

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060121\
 Data File : VL037077.D
 Acq On : 1 Jun 2021 19:36
 Operator : SY/AP
 Sample : M2559-04DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 02 03:02:39 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1598018	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4710256	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	4297004	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	3154881	9.77	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.70%

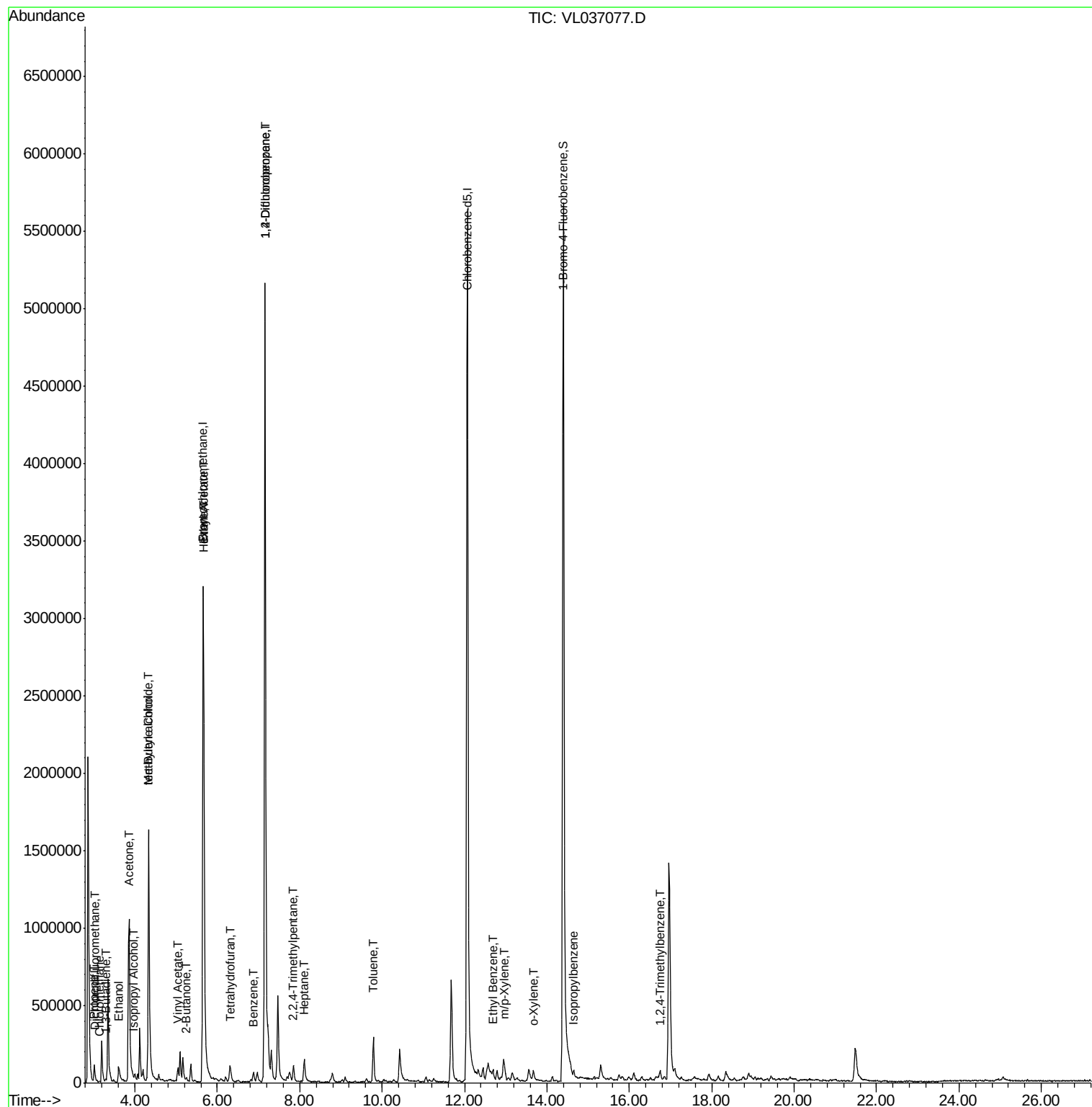
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	13036	0.048 ppbv	98
4) Chloromethane	3.13	50	3227	0.032 ppbv #	67
9) Propene	3.01	41	21918	0.209 ppbv	96
10) Heptane	8.10	43	31284	0.120 ppbv #	26
13) Ethanol	3.61	45	111976	8.006 ppbv	71
15) Acetone	3.84	43	1370631	8.374 ppbv	92
16) 1,3-Butadiene	3.29	39	3905	0.038 ppbv #	16
17) tert-Butyl alcohol	4.33	59	13654	0.091 ppbv #	72
19) Isopropyl Alcohol	3.97	45	4719	0.054 ppbv #	30
20) Methylene Chloride	4.33	84	744309	8.483 ppbv	99
23) Vinyl Acetate	5.05	43	37924	0.146 ppbv #	1
25) Ethyl Acetate	5.67	43	431858	1.098 ppbv #	77
26) Hexane	5.67	57	619958	3.085 ppbv #	46
34) 2-Butanone	5.25	43	11302	0.066 ppbv #	1
36) Benzene	6.88	78	46518	0.115 ppbv #	88
39) 1,2-Dichloropropane	7.16	63	1115575	7.138 ppbv #	25
41) Tetrahydrofuran	6.30	42	6251	0.064 ppbv #	39
44) 2,2,4-Trimethylpentane	7.85	57	66262	0.095 ppbv #	60
53) Toluene	9.79	91	252069	0.522 ppbv	96
58) Ethyl Benzene	12.69	91	46594	0.077 ppbv	98
59) m/p-Xylene	12.98	91	30456	0.061 ppbv #	30
60) o-Xylene	13.67	91	28462	0.060 ppbv #	63
62) Isopropylbenzene	14.65	105	22805	0.033 ppbv #	48
74) 1,2,4-Trimethylbenzene	16.75	105	42208	0.077 ppbv #	63

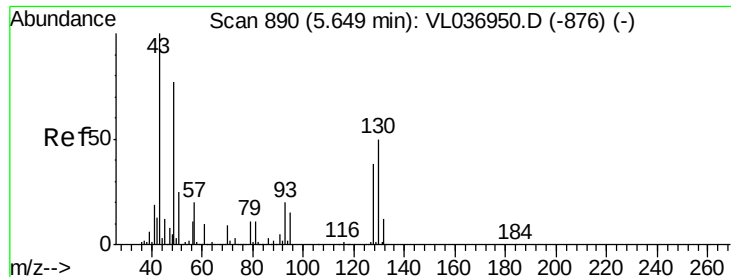
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL037077.D

Acq: 1 Jun 2021 19:36

Instrument :

MSVOA_L

ClientSampleId :

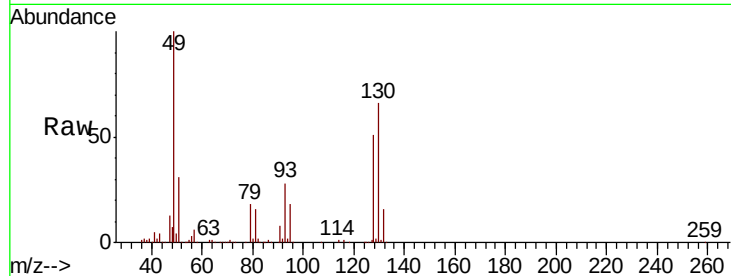
Tot Ion: 49 Resp: 1598018

Ion Ratio Lower Upper

49 100

128 57.0 26.9 80.7

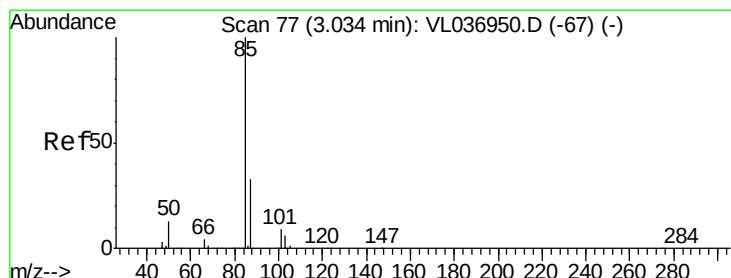
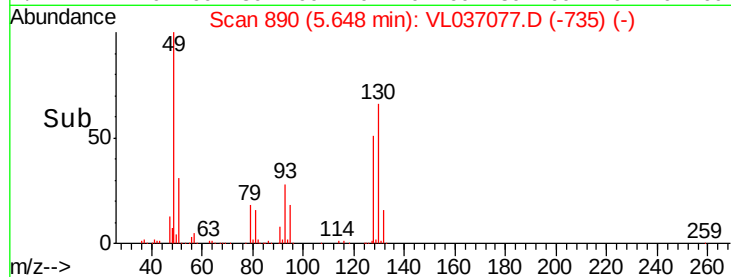
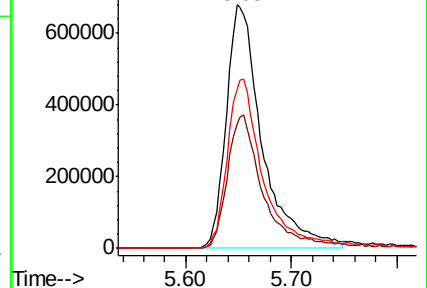
130 71.9 33.8 101.4



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: 0.048 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL037077.D

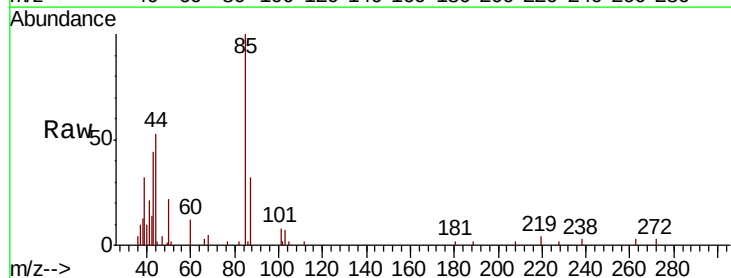
Acq: 1 Jun 2021 19:36

Tgt Ion: 85 Resp: 13036

Ion Ratio Lower Upper

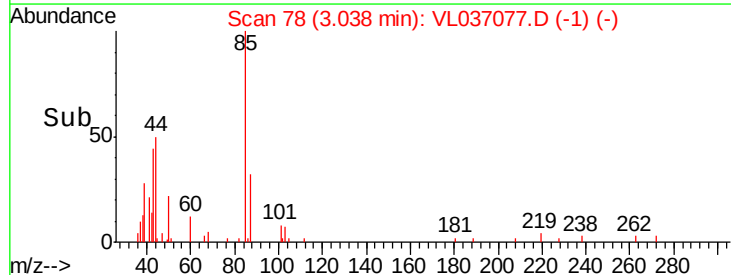
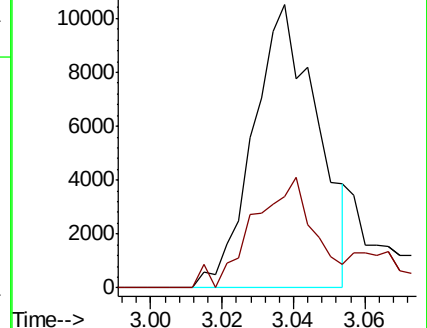
85 100

