

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060121\
 Data File : VL037090.D
 Acq On : 2 Jun 2021 4:13
 Operator : SY/AP
 Sample : M2548-06
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 02 06:50:04 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	1301198	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3858385	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3494717	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2532006	9.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.40%

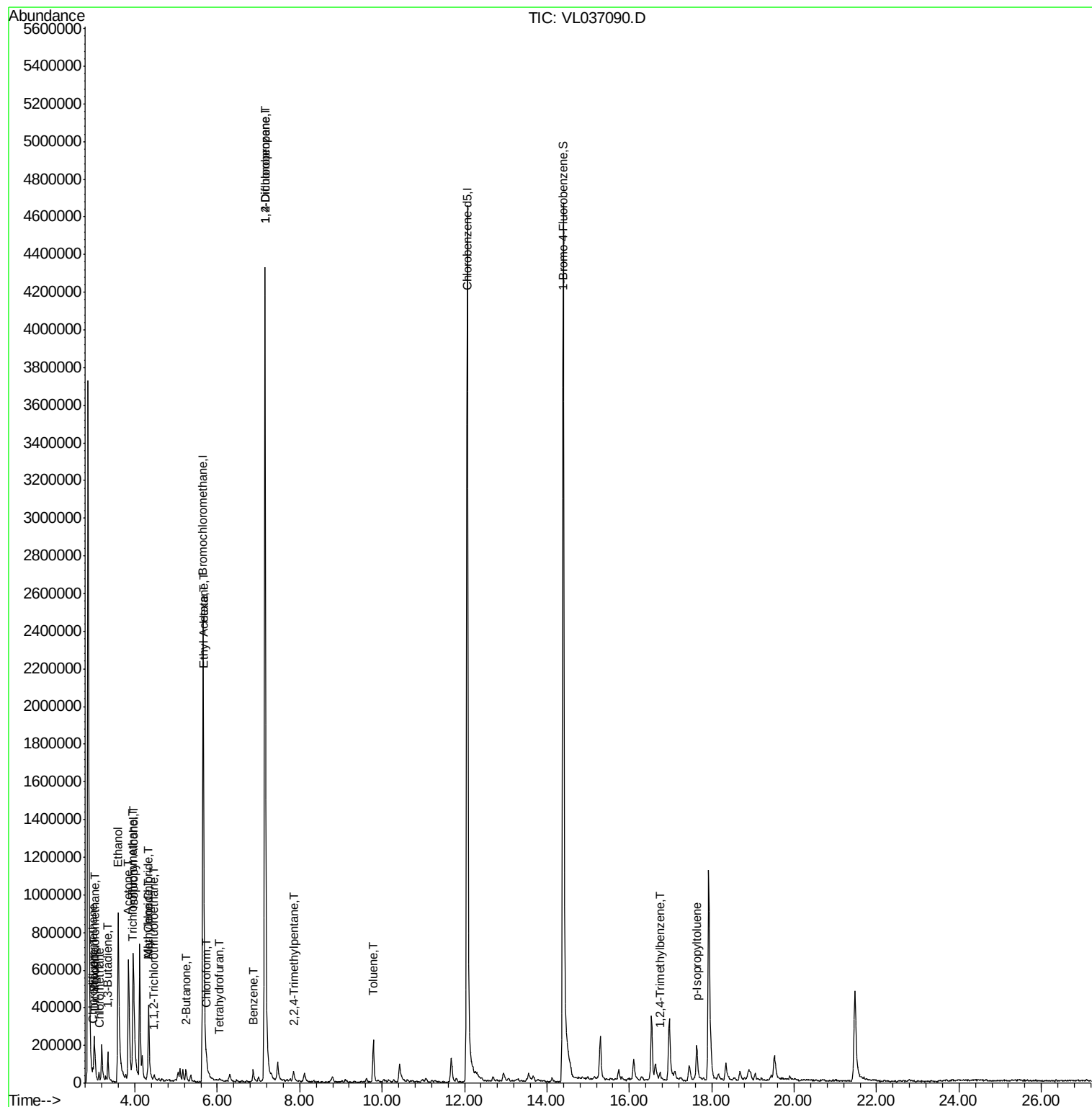
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	72124	0.327	ppbv 98
3) Chlorodifluoromethane	2.98	51	84174	0.353	ppbv # 89
4) Chloromethane	3.13	50	41025	0.506	ppbv # 79
9) Propene	3.01	41	55029	0.645	ppbv # 76
11) Trichlorofluoromethane	3.94	101	59719	0.292	ppbv 94
12) 1,1,2-Trichlorotrifluoroet	4.47	101	8003	0.055	ppbv # 64
13) Ethanol	3.59	45	1228488	107.865	ppbv 99
15) Acetone	3.84	43	878816	6.594	ppbv 96
16) 1,3-Butadiene	3.34	39	14831	0.179	ppbv # 32
19) Isopropyl Alcohol	3.96	45	1054157	14.714	ppbv # 36
20) Methylene Chloride	4.33	84	159677	2.235	ppbv 97
21) Allyl Chloride	4.33	41	3382	0.034	ppbv # 82
25) Ethyl Acetate	5.67	43	102334	0.320	ppbv # 86
26) Hexane	5.67	57	130883	0.800	ppbv # 50
29) Chloroform	5.74	83	17043	0.074	ppbv 97
34) 2-Butanone	5.24	43	77000	0.548	ppbv 94
36) Benzene	6.87	78	39082	0.118	ppbv # 89
39) 1,2-Dichloropropane	7.16	63	909574	7.105	ppbv # 25
41) Tetrahydrofuran	6.04	42	2678	0.033	ppbv # 46
44) 2,2,4-Trimethylpentane	7.85	57	38767	0.068	ppbv # 67
53) Toluene	9.78	91	167663	0.424	ppbv 98
69) p-Isopropyltoluene	17.64	119	64254	0.109	ppbv # 24
74) 1,2,4-Trimethylbenzene	16.74	105	15961	0.036	ppbv # 72

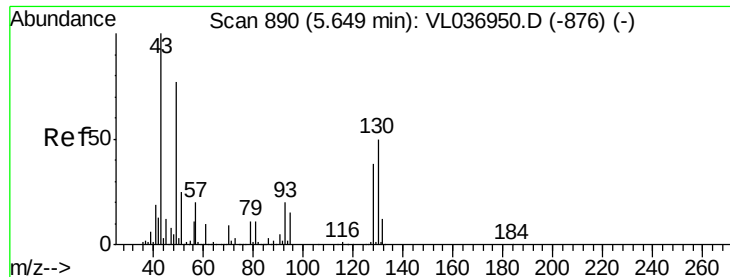
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060121\
Data File : VL037090.D
Acq On : 2 Jun 2021 4:13
Operator : SY/AP
Sample : M2548-06
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Jun 02 06:50:04 2021
Quant Method : Z:\V0ASRV\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

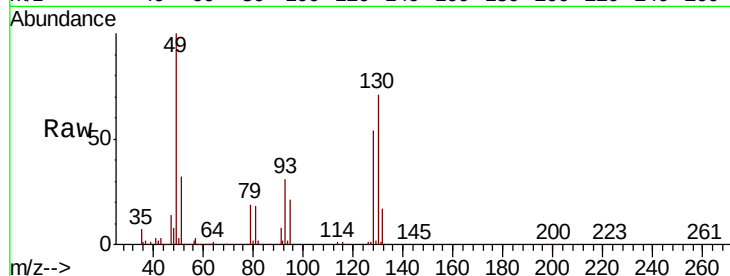




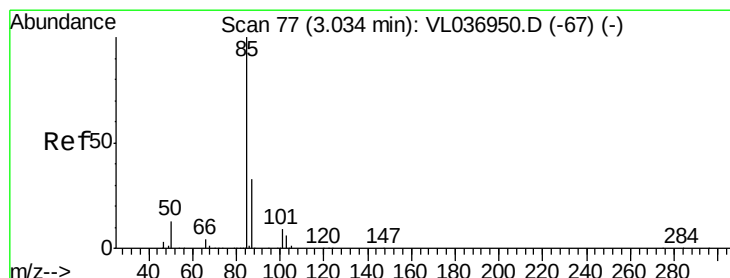
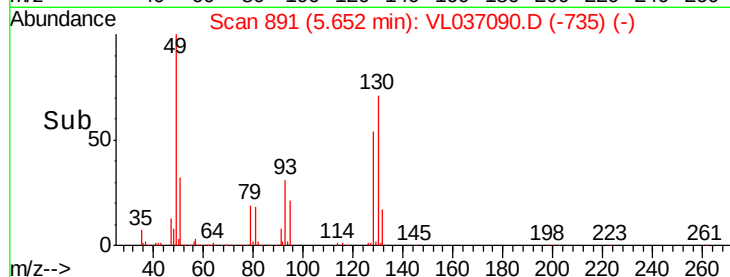
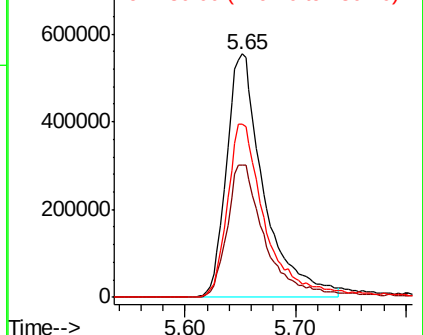
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 891
Delta R.T. 0.00 min
Lab File: VL037090.D
Acq: 2 Jun 2021 4:13

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1301198
Ion Ratio Lower Upper
49 100
128 56.9 26.9 80.7
130 74.1 33.8 101.4

