

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073021\
 Data File : VL037308.D
 Acq On : 31 Jul 2021 7:57
 Operator : SY/AP
 Sample : M3121-05DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 31 09:00:31 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 30 23:19:30 2021
 QLast Update : Fri Jul 30 23:19:30 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1049594	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	3377408	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	3005565	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2109663	9.65	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.50%

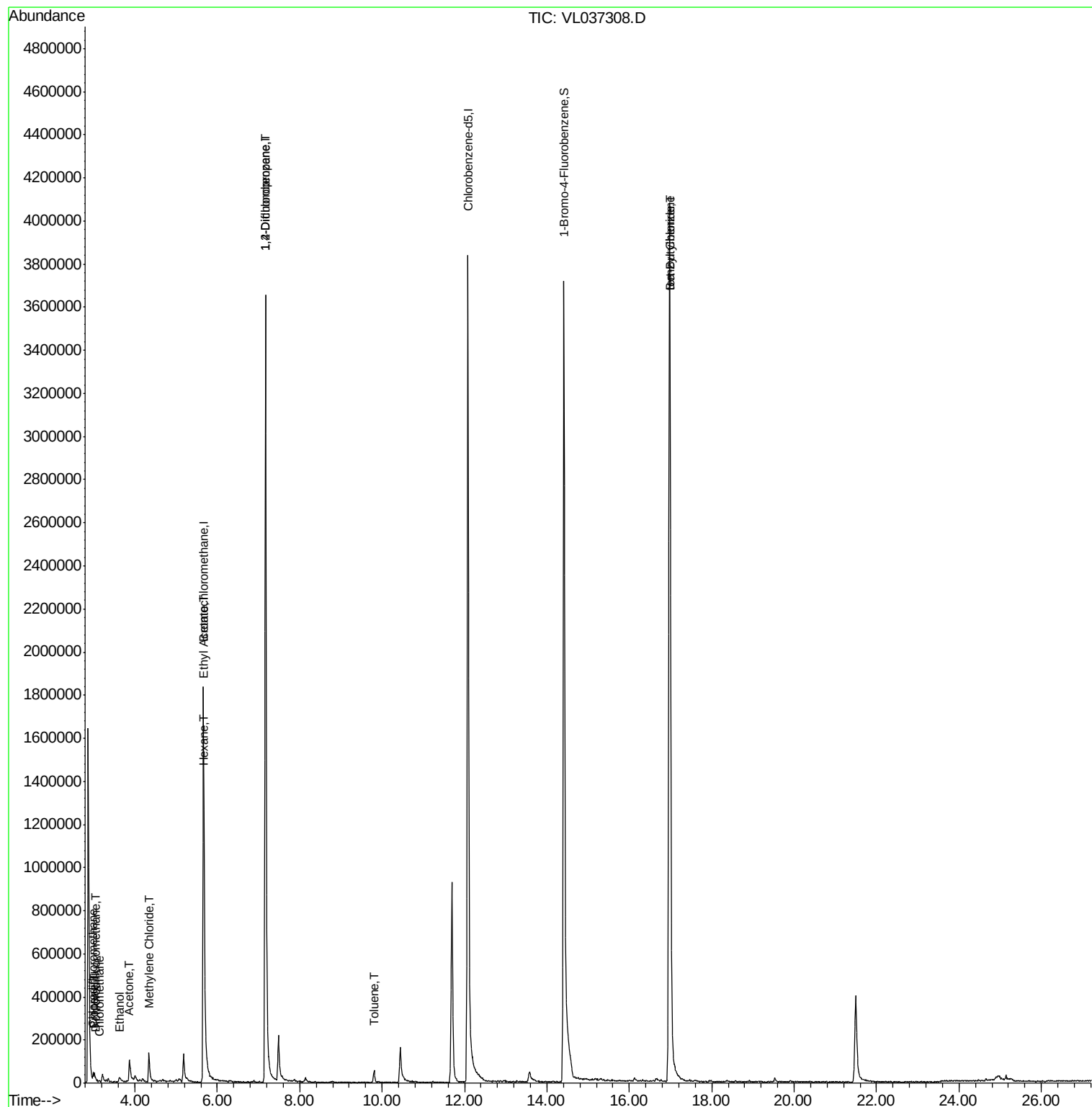
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	6438	0.043	ppbv	88
3) Chlorodifluoromethane	2.98	51	45461	0.216	ppbv	98
4) Chloromethane	3.13	50	2405	0.033	ppbv #	33
9) Propene	3.01	41	3064	0.043	ppbv #	16
13) Ethanol	3.61	45	6439	0.414	ppbv #	35
15) Acetone	3.86	43	131167	0.694	ppbv #	55
20) Methylene Chloride	4.34	84	52521	0.718	ppbv	89
25) Ethyl Acetate	5.68	43	23636	0.086	ppbv #	79
26) Hexane	5.69	57	18982	0.129	ppbv #	42
39) 1,2-Dichloropropane	7.17	63	743714	6.916	ppbv #	25
53) Toluene	9.79	91	15422	0.046	ppbv #	1
65) tert-Butylbenzene	16.98	119	91306	0.205	ppbv #	30
66) Benzyl Chloride	16.97	91	1453	0.067	ppbv #	1