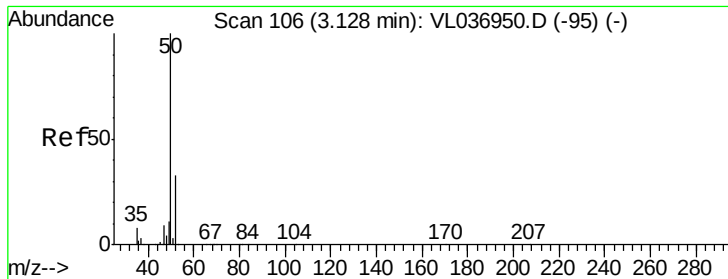
87 32.2 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.032 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.01 min

Lab File: VL037077.D

Acq: 1 Jun 2021 19:36

Instrument :

MSVOA_L

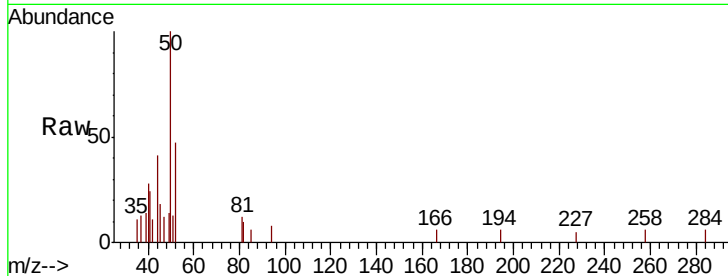
ClientSampleId :

Tot Ion: 50 Resp: 3227

Ion Ratio Lower Upper

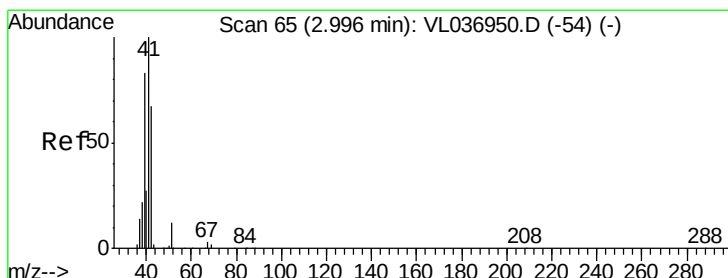
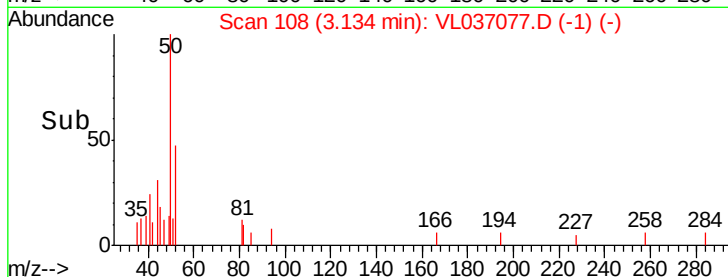
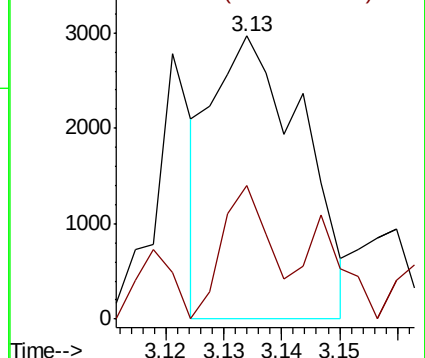
50 100

52 51.2 26.1 39.1#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.209 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL037077.D

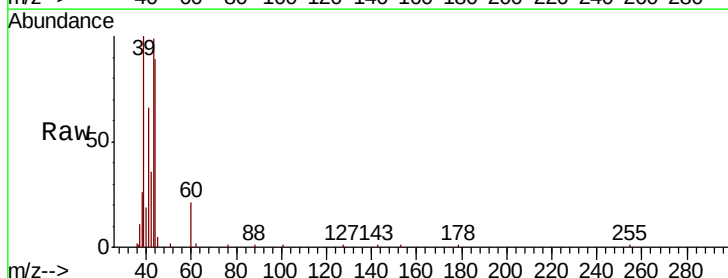
Acq: 1 Jun 2021 19:36

Tgt Ion: 41 Resp: 21918

Ion Ratio Lower Upper

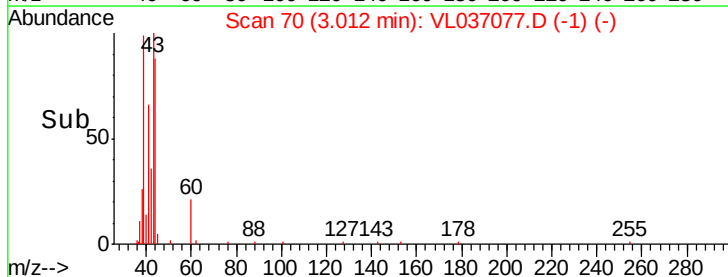
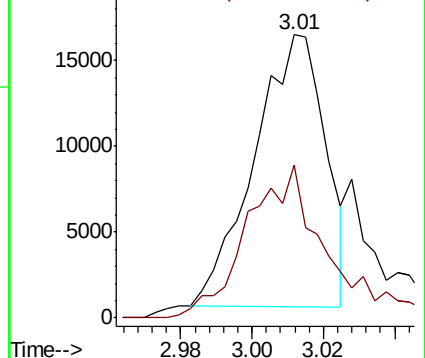
41 100

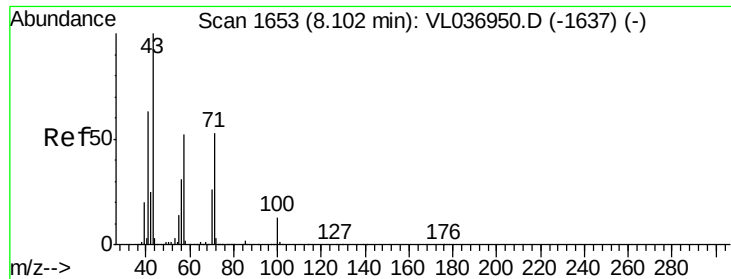
42 64.4 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

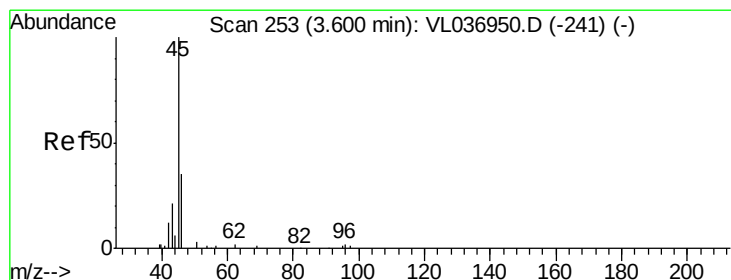
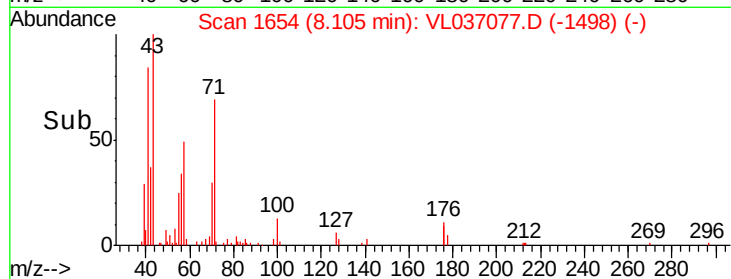
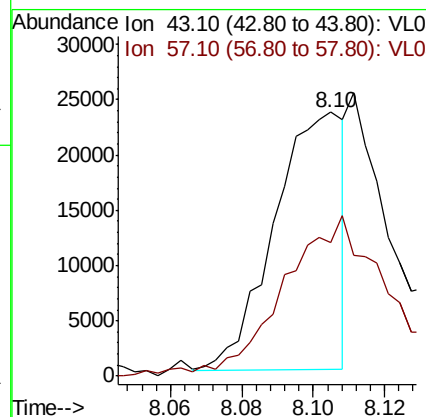
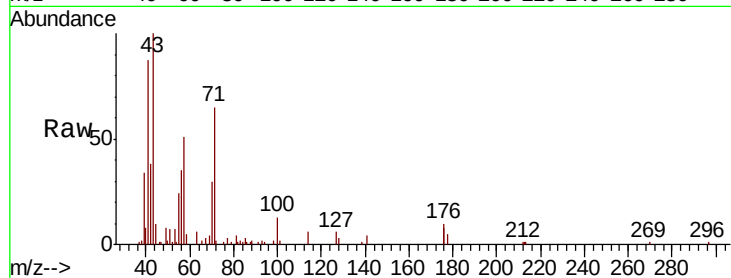




#10
Heptane
Concen: 0.120 ppbv
RT: 8.10 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VL037077.D
Acq: 1 Jun 2021 19:36

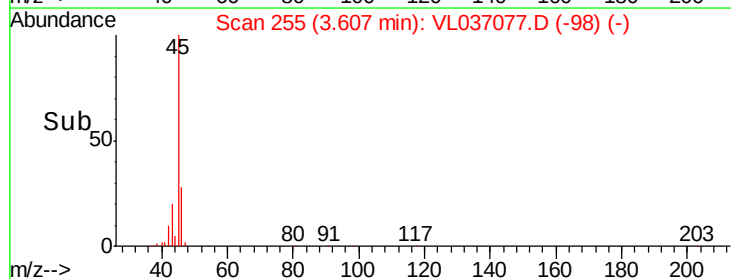
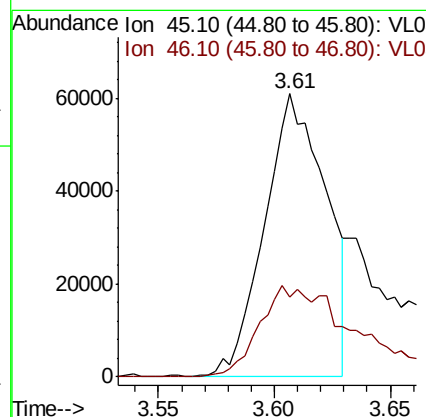
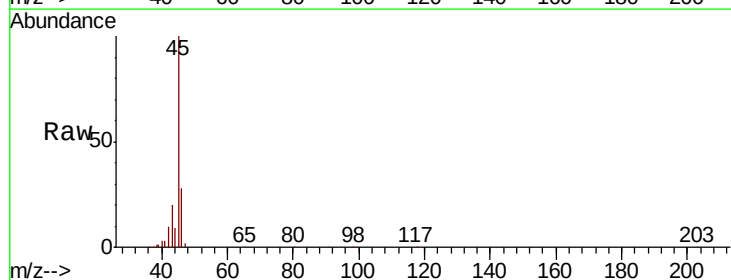
Instrument :
MSVOA_L
ClientSampled :