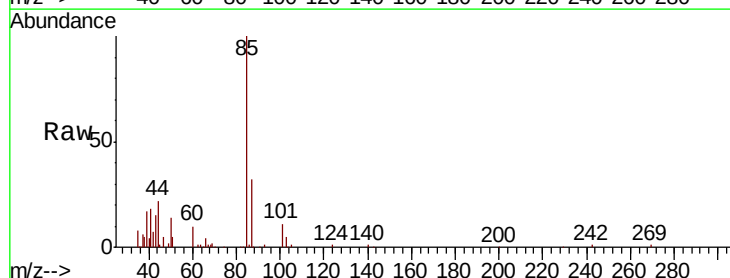


Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V

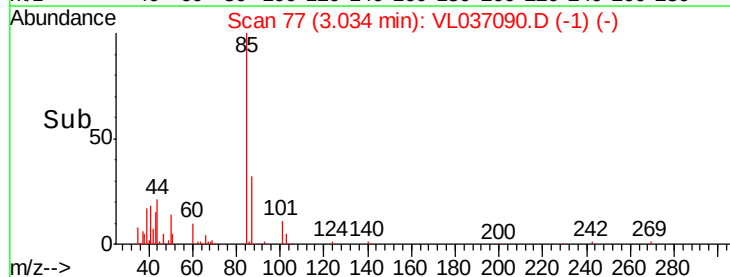
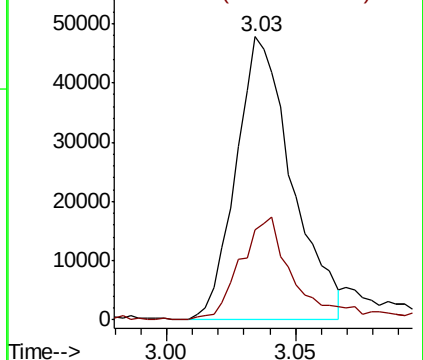


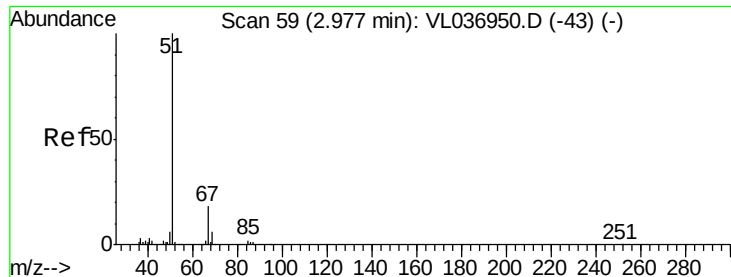
#2
Dichlorodifluoromethane
Concen: 0.327 ppbv
RT: 3.03 min Scan# 77
Delta R.T. -0.00 min
Lab File: VL037090.D
Acq: 2 Jun 2021 4:13

Tgt Ion: 85 Resp: 72124
Ion Ratio Lower Upper
85 100
87 31.9 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.353 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.00 min

Lab File: VL037090.D

Acq: 2 Jun 2021 4:13

Instrument :

MSVOA_L

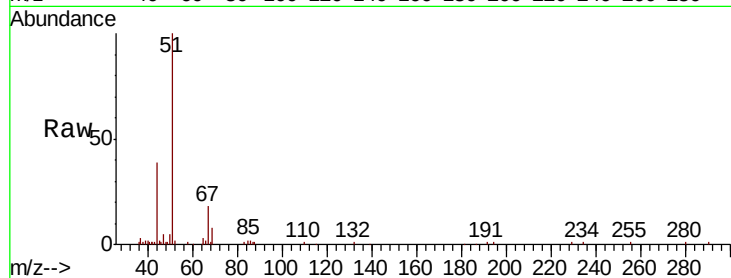
ClientSampleId :

Tot Ion: 51 Resp: 84174

Ion Ratio Lower Upper

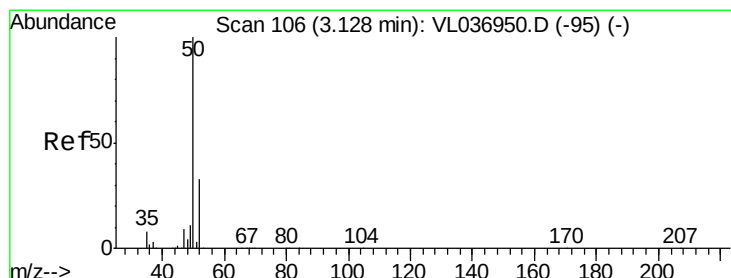
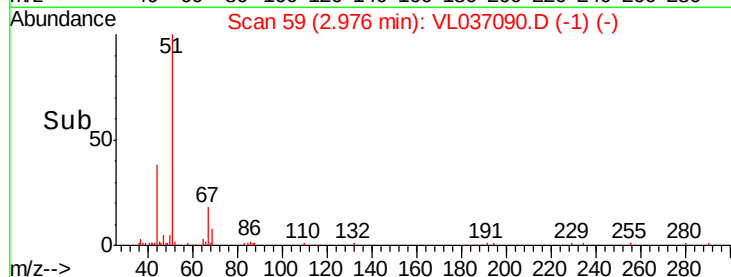
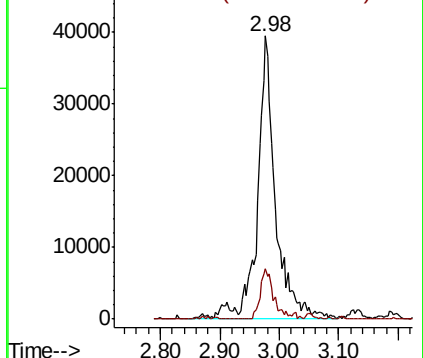
51 100

67 13.5 14.6 21.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.506 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL037090.D

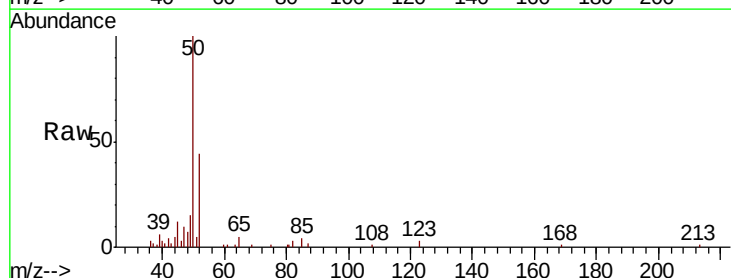
Acq: 2 Jun 2021 4:13

Tgt Ion: 50 Resp: 41025

Ion Ratio Lower Upper

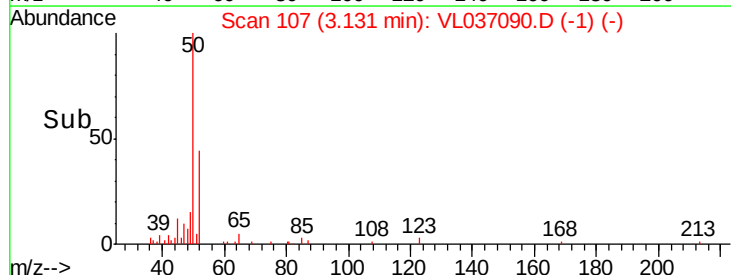
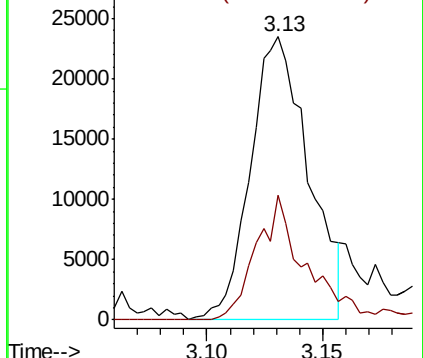
50 100

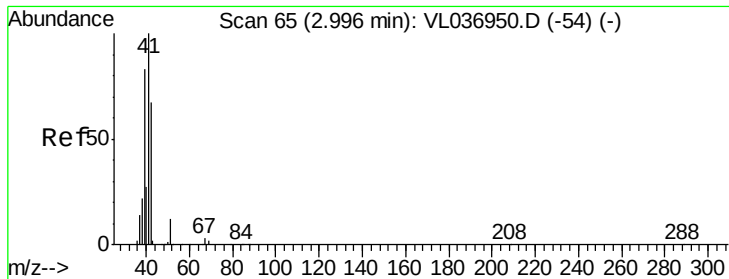
52 44.2 26.1 39.1#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

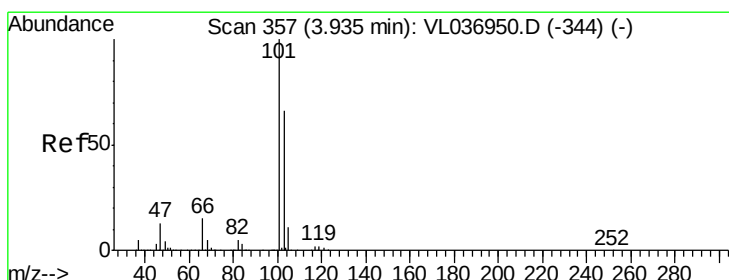
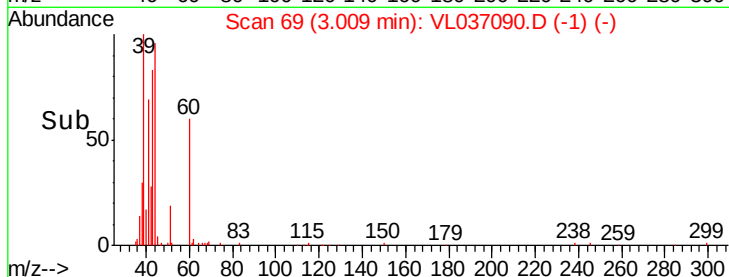
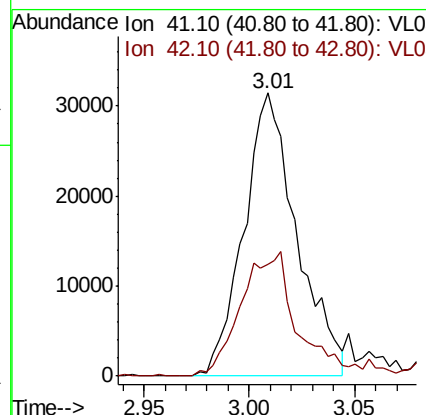
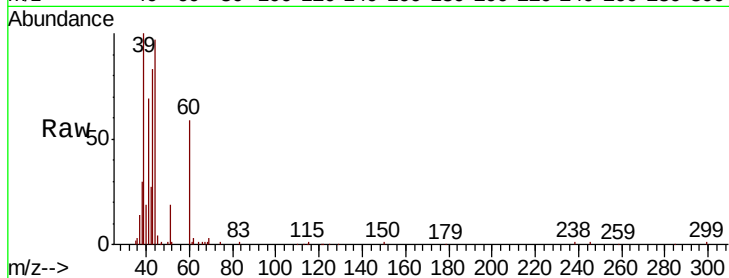




