

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062221\
 Data File : VL037239.D
 Acq On : 23 Jun 2021 10:04
 Operator : SY/AP
 Sample : M2797-02DL 200X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 24 03:48:49 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 16 14:06:32 2021
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1505279	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	4418721	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.07	117	3876403	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2858125	9.73	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.30%

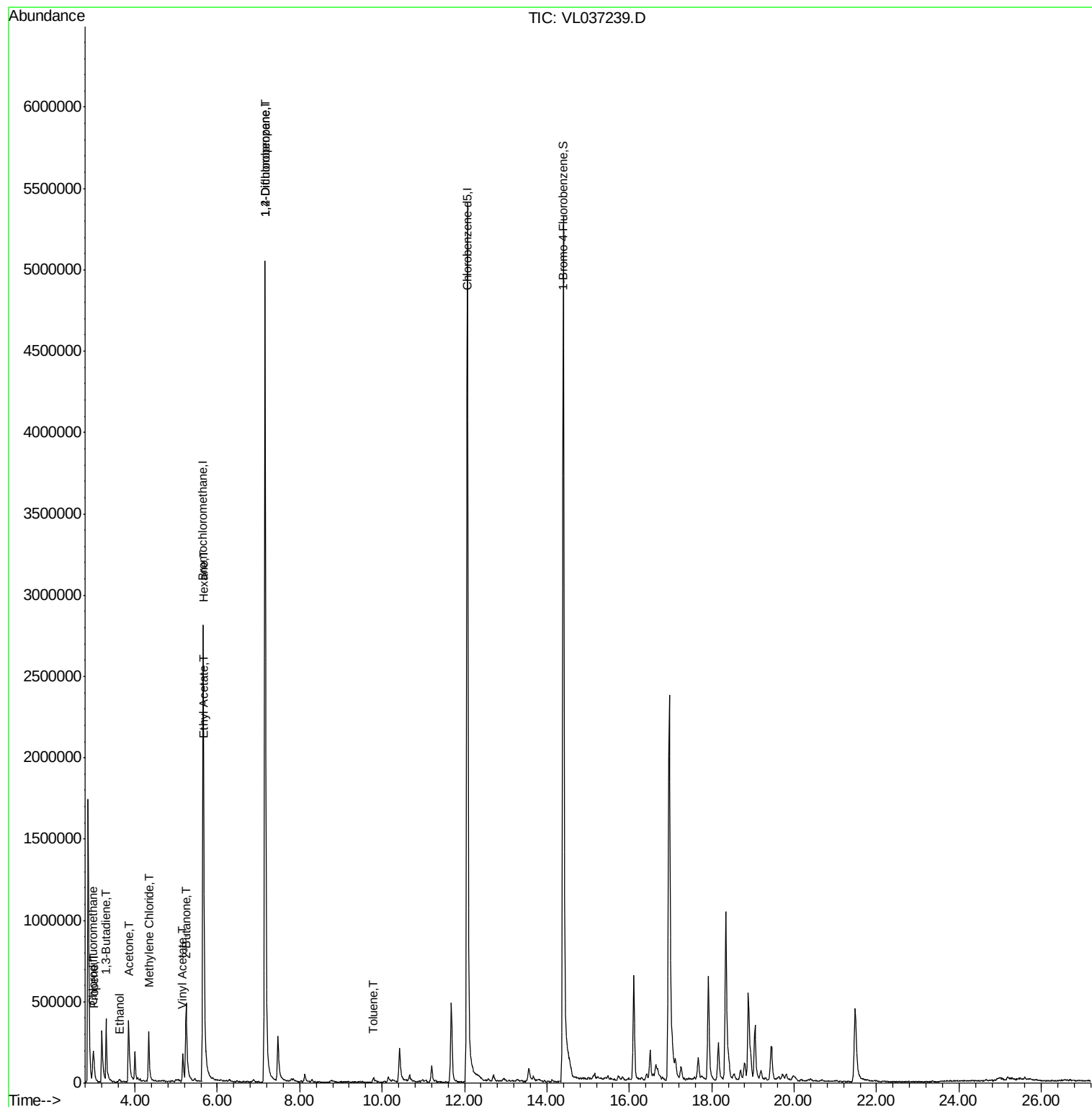
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	218288	0.746	ppbv	99
9) Propene	3.00	41	67658	0.723	ppbv	99
13) Ethanol	3.61	45	8670	0.599	ppbv #	7
15) Acetone	3.84	43	502359	2.959	ppbv #	80
16) 1,3-Butadiene	3.30	39	108098	1.077	ppbv #	20
20) Methylene Chloride	4.33	84	55236	0.544	ppbv	96
23) Vinyl Acetate	5.17	43	64552	0.265	ppbv #	16
25) Ethyl Acetate	5.68	43	73725	0.201	ppbv #	79
26) Hexane	5.67	57	54994	0.296	ppbv #	1
34) 2-Butanone	5.24	43	753671	4.386	ppbv	99
39) 1,2-Dichloropropane	7.16	63	1078303	8.121	ppbv #	24
53) Toluene	9.78	91	15747	0.037	ppbv #	60

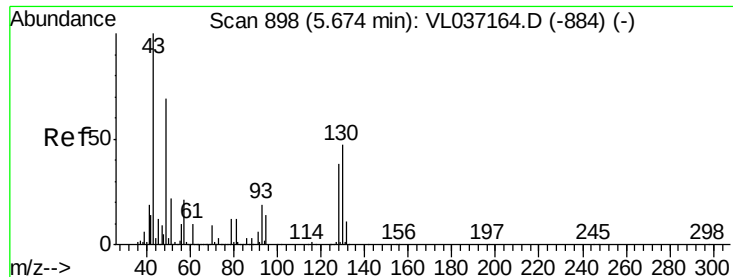
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 16 14:06:32 2021
QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.02 min

Lab File: VL037239.D

Acq: 23 Jun 2021 10:04

Instrument :

MSVOA_L

ClientSampleId :