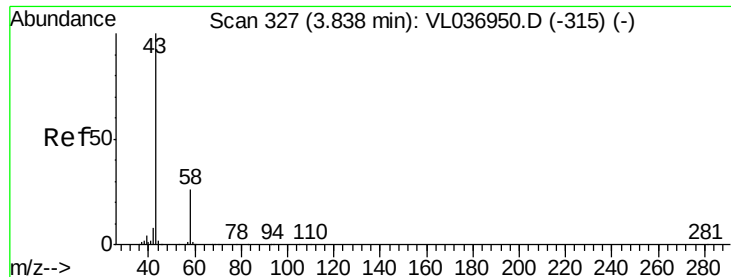
Tot Ion: 43 Resp: 31284
Ion Ratio Lower Upper
43 100
57 0.0 41.0 61.6#



#13
Ethanol
Concen: 8.006 ppbv
RT: 3.61 min Scan# 255
Delta R.T. 0.01 min
Lab File: VL037077.D
Acq: 1 Jun 2021 19:36

Tgt Ion: 45 Resp: 111976
Ion Ratio Lower Upper
45 100
46 58.7 16.3 65.3

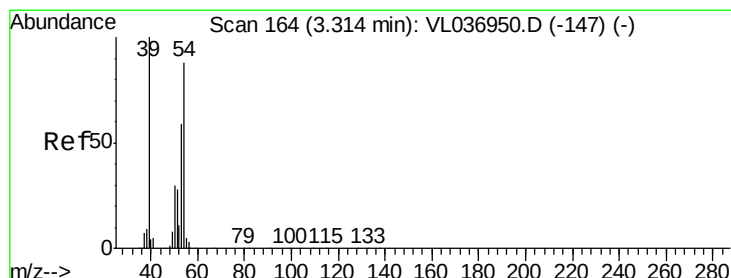
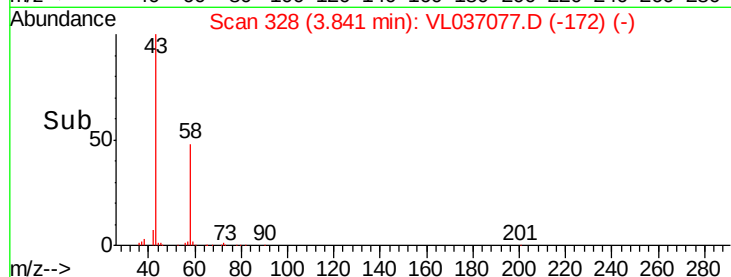
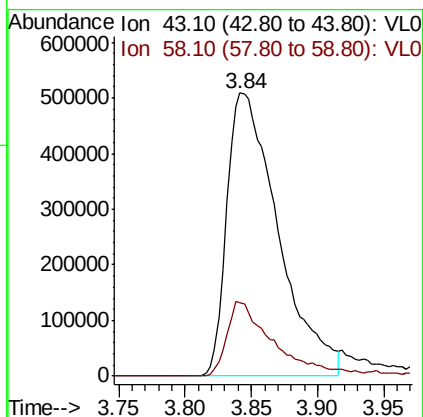
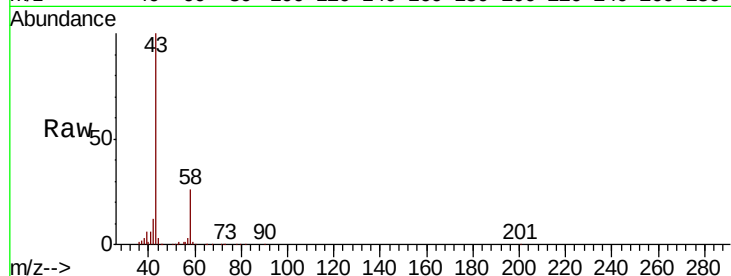




#15
Acetone
Concen: 8.374 ppbv
RT: 3.84 min Scan# 328
Delta R.T. 0.00 min
Lab File: VL037077.D
Acq: 1 Jun 2021 19:36

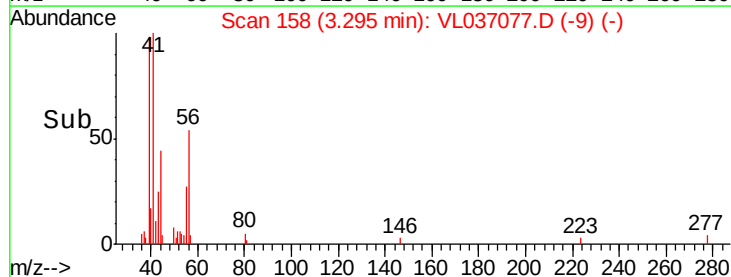
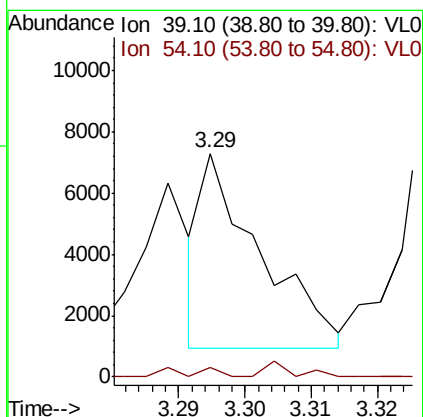
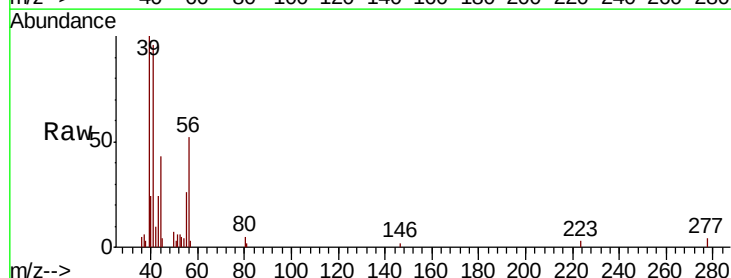
Instrument :
MSVOA_L
ClientSampleId :

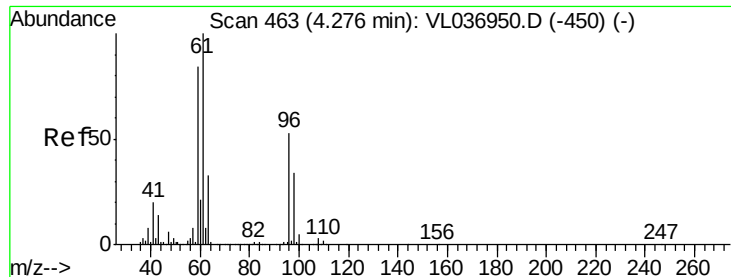
Tot Ion: 43 Resp: 1370631
Ion Ratio Lower Upper
43 100
58 25.8 24.0 36.0



#16
1,3-Butadiene
Concen: 0.038 ppbv
RT: 3.29 min Scan# 158
Delta R.T. -0.02 min
Lab File: VL037077.D
Acq: 1 Jun 2021 19:36

Tgt Ion: 39 Resp: 3905
Ion Ratio Lower Upper
39 100
54 5.6 63.2 94.8#



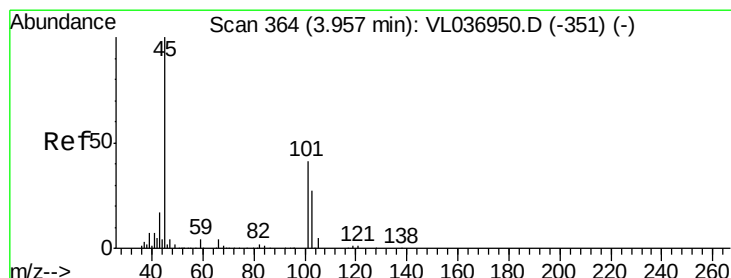
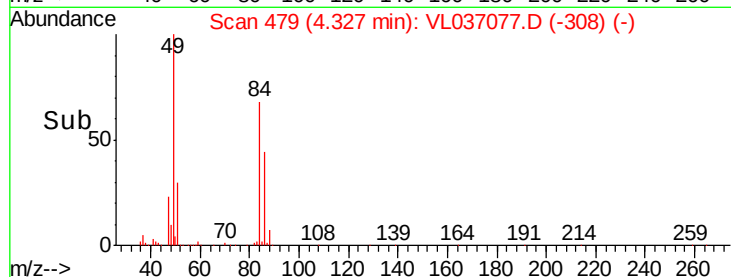
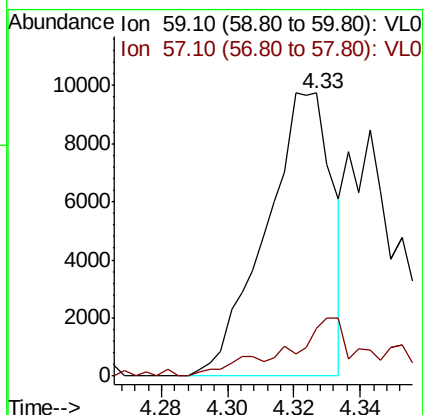
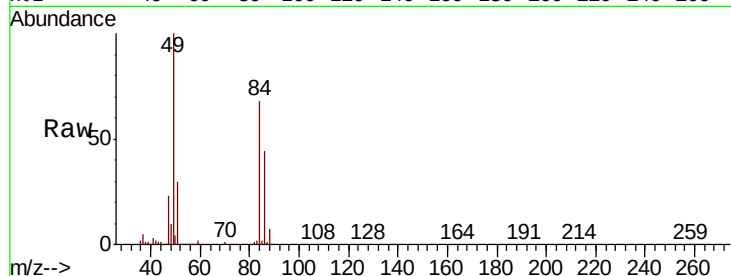


#17

tert-Butyl alcohol
Concen: 0.091 ppbv
RT: 4.33 min Scan# 479
Delta R.T. 0.05 min
Lab File: VL037077.D
Acq: 1 Jun 2021 19:36

