

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062921\
 Data File : VL037250.D
 Acq On : 29 Jun 2021 15:41
 Operator : SY/AP
 Sample : M2887-01 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 30 05:21:22 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	1796362	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	5163788	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	4602660	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	3399616	9.75	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.50%

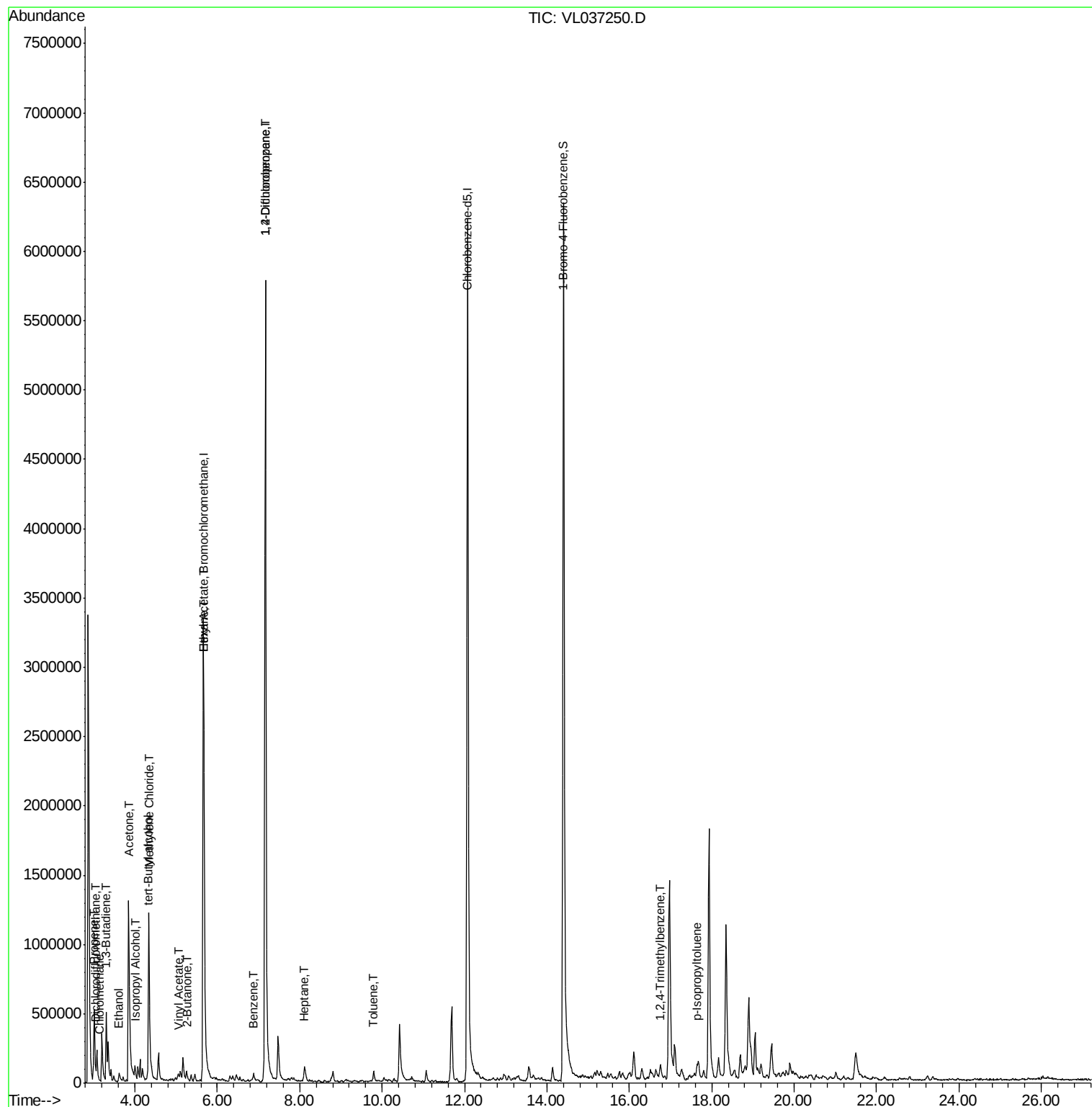
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	12166	0.039	ppbv 89
4) Chloromethane	3.14	50	3577	0.031	ppbv # 77
9) Propene	3.00	41	278963	2.498	ppbv 93
10) Heptane	8.11	43	17078	0.063	ppbv # 27
13) Ethanol	3.61	45	37773	2.186	ppbv 93
15) Acetone	3.84	43	2006111	9.903	ppbv 97
16) 1,3-Butadiene	3.30	39	189493	1.582	ppbv # 32
17) tert-Butyl alcohol	4.32	59	34138	0.182	ppbv # 82
19) Isopropyl Alcohol	3.99	45	18261	0.149	ppbv # 91
20) Methylene Chloride	4.34	84	511070	4.214	ppbv 98
23) Vinyl Acetate	5.06	43	19405	0.067	ppbv # 69
25) Ethyl Acetate	5.68	43	261948	0.597	ppbv # 77
26) Hexane	5.68	57	371374	1.676	ppbv # 46
34) 2-Butanone	5.26	43	86187	0.429	ppbv # 75
36) Benzene	6.88	78	45069	0.108	ppbv # 91
39) 1,2-Dichloropropane	7.16	63	1255418	8.091	ppbv # 23
53) Toluene	9.79	91	60192	0.121	ppbv 100
69) p-Isopropyltoluene	17.64	119	29030	0.040	ppbv # 35
74) 1,2,4-Trimethylbenzene	16.75	105	61916	0.107	ppbv # 70

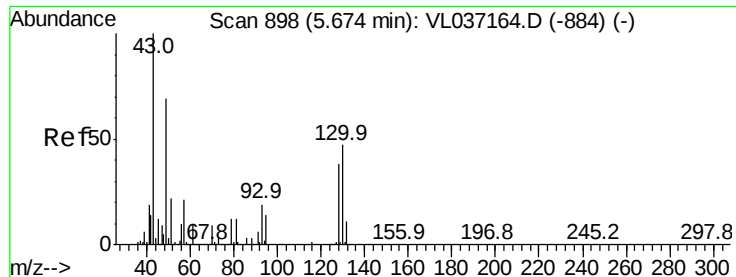
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062921\
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Quant Time: Jun 30 05:21:22 2021
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: VL037250.D

Acq: 29 Jun 2021 15:41

Instrument :
MSVOA_L
ClientSampleId :

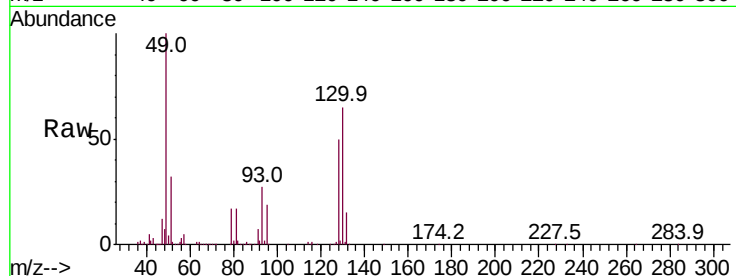
Tot Ion: 49 Resp: 1796362

Ion Ratio Lower Upper

49 100

128 54.2 29.3 88.0

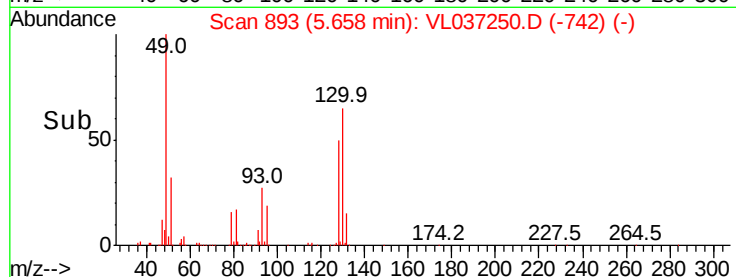
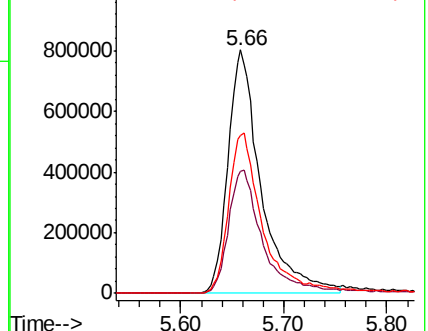
130 68.6 35.9 107.8