#9
 Propene
 Concen: 0.645 ppbv
 RT: 3.01 min Scan# 69
 Delta R.T. 0.01 min
 Lab File: VL037090.D
 Acq: 2 Jun 2021 4:13

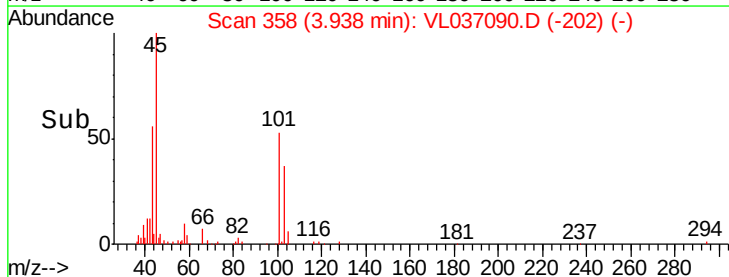
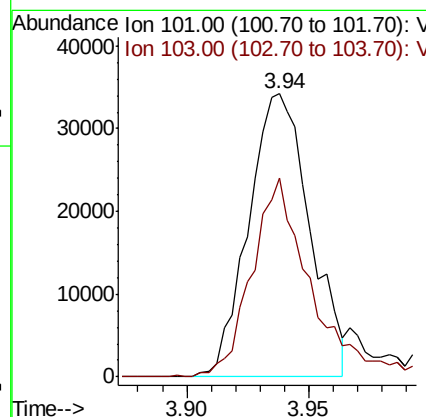
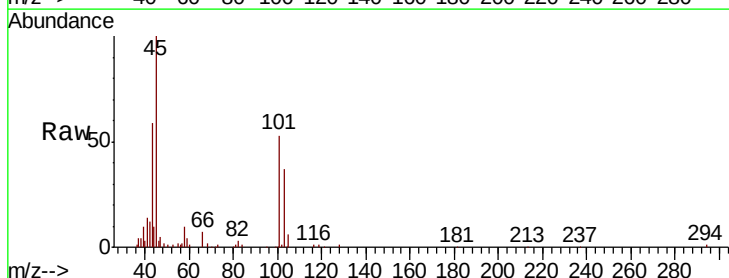
Instrument :
 MSVOA_L
 ClientSampleId :

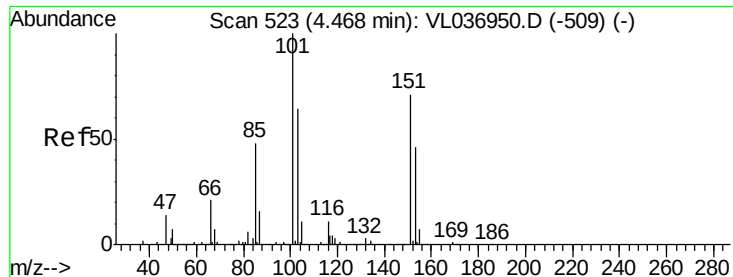
Tot Ion: 41 Resp: 55029
 Ion Ratio Lower Upper
 41 100
 42 48.2 53.9 80.9#



#11
 Trichlorofluoromethane
 Concen: 0.292 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. 0.00 min
 Lab File: VL037090.D
 Acq: 2 Jun 2021 4:13

Tgt Ion: 101 Resp: 59719
 Ion Ratio Lower Upper
 101 100
 103 70.3 52.6 79.0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.055 ppbv

RT: 4.47 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL037090.D

Acq: 2 Jun 2021 4:13

Instrument :

MSVOA_L

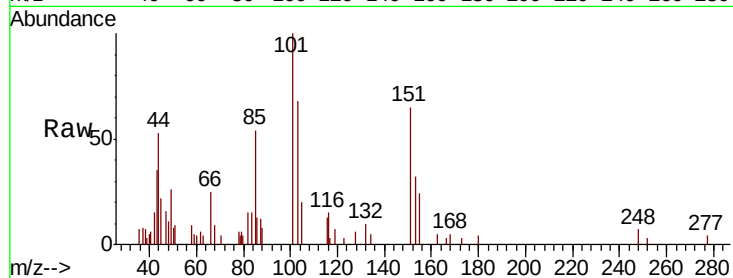
ClientSampleId :

Tot Ion:101 Resp: 8003

Ion Ratio Lower Upper

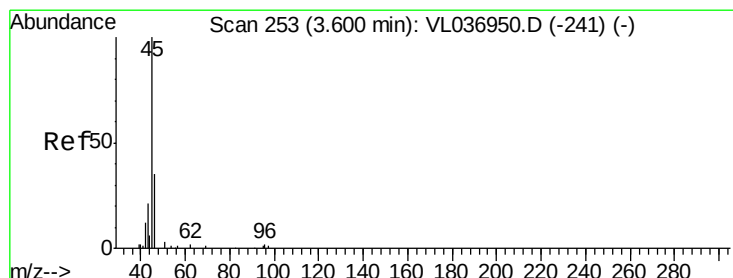
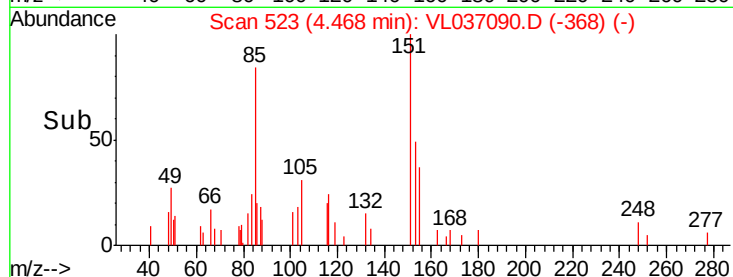
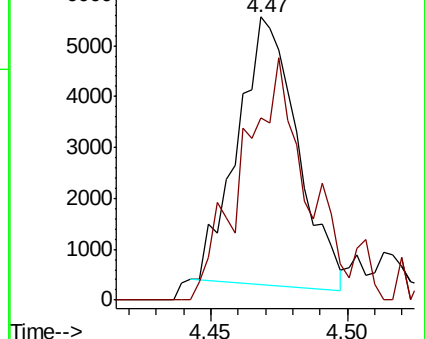
101 100

151 101.8 57.7 86.5#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 107.865 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.01 min

Lab File: VL037090.D

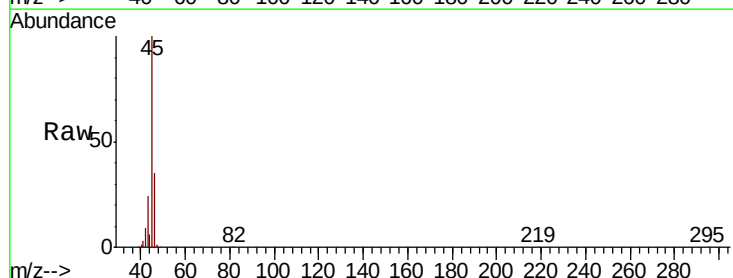
Acq: 2 Jun 2021 4:13

Tgt Ion: 45 Resp: 1228488

Ion Ratio Lower Upper

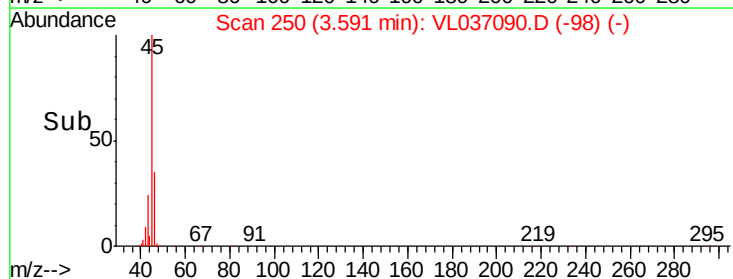
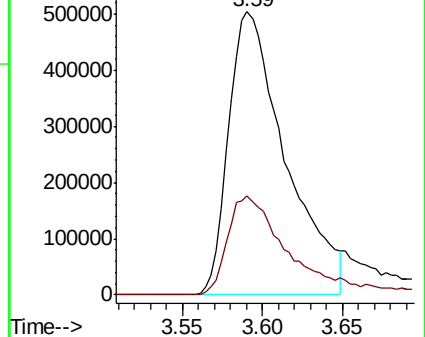
45 100

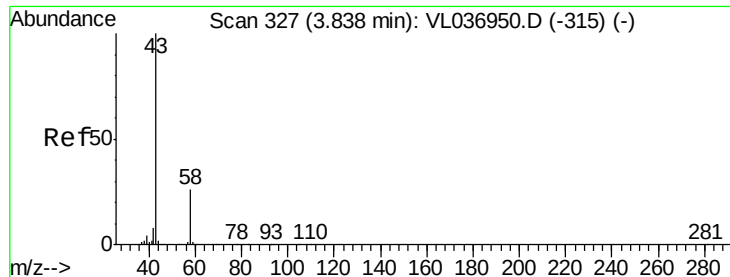
46 40.4 16.3 65.3



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 6.594 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.00 min

Lab File: VL037090.D

Acq: 2 Jun 2021 4:13

Instrument :