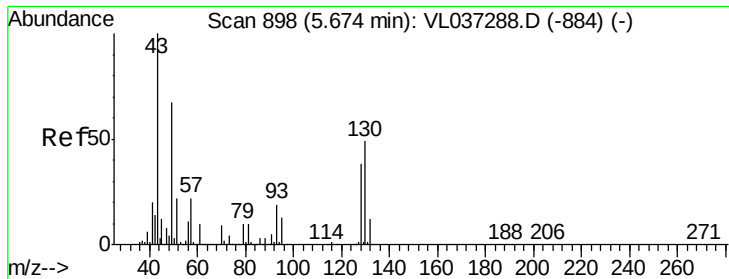
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Jul 31 09:00:31 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 30 23:19:30 2021
QLast Update : Fri Jul 30 23:19:30 2021
Response via : Initial Calibration

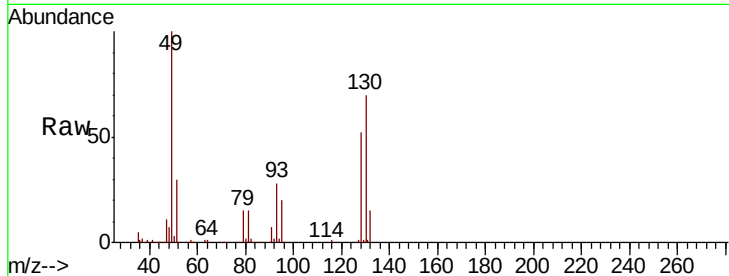




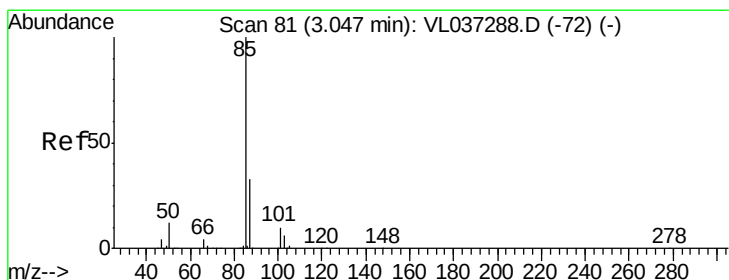
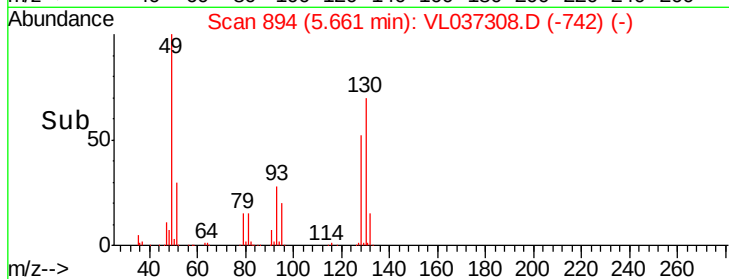
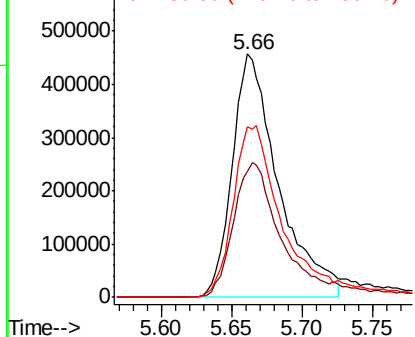
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 894
 Delta R.T. -0.01 min
 Lab File: VL037308.D
 Acq: 31 Jul 2021 7:57

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 49 Resp: 1049594
 Ion Ratio Lower Upper
 49 100
 128 62.2 30.6 92.0
 130 80.6 37.8 113.4

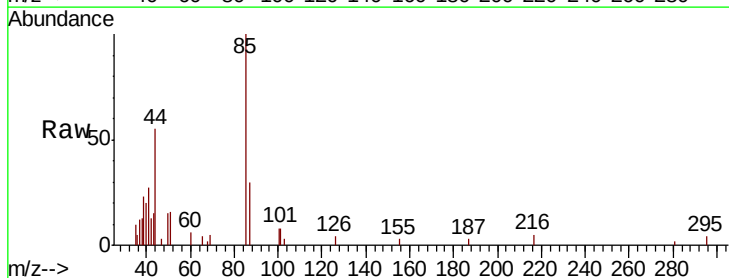


Abundance Ion 49.10 (48.80 to 49.80): VL0
 Ion 128.00 (127.70 to 128.70): V
 Ion 130.00 (129.70 to 130.70): V