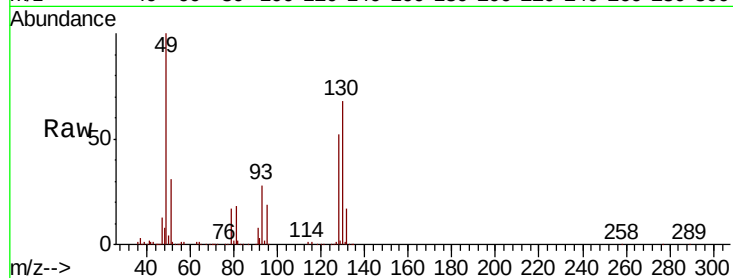
Tot Ion: 49 Resp: 1505279

Ion Ratio Lower Upper

49 100

128 57.0 29.3 88.0

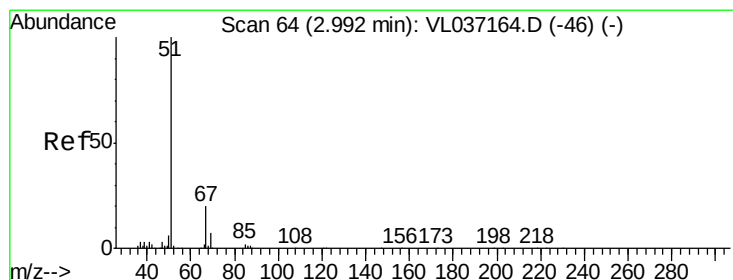
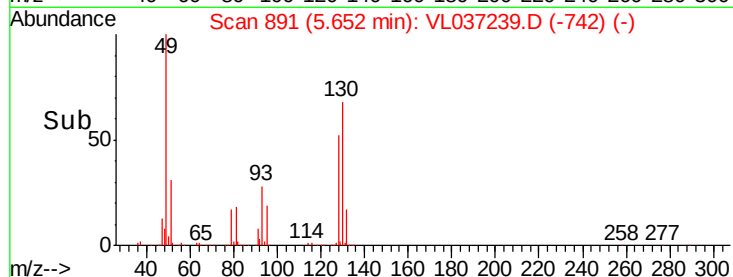
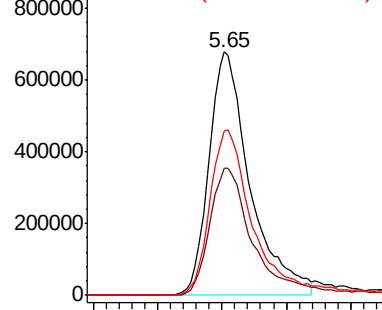
130 73.3 35.9 107.8



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



#3

Chlorodifluoromethane

Concen: 0.746 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL037239.D

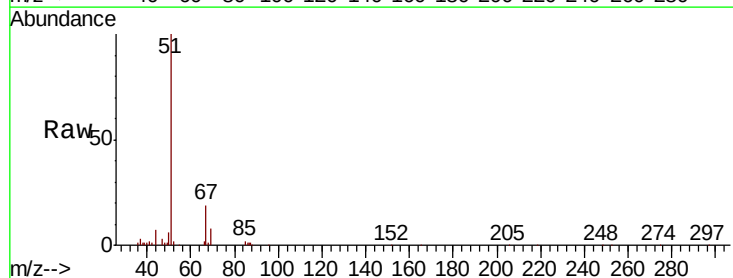
Acq: 23 Jun 2021 10:04

Tgt Ion: 51 Resp: 218288

Ion Ratio Lower Upper

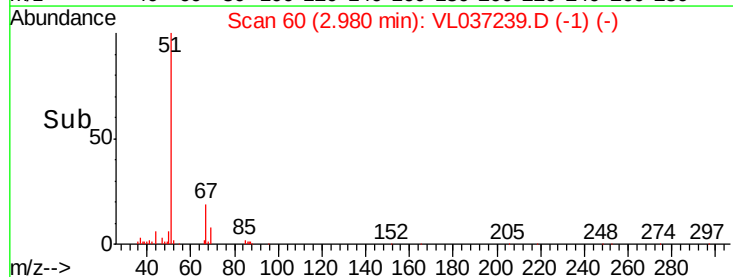
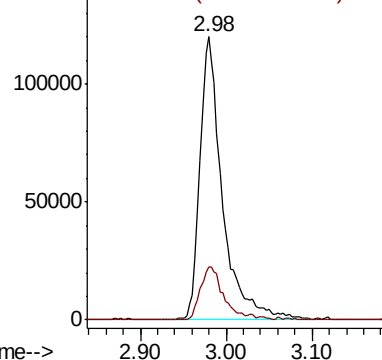
51 100

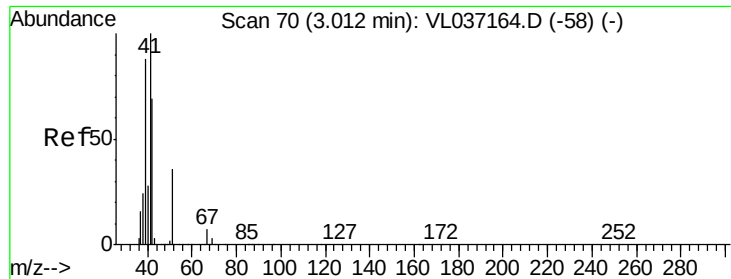
67 20.2 15.8 23.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.723 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL037239.D

Acq: 23 Jun 2021 10:04

Instrument :

MSVOA_L

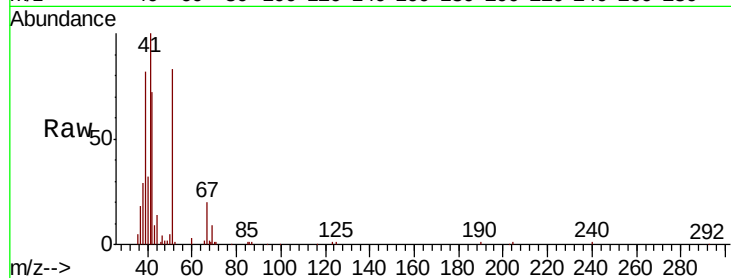
ClientSampleId :