MSVOA_L

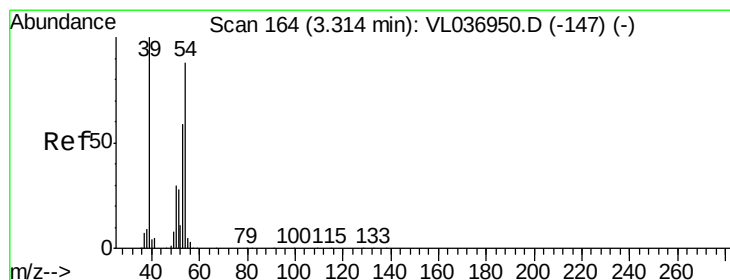
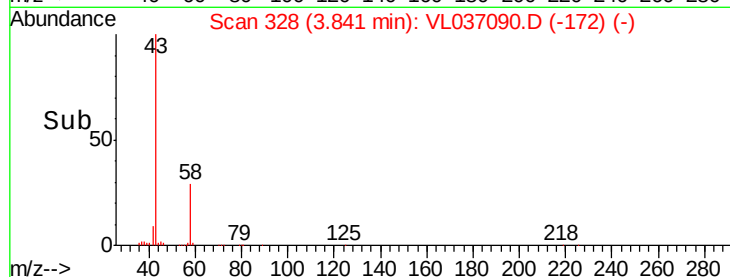
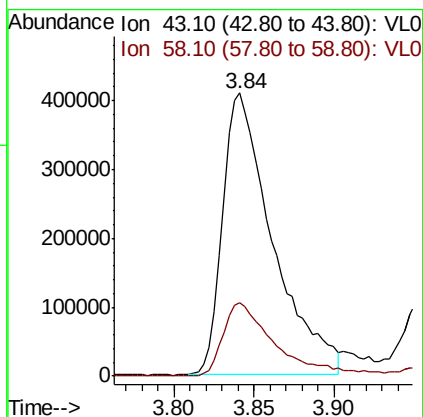
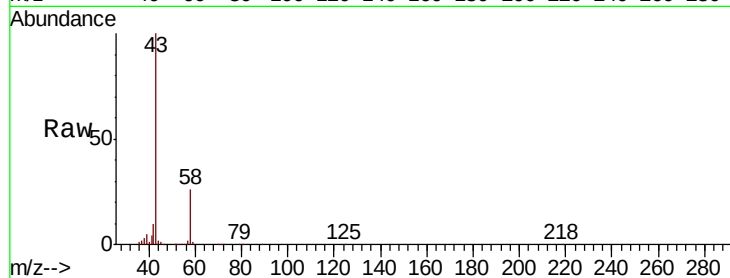
ClientSampled :

Tot Ion: 43 Resp: 878816

Ion Ratio Lower Upper

43 100

58 27.7 24.0 36.0



#16

1,3-Butadiene

Concen: 0.179 ppbv

RT: 3.34 min Scan# 173

Delta R.T. 0.03 min

Lab File: VL037090.D

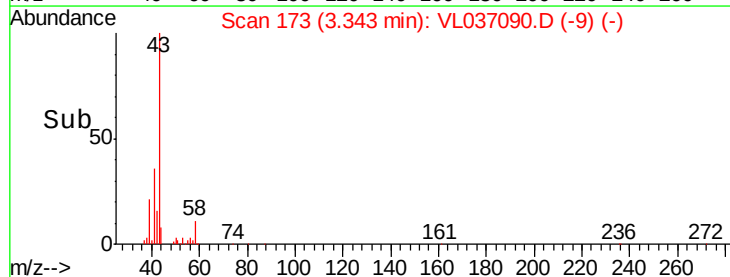
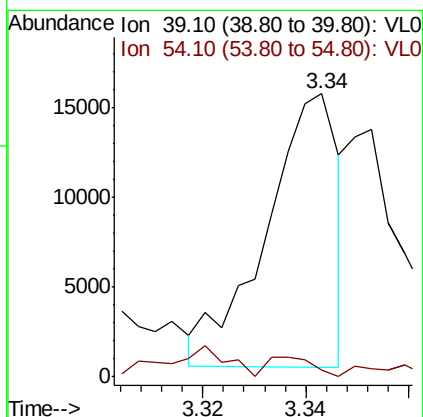
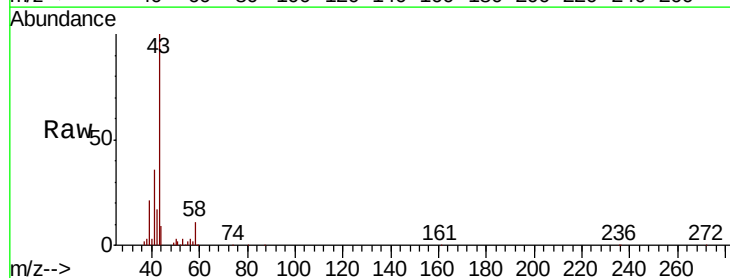
Acq: 2 Jun 2021 4:13

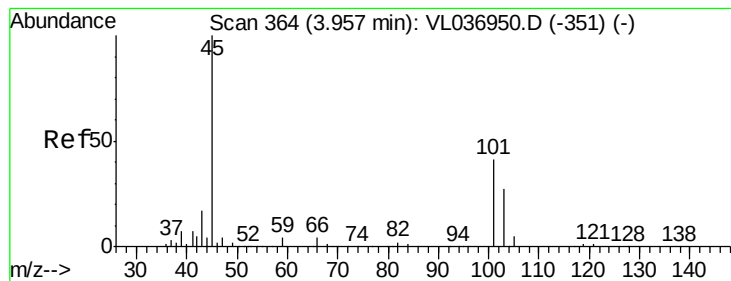
Tgt Ion: 39 Resp: 14831

Ion Ratio Lower Upper

39 100

54 19.0 63.2 94.8#





#19

Isopropyl Alcohol

Concen: 14.714 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VL037090.D

Acq: 2 Jun 2021 4:13

Instrument :

MSVOA_L

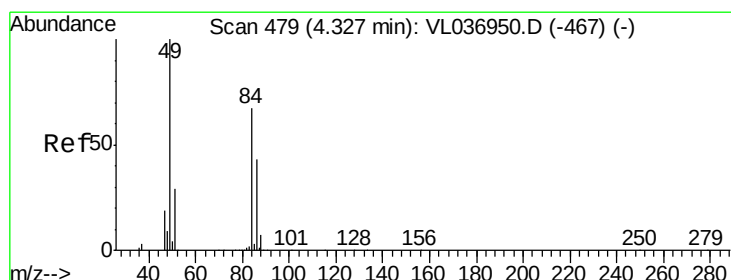
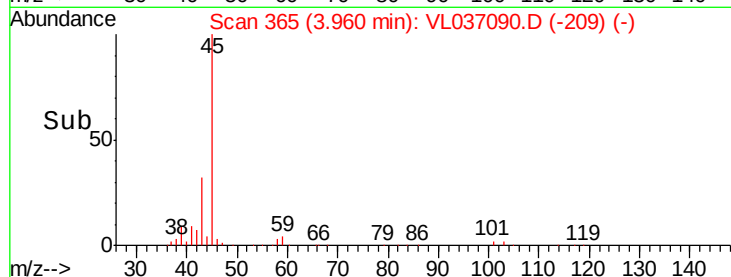
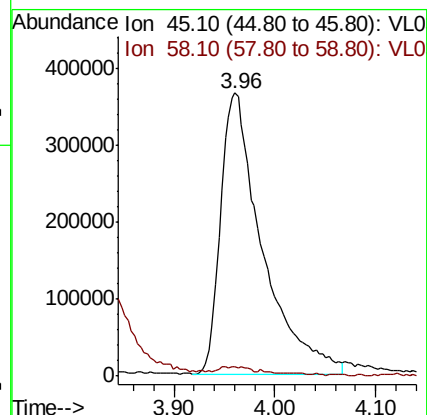
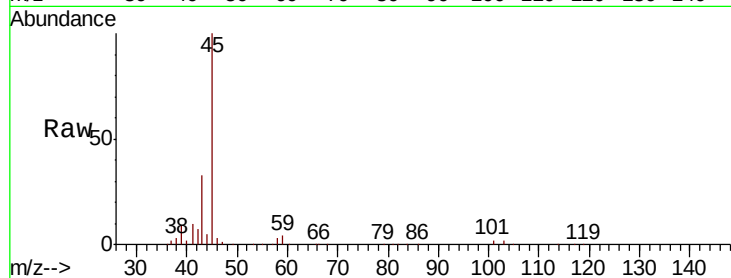
ClientSampleId :

Tot Ion: 45 Resp: 1054157

Ion Ratio Lower Upper

45 100

58 4.2 37.2 55.8#



#20

Methylene Chloride

Concen: 2.235 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL037090.D

Acq: 2 Jun 2021 4:13

Tgt Ion: 84 Resp: 159677

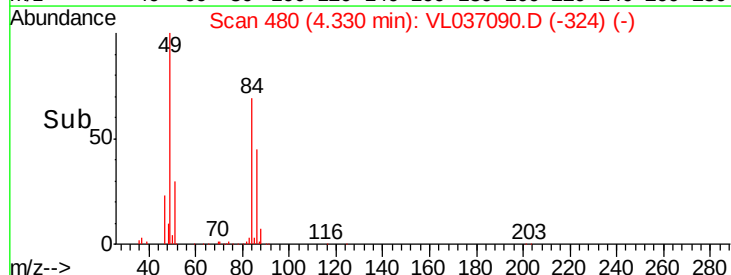
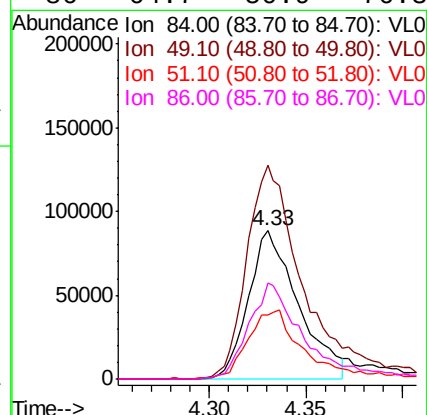
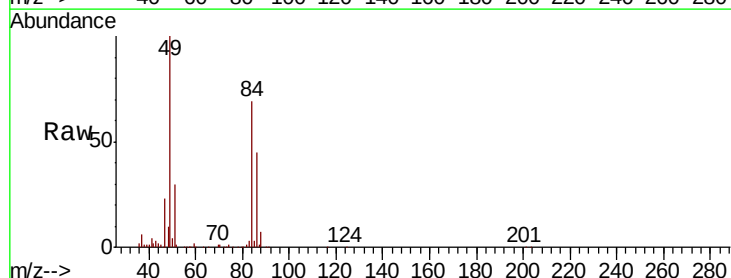
Ion Ratio Lower Upper