Instrument :
MSVOA_L
ClientSampleId :

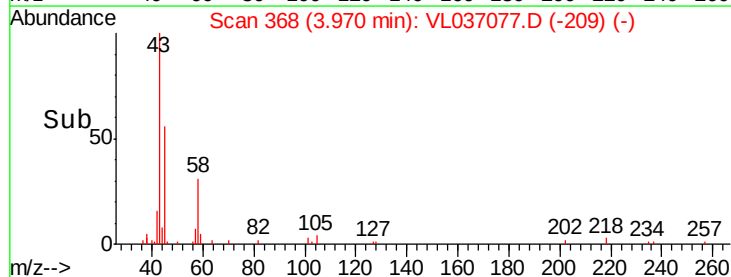
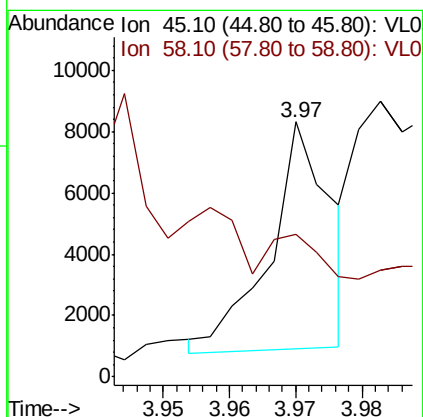
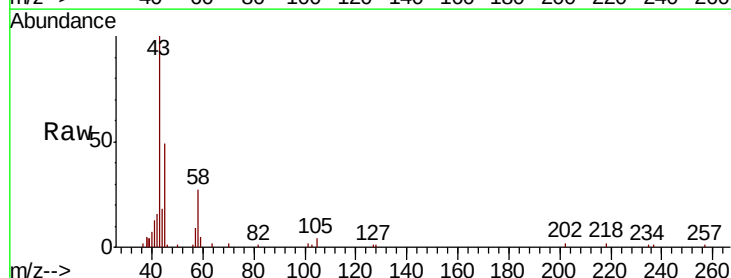
Tot Ion: 59 Resp: 13654
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

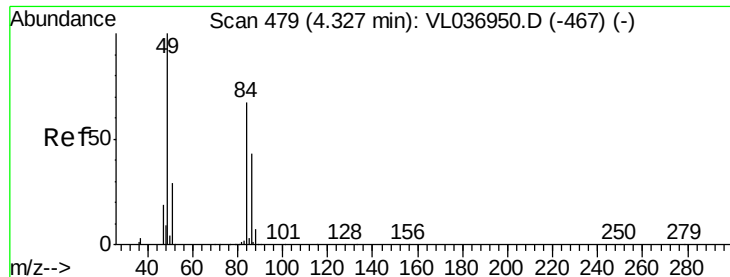


#19

Isopropyl Alcohol
Concen: 0.054 ppbv
RT: 3.97 min Scan# 368
Delta R.T. 0.01 min
Lab File: VL037077.D
Acq: 1 Jun 2021 19:36

Tgt Ion: 45 Resp: 4719
Ion Ratio Lower Upper
45 100
58 0.0 37.2 55.8#

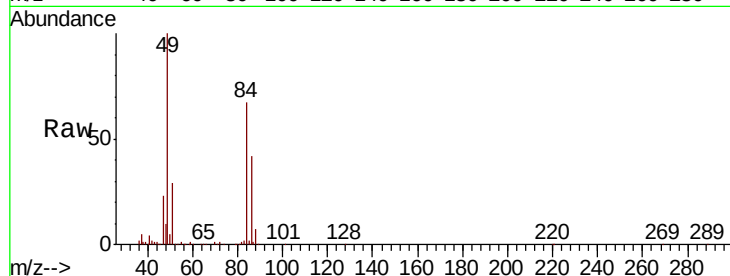




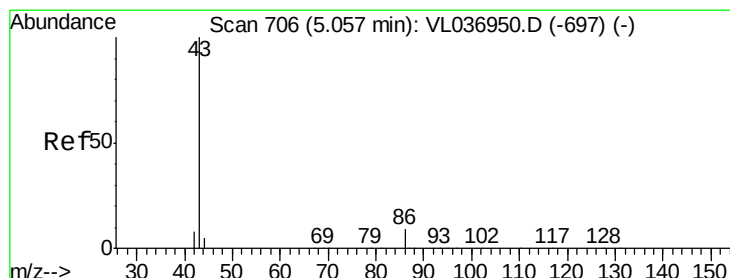
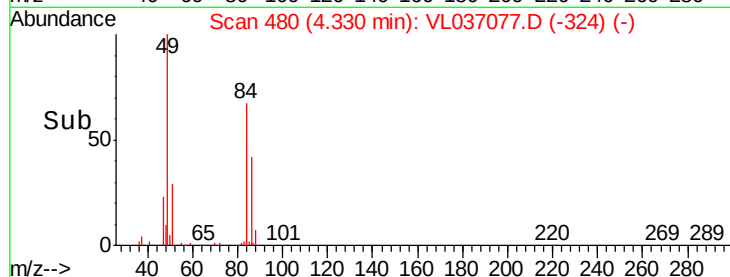
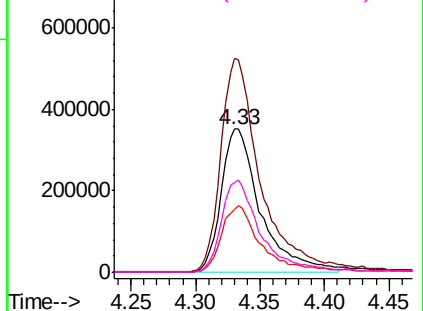
#20
Methvlene Chloride
Concen: 8.483 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL037077.D
Acq: 1 Jun 2021 19:36

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	84	Resp:	744309
Ion	Ratio	Lower	Upper
84	100		
49	148.8	119.8	179.6
51	43.2	35.1	52.7
86	62.1	50.9	76.3

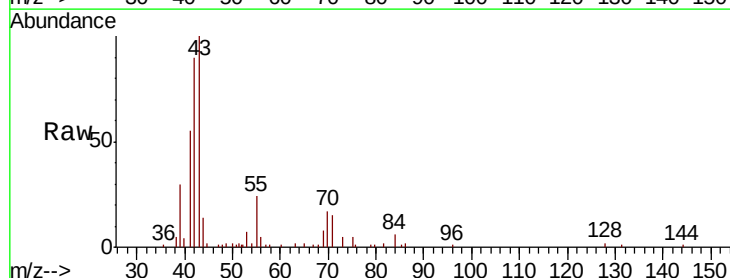


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

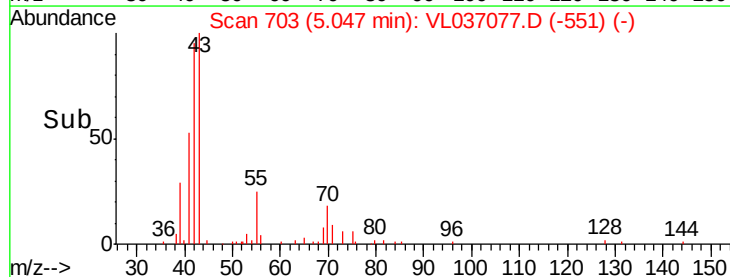
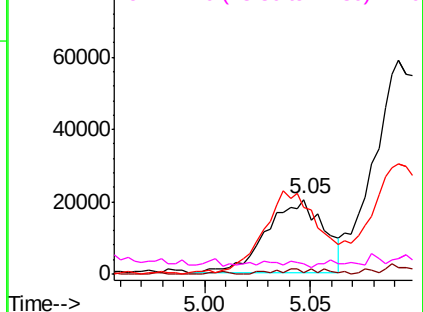


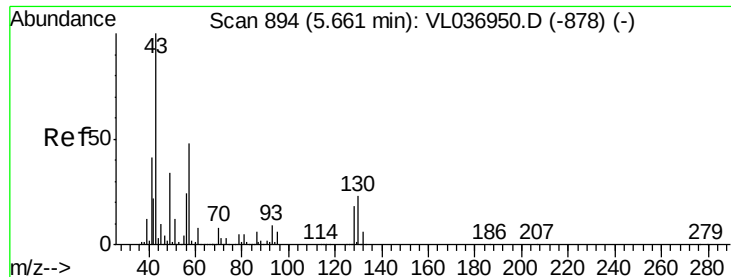
#23
Vinyl Acetate
Concen: 0.146 ppbv
RT: 5.05 min Scan# 703
Delta R.T. -0.01 min
Lab File: VL037077.D
Acq: 1 Jun 2021 19:36

Tgt Ion:	43	Resp:	37924
Ion	Ratio	Lower	Upper
43	100		
86	2.9	5.8	8.8#
42	102.2	7.4	11.2#
44	4.5	3.3	4.9



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

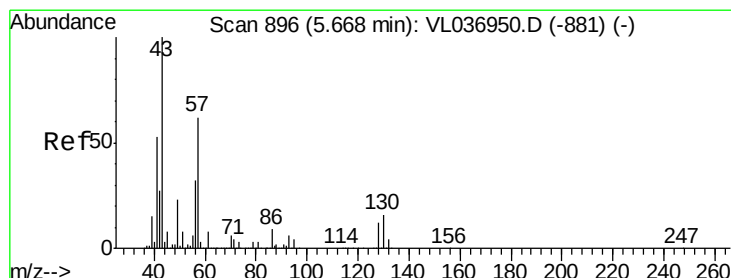
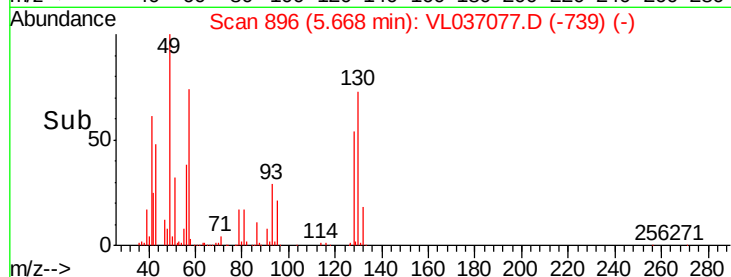
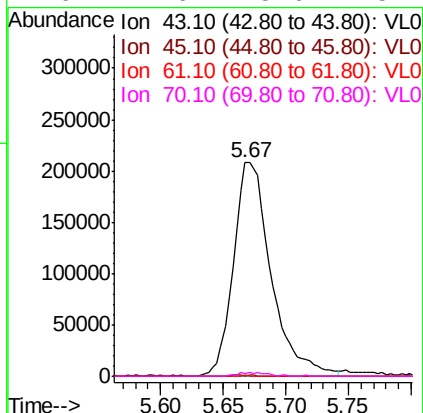
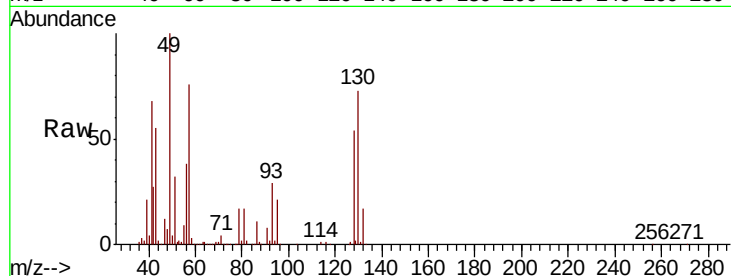