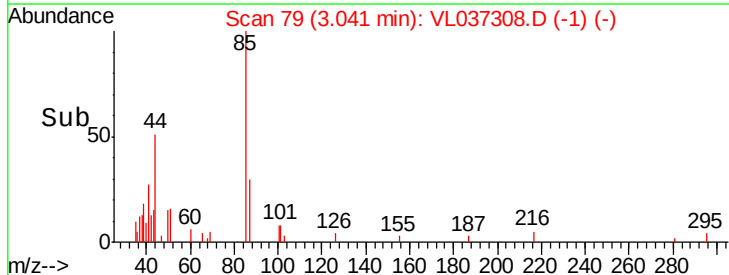
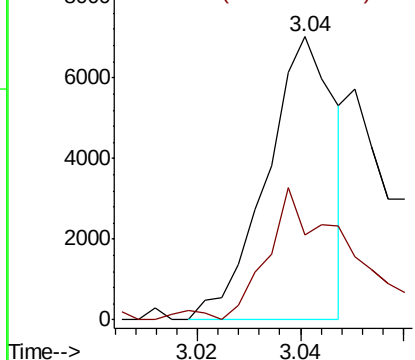


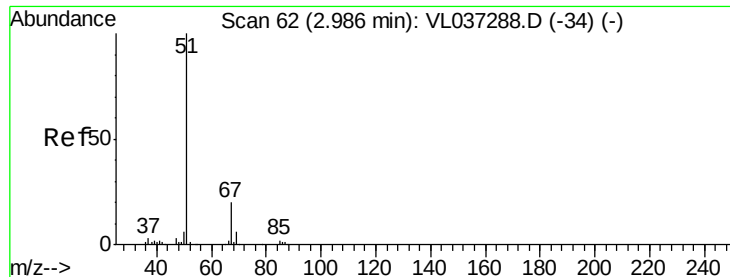
#2
 Dichlorodifluoromethane
 Concen: 0.043 ppbv
 RT: 3.04 min Scan# 79
 Delta R.T. -0.01 min
 Lab File: VL037308.D
 Acq: 31 Jul 2021 7:57

Tgt Ion: 85 Resp: 6438
 Ion Ratio Lower Upper
 85 100
 87 26.7 26.6 40.0



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





#3

Chlorodifluoromethane

Concen: 0.216 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL037308.D

Acq: 31 Jul 2021 7:57

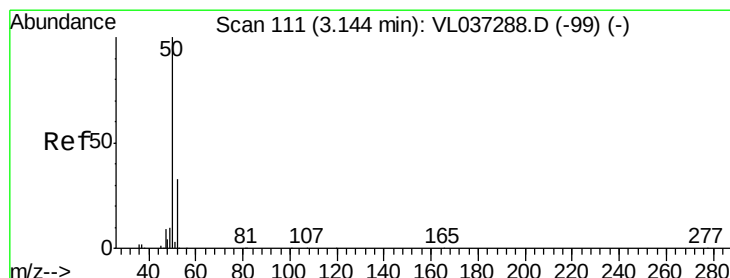
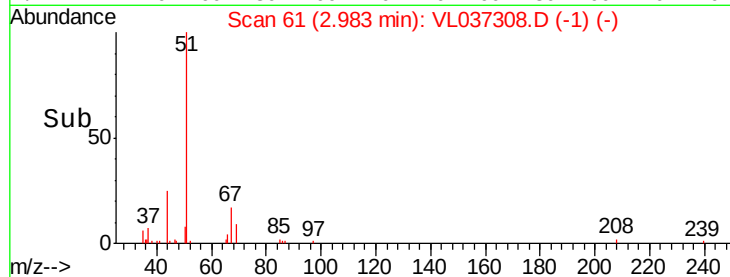
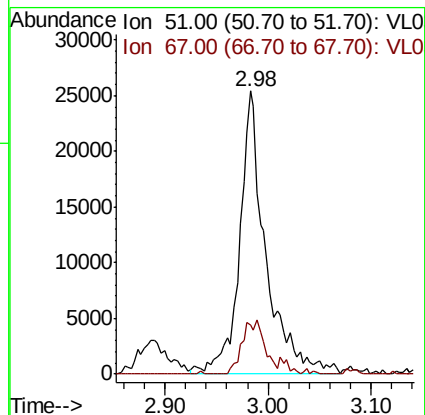
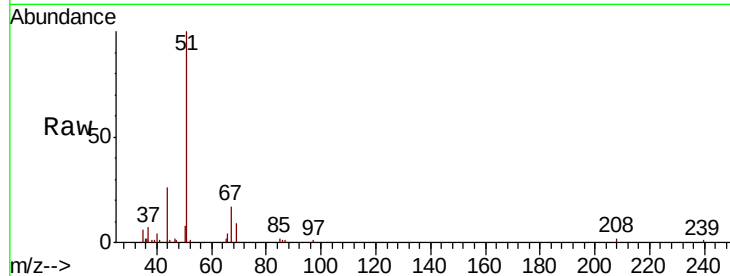
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 51 Resp: 45461

