

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062921\
 Data File : VL037253.D
 Acq On : 29 Jun 2021 17:38
 Operator : SY/AP
 Sample : M2887-03DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 30 05:21:56 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	5.66	49	1651581	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	4987791	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	4434162	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	3218674	9.58	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

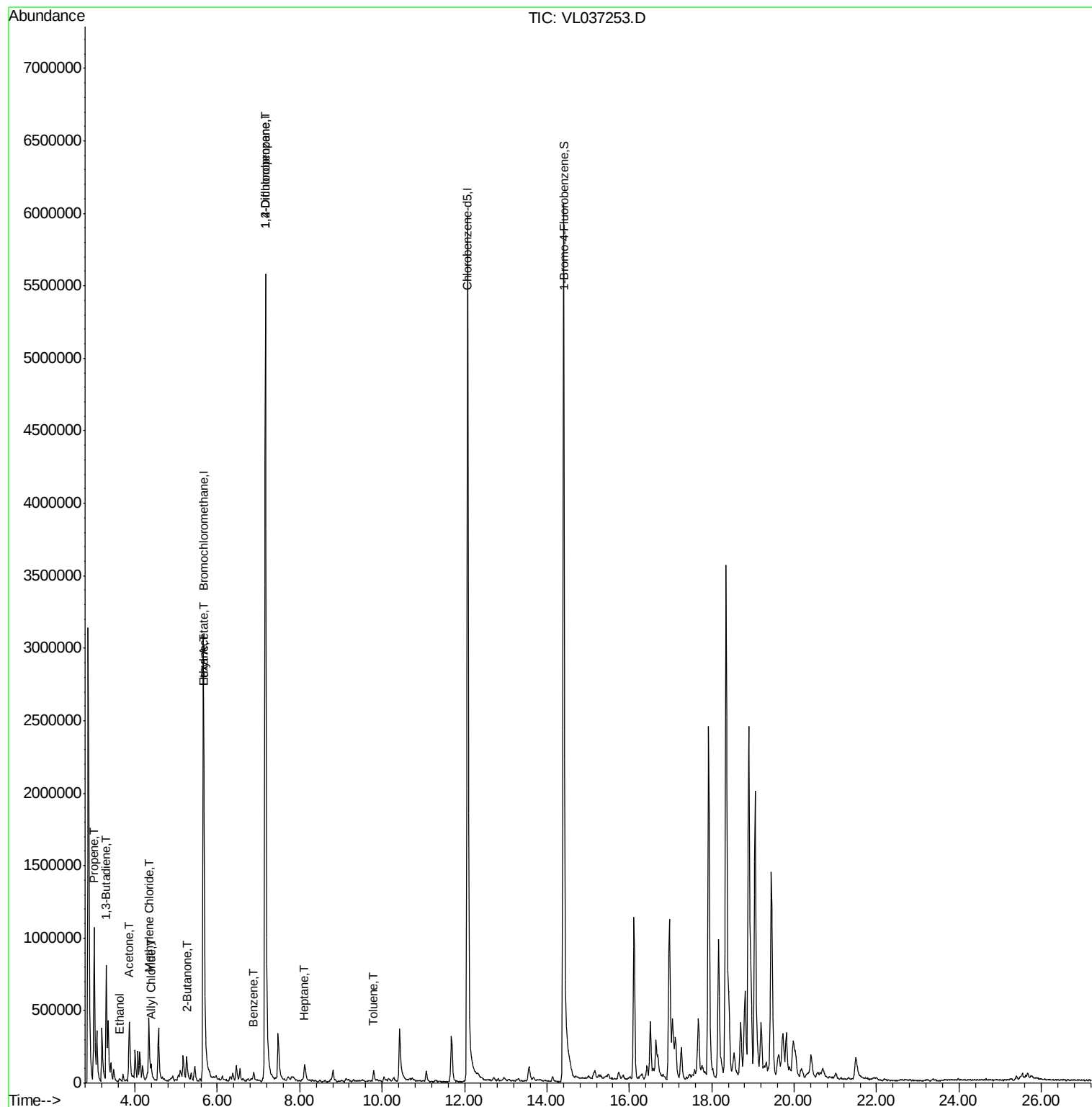
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	549134	5.348	ppbv	98
10) Heptane	8.10	43	15632	0.063	ppbv #	27
13) Ethanol	3.62	45	12211	0.769	ppbv	87
15) Acetone	3.86	43	463585	2.489	ppbv #	89
16) 1,3-Butadiene	3.30	39	310704	2.822	ppbv #	33
20) Methylene Chloride	4.34	84	162213	1.455	ppbv	91
21) Allyl Chloride	4.39	41	11378	0.081	ppbv #	1
25) Ethyl Acetate	5.68	43	116380	0.289	ppbv #	78
26) Hexane	5.68	57	163884	0.804	ppbv #	43
34) 2-Butanone	5.25	43	237916	1.226	ppbv #	89
36) Benzene	6.88	78	52531	0.130	ppbv #	83
39) 1,2-Dichloropropane	7.17	63	1206730	8.052	ppbv #	23
53) Toluene	9.79	91	63415	0.132	ppbv	94

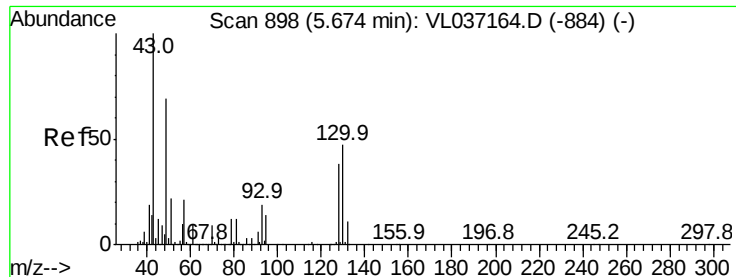
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\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: 5.66 min Scan# 893

Delta R.T. -0.02 min

Lab File: VL037253.D

Acq: 29 Jun 2021 17:38

Instrument :

MSVOA_L

ClientSampleId :