#25
Ethyl Acetate
Concen: 1.098 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.01 min
Lab File: VL037077.D
Acq: 1 Jun 2021 19:36

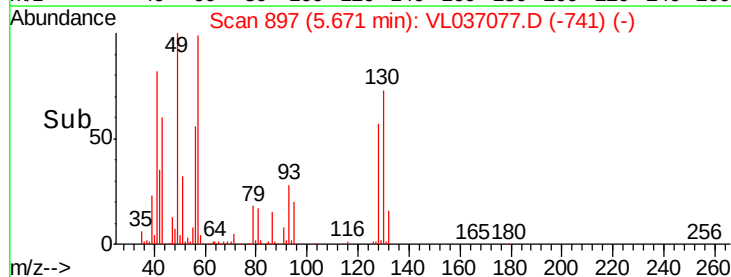
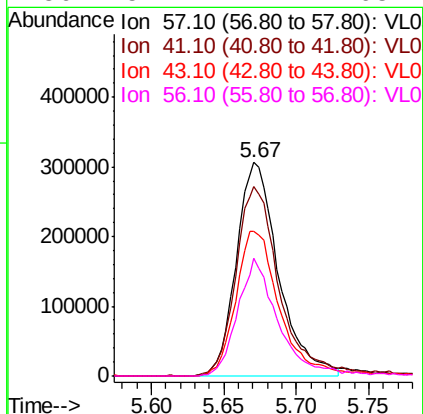
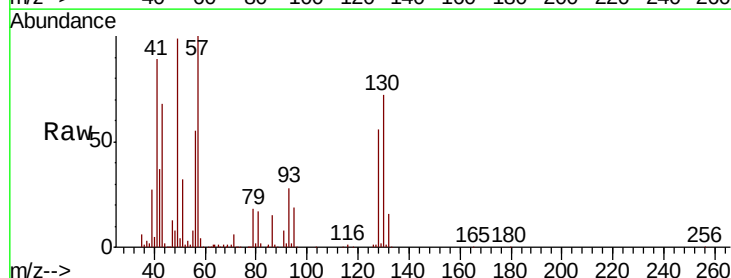
Instrument :
MSVOA_L
ClientSampleId :

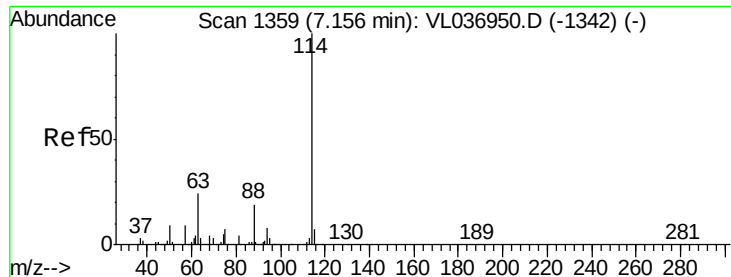
Tot Ion:	43	Resp:	431858
Ion	Ratio	Lower	Upper
43	100		
45	0.4	7.8	11.8#
61	0.2	7.8	11.8#
70	1.6	5.6	8.4#



#26
Hexane
Concen: 3.085 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL037077.D
Acq: 1 Jun 2021 19:36

Tgt Ion:	57	Resp:	619958
Ion	Ratio	Lower	Upper
57	100		
41	93.0	70.5	105.7
43	71.8	165.8	248.8#
56	54.4	42.2	63.4

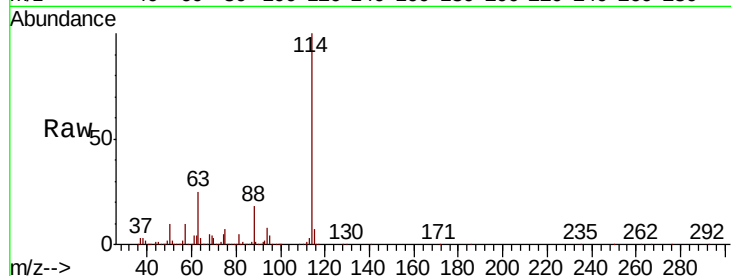




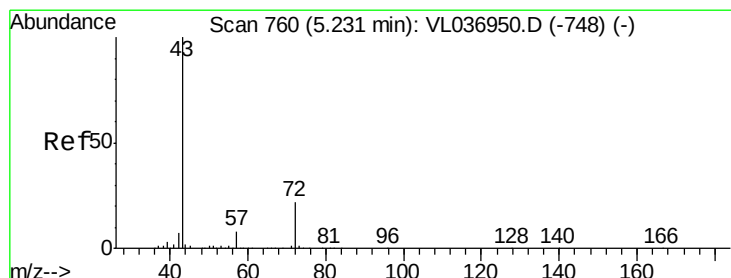
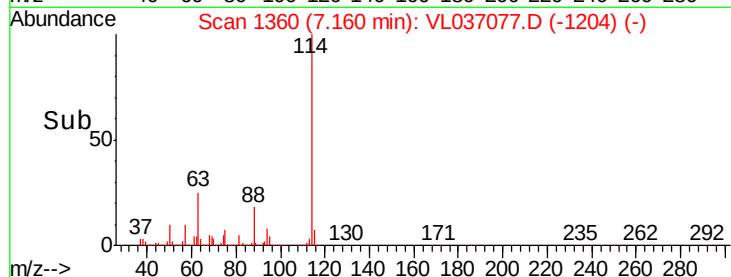
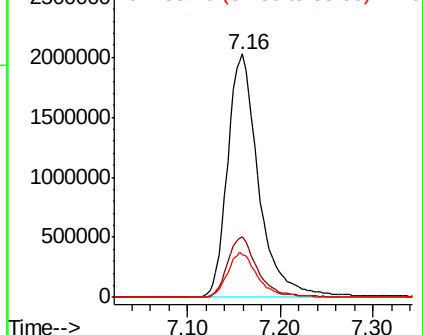
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. 0.00 min
 Lab File: VL037077.D
 Acq: 1 Jun 2021 19:36

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion:114 Resp: 4710256
 Ion Ratio Lower Upper
 114 100
 63 24.4 19.6 29.4
 88 18.3 14.6 21.8

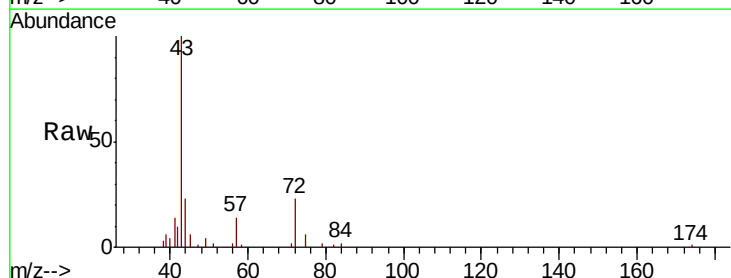


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

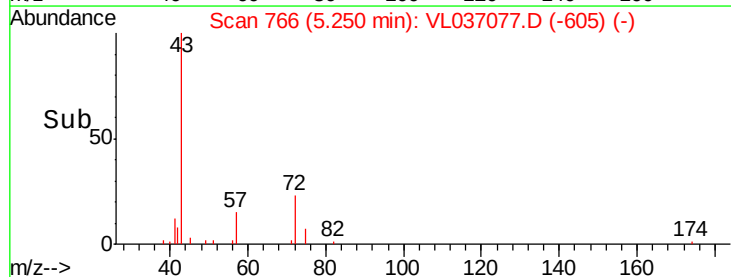
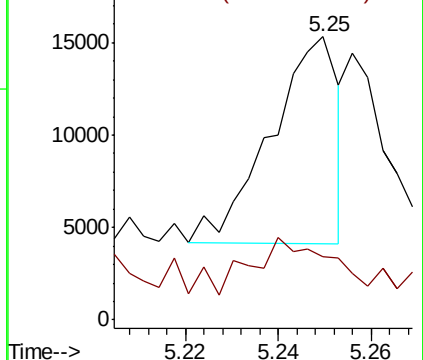


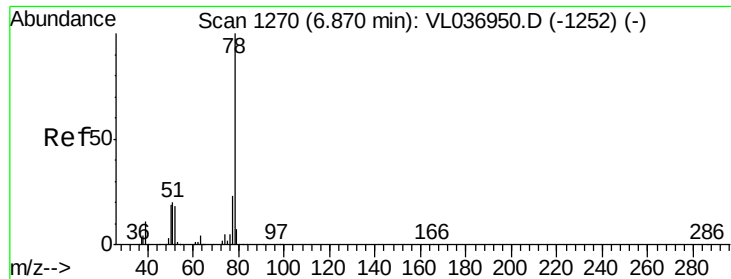
#34
 2-Butanone
 Concen: 0.066 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.02 min
 Lab File: VL037077.D
 Acq: 1 Jun 2021 19:36

