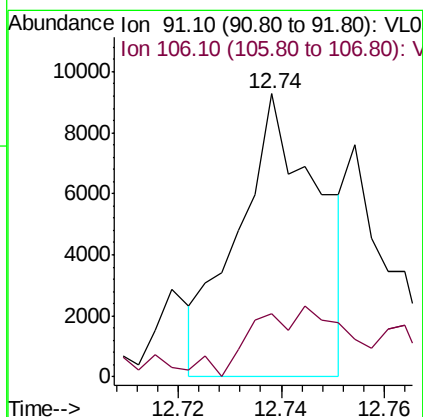
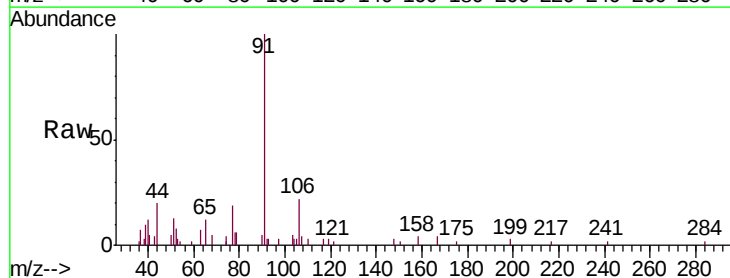
Instrument :
MSVOA_L
ClientSampleId :
SG-2-MUSIC-RMDL

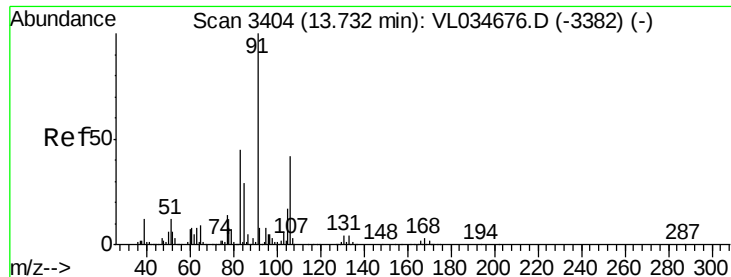
Tgt Ion:117 Resp: 2373752
Ion Ratio Lower Upper
117 100
82 70.9 54.1 81.1
119 33.0 27.6 41.4



#58
Ethyl Benzene
Concen: 0.035 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. -0.01 min
Lab File: VL034723.D
Acq: 28 Feb 2020 00:35

Tgt Ion: 91 Resp: 10014
Ion Ratio Lower Upper
91 100
106 26.6 24.0 36.0

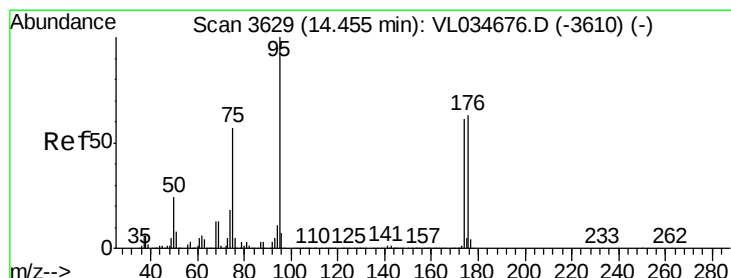
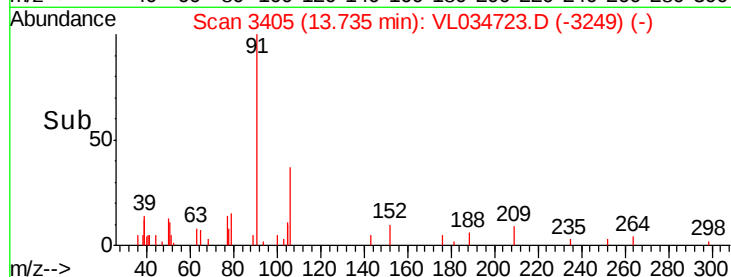
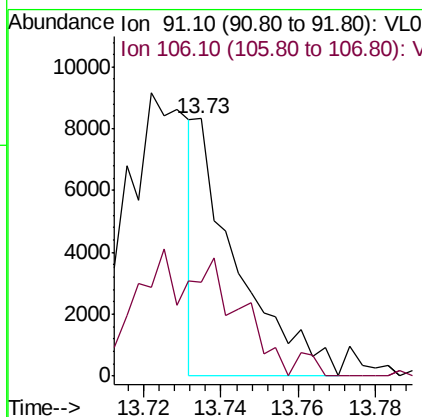
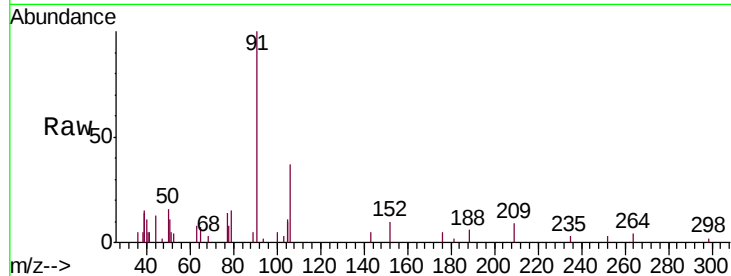