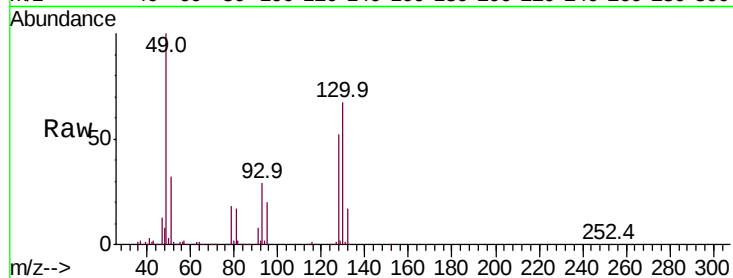
Tot Ion: 49 Resp: 1651581

Ion Ratio Lower Upper

49 100

128 56.3 29.3 88.0

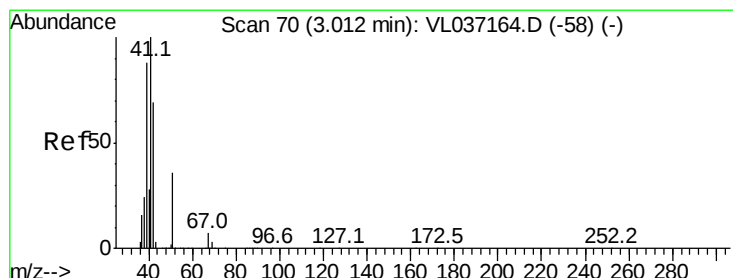
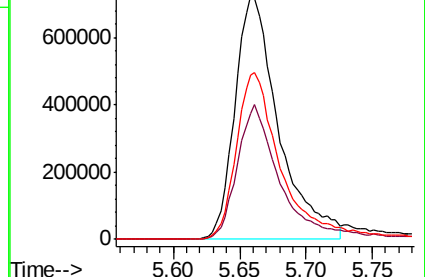
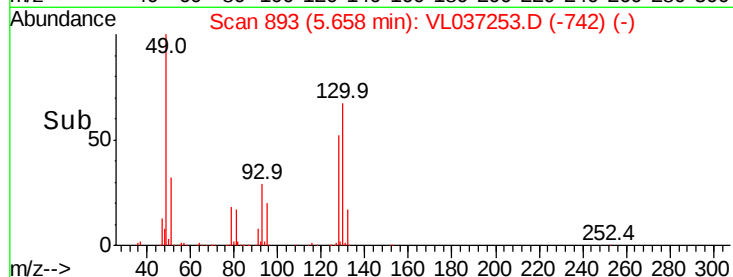
130 73.4 35.9 107.8



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



#9

Propene

Concen: 5.348 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL037253.D

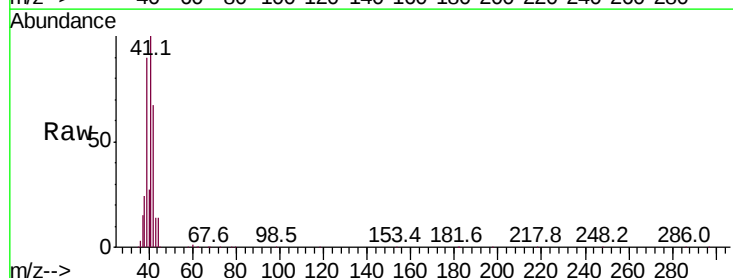
Acq: 29 Jun 2021 17:38

Tgt Ion: 41 Resp: 549134

Ion Ratio Lower Upper

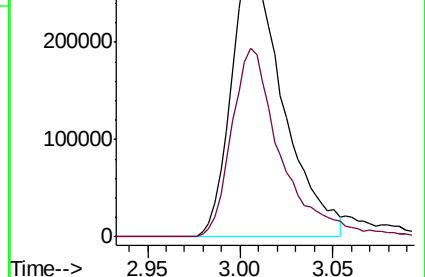
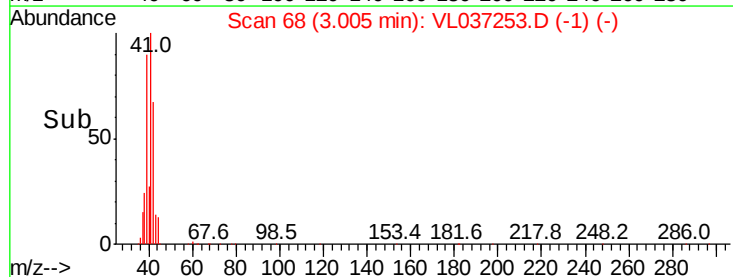
41 100

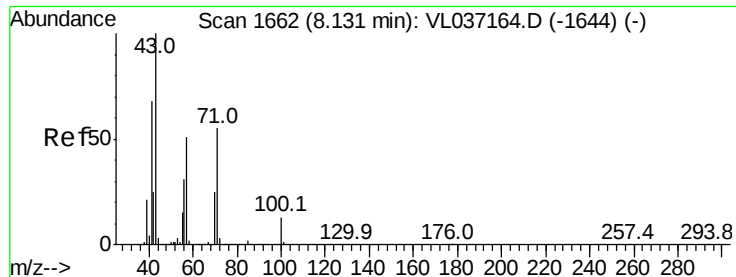
42 66.5 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

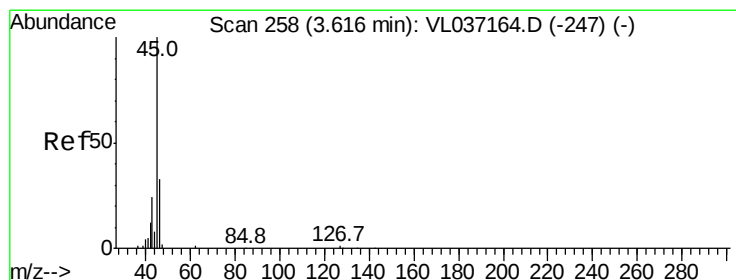
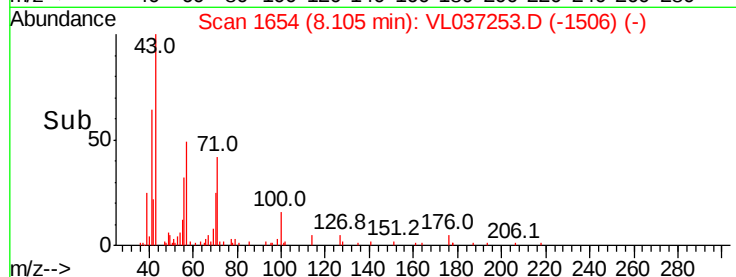
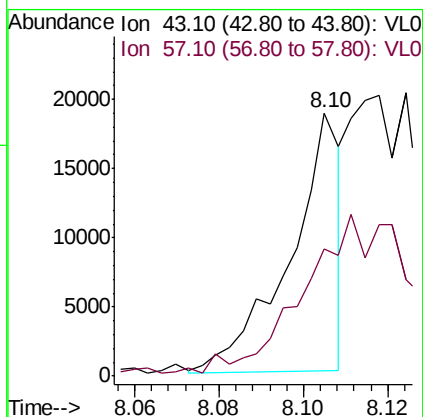
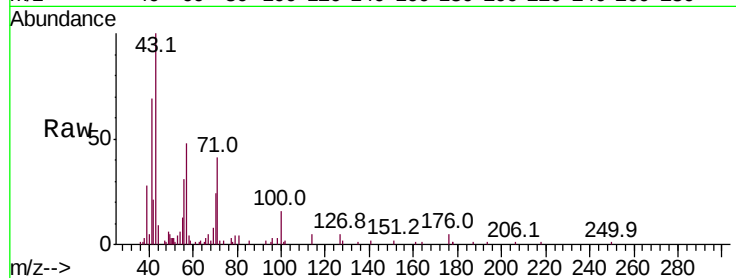