Tgt Ion: 43 Resp: 11302
 Ion Ratio Lower Upper
 43 100
 72 123.3 19.0 28.4#



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

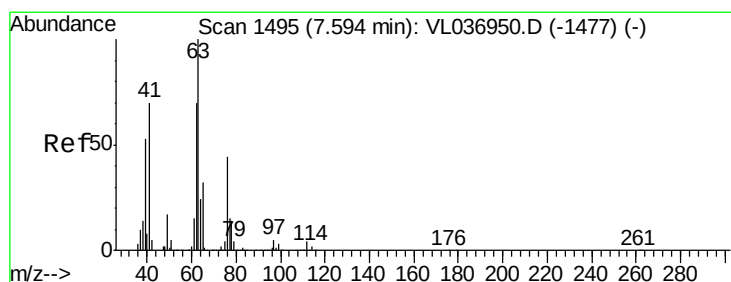
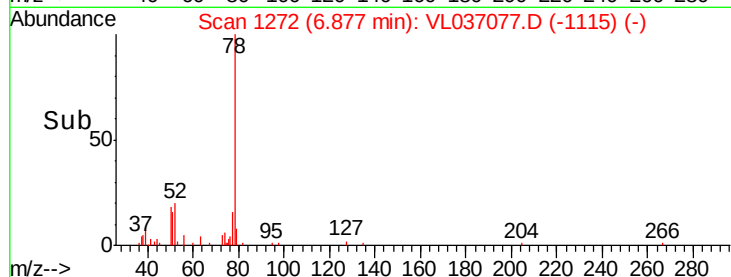
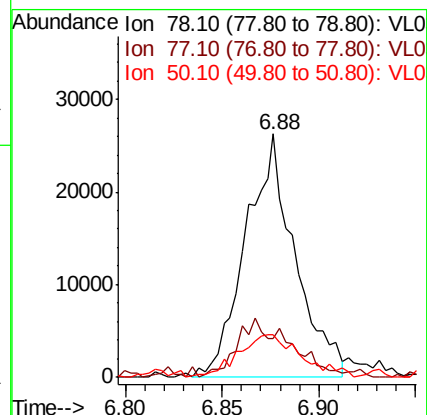
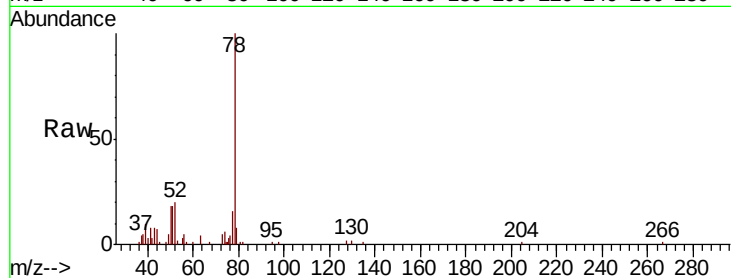




#36
Benzene
Concen: 0.115 ppbv
RT: 6.88 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VL037077.D
Acq: 1 Jun 2021 19:36

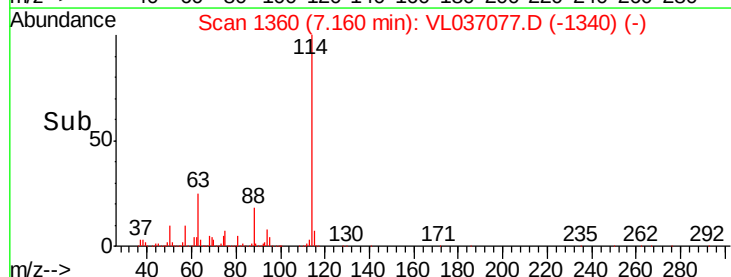
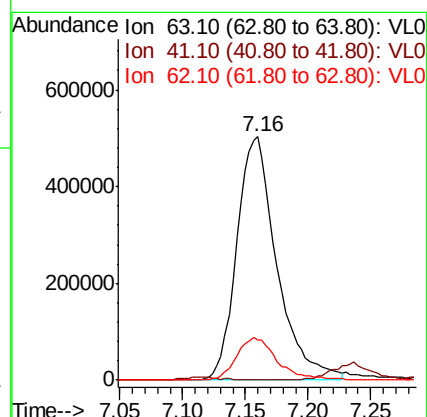
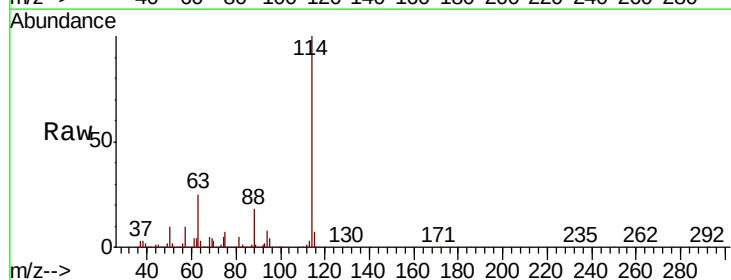
Instrument :
MSVOA_L
ClientSampleId :

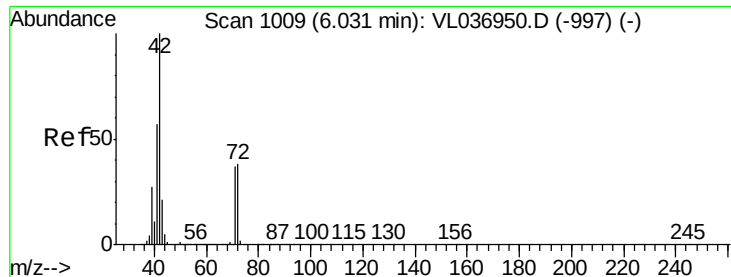
Tot Ion: 78 Resp: 46518
Ion Ratio Lower Upper
78 100
77 14.3 18.6 28.0#
50 17.2 15.0 22.4



#39
1,2-Dichloropropane
Concen: 7.138 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.43 min
Lab File: VL037077.D
Acq: 1 Jun 2021 19:36

Tgt Ion: 63 Resp: 1115575
Ion Ratio Lower Upper
63 100
41 0.0 55.7 83.5#
62 16.6 56.2 84.4#





#41

Tetrahydrofuran

Concen: 0.064 ppbv

RT: 6.30 min Scan# 1092

Delta R.T. 0.27 min

Lab File: VL037077.D

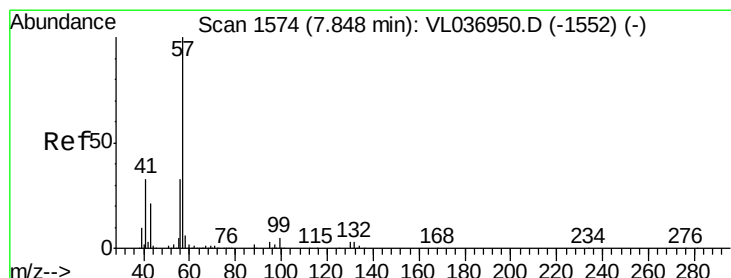
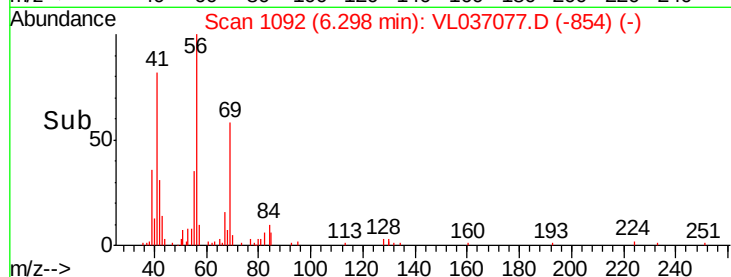
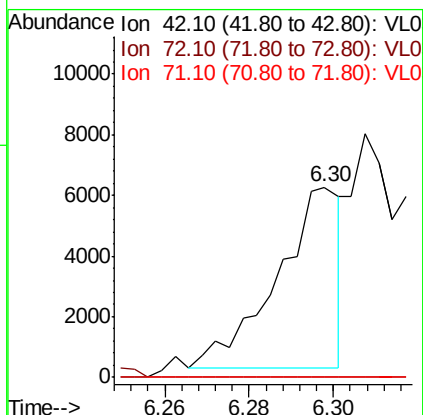
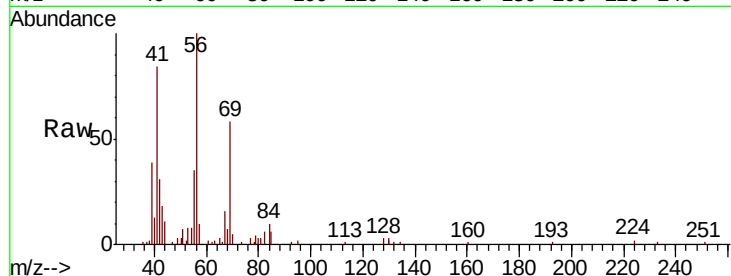
Acq: 1 Jun 2021 19:36

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	42	Resp:	6251
Ion	Ratio	Lower	Upper
42	100		
72	2.5	31.4	47.2#
71	0.0	30.4	45.6#



#44

2,2,4-Trimethylpentane

Concen: 0.095 ppbv

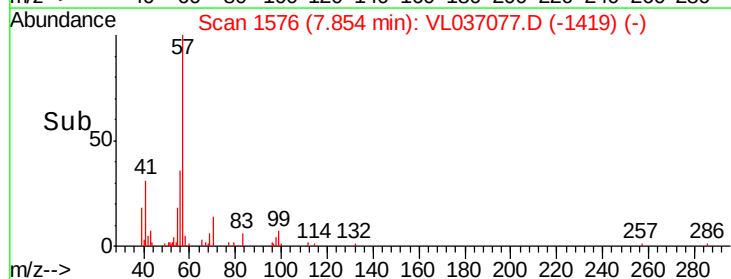
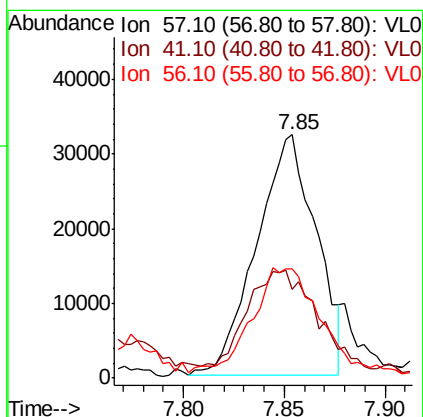
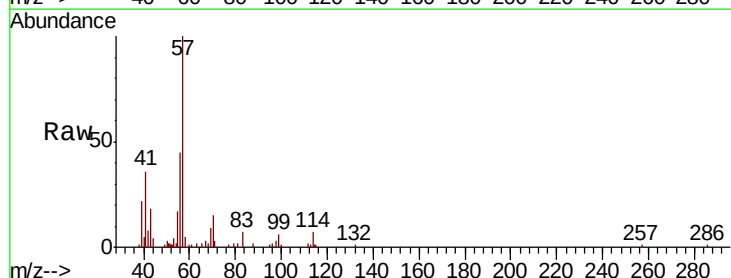
RT: 7.85 min Scan# 1576

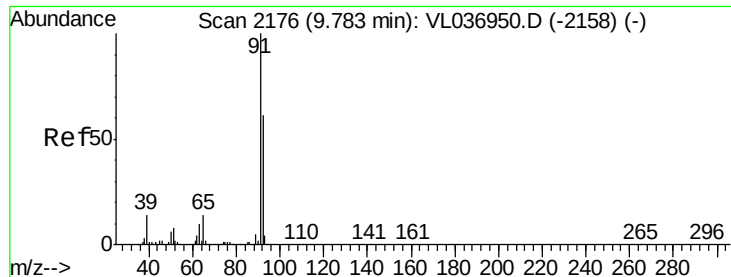
Delta R.T. 0.01 min

Lab File: VL037077.D

Acq: 1 Jun 2021 19:36

Tgt Ion:	57	Resp:	66262
Ion	Ratio	Lower	Upper
57	100		
41	56.5	27.0	40.4#
56	54.4	25.4	38.2#