Tot Ion: 41 Resp: 67658

Ion Ratio Lower Upper

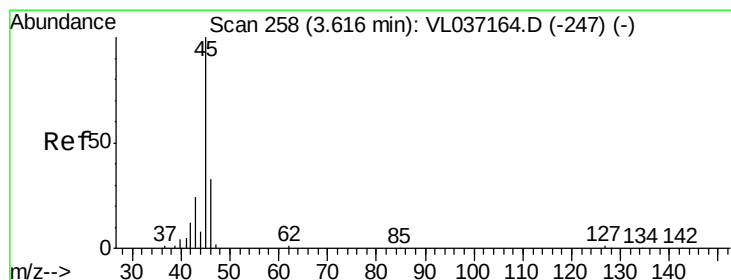
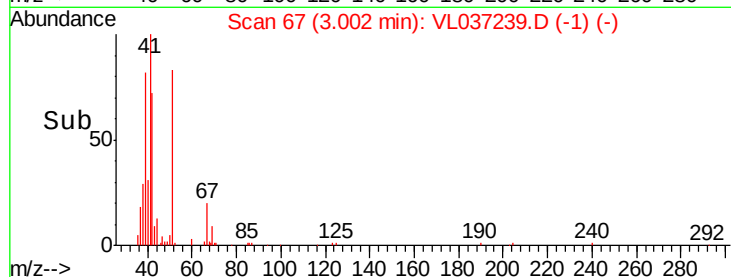
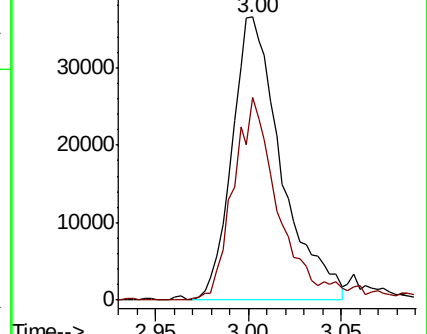
41 100

42 69.2 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 0.599 ppbv

RT: 3.61 min Scan# 257

Delta R.T. -0.00 min

Lab File: VL037239.D

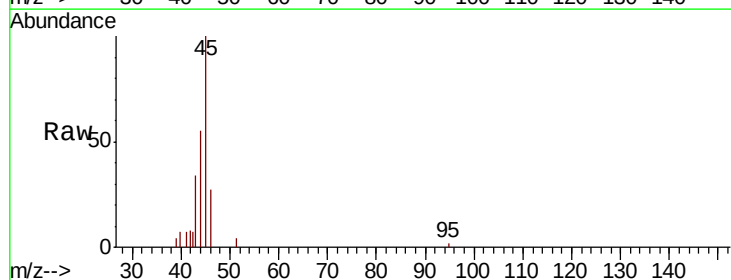
Acq: 23 Jun 2021 10:04

Tgt Ion: 45 Resp: 8670

Ion Ratio Lower Upper

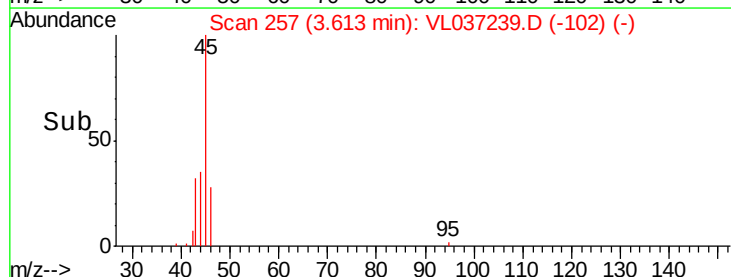
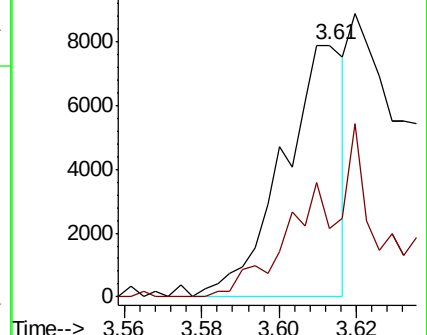
45 100

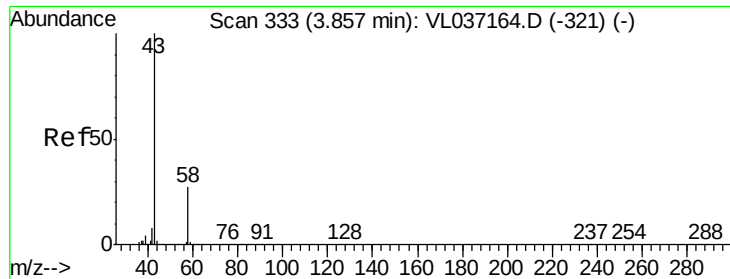
46 0.0 34.2 137.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

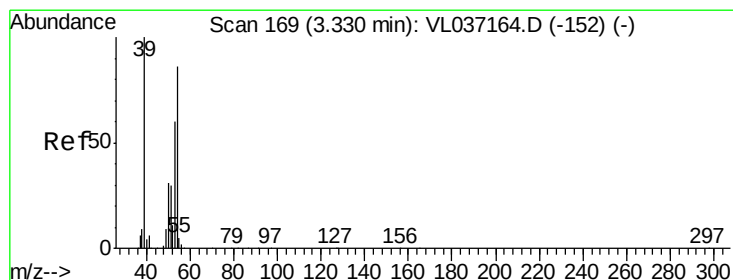
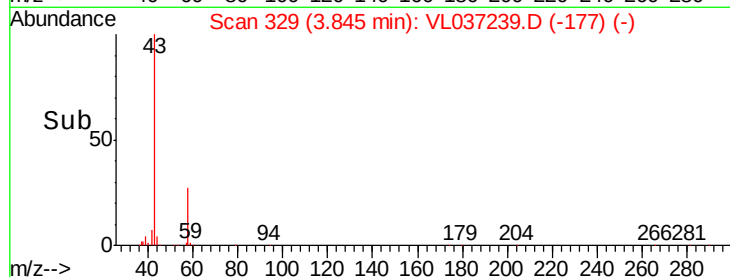
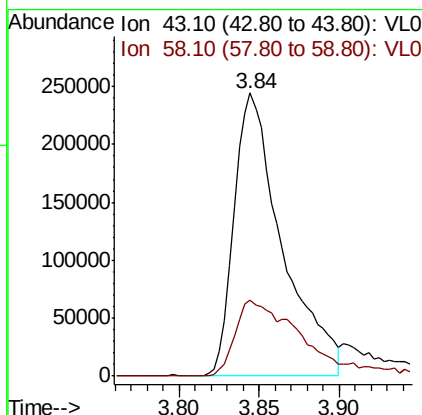
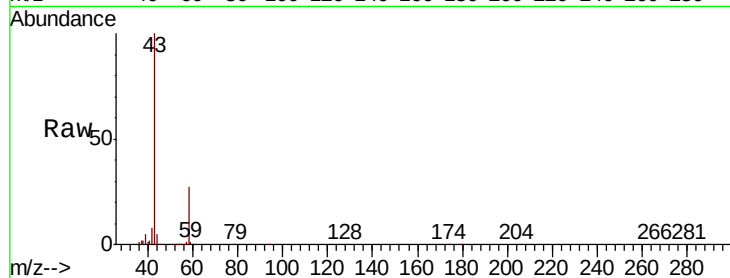