#10
Heptane
Concen: 0.063 ppbv
RT: 8.10 min Scan# 1654
Delta R.T. -0.03 min
Lab File: VL037253.D
Acq: 29 Jun 2021 17:38

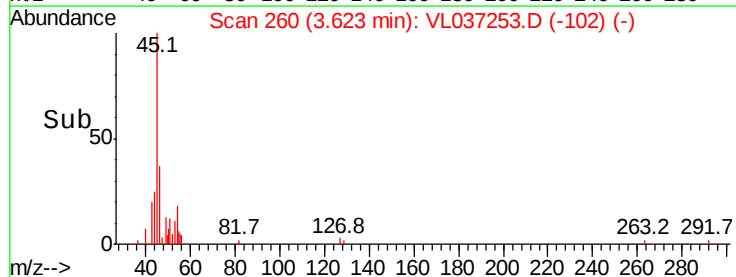
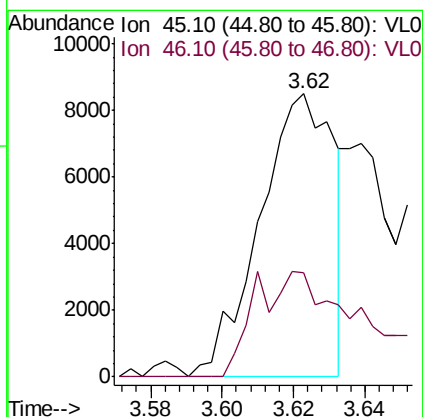
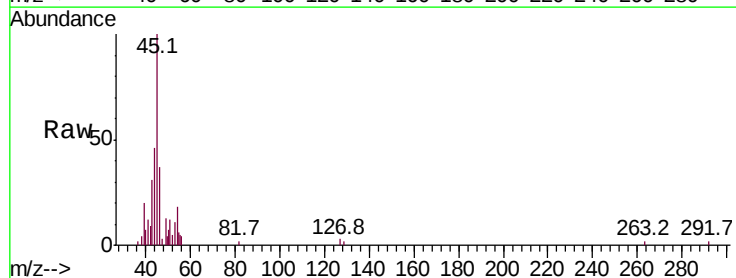
Instrument :
MSVOA_L
ClientSampled :

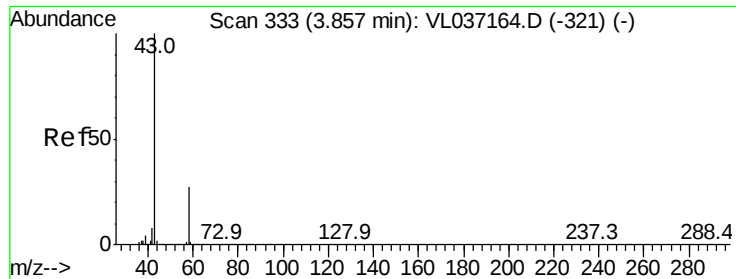
Tot Ion: 43 Resp: 15632
Ion Ratio Lower Upper
43 100
57 0.0 40.6 61.0#



#13
Ethanol
Concen: 0.769 ppbv
RT: 3.62 min Scan# 260
Delta R.T. 0.01 min
Lab File: VL037253.D
Acq: 29 Jun 2021 17:38

Tgt Ion: 45 Resp: 12211
Ion Ratio Lower Upper
45 100
46 73.5 34.2 137.0





#15

Acetone

Concen: 2.489 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL037253.D

Acq: 29 Jun 2021 17:38

Instrument :

MSVOA_L

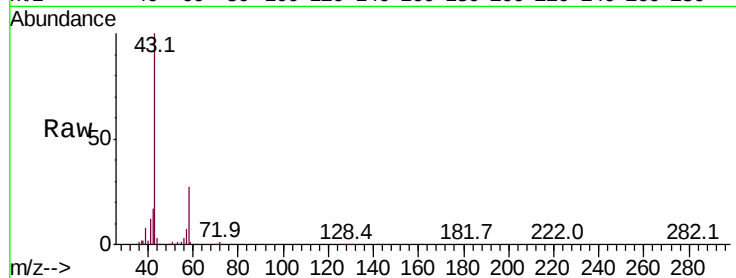
ClientSampleId :

Tot Ion: 43 Resp: 463585

Ion Ratio Lower Upper

43 100

58 35.6 23.7 35.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.86

200000

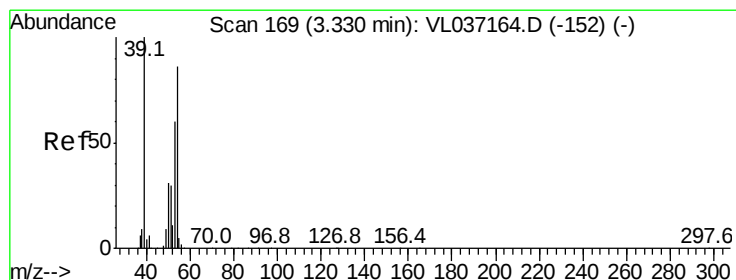
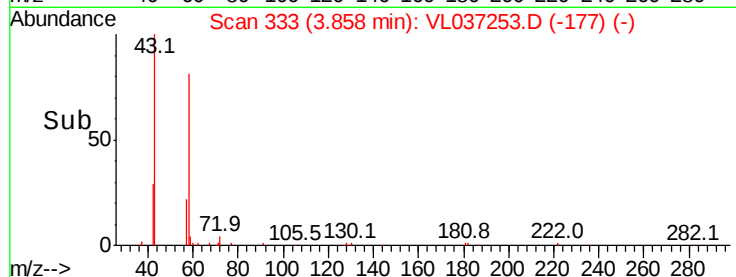
150000