#53

Toluene

Concen: 0.522 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. 0.01 min

Lab File: VL037077.D

Acq: 1 Jun 2021 19:36

Instrument :

MSVOA_L

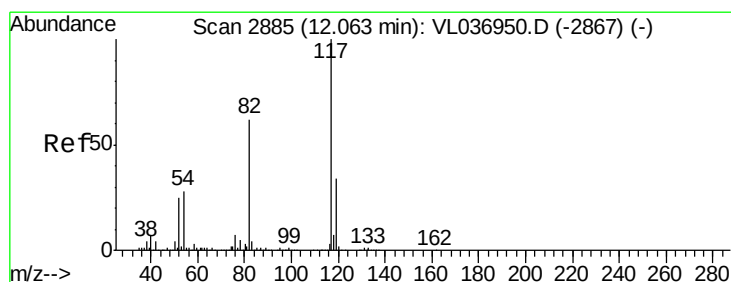
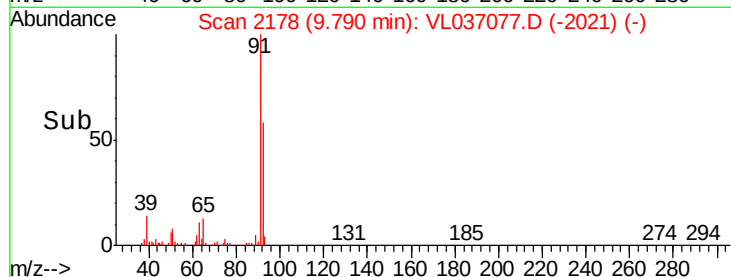
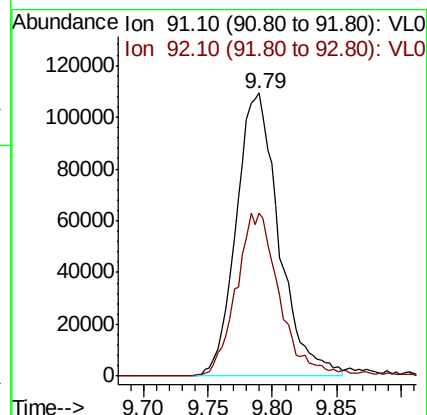
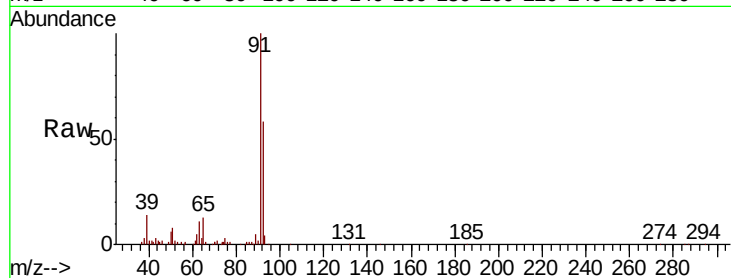
ClientSampled :

Tot Ion: 91 Resp: 252069

Ion Ratio Lower Upper

91 100

92 59.1 49.5 74.3



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VL037077.D

Acq: 1 Jun 2021 19:36

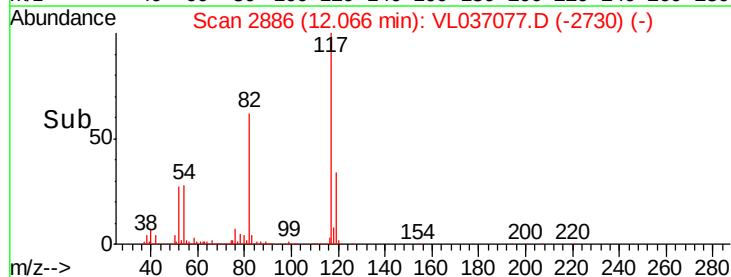
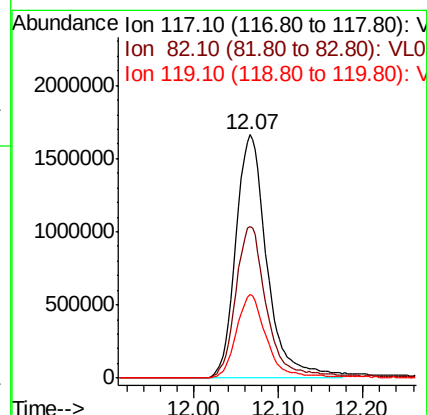
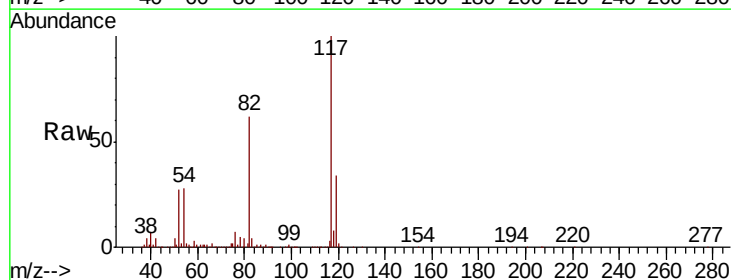
Tgt Ion: 117 Resp: 4297004

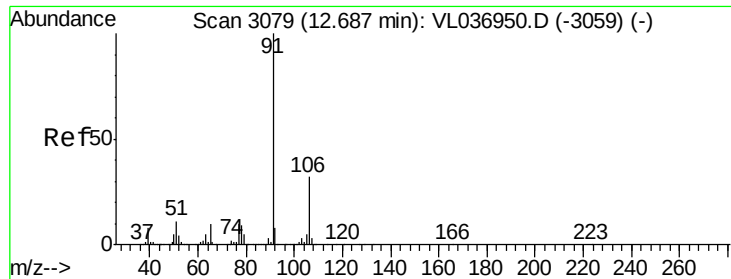
Ion Ratio Lower Upper

117 100

82 63.4 52.6 79.0

119 34.5 46.6 70.0#

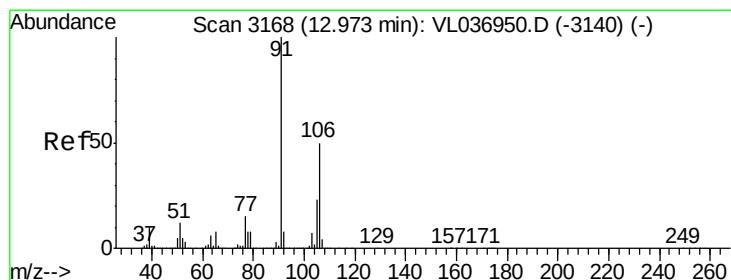
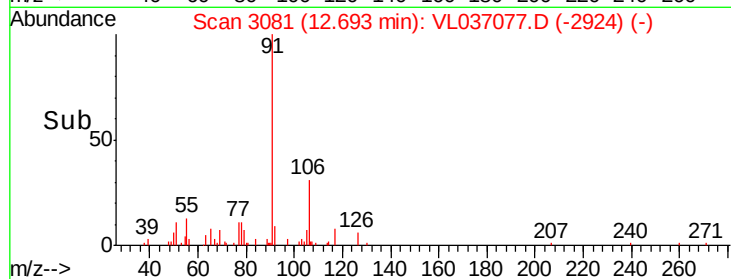
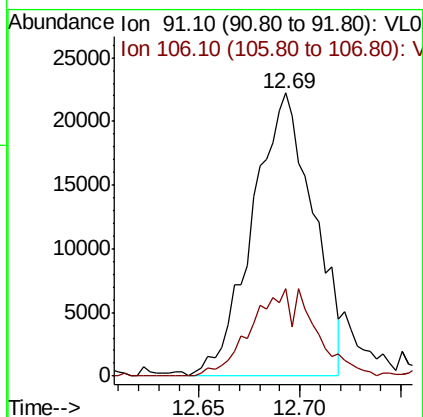
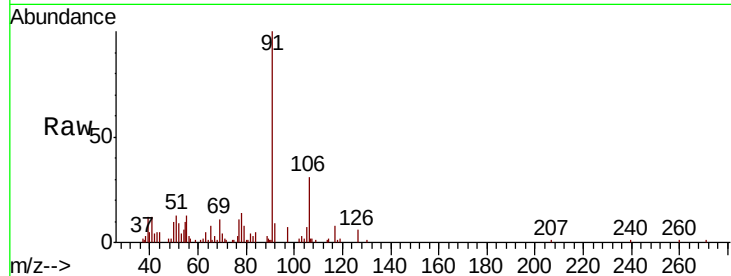




#58
Ethyl Benzene
Concen: 0.077 ppbv
RT: 12.69 min Scan# 3081
Delta R.T. 0.01 min
Lab File: VL037077.D
Acq: 1 Jun 2021 19:36

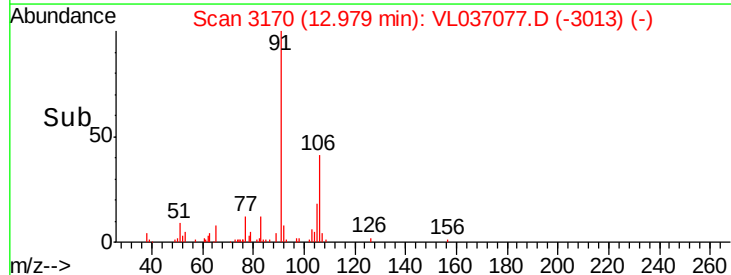
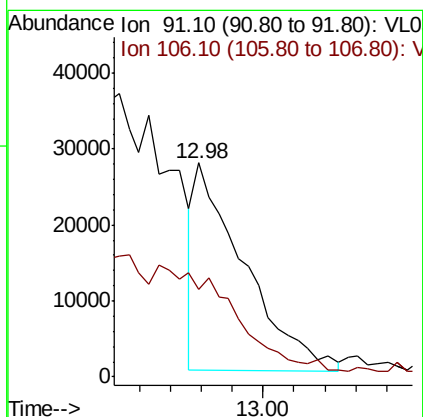
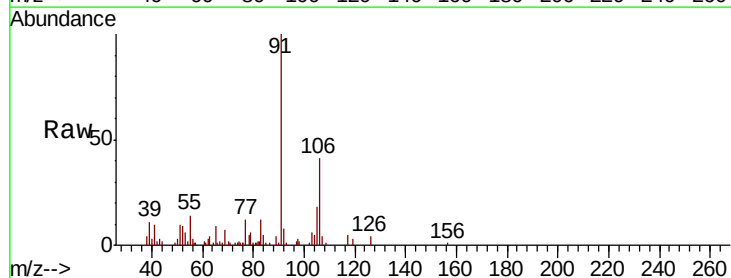
Instrument :
MSVOA_L
ClientSampled :