#15
Acetone
Concen: 2.959 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL037239.D
Acq: 23 Jun 2021 10:04

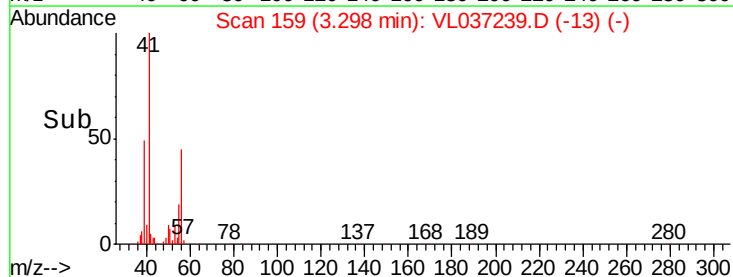
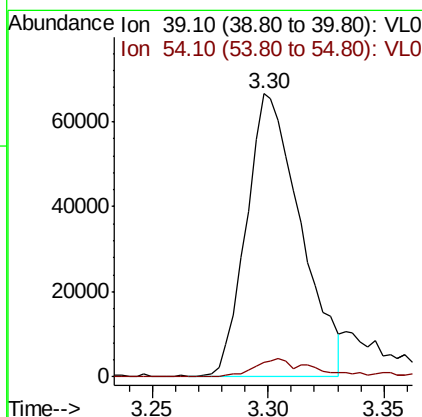
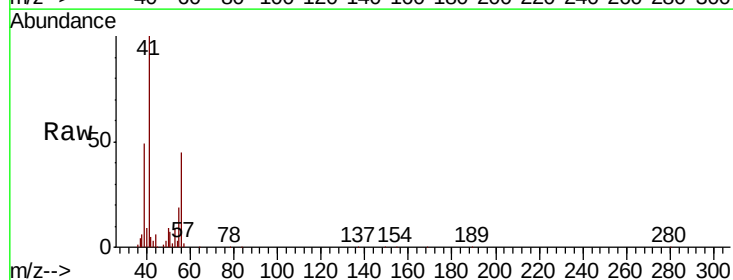
Instrument :
MSVOA_L
ClientSampleId :

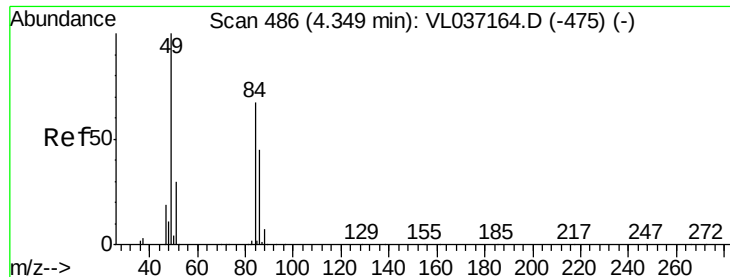
Tot Ion: 43 Resp: 502359
Ion Ratio Lower Upper
43 100
58 40.3 23.7 35.5#



#16
1,3-Butadiene
Concen: 1.077 ppbv
RT: 3.30 min Scan# 159
Delta R.T. -0.03 min
Lab File: VL037239.D
Acq: 23 Jun 2021 10:04

Tgt Ion: 39 Resp: 108098
Ion Ratio Lower Upper
39 100
54 7.7 61.2 91.8#

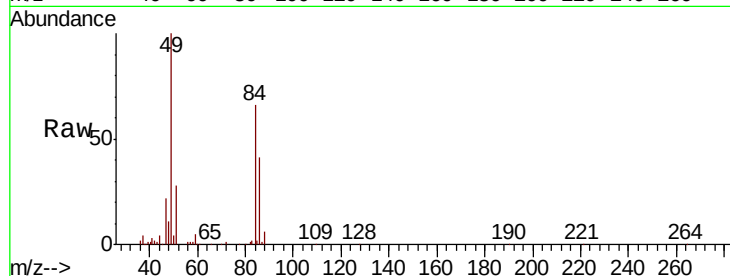




#20
Methvlene Chloride
Concen: 0.544 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.02 min
Lab File: VL037239.D
Acq: 23 Jun 2021 10:04

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	84	Resp:	55236
Ion	Ratio	Lower	Upper
84	100		
49	151.8	119.7	179.5
51	41.2	36.1	54.1
86	62.1	53.7	80.5



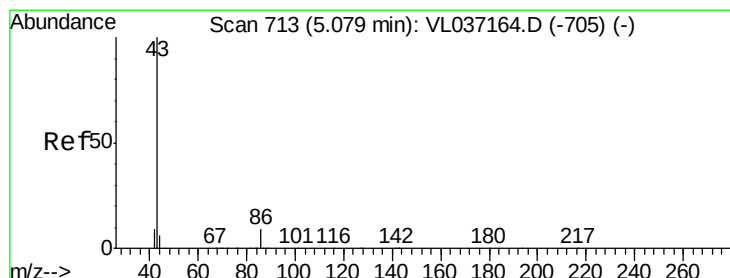
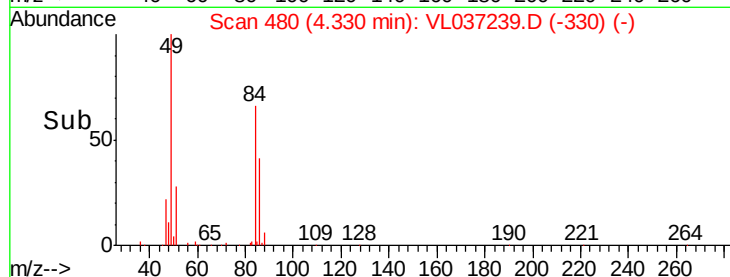
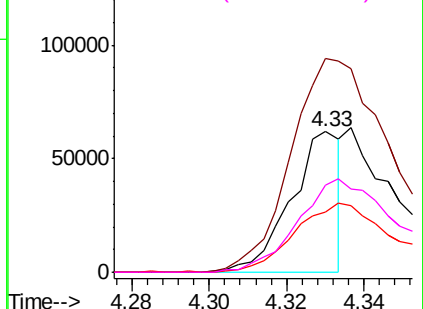
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