100000

50000

0

Time-->



#16

1,3-Butadiene

Concen: 2.822 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.03 min

Lab File: VL037253.D

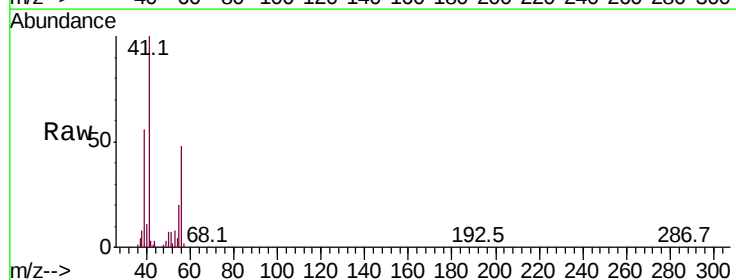
Acq: 29 Jun 2021 17:38

Tgt Ion: 39 Resp: 310704

Ion Ratio Lower Upper

39 100

54 18.7 61.2 91.8#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.30

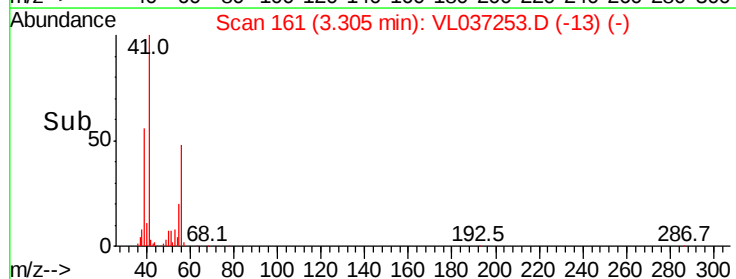
150000

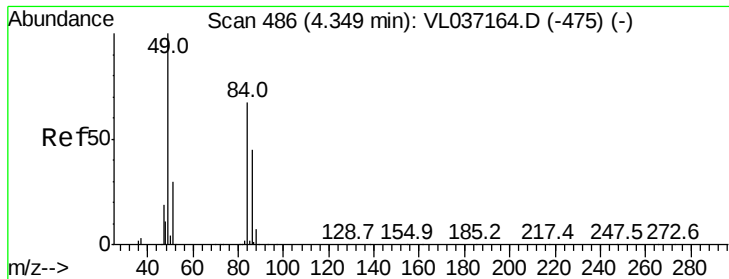
100000

50000

0

Time-->

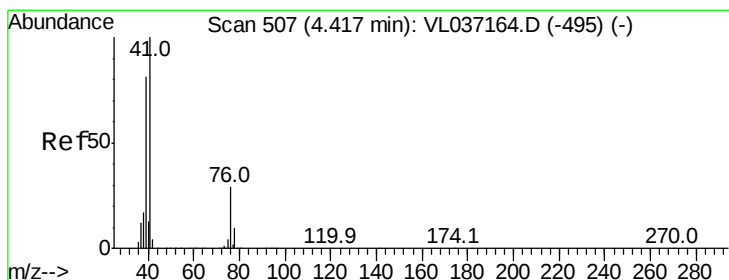
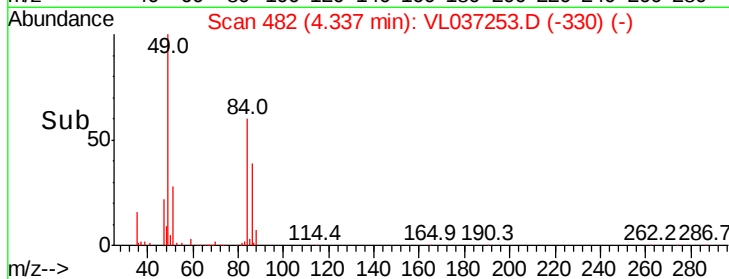
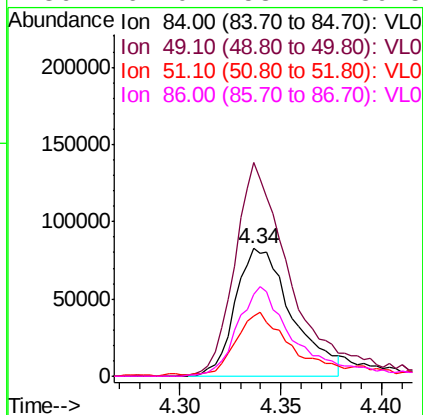
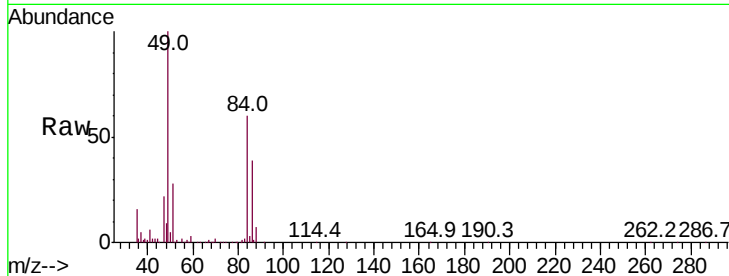




#20
Methylene Chloride
Concen: 1.455 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL037253.D
Acq: 29 Jun 2021 17:38

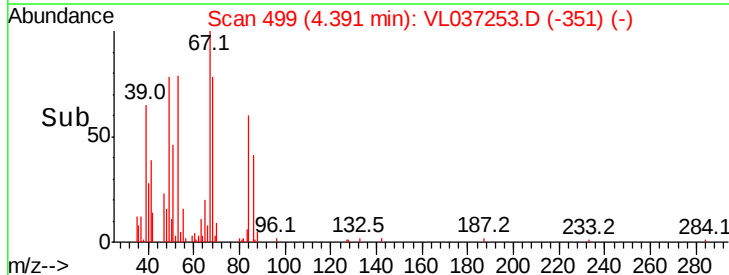
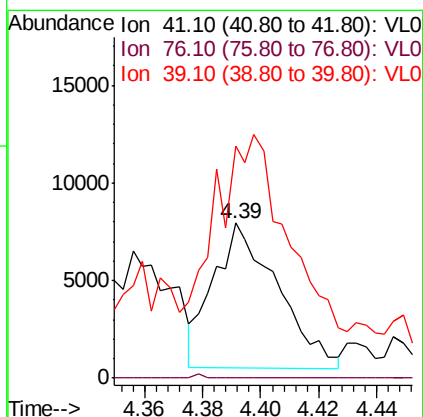
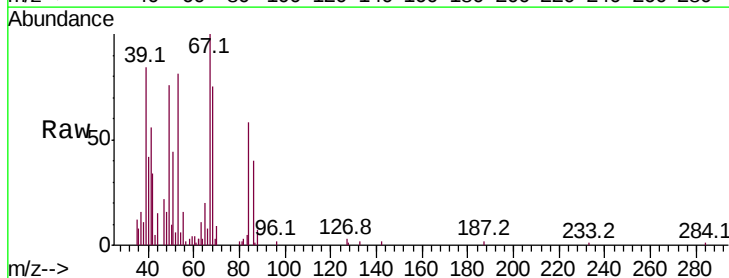
Instrument :
MSVOA_L
ClientSampleId :