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



#2

Dichlorodifluoromethane

Concen: 0.039 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL037250.D

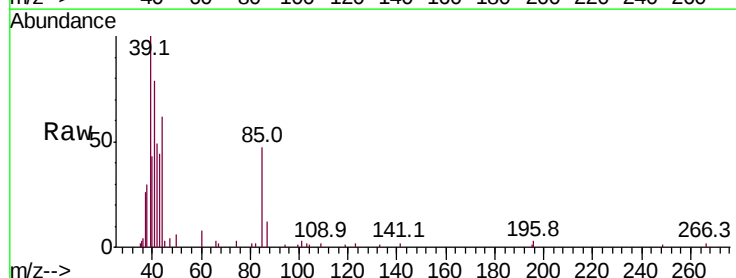
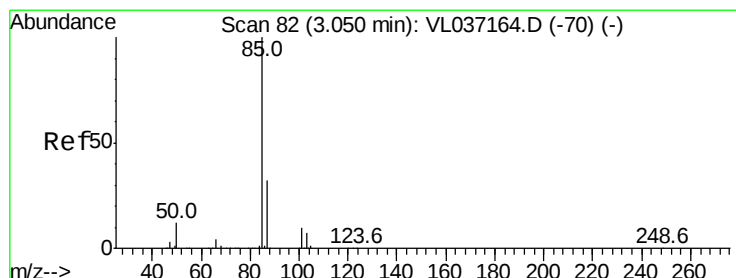
Acq: 29 Jun 2021 15:41

Tgt Ion: 85 Resp: 12166

Ion Ratio Lower Upper

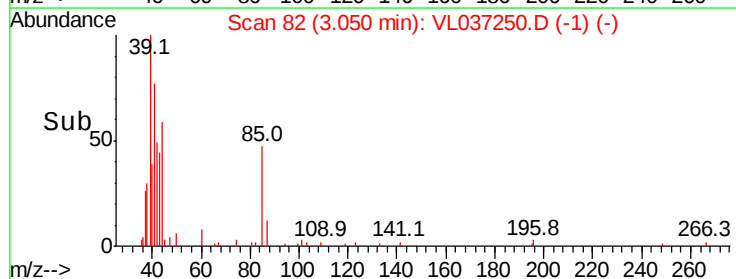
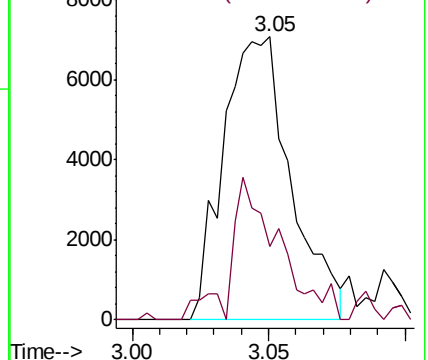
85 100

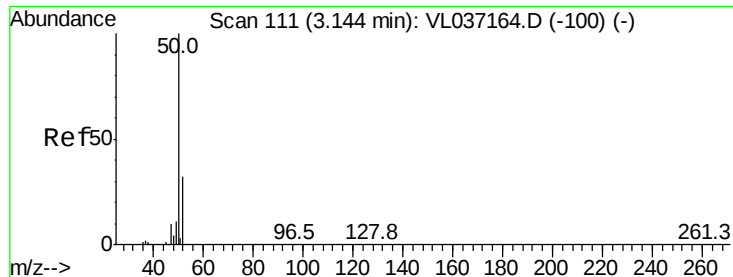
87 26.1 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.031 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL037250.D

Acq: 29 Jun 2021 15:41

Instrument :

MSVOA_L

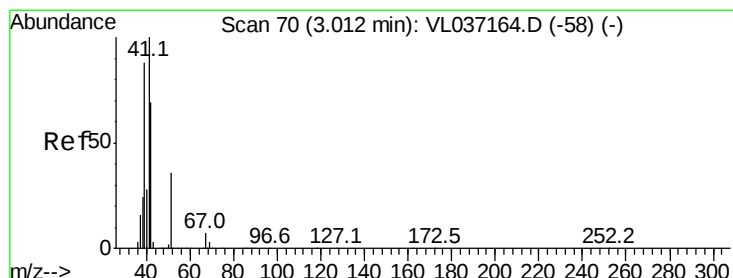
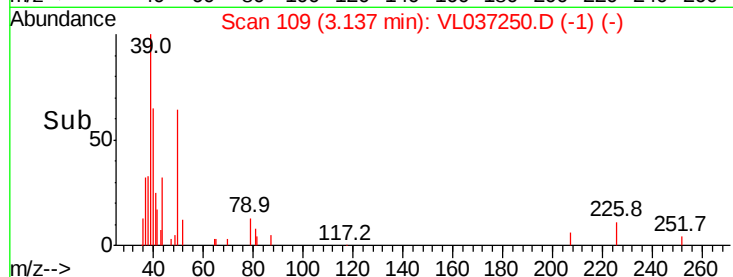
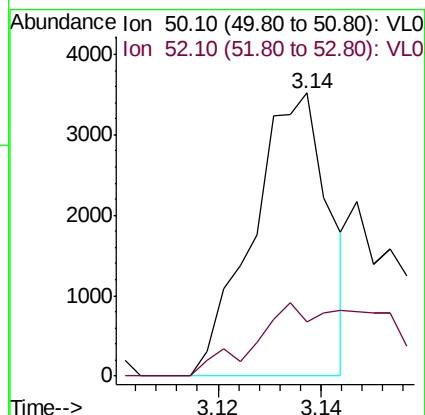
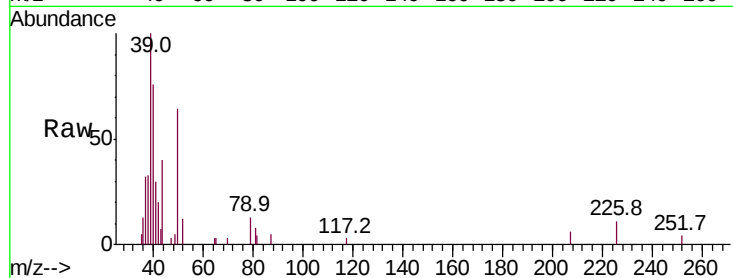
ClientSampleId :

Tot Ion: 50 Resp: 3577

Ion Ratio Lower Upper

50 100

52 19.2 25.8 38.8#



#9

Propene

Concen: 2.498 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL037250.D

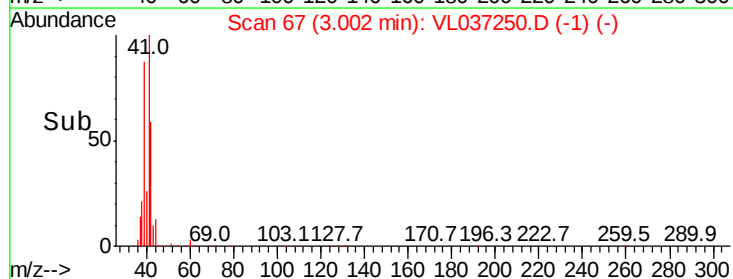
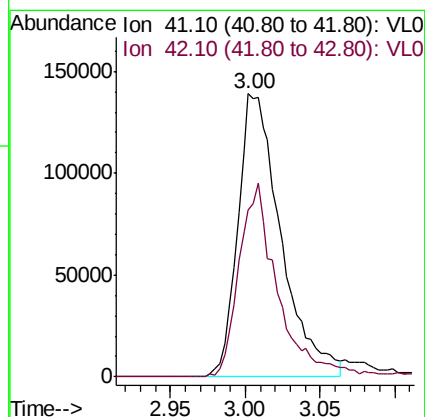
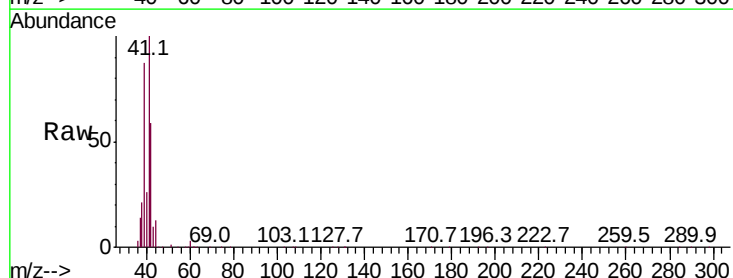
Acq: 29 Jun 2021 15:41