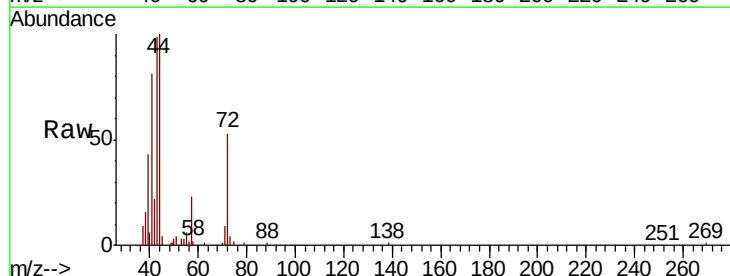
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#23
Vinyl Acetate
Concen: 0.265 ppbv
RT: 5.17 min Scan# 740
Delta R.T. 0.09 min
Lab File: VL037239.D
Acq: 23 Jun 2021 10:04

Tgt Ion:	43	Resp:	64552
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.8	8.8#
42	21.4	8.2	12.2#
44	96.8	4.2	6.4#



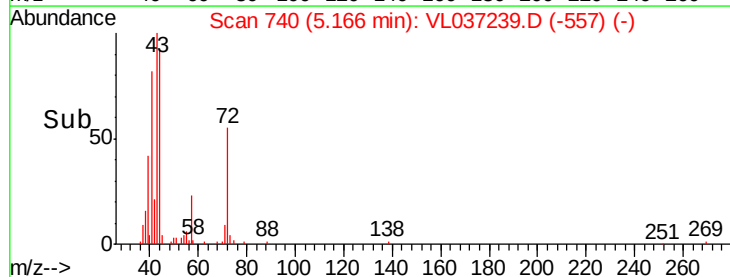
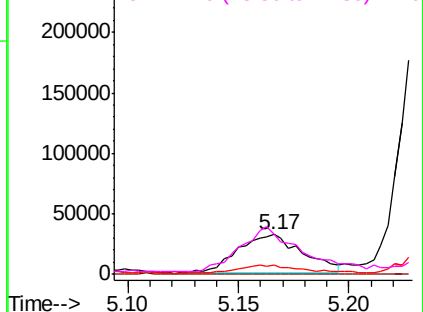
Abundance

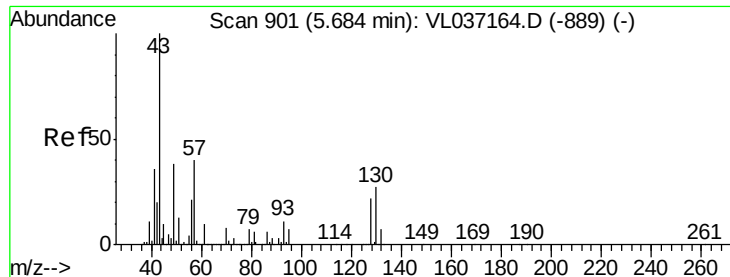
Ion 43.10 (42.80 to 43.80): VL0

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

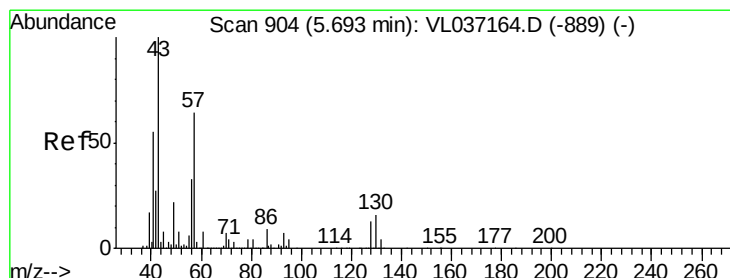
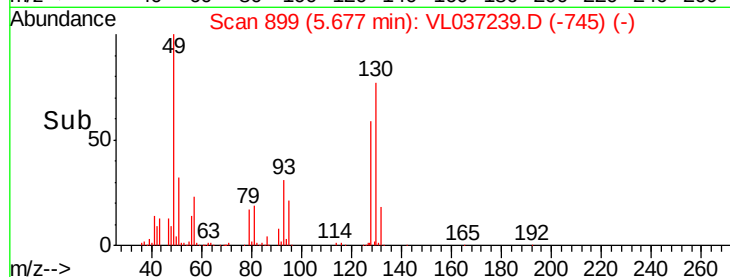
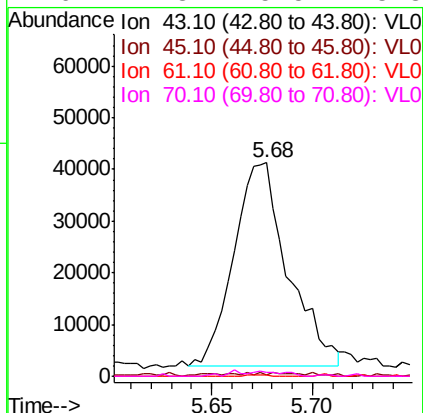
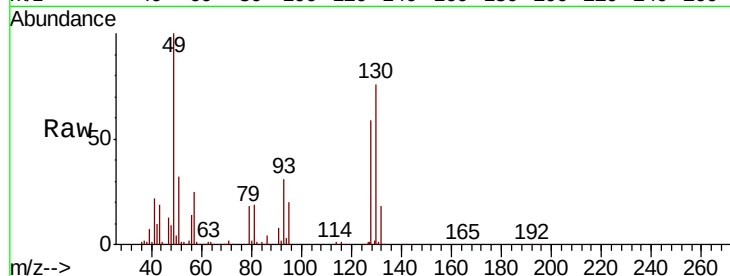