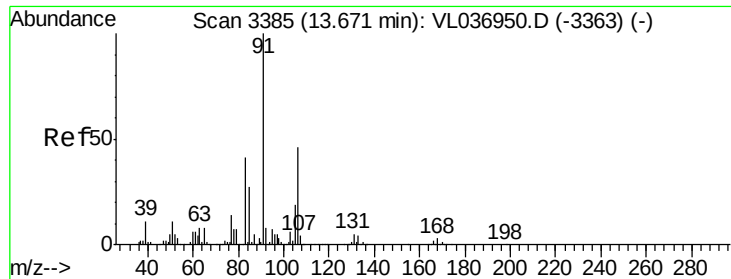
Tot Ion: 91 Resp: 46594
Ion Ratio Lower Upper
91 100
106 30.8 25.6 38.4



#59
m/p-Xylene
Concen: 0.061 ppbv
RT: 12.98 min Scan# 3170
Delta R.T. 0.01 min
Lab File: VL037077.D
Acq: 1 Jun 2021 19:36

Tgt Ion: 91 Resp: 30456
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#

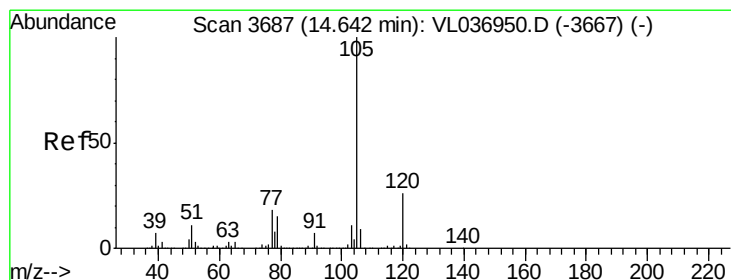
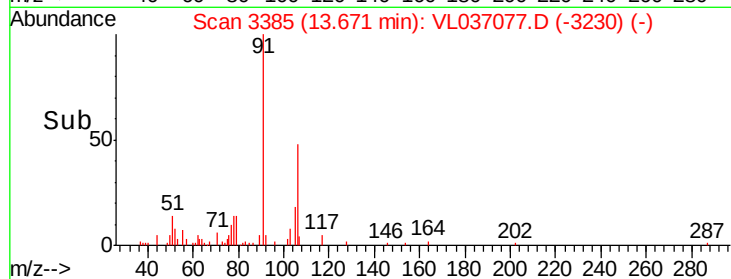
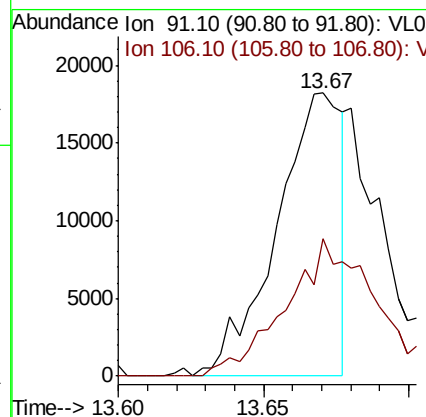
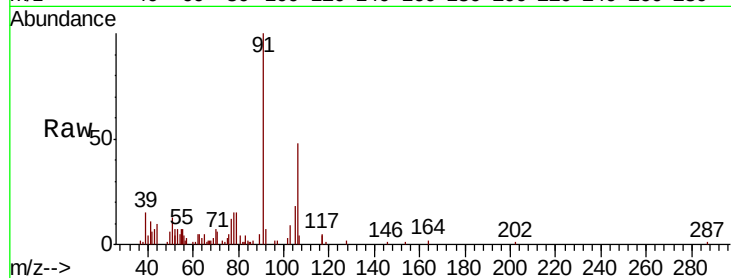




#60
o-Xylene
Concen: 0.060 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. -0.00 min
Lab File: VL037077.D
Acq: 1 Jun 2021 19:36

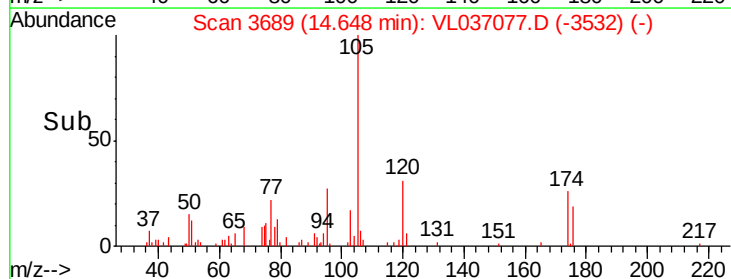
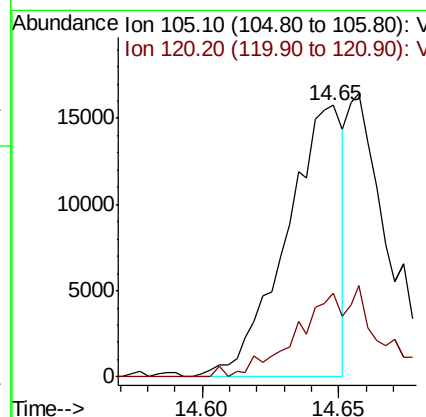
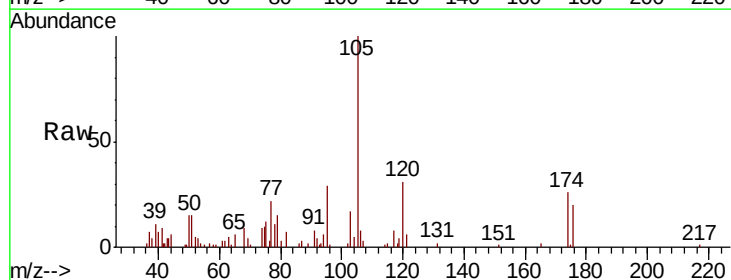
Instrument :
MSVOA_L
ClientSampled :

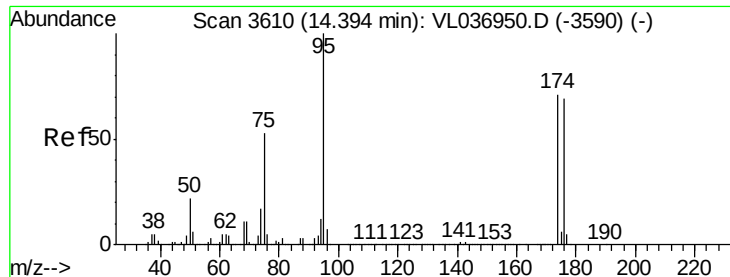
Tot Ion: 91 Resp: 28462
Ion Ratio Lower Upper
91 100
106 71.6 23.4 70.3#



#62
Isopropylbenzene
Concen: 0.033 ppbv
RT: 14.65 min Scan# 3689
Delta R.T. 0.01 min
Lab File: VL037077.D
Acq: 1 Jun 2021 19:36

Tgt Ion: 105 Resp: 22805
Ion Ratio Lower Upper
105 100
120 0.0 21.7 32.5#

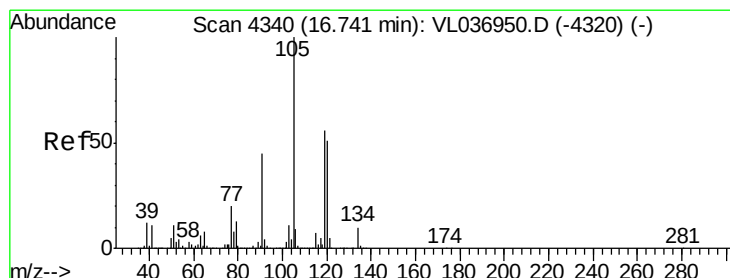
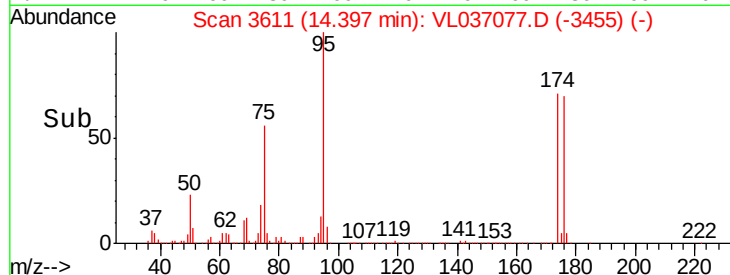
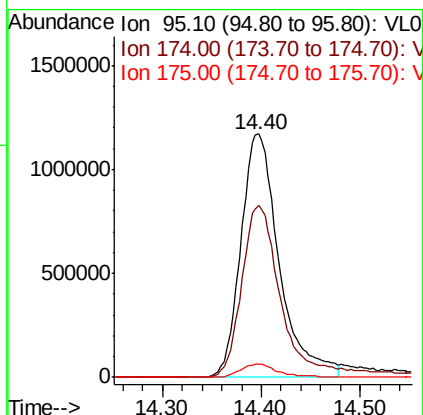
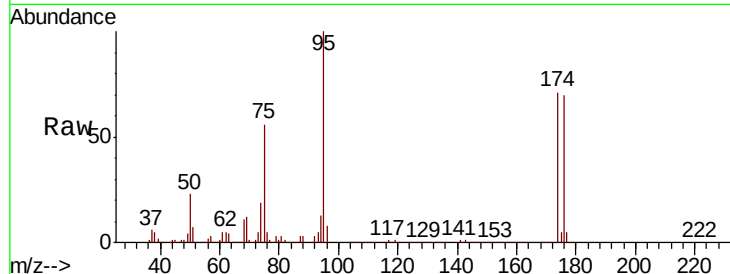




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.773 ppbv
 RT: 14.40 min Scan# 3611
 Delta R.T. 0.00 min
 Lab File: VL037077.D
 Acq: 1 Jun 2021 19:36

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 3154881
 Ion Ratio Lower Upper
 95 100
 174 76.0 58.4 87.6
 175 5.4 4.4 6.6



#74
 1,2,4-Trimethylbenzene
 Concen: 0.077 ppbv
 RT: 16.75 min Scan# 4342
 Delta R.T. 0.01 min
 Lab File: VL037077.D
 Acq: 1 Jun 2021 19:36

Tgt Ion: 105 Resp: 42208
 Ion Ratio Lower Upper
 105 100
 120 34.2 40.6 61.0#
 91 5.5 37.4 56.0#
 77 14.1 16.2 24.4#