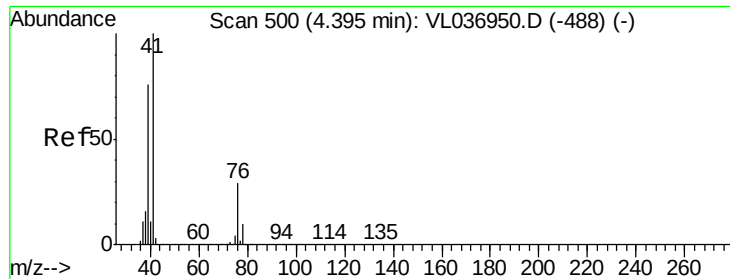
84 100

49 144.3 119.8 179.6

51 43.3 35.1 52.7

86 64.7 50.9 76.3





#21

Allvl Chloride

Concen: 0.034 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.07 min

Lab File: VL037090.D

Acq: 2 Jun 2021 4:13

Instrument :

MSVOA_L

ClientSampled :

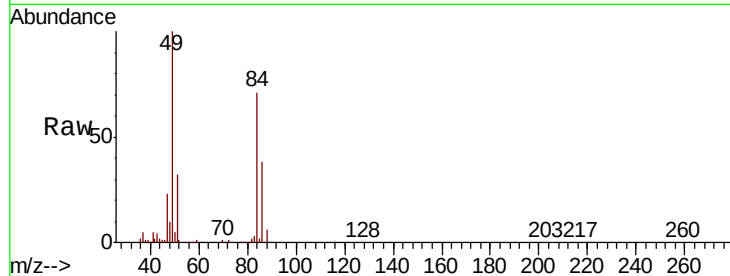
Tot Ion: 41 Resp: 3382

Ion Ratio Lower Upper

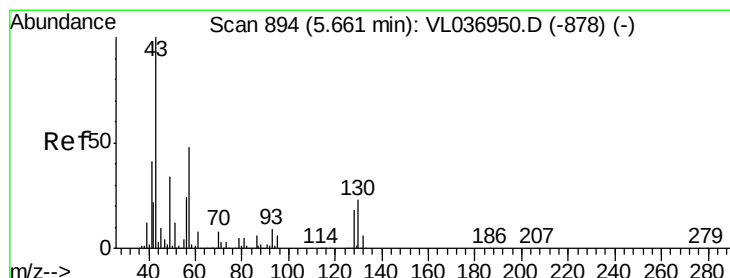
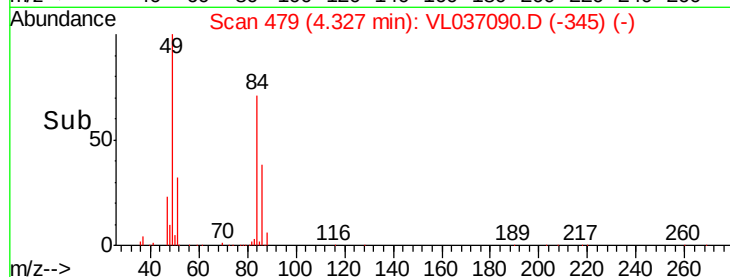
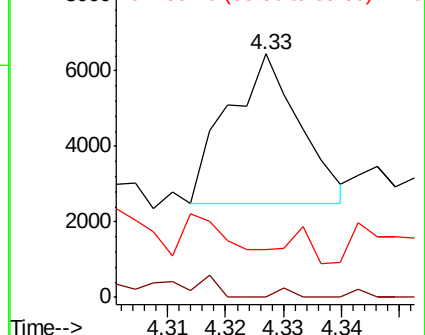
41 100

76 2.6 24.9 37.3#

39 83.9 63.7 95.5



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#25

Ethyl Acetate

Concen: 0.320 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL037090.D

Acq: 2 Jun 2021 4:13

Tgt Ion: 43 Resp: 102334

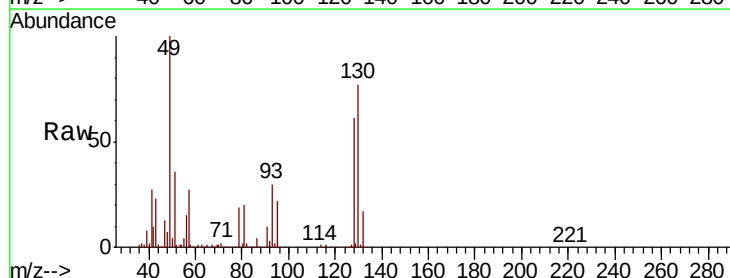
Ion Ratio Lower Upper

43 100

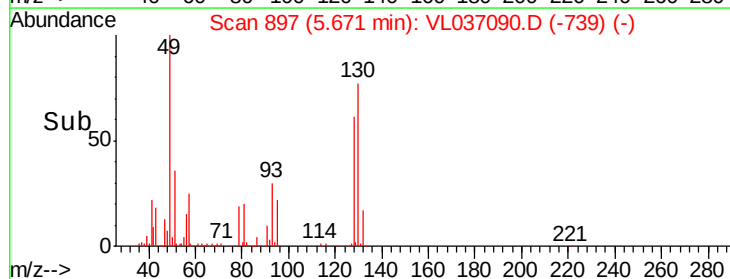
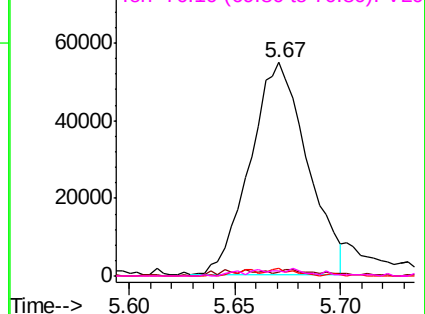
45 4.8 7.8 11.8#

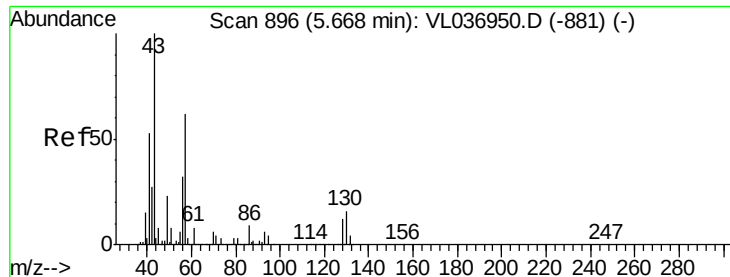
61 3.2 7.8 11.8#

70 3.8 5.6 8.4#



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

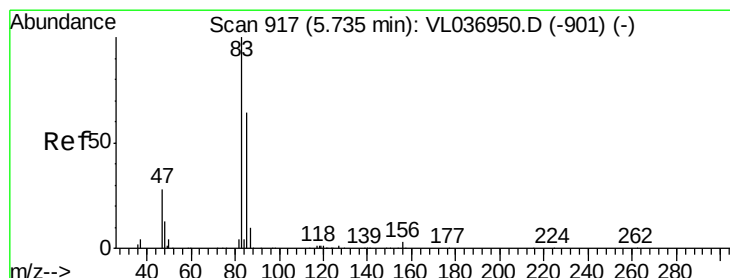
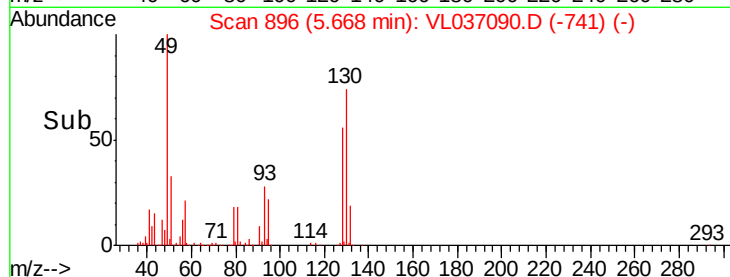
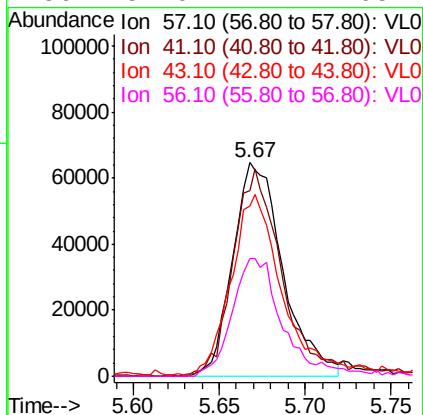
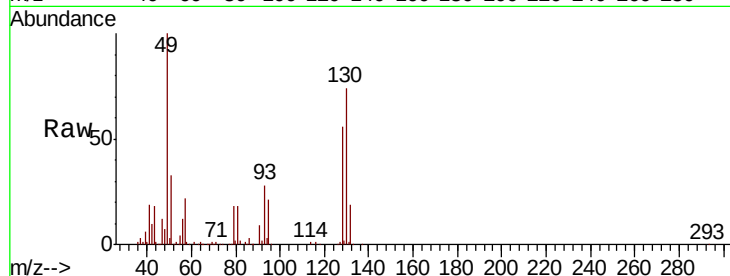




#26
Hexane
Concen: 0.800 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL037090.D
Acq: 2 Jun 2021 4:13

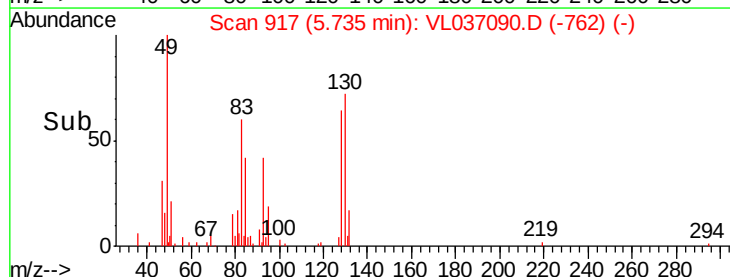
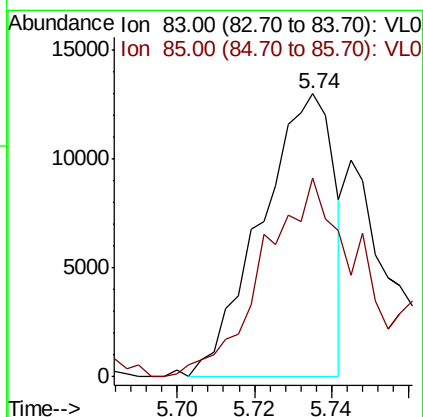
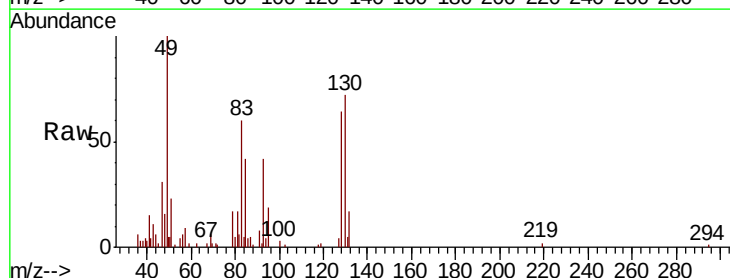
Instrument :
MSVOA_L
ClientSampleId :