#25
Ethyl Acetate
Concen: 0.201 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL037239.D
Acq: 23 Jun 2021 10:04

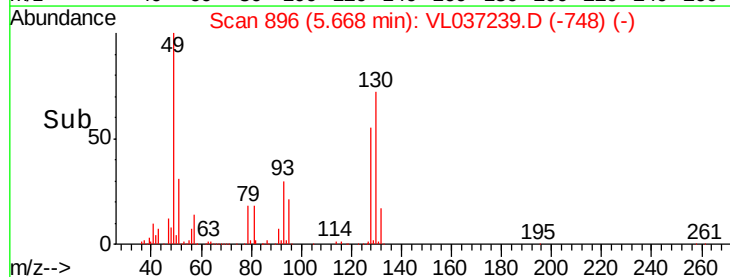
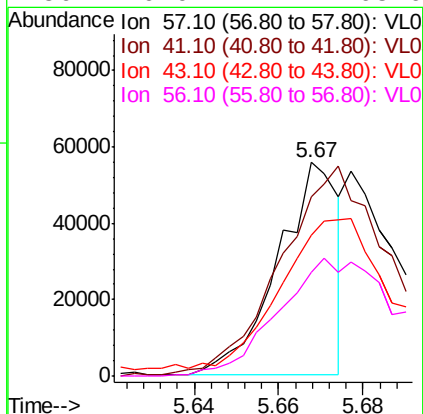
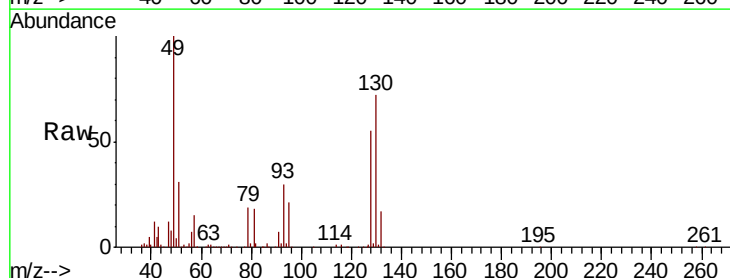
Instrument :
MSVOA_L
ClientSampleId :

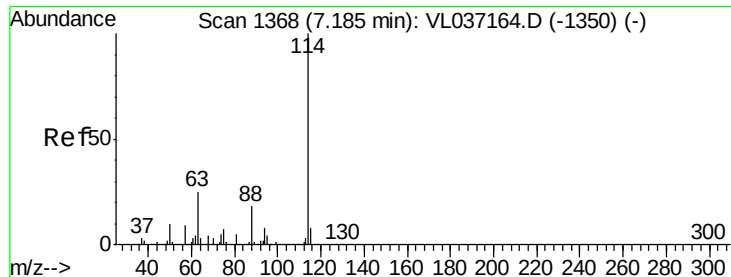
Tot Ion:	43	Resp:	73725
Ion	Ratio	Lower	Upper
43	100		
45	2.3	8.0	12.0#
61	0.3	8.1	12.1#
70	2.3	5.5	8.3#



#26
Hexane
Concen: 0.296 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.03 min
Lab File: VL037239.D
Acq: 23 Jun 2021 10:04

Tgt Ion:	57	Resp:	54994
Ion	Ratio	Lower	Upper
57	100		
41	0.0	73.5	110.3#
43	0.0	170.7	256.1#
56	0.0	42.4	63.6#

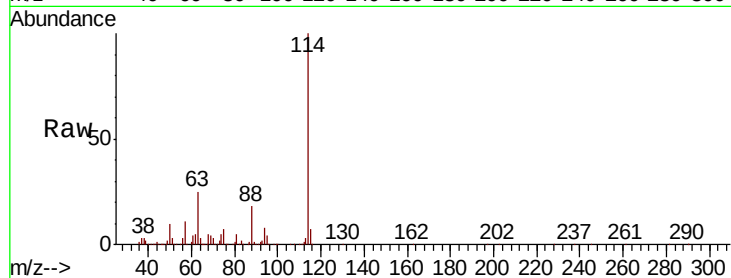




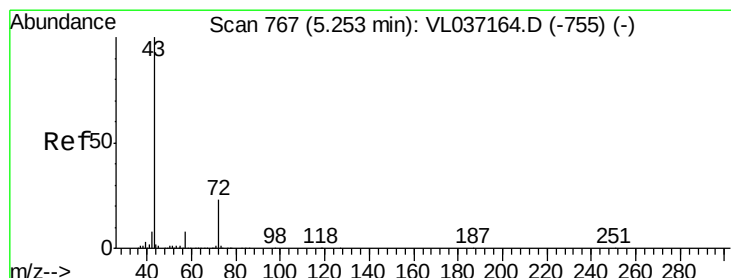
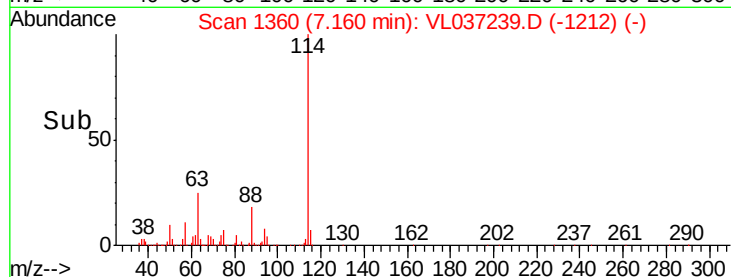
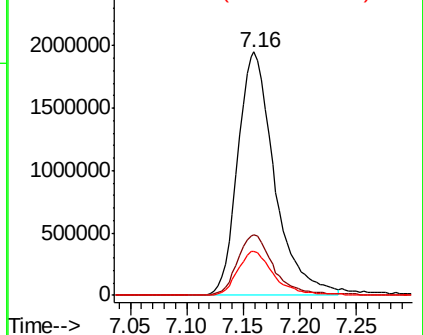
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.03 min
 Lab File: VL037239.D
 Acq: 23 Jun 2021 10:04

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 4418721
 Ion Ratio Lower Upper
 114 100
 63 25.2 19.6 29.4
 88 18.1 14.2 21.2