#60
o-Xylene
Concen: 0.025 ppbv
RT: 13.73 min Scan# 3405
Delta R.T. 0.00 min
Lab File: VL034723.D
Acq: 28 Feb 2020 00:35

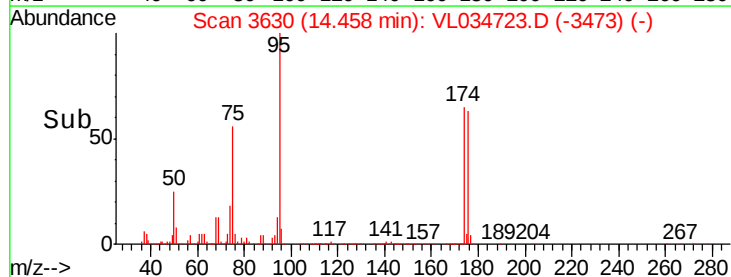
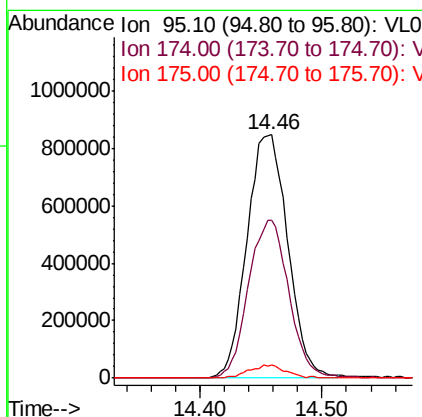
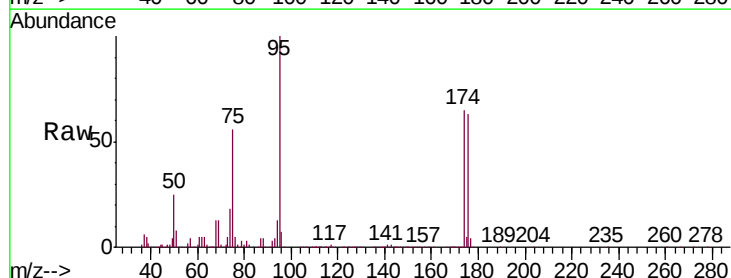
Instrument :
MSVOA_L
ClientSampleId :
SG-2-MUSIC-RMDL

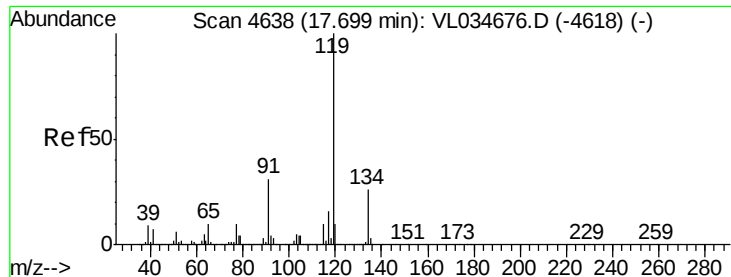
Tgt Ion: 91 Resp: 6201
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.061 ppbv
RT: 14.46 min Scan# 3630
Delta R.T. 0.00 min
Lab File: VL034723.D
Acq: 28 Feb 2020 00:35

Tgt Ion: 95 Resp: 1958276
Ion Ratio Lower Upper
95 100
174 65.1 50.7 76.1
175 4.9 3.9 5.9





#69

p-Isopropyltoluene

Concen: 0.025 ppbv

RT: 17.71 min Scan# 4640

Delta R.T. 0.01 min

Lab File: VL034723.D

Acq: 28 Feb 2020 00:35

Instrument :

MSVOA_L

ClientSampleId :

SG-2-MUSIC-RMDL

Tgt Ion:119 Resp: 9336

Ion Ratio Lower Upper

119 100

134 79.8 20.6 31.0#

91 0.0 25.3 37.9#