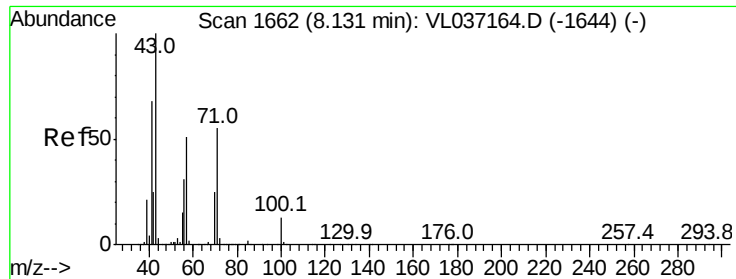
Tgt Ion: 41 Resp: 278963

Ion Ratio Lower Upper

41 100

42 62.3 54.5 81.7

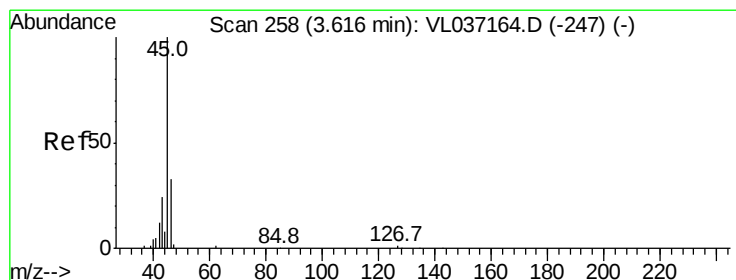
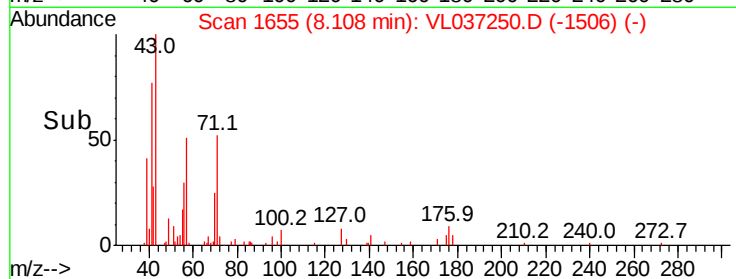
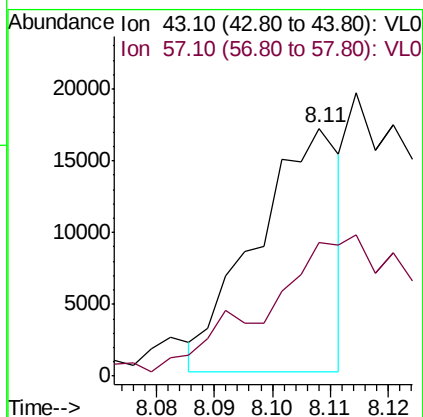
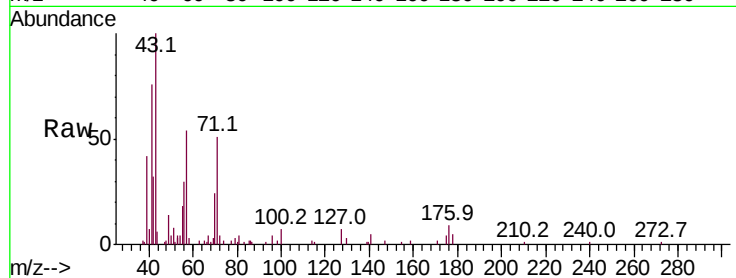




#10
Heptane
Concen: 0.063 ppbv
RT: 8.11 min Scan# 1655
Delta R.T. -0.02 min
Lab File: VL037250.D
Acq: 29 Jun 2021 15:41

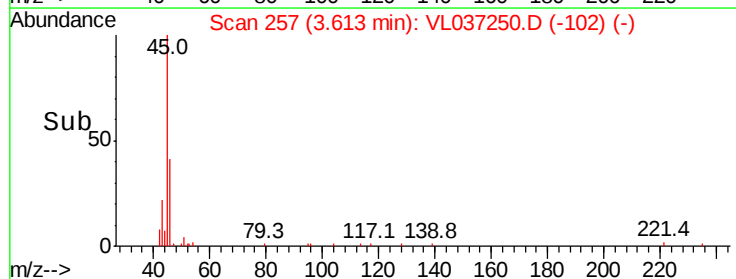
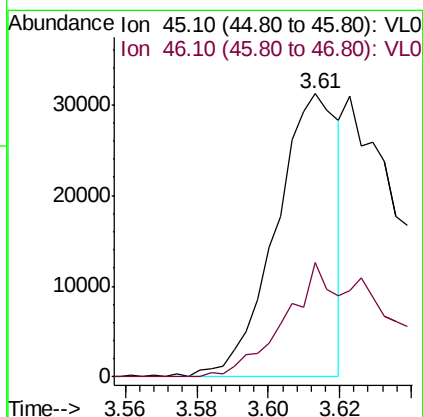
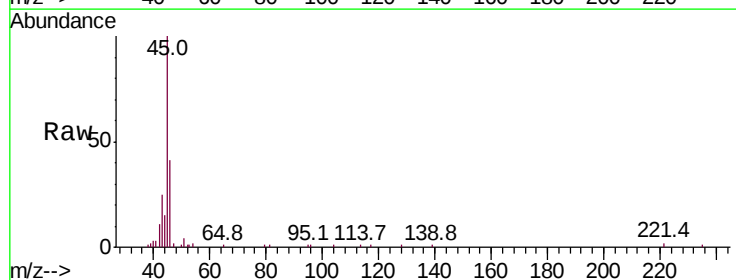
Instrument :
MSVOA_L
ClientSampled :

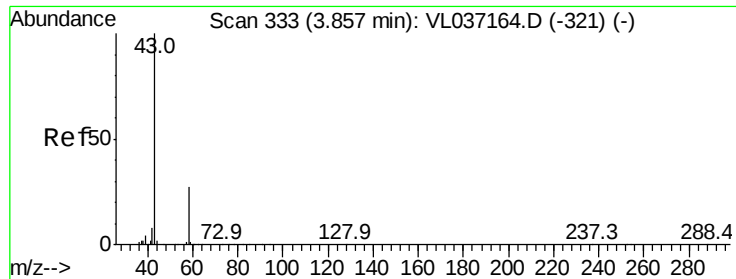
Tot Ion: 43 Resp: 17078
Ion Ratio Lower Upper
43 100
57 0.0 40.6 61.0#



#13
Ethanol
Concen: 2.186 ppbv
RT: 3.61 min Scan# 257
Delta R.T. -0.00 min
Lab File: VL037250.D
Acq: 29 Jun 2021 15:41

Tgt Ion: 45 Resp: 37773
Ion Ratio Lower Upper
45 100
46 92.2 34.2 137.0





#15

Acetone

Concen: 9.903 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL037250.D

Acq: 29 Jun 2021 15:41

Instrument :

MSVOA_L

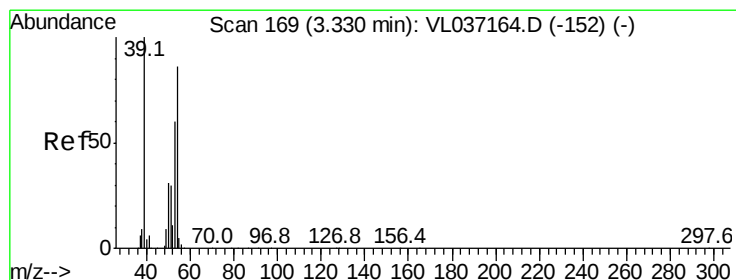
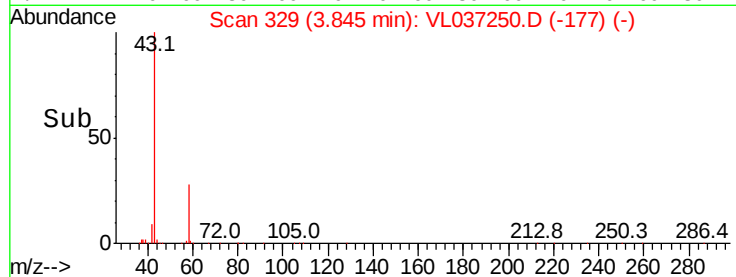
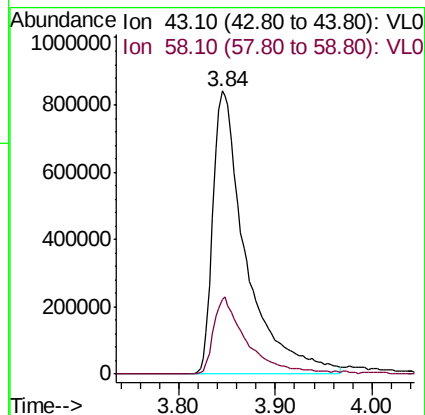
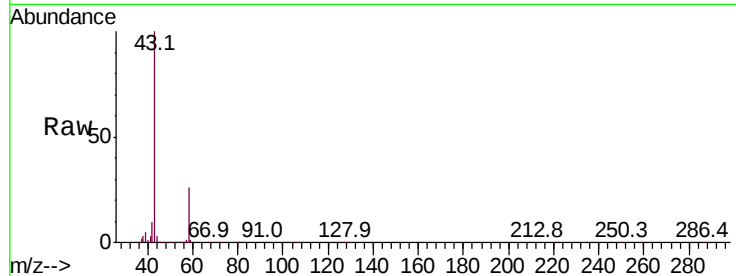
ClientSampleId :