Ion Ratio Lower Upper

51 100

67 18.1 15.2 22.8



#4

Chloromethane

Concen: 0.033 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037308.D

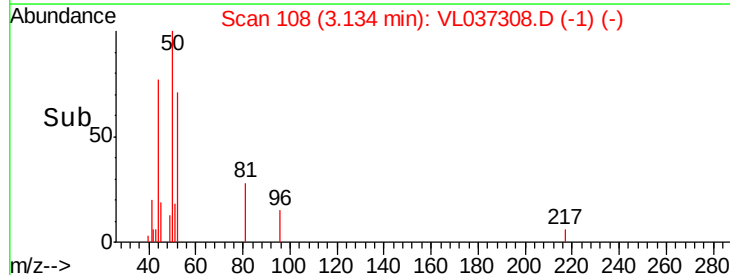
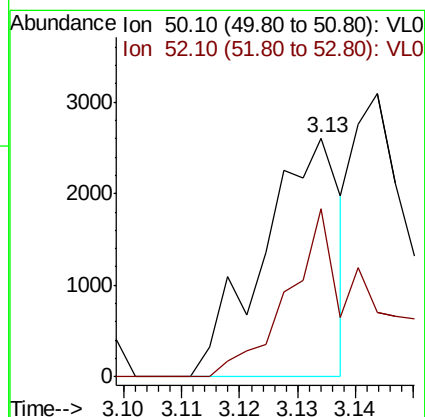
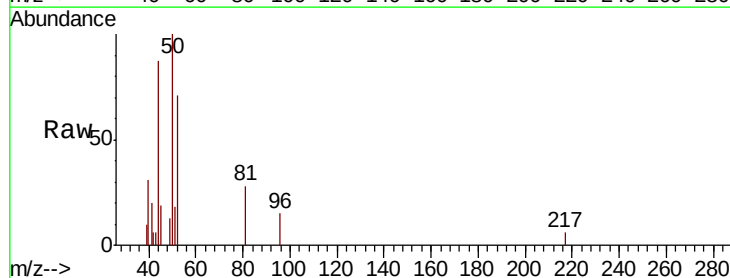
Acq: 31 Jul 2021 7:57

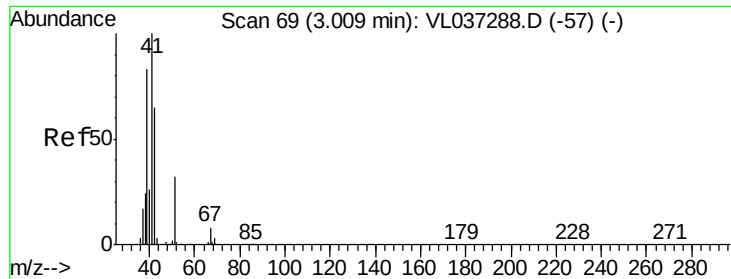
Tgt Ion: 50 Resp: 2405

Ion Ratio Lower Upper

50 100

52 70.6 26.2 39.4#





#9

Propene

Concen: 0.043 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL037308.D

Acq: 31 Jul 2021 7:57

Instrument :

MSVOA_L

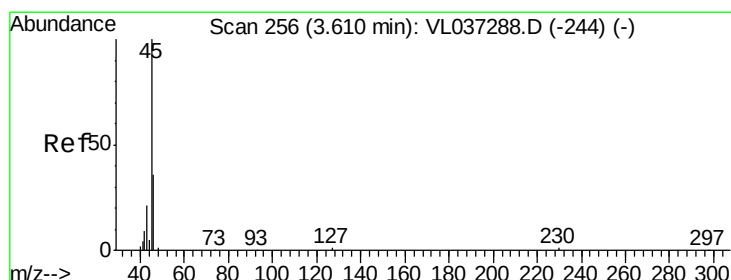
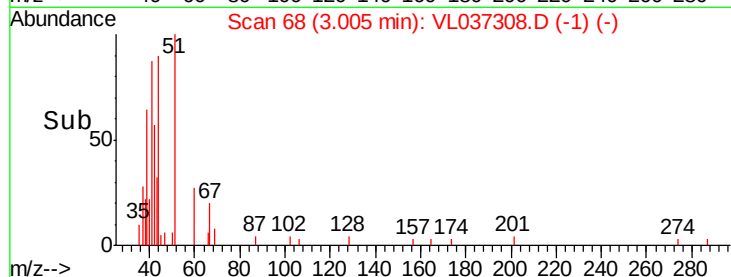
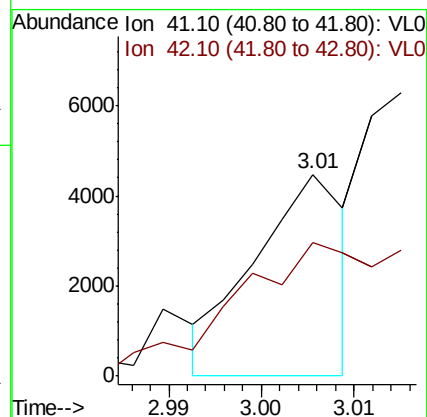
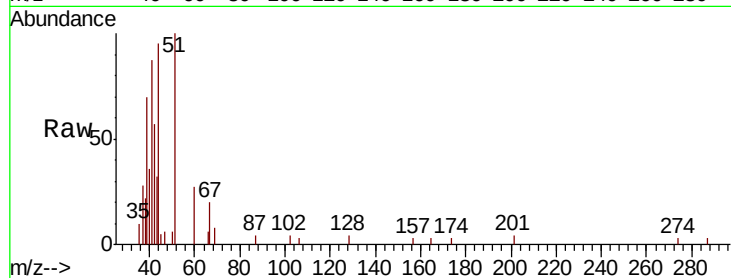
ClientSampleId :