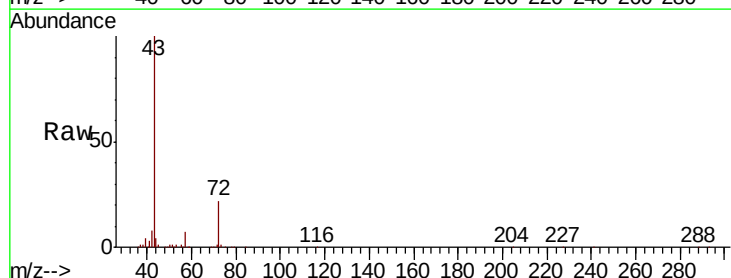


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

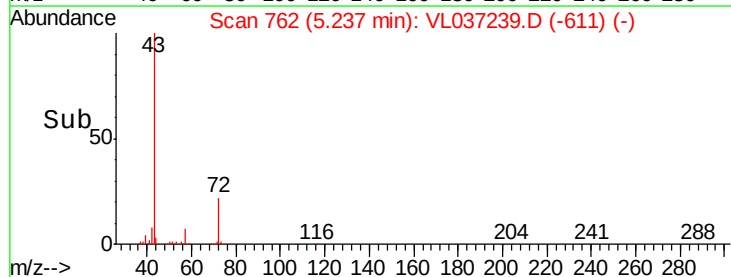
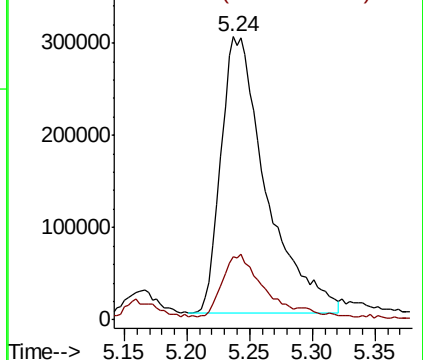


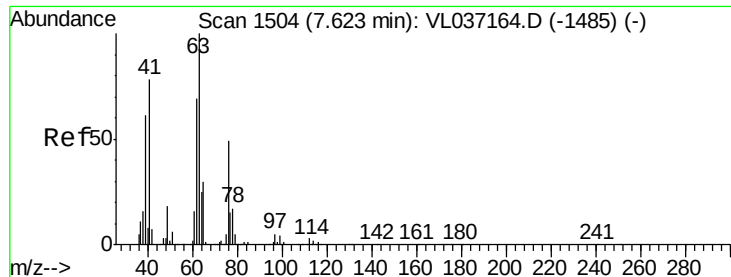
#34
 2-Butanone
 Concen: 4.386 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. -0.02 min
 Lab File: VL037239.D
 Acq: 23 Jun 2021 10:04

Tgt Ion: 43 Resp: 753671
 Ion Ratio Lower Upper
 43 100
 72 23.9 18.9 28.3



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 8.121 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.46 min

Lab File: VL037239.D

Acq: 23 Jun 2021 10:04

Instrument :

MSVOA_L

ClientSampleId :

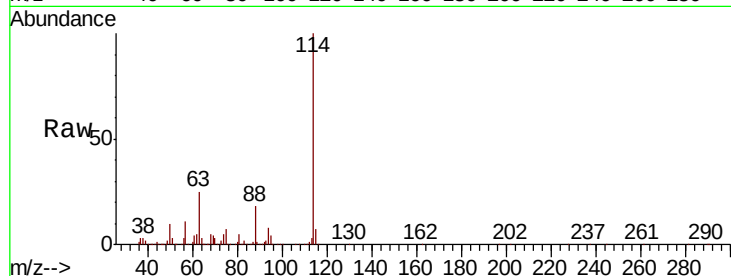
Tot Ion: 63 Resp: 1078303

Ion Ratio Lower Upper

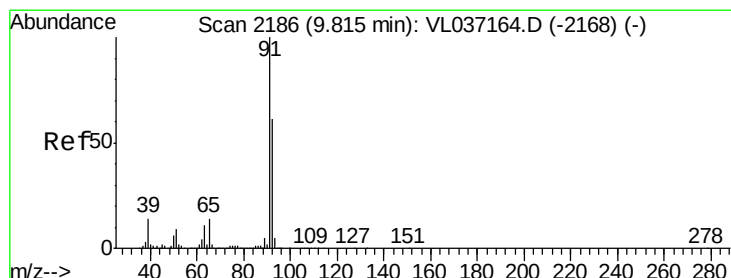
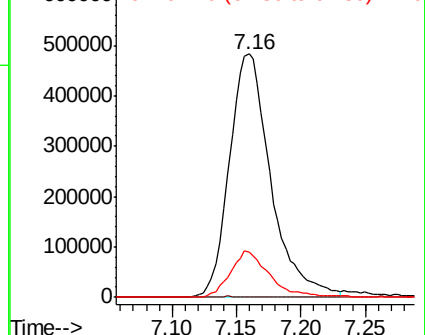
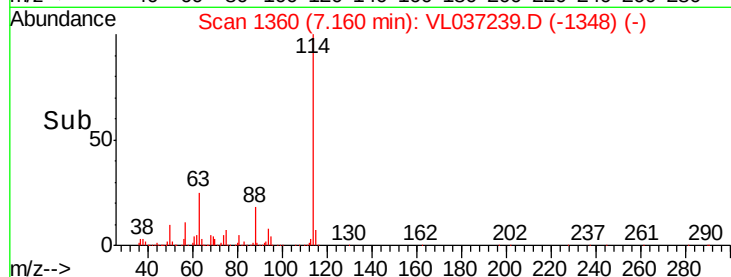
63 100