Tot Ion: 43 Resp: 2006111

Ion Ratio Lower Upper

43 100

58 27.9 23.7 35.5



#16

1,3-Butadiene

Concen: 1.582 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.03 min

Lab File: VL037250.D

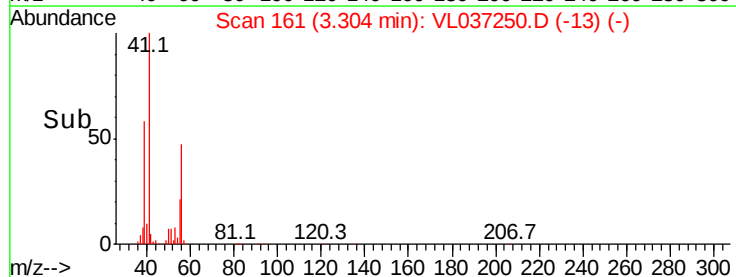
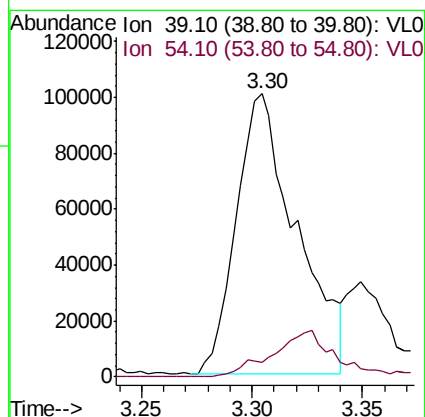
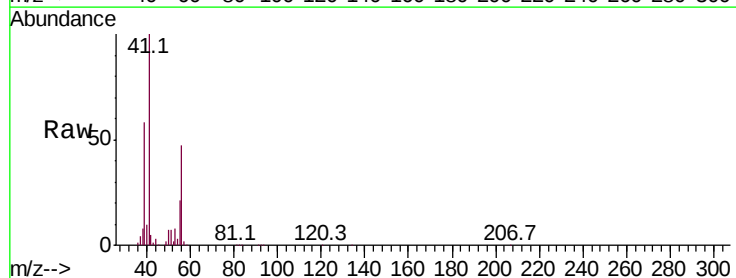
Acq: 29 Jun 2021 15:41

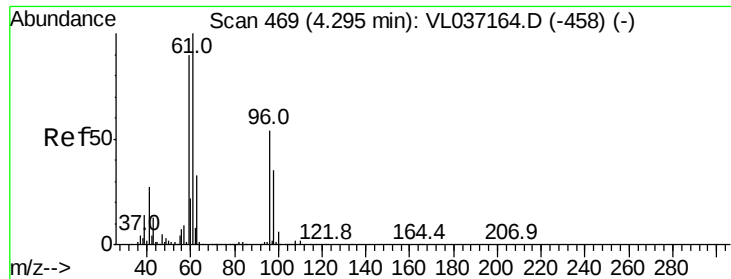
Tgt Ion: 39 Resp: 189493

Ion Ratio Lower Upper

39 100

54 17.6 61.2 91.8#



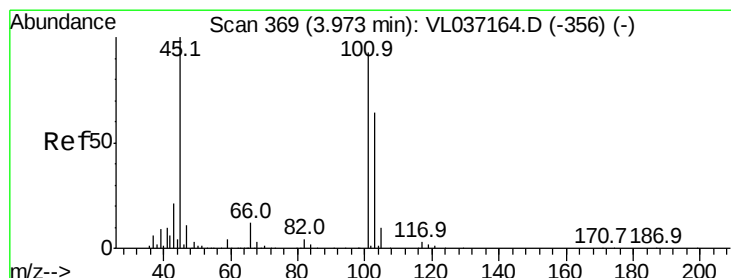
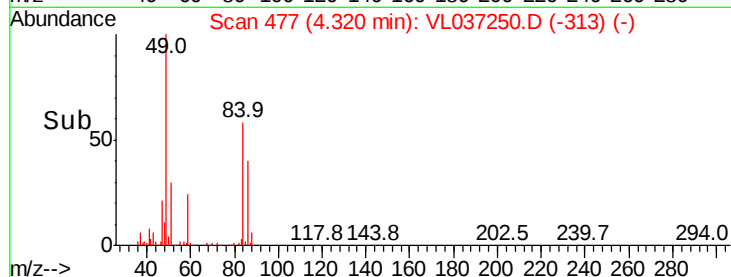
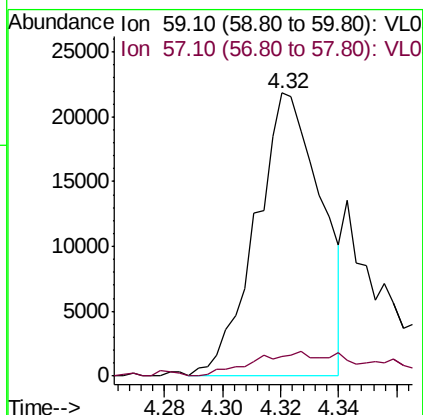
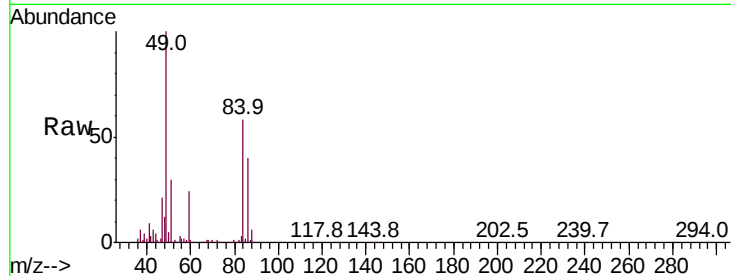


#17

tert-Butyl alcohol
Concen: 0.182 ppbv
RT: 4.32 min Scan# 477
Delta R.T. 0.03 min
Lab File: VL037250.D
Acq: 29 Jun 2021 15:41

Instrument :
MSVOA_L
ClientSampled :

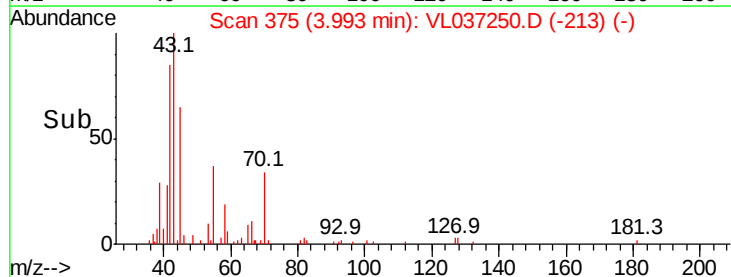
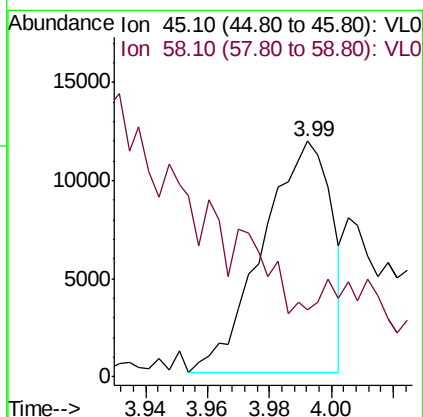
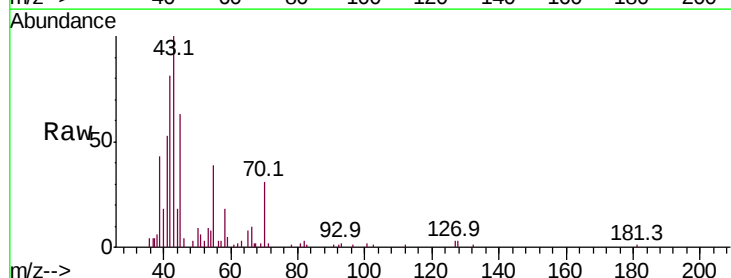
Tot Ion: 59 Resp: 34138
Ion Ratio Lower Upper
59 100
57 17.7 8.8 13.2#

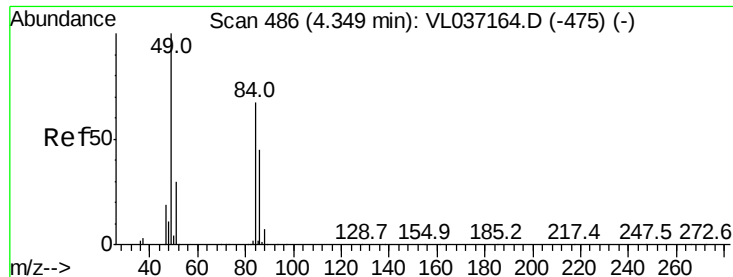


#19

Isopropyl Alcohol
Concen: 0.149 ppbv
RT: 3.99 min Scan# 375
Delta R.T. 0.02 min
Lab File: VL037250.D
Acq: 29 Jun 2021 15:41