Tot Ion: 41 Resp: 3064

Ion Ratio Lower Upper

41 100

42 0.0 54.0 81.0#



#13

Ethanol

Concen: 0.414 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.00 min

Lab File: VL037308.D

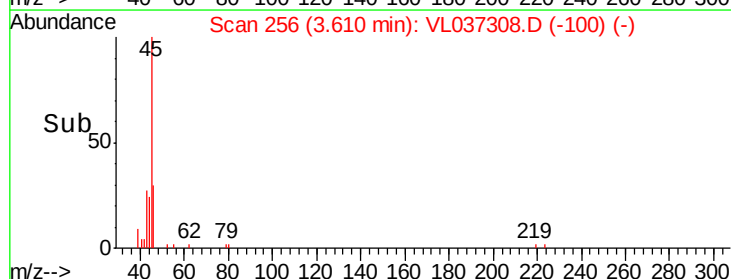
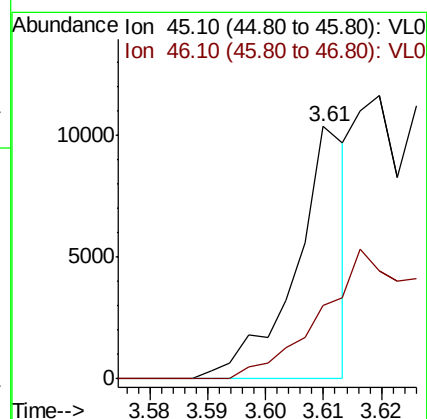
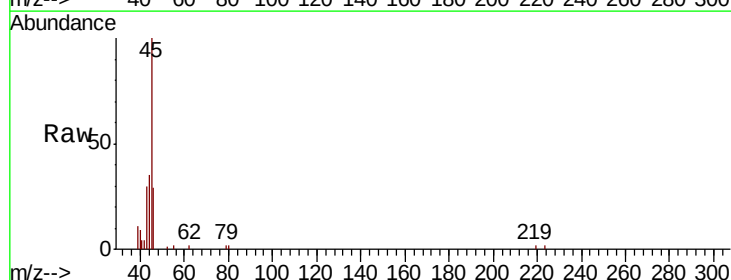
Acq: 31 Jul 2021 7:57

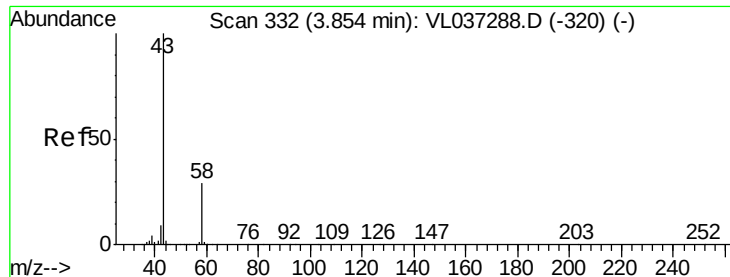
Tgt Ion: 45 Resp: 6439

Ion Ratio Lower Upper

45 100

46 0.0 16.2 64.8#





#15

Acetone

Concen: 0.694 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.01 min

Lab File: VL037308.D

Acq: 31 Jul 2021 7:57

Instrument :

MSVOA_L

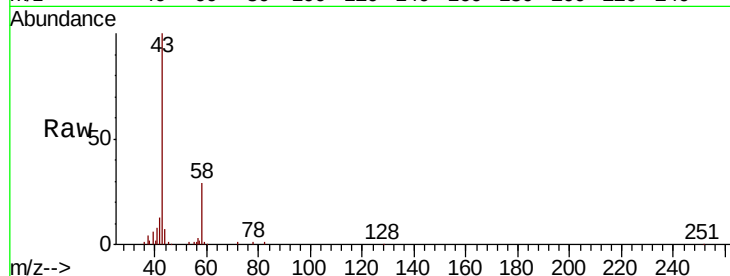
ClientSampleId :