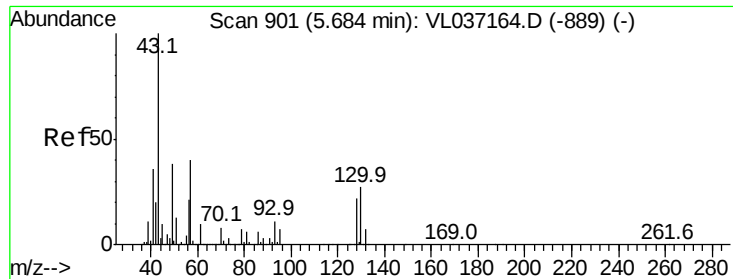
Tot Ion:	84	Resp:	162213
Ion	Ratio	Lower	Upper
84	100		
49	166.4	119.7	179.5
51	45.8	36.1	54.1
86	64.0	53.7	80.5



#21
Allyl Chloride
Concen: 0.081 ppbv
RT: 4.39 min Scan# 499
Delta R.T. -0.03 min
Lab File: VL037253.D
Acq: 29 Jun 2021 17:38

Tgt Ion:	41	Resp:	11378
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.6	37.0#
39	304.5	65.4	98.0#

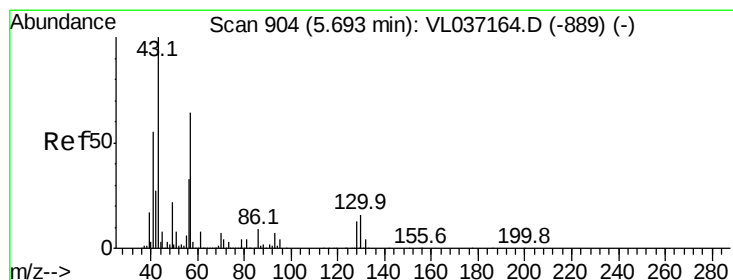
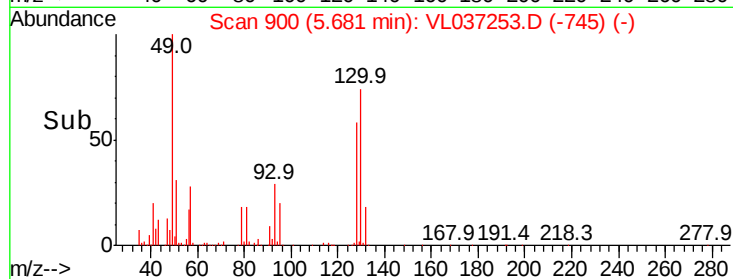
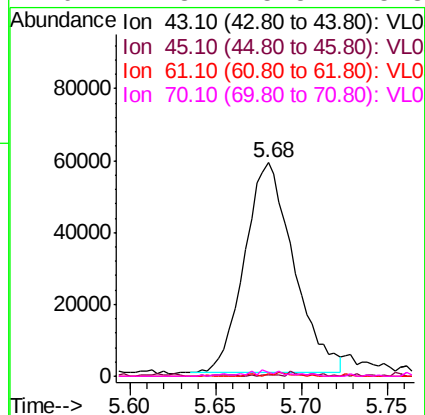
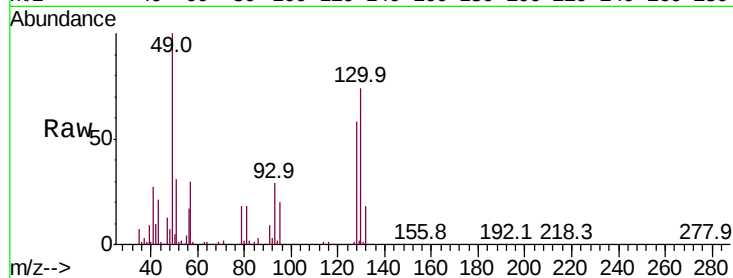




#25
Ethyl Acetate
Concen: 0.289 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL037253.D
Acq: 29 Jun 2021 17:38

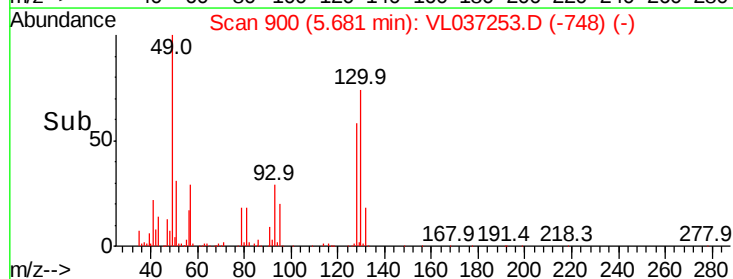
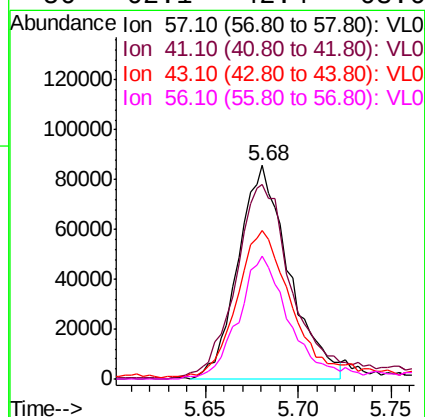
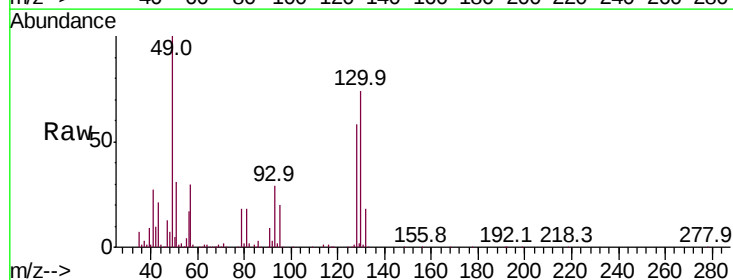
Instrument :
MSVOA_L
ClientSampleId :