Tgt Ion: 45 Resp: 18261
Ion Ratio Lower Upper
45 100
58 0.0 2.4 3.6#

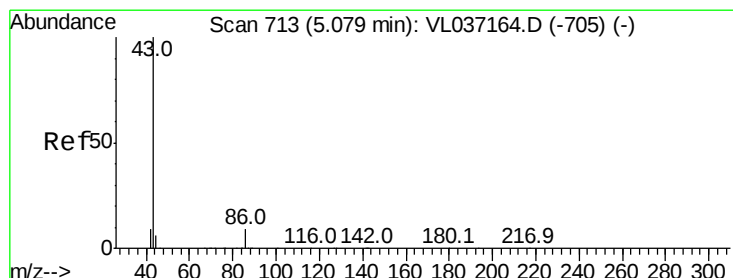
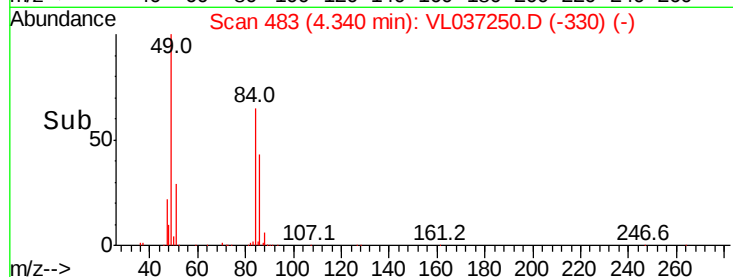
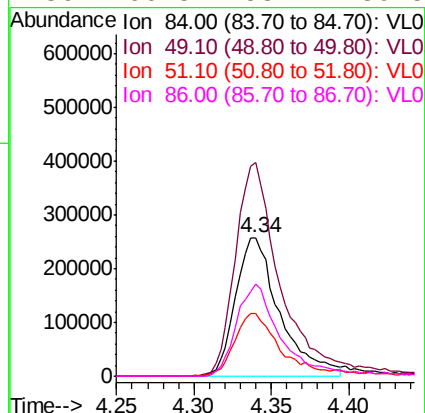
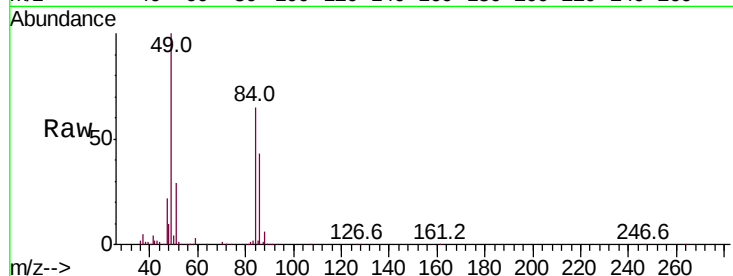




#20
Methvlene Chloride
Concen: 4.214 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.01 min
Lab File: VL037250.D
Acq: 29 Jun 2021 15:41

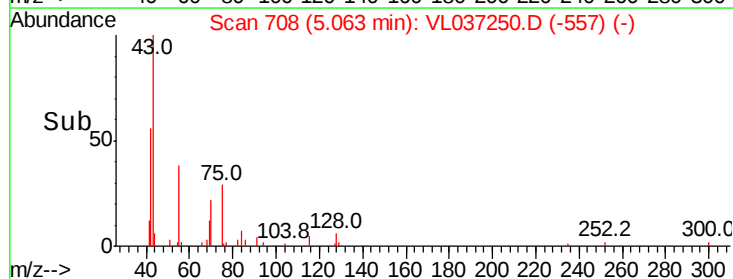
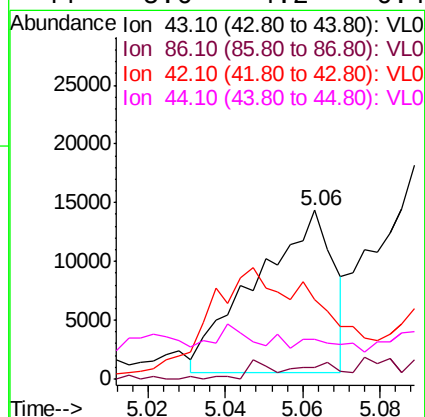
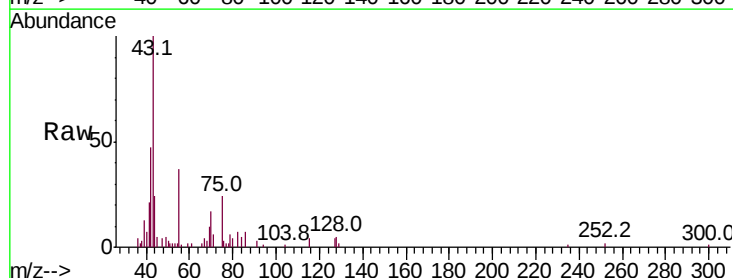
Instrument :
MSVOA_L
ClientSampleId :

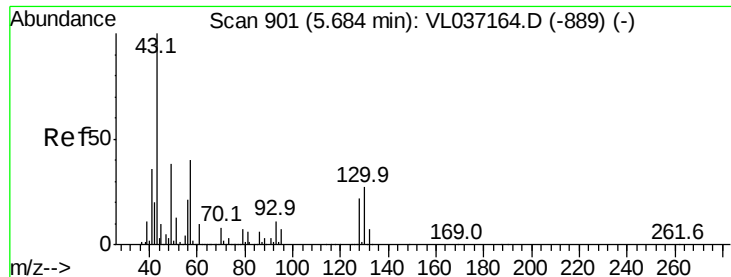
Tot Ion:	84	Resp:	511070
Ion	Ratio	Lower	Upper
84	100		
49	154.3	119.7	179.5
51	44.8	36.1	54.1
86	66.5	53.7	80.5



#23
Vinyl Acetate
Concen: 0.067 ppbv
RT: 5.06 min Scan# 708
Delta R.T. -0.02 min
Lab File: VL037250.D
Acq: 29 Jun 2021 15:41

Tgt Ion:	43	Resp:	19405
Ion	Ratio	Lower	Upper
43	100		
86	6.0	5.8	8.8
42	34.5	8.2	12.2#
44	5.6	4.2	6.4





#25

Ethyl Acetate

Concen: 0.597 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.00 min

Lab File: VL037250.D

Acq: 29 Jun 2021 15:41

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 261948

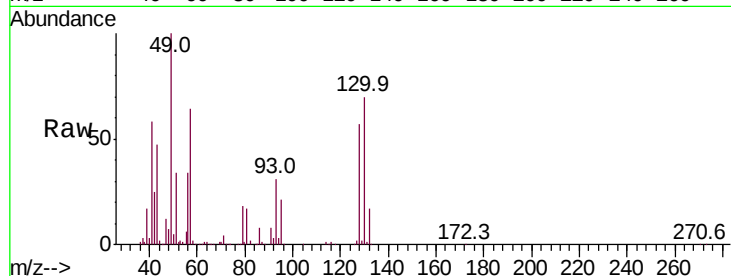
Ion Ratio Lower Upper

43 100

45 1.5 8.0 12.0#

61 0.4 8.1 12.1#

70 0.0 5.5 8.3#

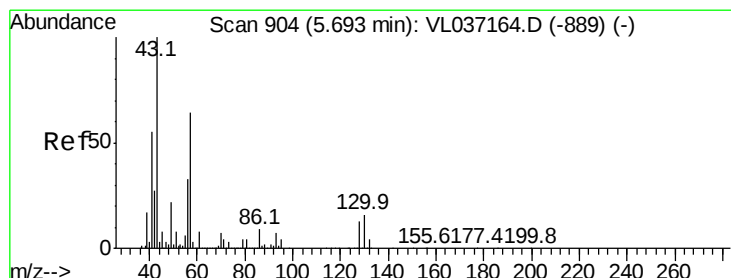
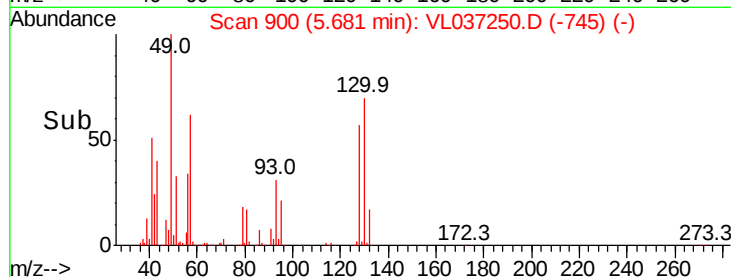
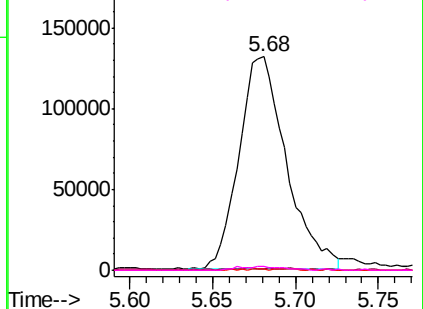