Tot Ion: 43 Resp: 131167

Ion Ratio Lower Upper

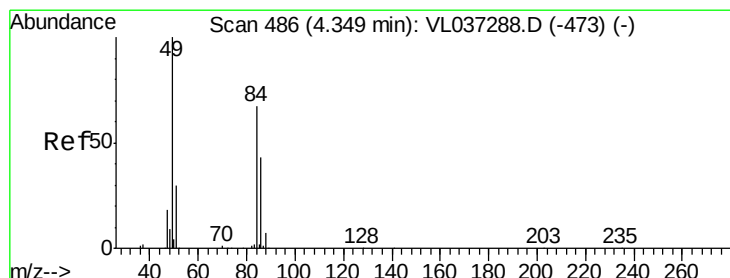
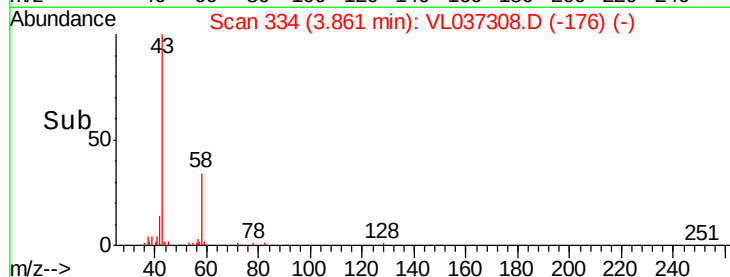
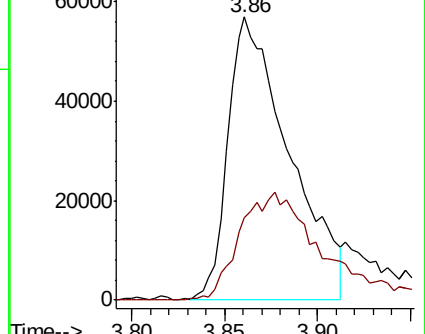
43 100

58 54.7 24.2 36.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.718 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL037308.D

Acq: 31 Jul 2021 7:57

Tgt Ion: 84 Resp: 52521

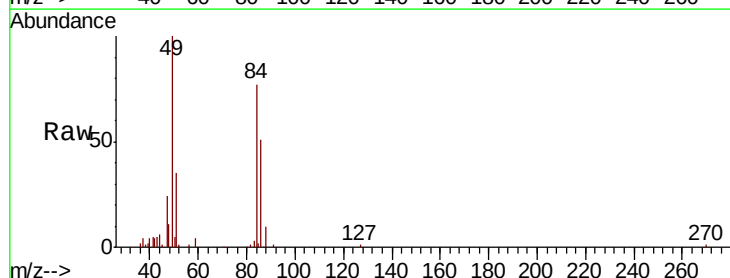
Ion Ratio Lower Upper

84 100

49 128.8 120.2 180.4

51 45.2 36.5 54.7

86 66.7 51.3 76.9

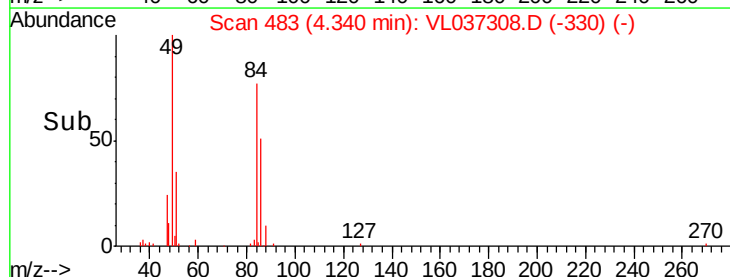
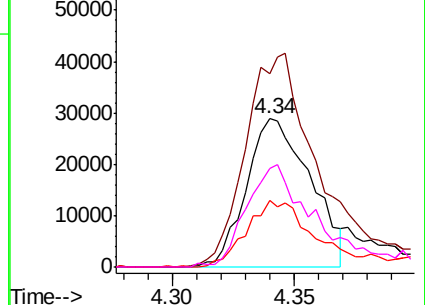


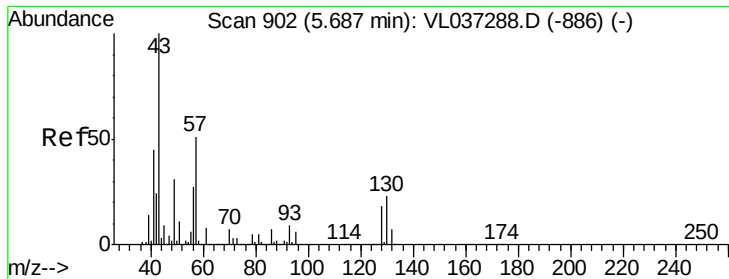
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