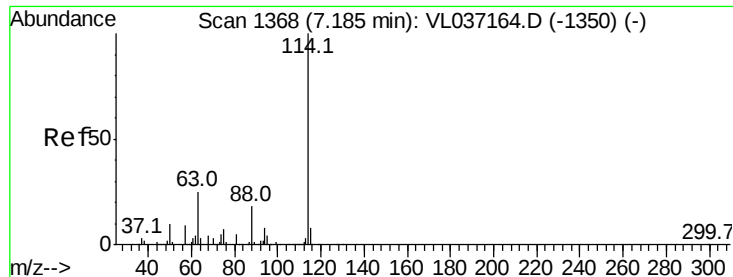
Tot Ion:	43	Resp:	116380
Ion	Ratio	Lower	Upper
43	100		
45	0.7	8.0	12.0#
61	0.9	8.1	12.1#
70	2.3	5.5	8.3#



#26
Hexane
Concen: 0.804 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL037253.D
Acq: 29 Jun 2021 17:38

Tgt Ion:	57	Resp:	163884
Ion	Ratio	Lower	Upper
57	100		
41	107.0	73.5	110.3
43	78.4	170.7	256.1#
56	62.1	42.4	63.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.02 min

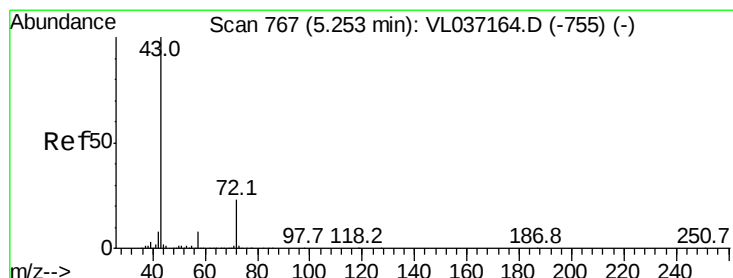
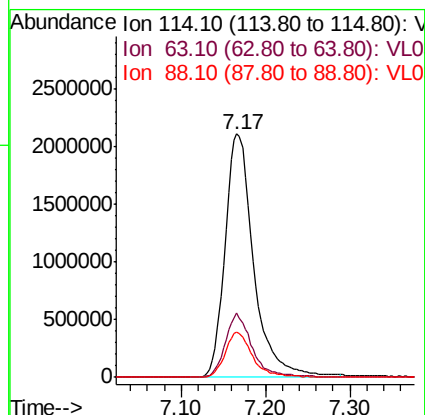
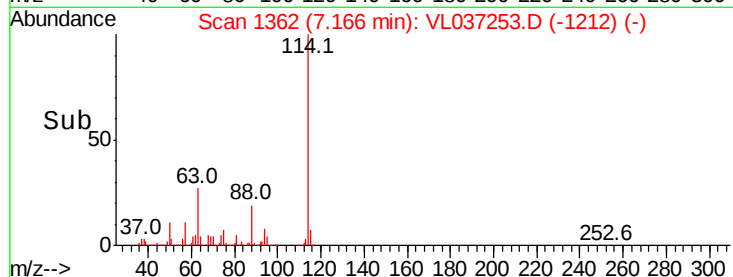
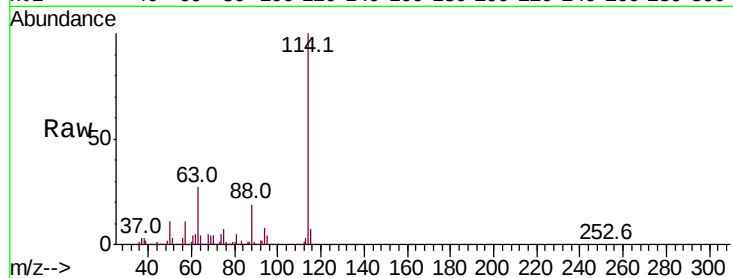
Lab File: VL037253.D

Acq: 29 Jun 2021 17:38

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:114 Resp: 4987791

Ion	Ratio	Lower	Upper
114	100		
63	25.1	19.6	29.4
88	18.0	14.2	21.2



#34

2-Butanone

Concen: 1.226 ppbv

RT: 5.25 min Scan# 767

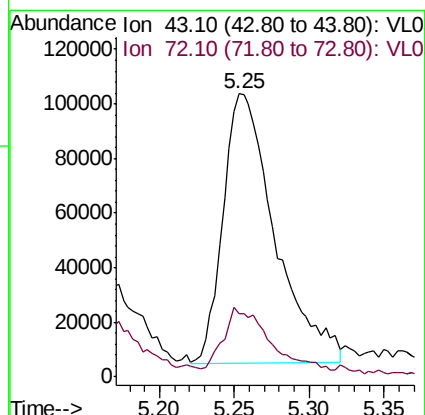
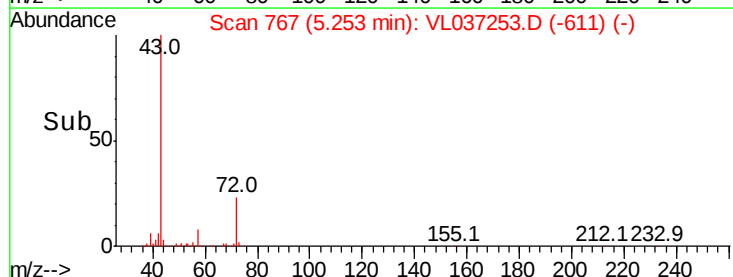
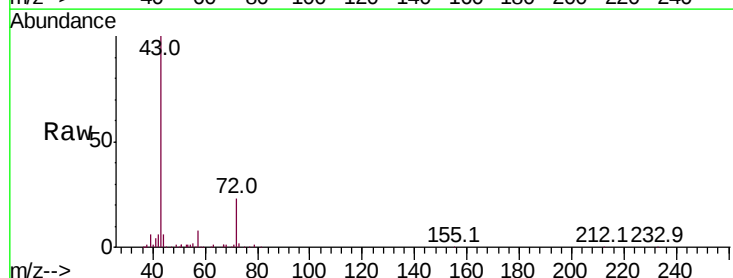
Delta R.T. 0.00 min

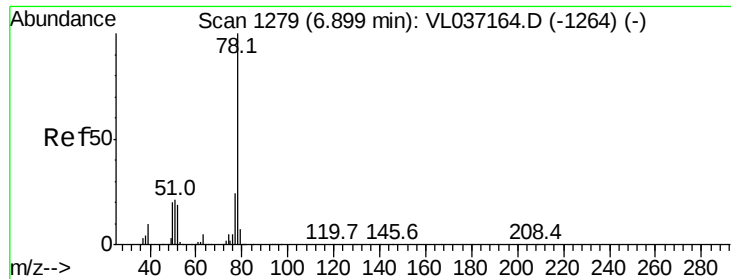
Lab File: VL037253.D

Acq: 29 Jun 2021 17:38

Tgt Ion: 43 Resp: 237916

Ion	Ratio	Lower	Upper
43	100		
72	29.2	18.9	28.3





#36

Benzene

Concen: 0.130 ppbv

RT: 6.88 min Scan# 1273

Delta R.T. -0.02 min

Lab File: VL037253.D

Acq: 29 Jun 2021 17:38

Instrument :