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.676 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.01 min

Lab File: VL037250.D

Acq: 29 Jun 2021 15:41

Tgt Ion: 57 Resp: 371374

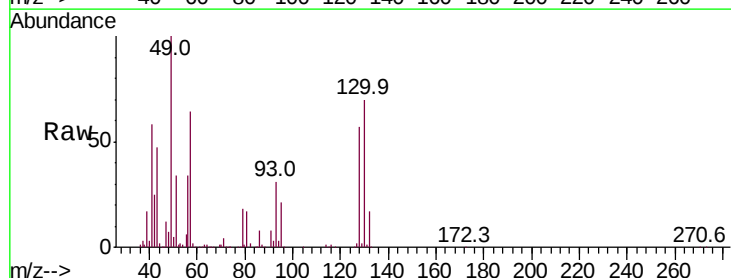
Ion Ratio Lower Upper

57 100

41 94.2 73.5 110.3

43 73.8 170.7 256.1#

56 56.1 42.4 63.6

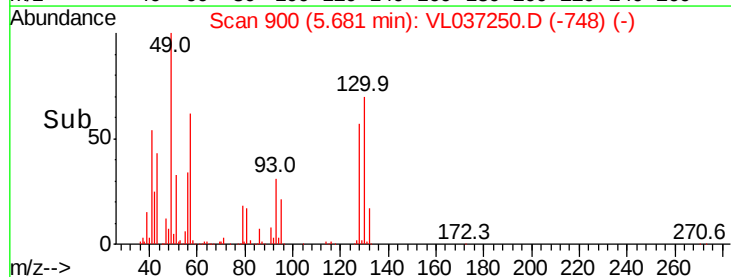
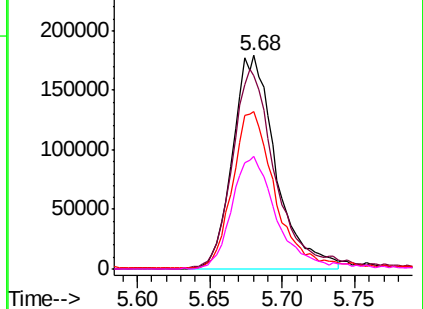


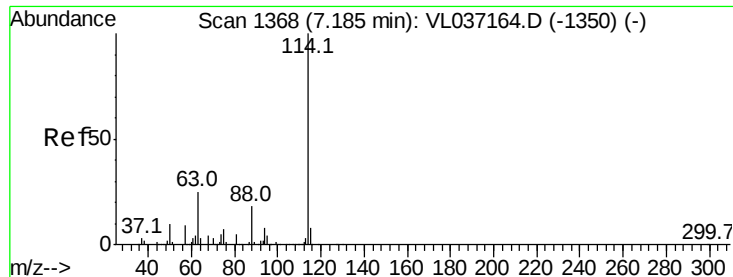
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

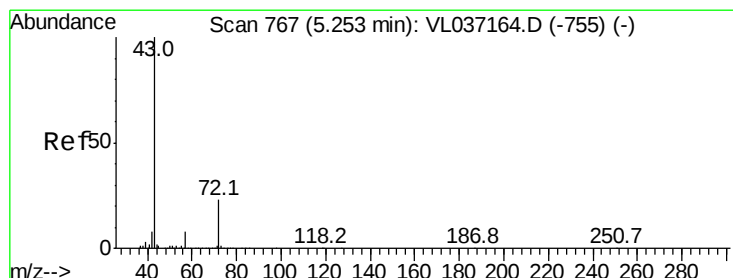
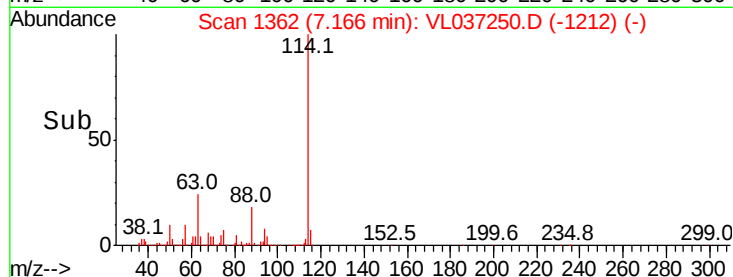
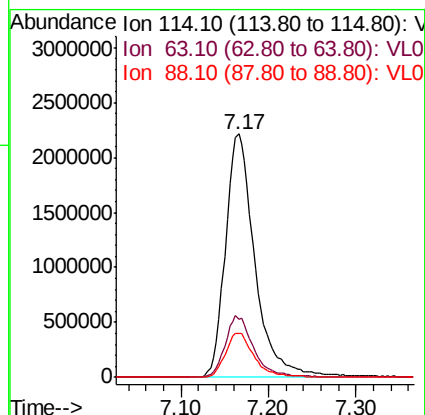
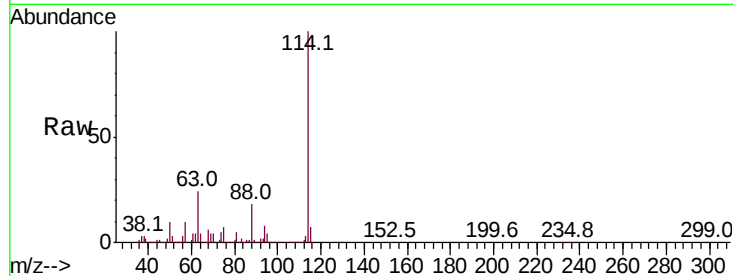




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.02 min
 Lab File: VL037250.D
 Acq: 29 Jun 2021 15:41

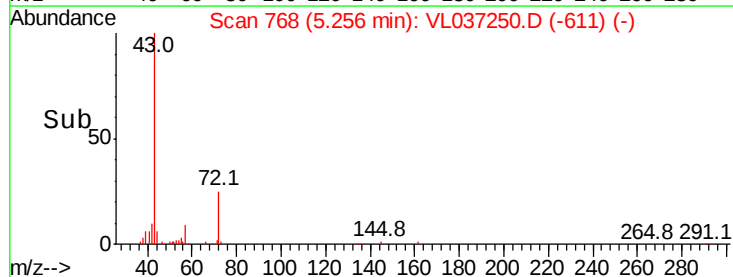
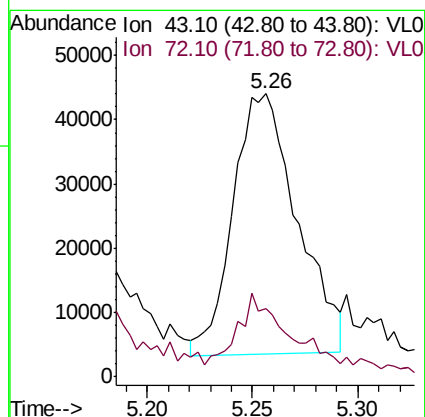
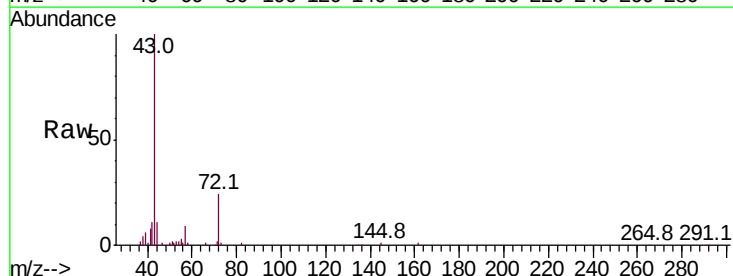
Instrument :
 MSVOA_L
 ClientSampled :

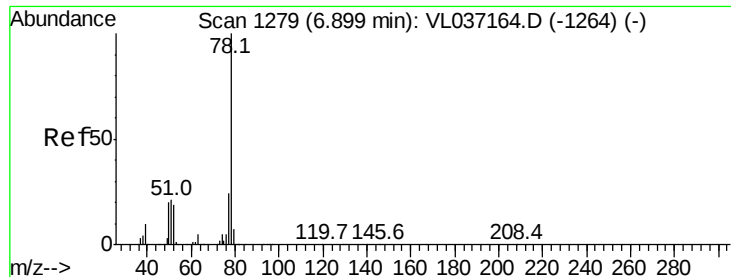
Tot Ion:114 Resp: 5163788
 Ion Ratio Lower Upper
 114 100
 63 24.7 19.6 29.4
 88 18.0 14.2 21.2



#34
 2-Butanone
 Concen: 0.429 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.00 min
 Lab File: VL037250.D
 Acq: 29 Jun 2021 15:41