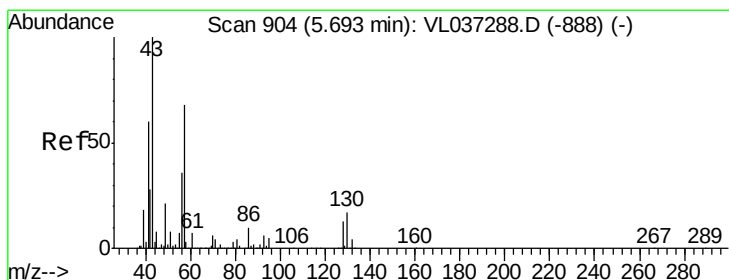
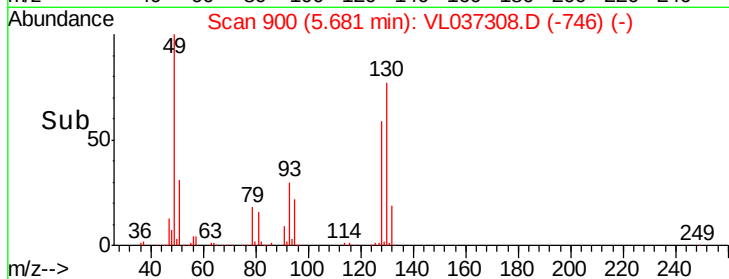
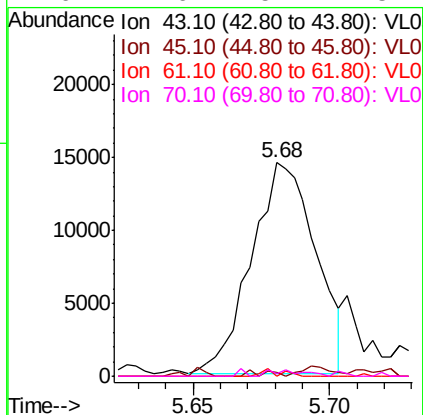
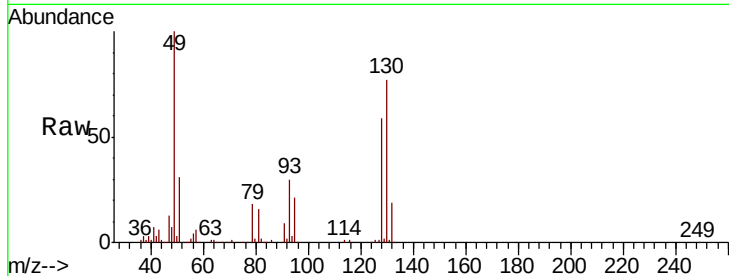




#25
Ethyl Acetate
Concen: 0.086 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL037308.D
Acq: 31 Jul 2021 7:57

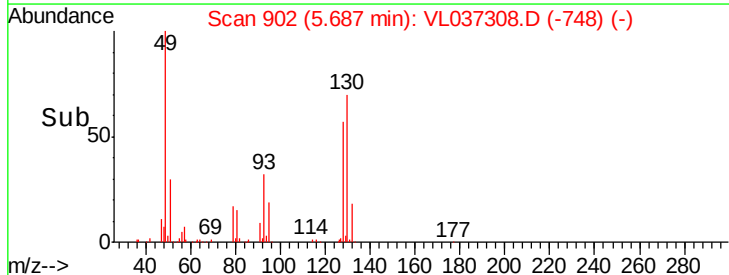
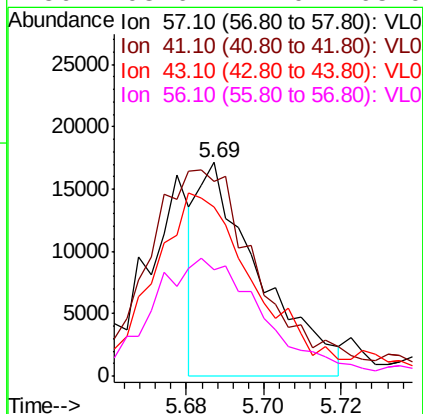
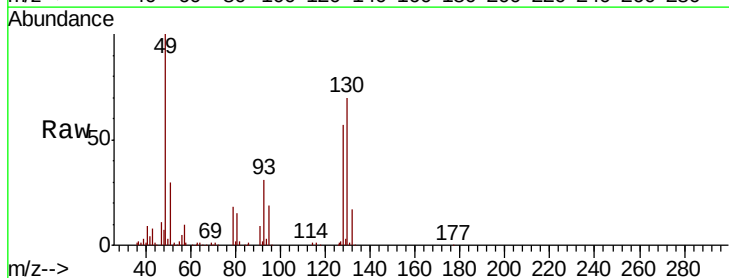
Instrument :
MSVOA_L
ClientSampleId :

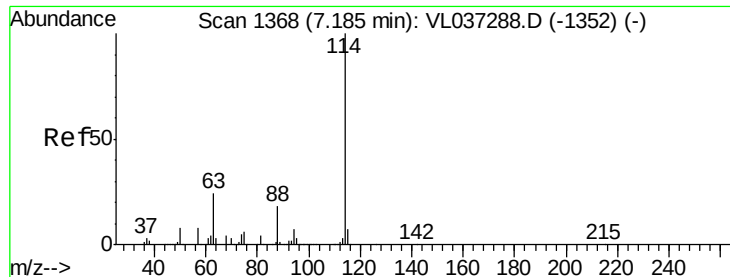
Tot Ion:	43	Resp:	23636
Ion	Ratio	Lower	Upper
43	100		
45	0.4	7.4	11.2#
61	1.0	7.8	11.6#
70	2.6	5.4	8.2#