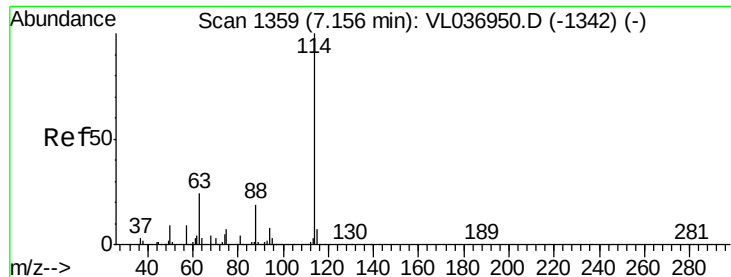
Tot Ion: 57 Resp: 130883
Ion Ratio Lower Upper
57 100
41 99.7 70.5 105.7
43 88.9 165.8 248.8#
56 57.0 42.2 63.4



#29
Chloroform
Concen: 0.074 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.00 min
Lab File: VL037090.D
Acq: 2 Jun 2021 4:13

Tgt Ion: 83 Resp: 17043
Ion Ratio Lower Upper
83 100
85 66.1 51.1 76.7



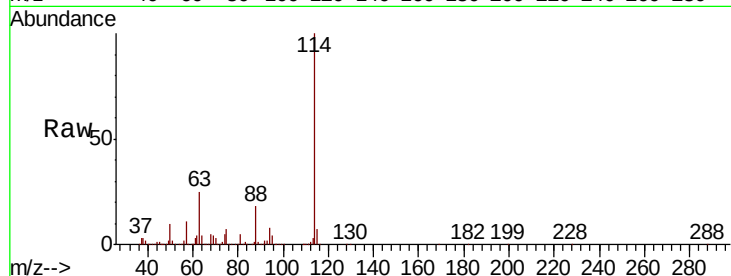


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VL037090.D
 Acq: 2 Jun 2021 4:13

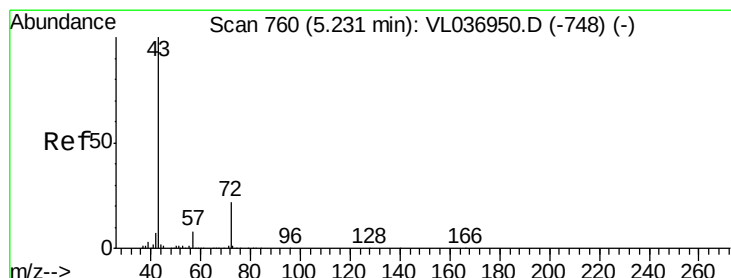
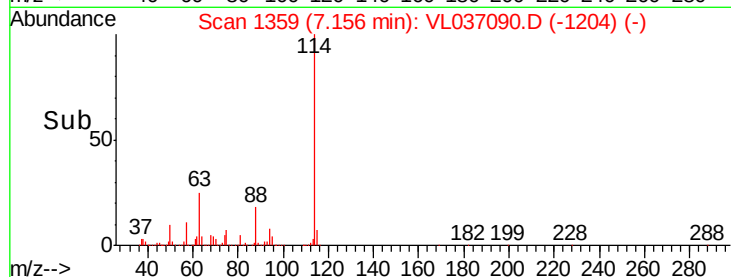
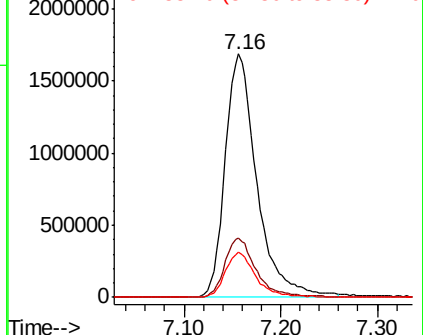
Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion:114 Resp: 3858385

Ion	Ratio	Lower	Upper
114	100		
63	24.4	19.6	29.4
88	18.0	14.6	21.8



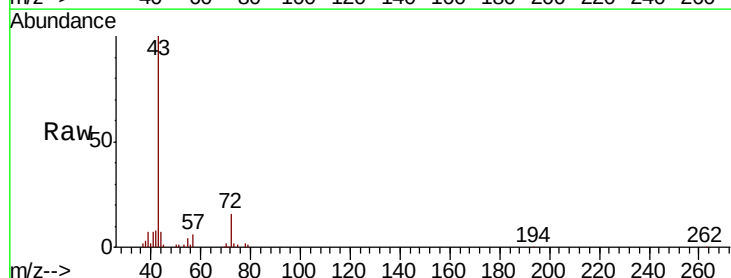
Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0



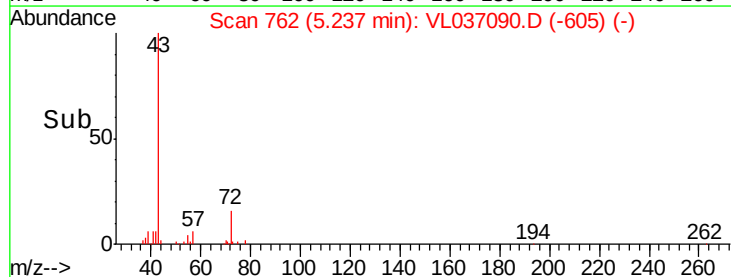
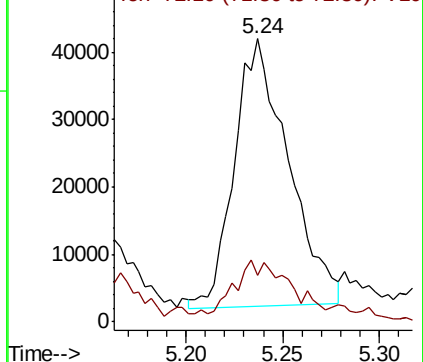
#34
 2-Butanone
 Concen: 0.548 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. 0.01 min
 Lab File: VL037090.D
 Acq: 2 Jun 2021 4:13

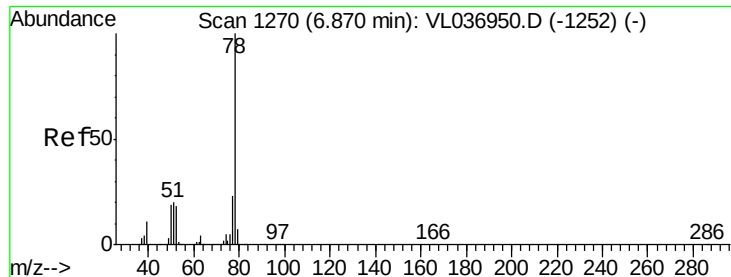
Tgt Ion: 43 Resp: 77000

Ion	Ratio	Lower	Upper
43	100		
72	26.7	19.0	28.4



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

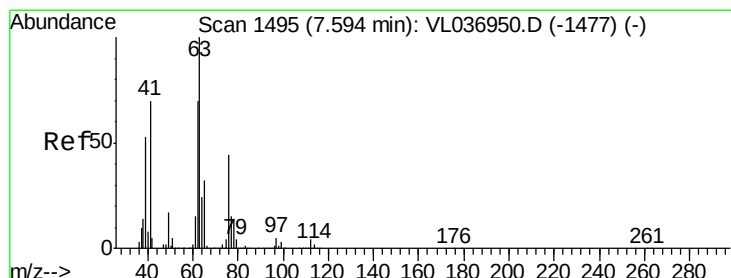
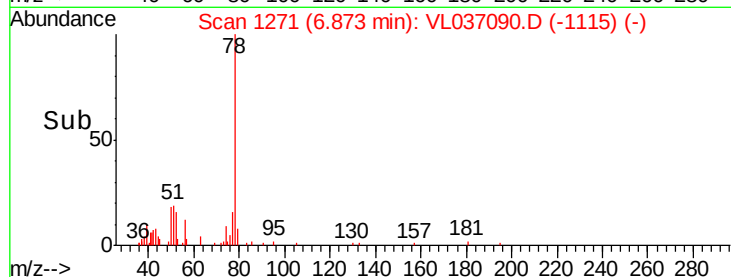
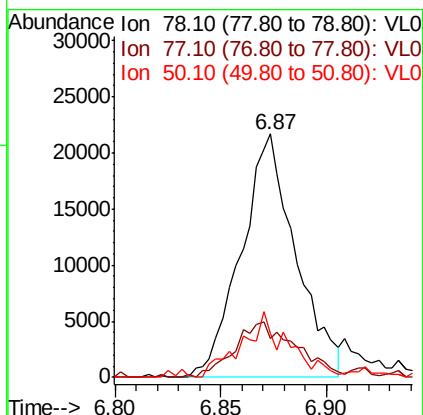
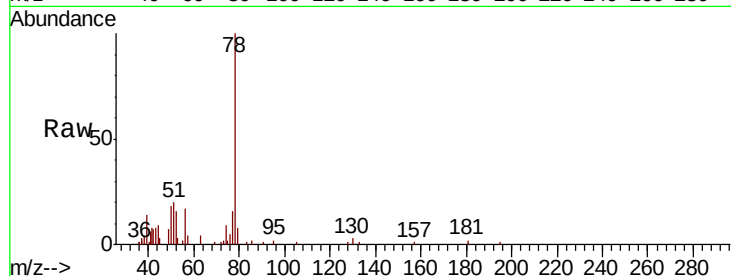




#36
Benzene
Concen: 0.118 ppbv
RT: 6.87 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VL037090.D
Acq: 2 Jun 2021 4:13