MSVOA_L

ClientSampleId :

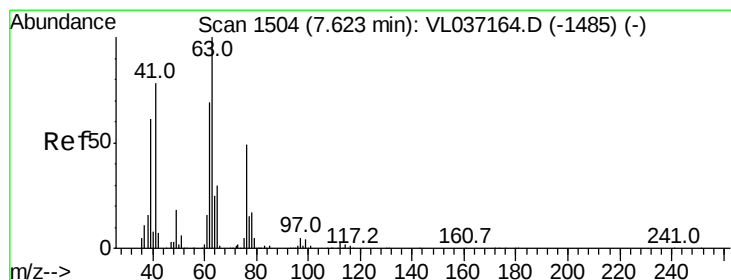
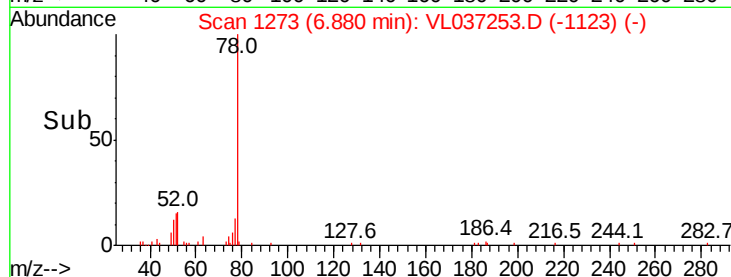
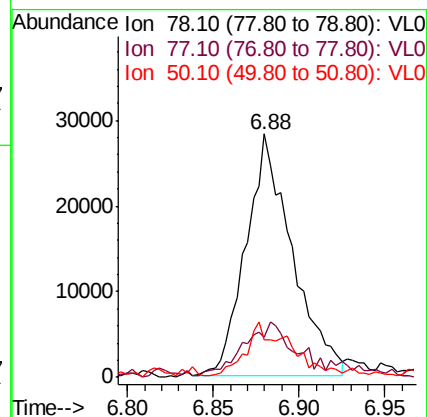
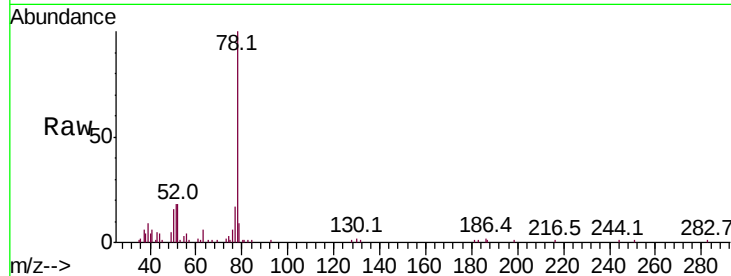
Tot Ion: 78 Resp: 52531

Ion Ratio Lower Upper

78 100

77 16.1 19.0 28.6#

50 11.4 15.7 23.5#



#39

1,2-Dichloropropane

Concen: 8.052 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.46 min

Lab File: VL037253.D

Acq: 29 Jun 2021 17:38

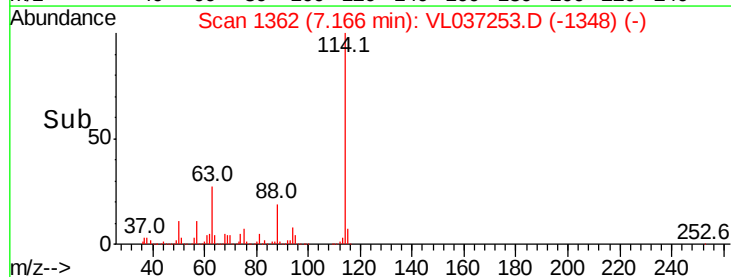
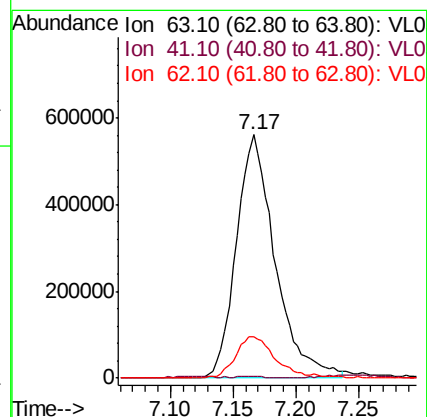
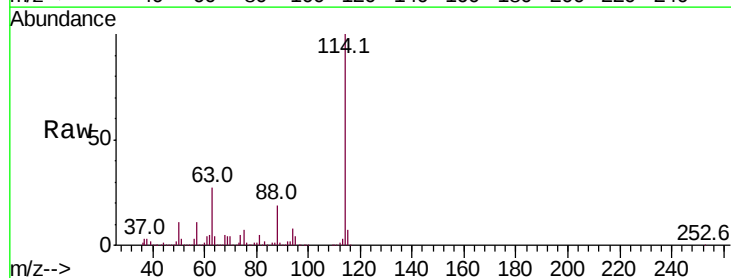
Tgt Ion: 63 Resp: 1206730

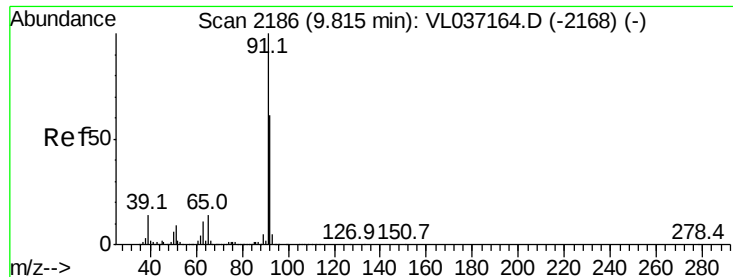
Ion Ratio Lower Upper

63 100

41 0.1 62.0 93.0#

62 17.0 54.9 82.3#





#53

Toluene

Concen: 0.132 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.02 min

Lab File: VL037253.D

Acq: 29 Jun 2021 17:38

Instrument :