41 0.2 62.0 93.0#

62 18.5 54.9 82.3#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#53

Toluene

Concen: 0.037 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.03 min

Lab File: VL037239.D

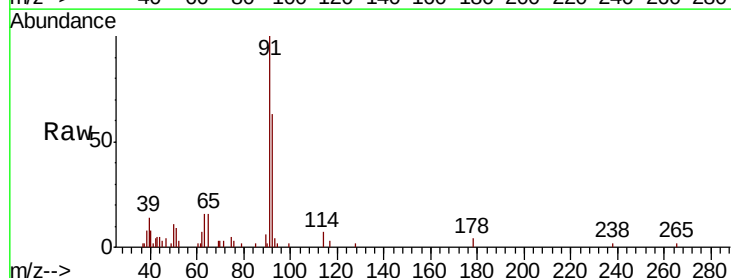
Acq: 23 Jun 2021 10:04

Tgt Ion: 91 Resp: 15747

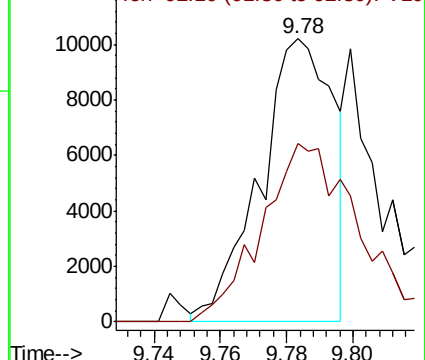
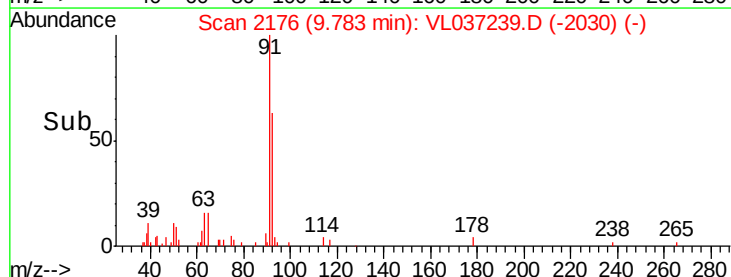
Ion Ratio Lower Upper

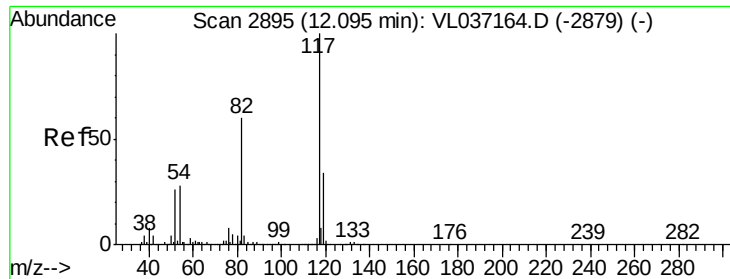
91 100

92 90.6 48.3 72.5#



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: 12.07 min Scan# 2886

Delta R.T. -0.03 min

Lab File: VL037239.D

Acq: 23 Jun 2021 10:04

Instrument :

MSVOA_L

ClientSampleId :

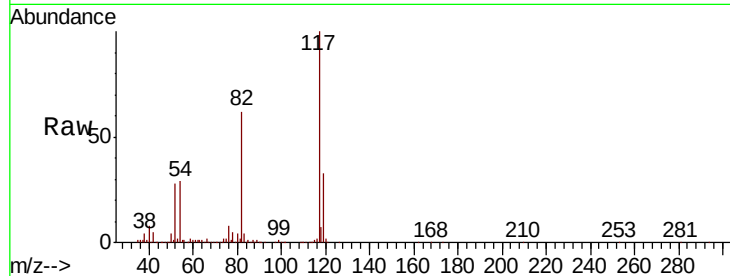
Tot Ion:117 Resp: 3876403

Ion Ratio Lower Upper

117 100

82 64.6 51.7 77.5

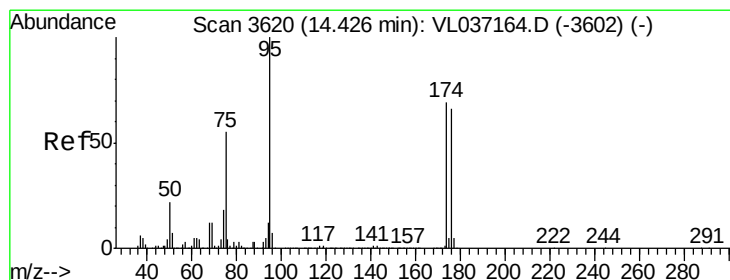
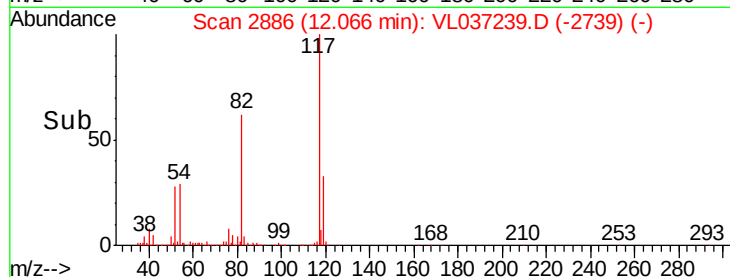
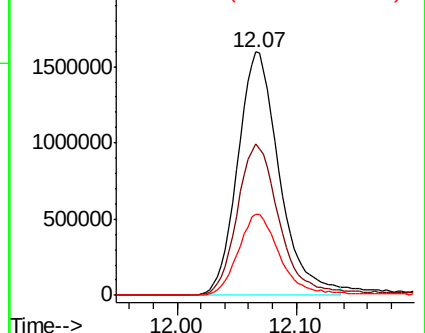
119 34.5 47.6 71.4#



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



#68

1-Bromo-4-Fluorobenzene

Concen: 9.730 ppbv

RT: 14.39 min Scan# 3610

Delta R.T. -0.03 min

Lab File: VL037239.D

Acq: 23 Jun 2021 10:04

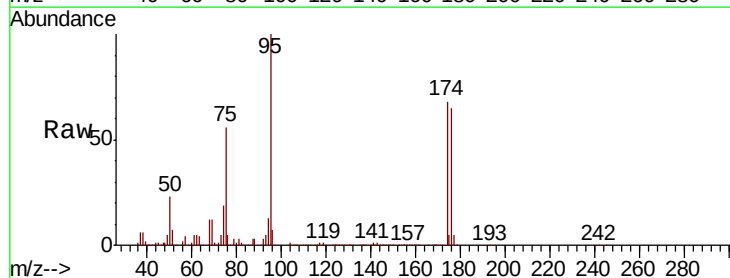
Tgt Ion: 95 Resp: 2858125

Ion Ratio Lower Upper

95 100

174 75.5 57.0 85.4

175 5.6 4.4 6.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