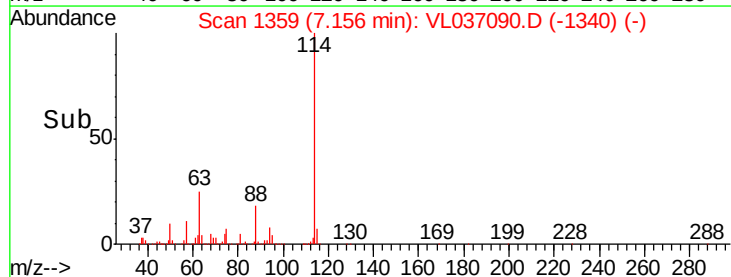
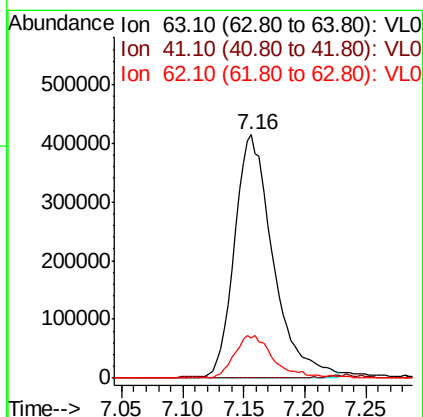
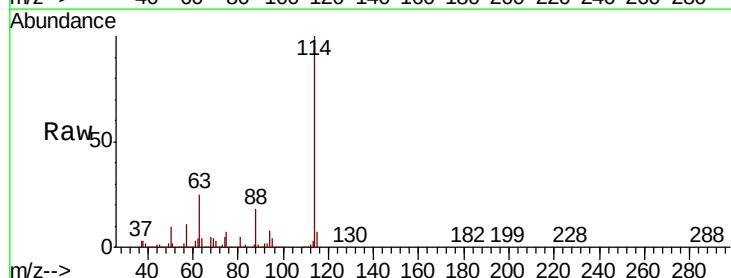
Instrument :
MSVOA_L
ClientSampled :

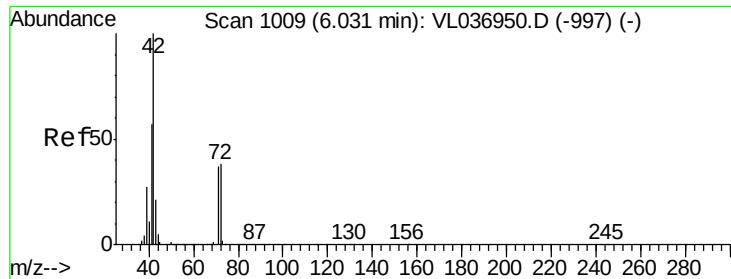
Tot Ion: 78 Resp: 39082
Ion Ratio Lower Upper
78 100
77 14.7 18.6 28.0#
50 17.2 15.0 22.4



#39
1,2-Dichloropropane
Concen: 7.105 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.44 min
Lab File: VL037090.D
Acq: 2 Jun 2021 4:13

Tgt Ion: 63 Resp: 909574
Ion Ratio Lower Upper
63 100
41 0.0 55.7 83.5#
62 16.5 56.2 84.4#

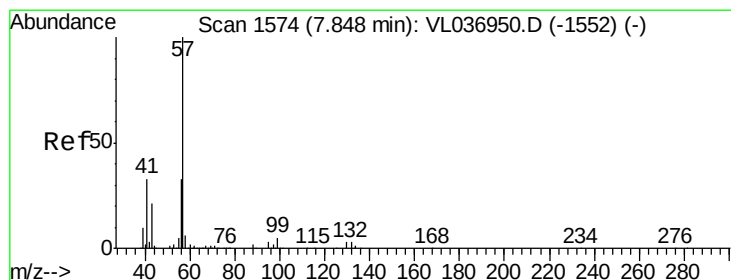
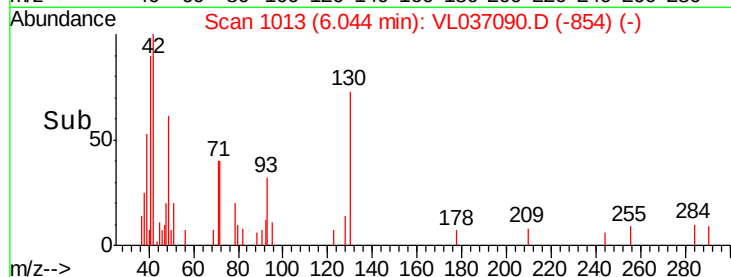
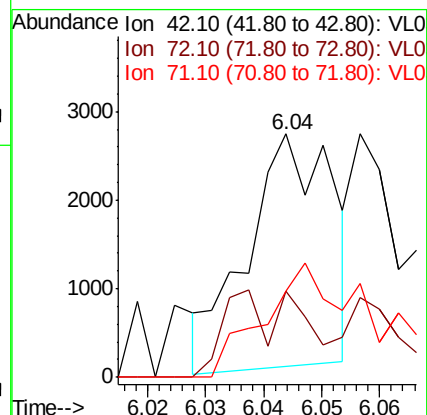
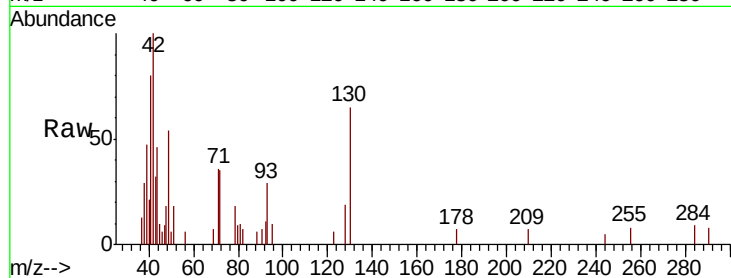




#41
Tetrahydrofuran
Concen: 0.033 ppbv
RT: 6.04 min Scan# 1013
Delta R.T. 0.01 min
Lab File: VL037090.D
Acq: 2 Jun 2021 4:13

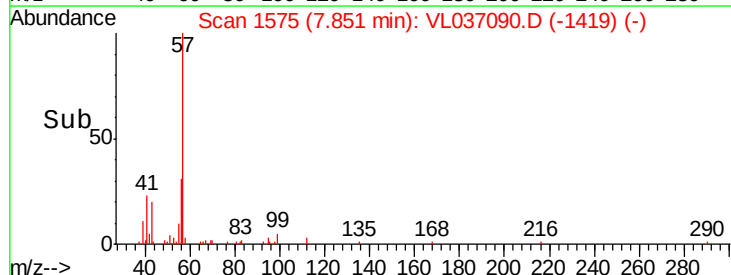
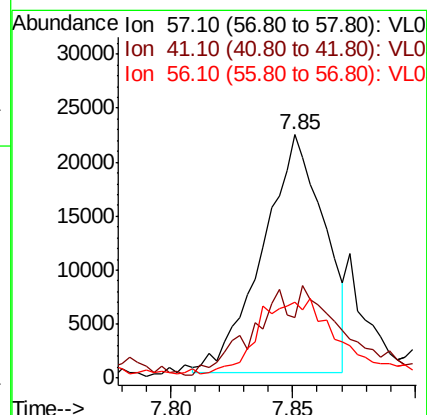
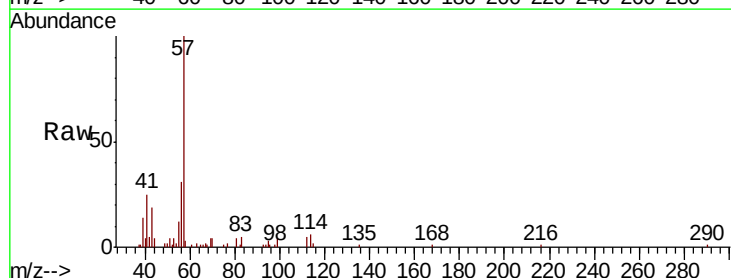
Instrument :
MSVOA_L
ClientSampled :

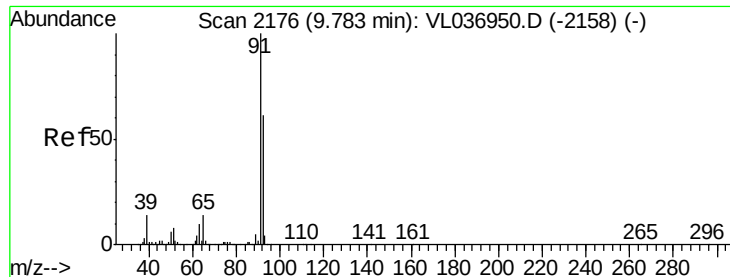
Tot Ion: 42 Resp: 2678
Ion Ratio Lower Upper
42 100
72 74.2 31.4 47.2#
71 69.2 30.4 45.6#



#44
2,2,4-Trimethylpentane
Concen: 0.068 ppbv
RT: 7.85 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VL037090.D
Acq: 2 Jun 2021 4:13

Tgt Ion: 57 Resp: 38767
Ion Ratio Lower Upper
57 100
41 53.4 27.0 40.4#
56 49.4 25.4 38.2#





#53

Toluene

Concen: 0.424 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL037090.D

Acq: 2 Jun 2021 4:13

Instrument :

MSVOA_L

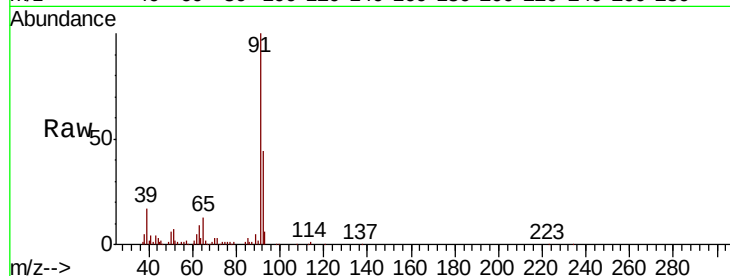
ClientSampleId :