Tgt Ion: 43 Resp: 86187
 Ion Ratio Lower Upper
 43 100
 72 35.6 18.9 28.3#

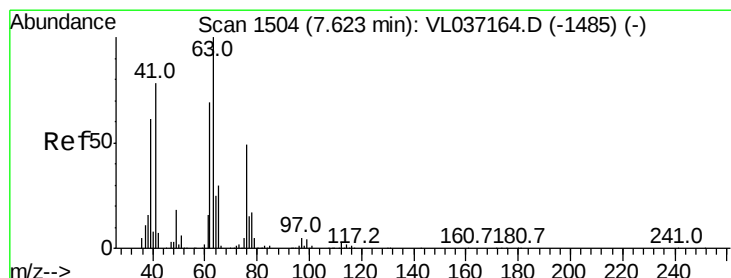
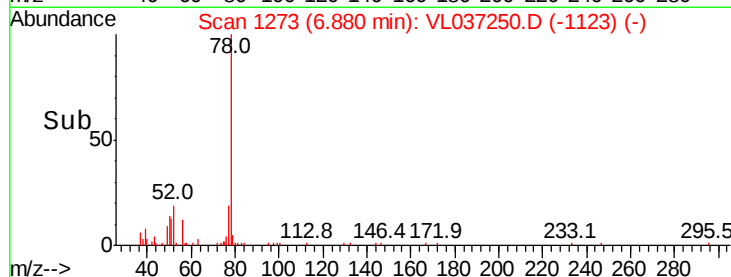
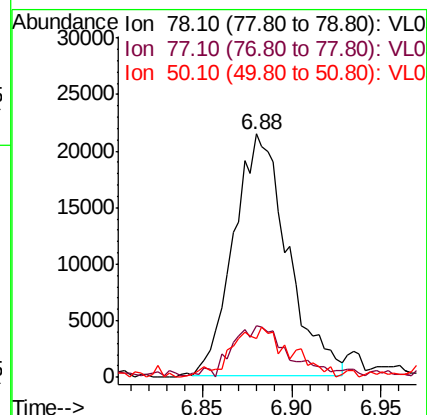
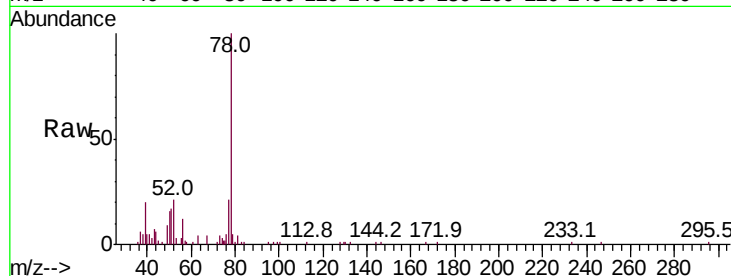




#36
Benzene
Concen: 0.108 ppbv
RT: 6.88 min Scan# 1273
Delta R.T. -0.02 min
Lab File: VL037250.D
Acq: 29 Jun 2021 15:41

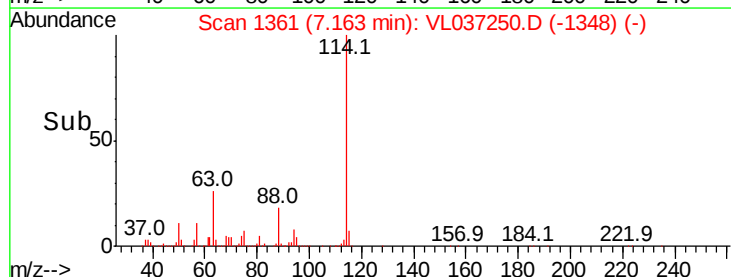
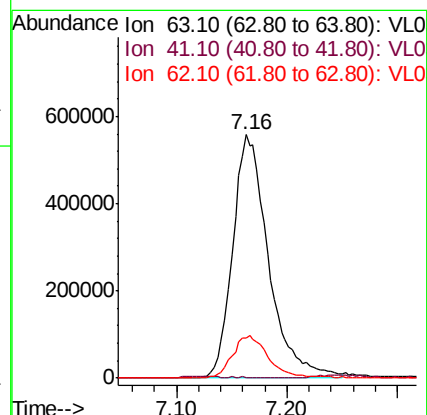
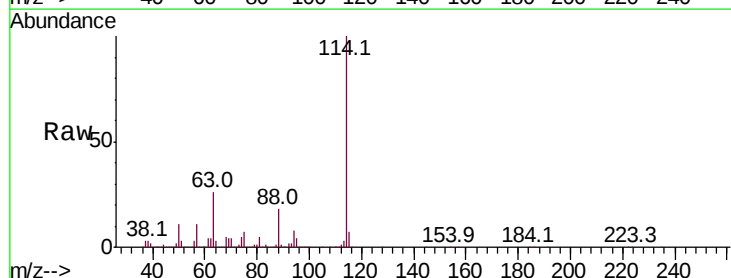
Instrument :
MSVOA_L
ClientSampleId :

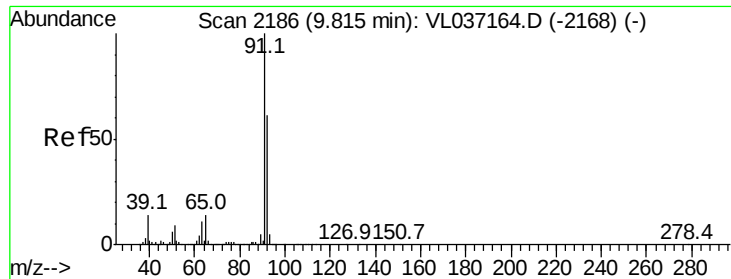
Tot Ion: 78 Resp: 45069
Ion Ratio Lower Upper
78 100
77 19.7 19.0 28.6
50 15.1 15.7 23.5#



#39
1,2-Dichloropropane
Concen: 8.091 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. -0.46 min
Lab File: VL037250.D
Acq: 29 Jun 2021 15:41

Tgt Ion: 63 Resp: 1255418
Ion Ratio Lower Upper
63 100
41 0.0 62.0 93.0#
62 16.7 54.9 82.3#





#53

Toluene

Concen: 0.121 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.02 min

Lab File: VL037250.D

Acq: 29 Jun 2021 15:41

Instrument :

MSVOA_L

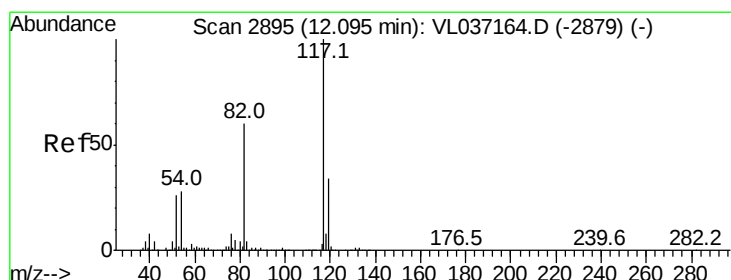
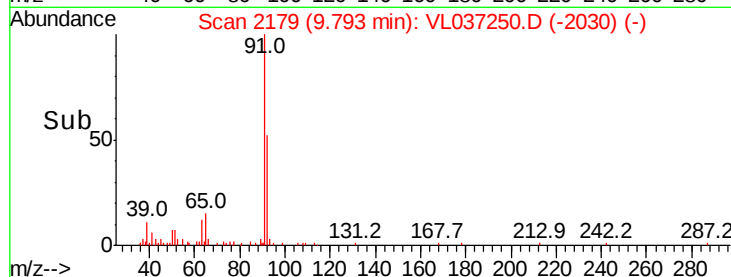
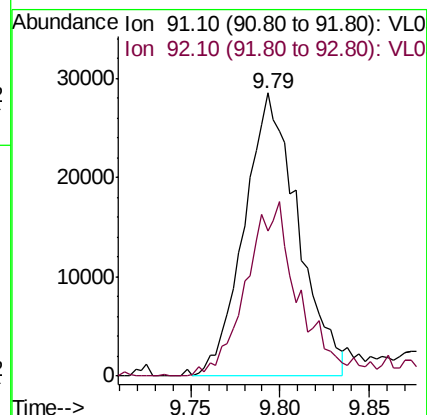
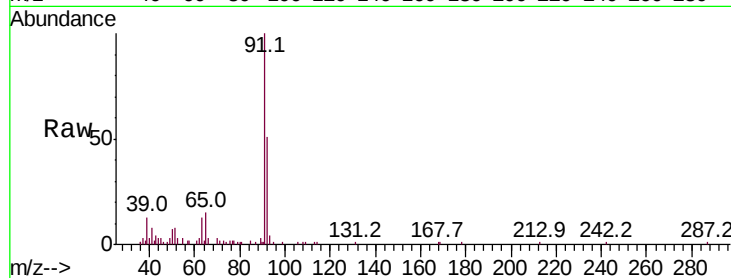
ClientSampleId :