MSVOA_L

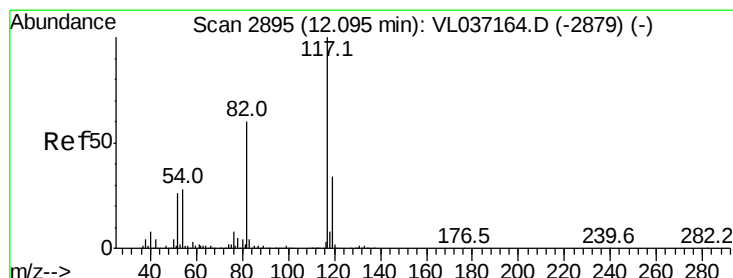
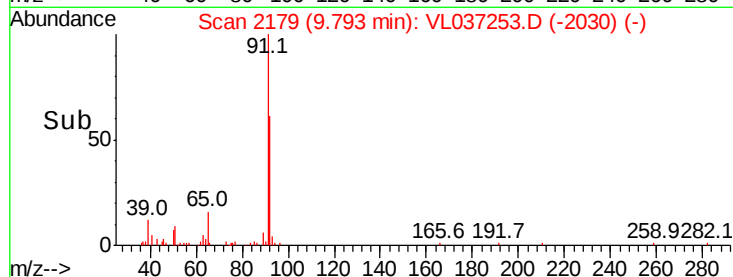
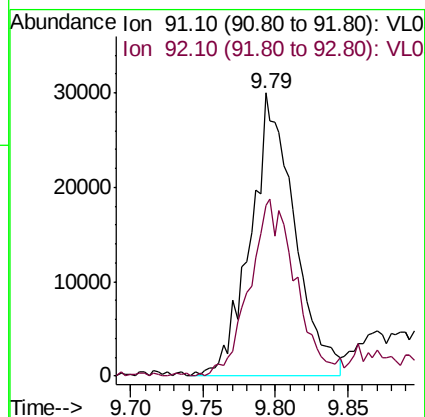
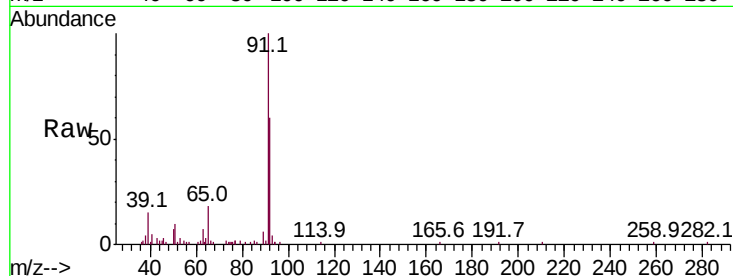
ClientSampleId :

Tot Ion: 91 Resp: 63415

Ion Ratio Lower Upper

91 100

92 64.8 48.3 72.5



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.02 min

Lab File: VL037253.D

Acq: 29 Jun 2021 17:38

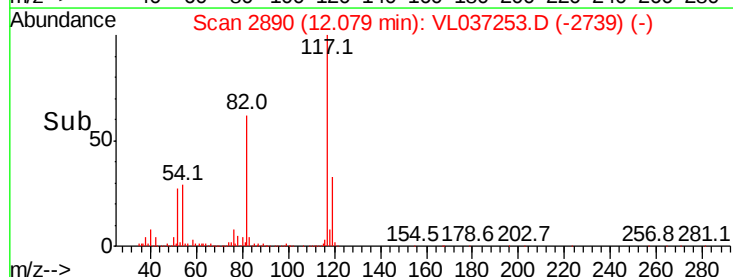
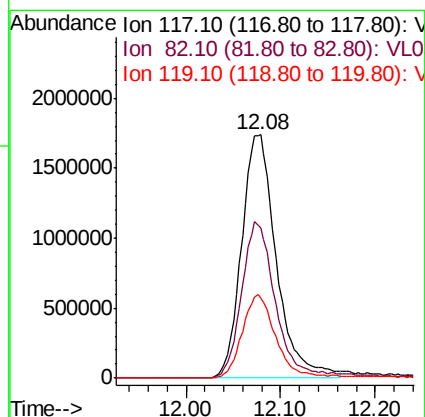
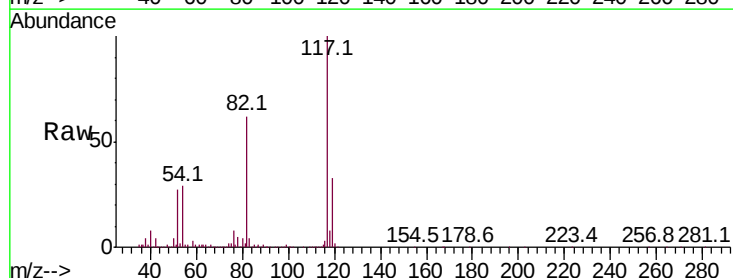
Tgt Ion: 117 Resp: 4434162

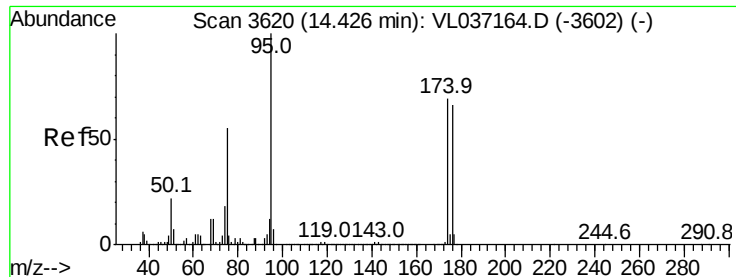
Ion Ratio Lower Upper

117 100

82 65.0 51.7 77.5

119 34.6 47.6 71.4#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.579 ppbv

RT: 14.40 min Scan# 3613

Delta R.T. -0.02 min

Lab File: VL037253.D

Acq: 29 Jun 2021 17:38

Instrument :

MSVOA_L

ClientSampleId :

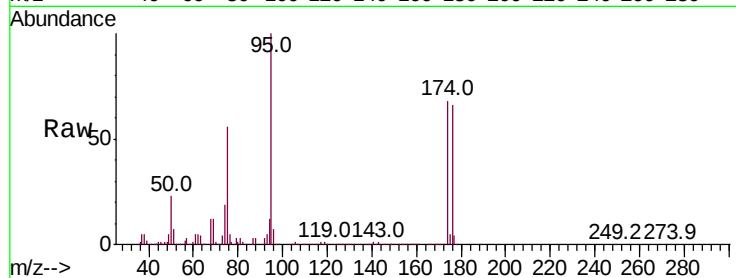
Tot Ion: 95 Resp: 3218674

Ion Ratio Lower Upper

95 100

174 76.7 57.0 85.4

175 5.4 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