Tot Ion: 91 Resp: 167663

Ion Ratio Lower Upper

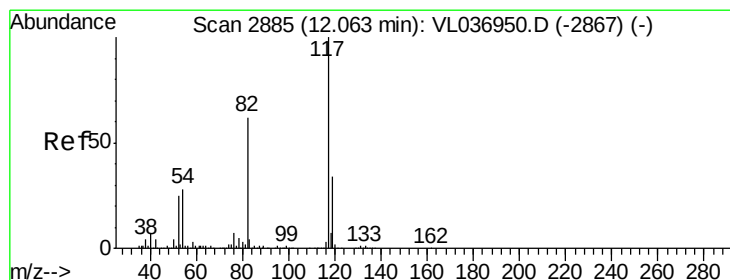
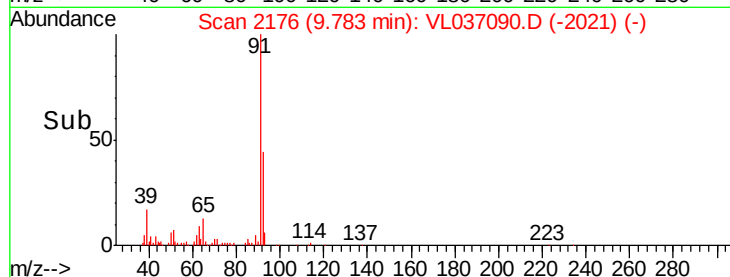
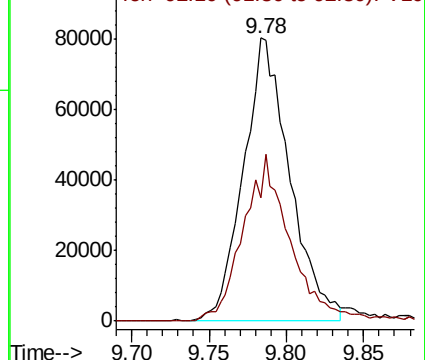
91 100

92 60.4 49.5 74.3



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. 0.00 min

Lab File: VL037090.D

Acq: 2 Jun 2021 4:13

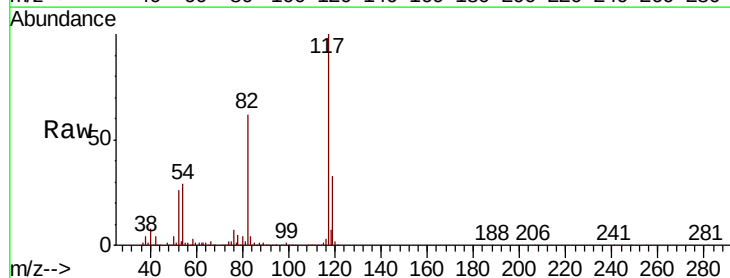
Tgt Ion: 117 Resp: 3494717

Ion Ratio Lower Upper

117 100

82 62.8 52.6 79.0

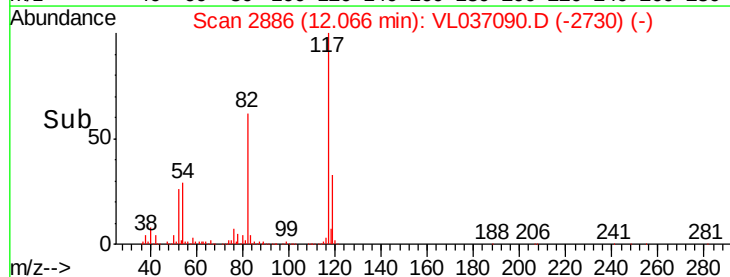
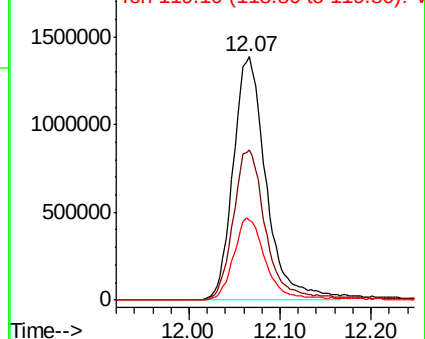
119 33.9 46.6 70.0#

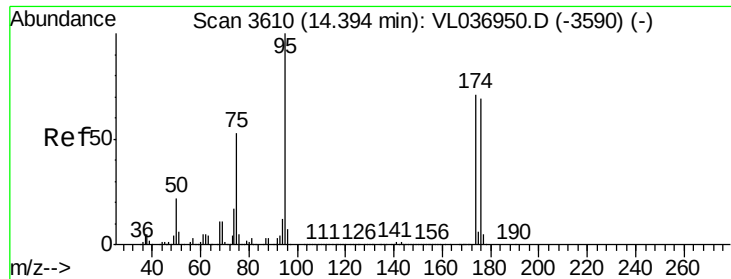


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.645 ppbv

RT: 14.40 min Scan# 3611

Delta R.T. 0.00 min

Lab File: VL037090.D

Acq: 2 Jun 2021 4:13

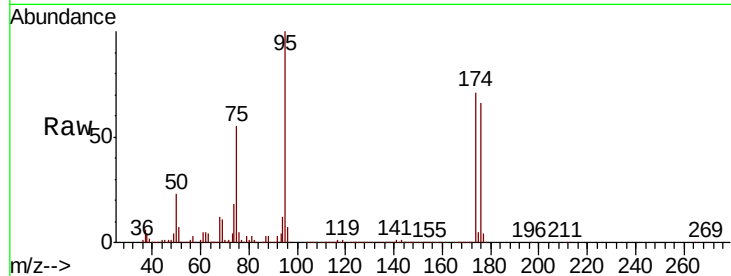
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2532006

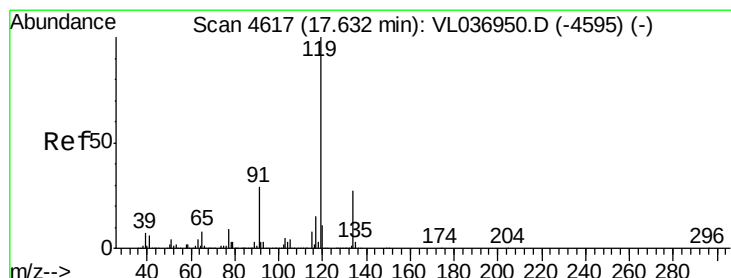
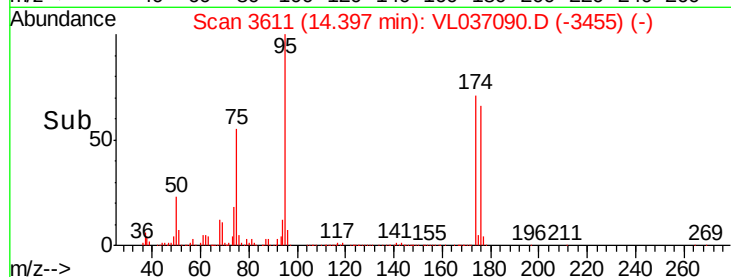
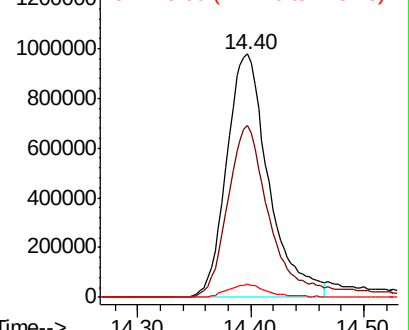
Ion	Ratio	Lower	Upper
95	100		
174	75.5	58.4	87.6
175	5.4	4.4	6.6



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



#69

p-Isopropyltoluene

Concen: 0.109 ppbv

RT: 17.64 min Scan# 4620

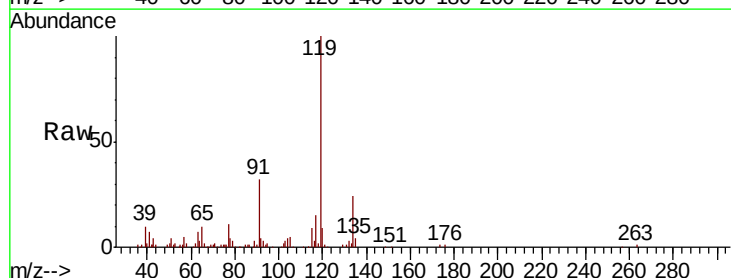
Delta R.T. 0.01 min

Lab File: VL037090.D

Acq: 2 Jun 2021 4:13

Tgt Ion: 119 Resp: 64254

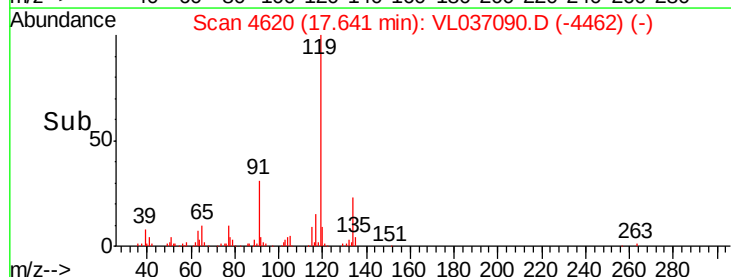
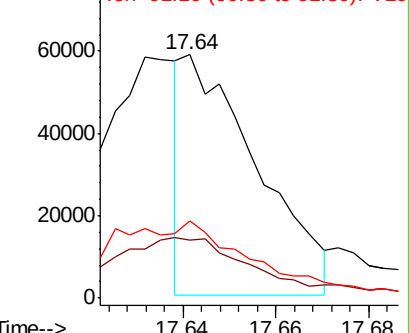
Ion	Ratio	Lower	Upper
119	100		
134	63.0	21.2	31.8#
91	70.3	22.2	33.4#

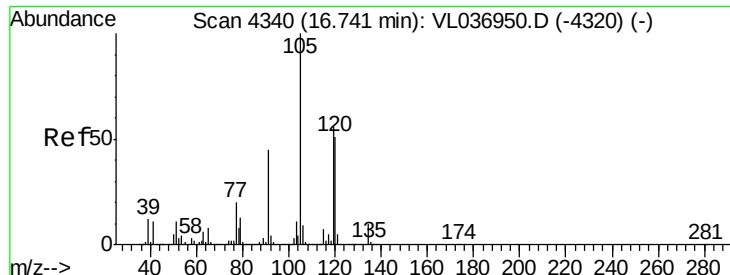


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.036 ppbv
 RT: 16.74 min Scan# 4341
 Delta R.T. 0.00 min
 Lab File: VL037090.D
 Acq: 2 Jun 2021 4:13

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:	105	Resp:	15961
Ion	Ratio	Lower	Upper
105	100		
120	44.0	40.6	61.0
91	13.9	37.4	56.0#
77	9.8	16.2	24.4#