Tot Ion: 91 Resp: 60192

Ion Ratio Lower Upper

91 100

92 60.3 48.3 72.5



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.02 min

Lab File: VL037250.D

Acq: 29 Jun 2021 15:41

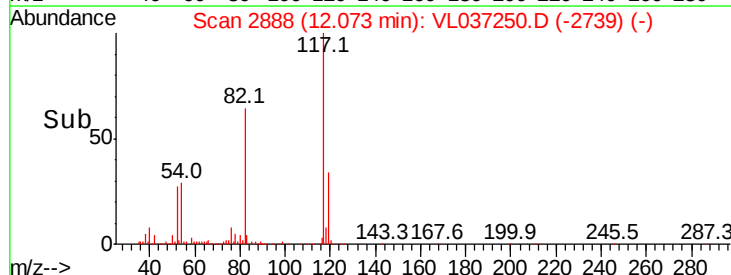
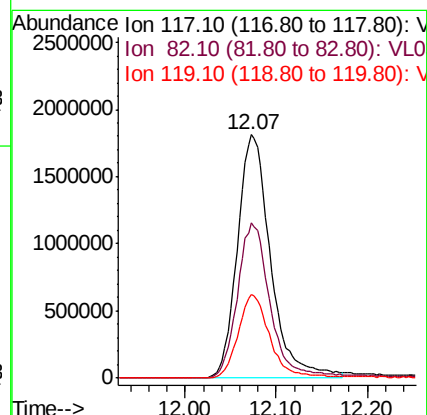
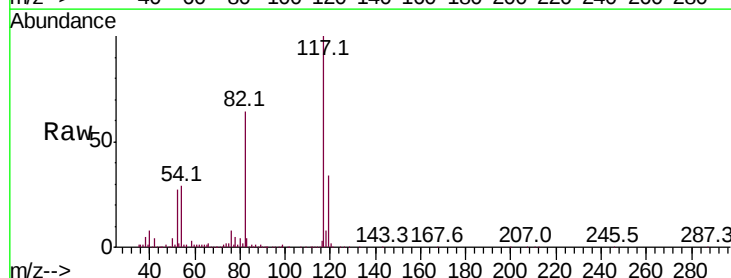
Tgt Ion: 117 Resp: 4602660

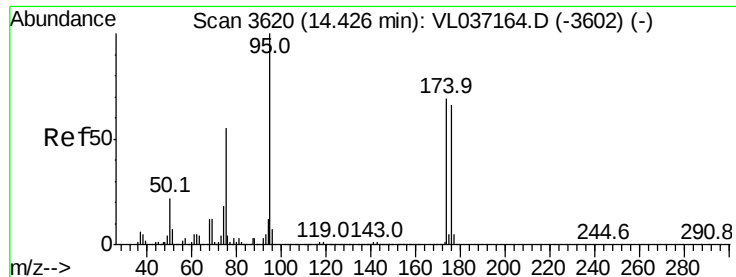
Ion Ratio Lower Upper

117 100

82 65.0 51.7 77.5

119 34.2 47.6 71.4#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.747 ppbv

RT: 14.40 min Scan# 3613

Delta R.T. -0.02 min

Lab File: VL037250.D

Acq: 29 Jun 2021 15:41

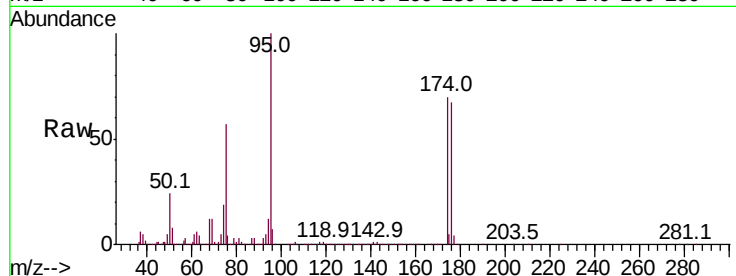
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 3399616

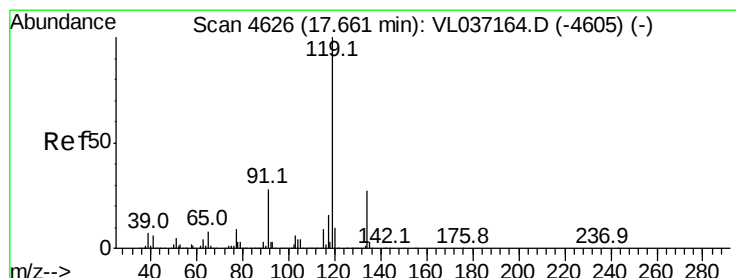
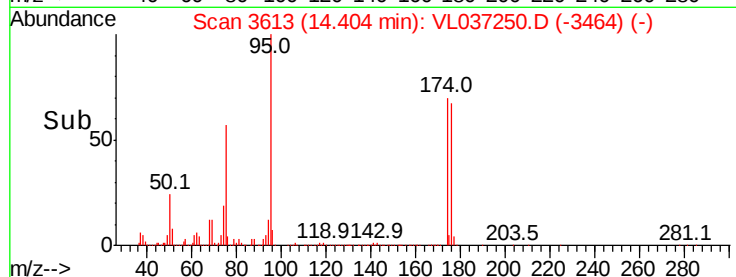
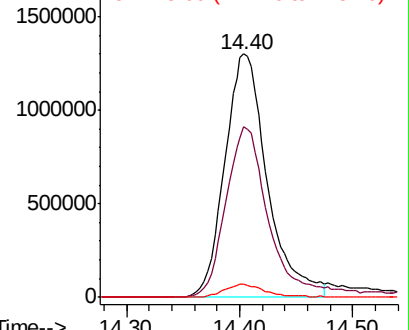
Ion	Ratio	Lower	Upper
95	100		
174	75.3	57.0	85.4
175	5.6	4.4	6.6



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



#69

p-Isopropyltoluene

Concen: 0.040 ppbv

RT: 17.64 min Scan# 4618

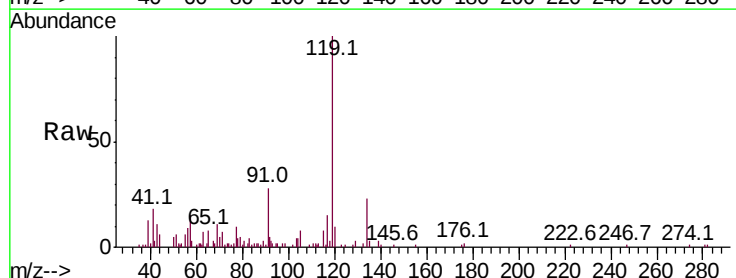
Delta R.T. -0.03 min

Lab File: VL037250.D

Acq: 29 Jun 2021 15:41

Tgt Ion: 119 Resp: 29030

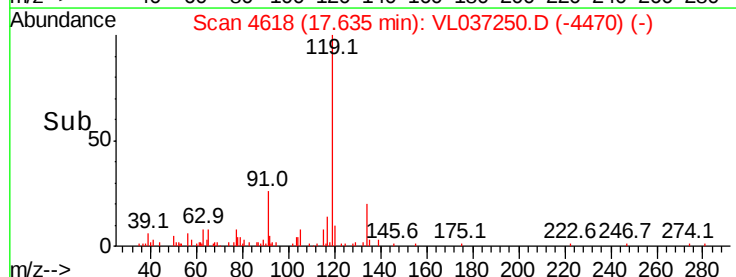
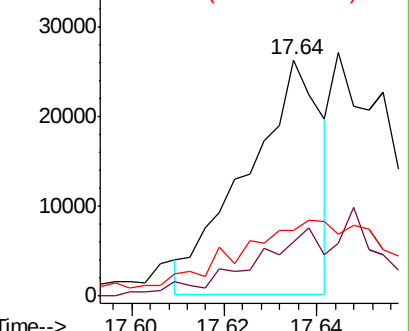
Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.9	31.3#
91	69.2	22.6	34.0#

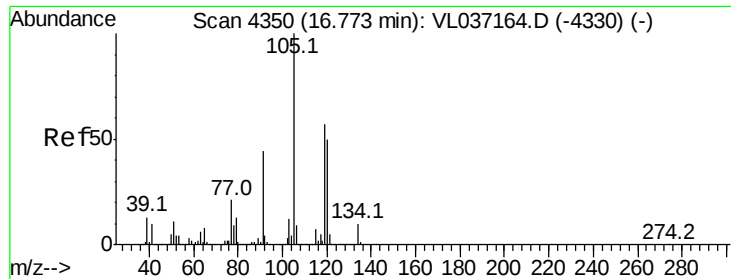


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.107 ppbv
 RT: 16.75 min Scan# 4342
 Delta R.T. -0.03 min
 Lab File: VL037250.D
 Acq: 29 Jun 2021 15:41

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:	105	Resp:	61916
Ion Ratio	Lower	Upper	
105	100		
120	40.8	39.8	59.8
91	10.5	37.0	55.4#
77	11.7	17.0	25.4#