#26
Hexane
Concen: 0.129 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL037308.D
Acq: 31 Jul 2021 7:57

Tgt Ion:	57	Resp:	18982
Ion	Ratio	Lower	Upper
57	100		
41	196.2	71.0	106.6#
43	153.0	155.0	232.4#
56	103.6	42.0	63.0#

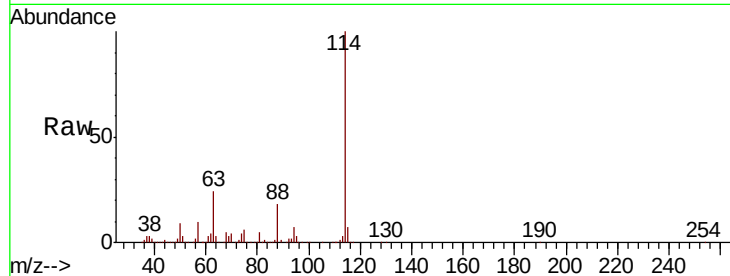




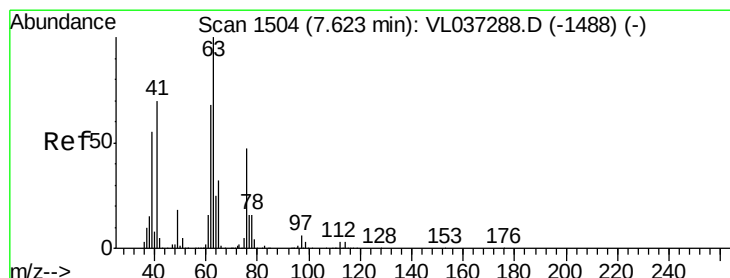
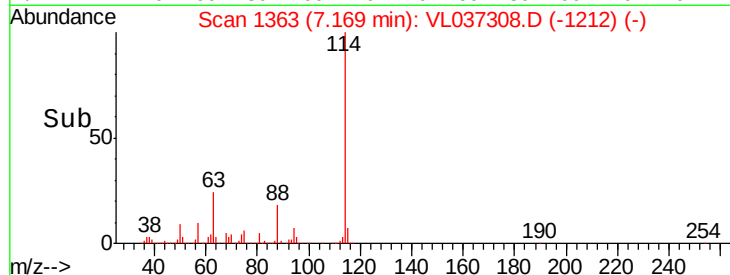
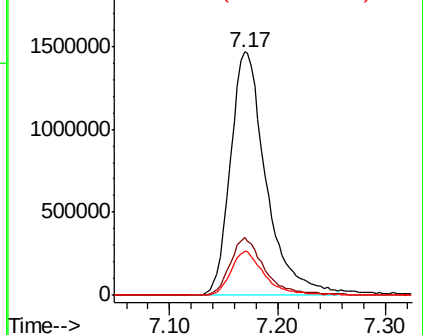
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.02 min
 Lab File: VL037308.D
 Acq: 31 Jul 2021 7:57

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3377408
 Ion Ratio Lower Upper
 114 100
 63 23.1 19.0 28.4
 88 17.4 14.0 21.0

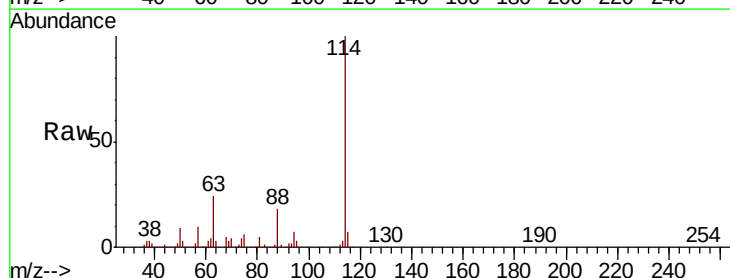


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

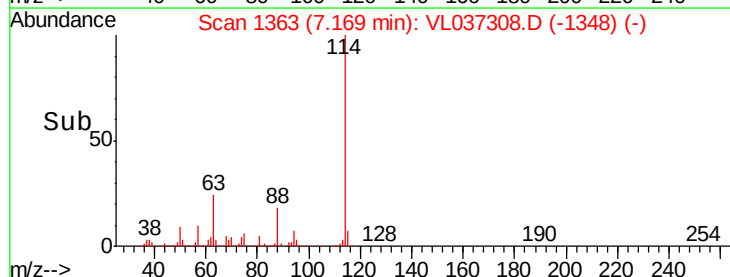
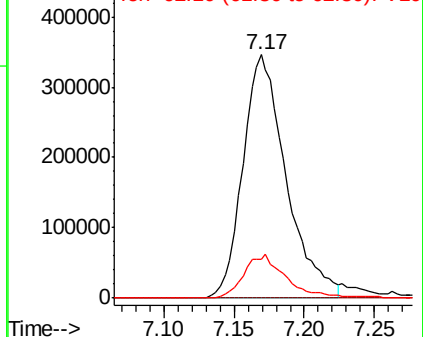


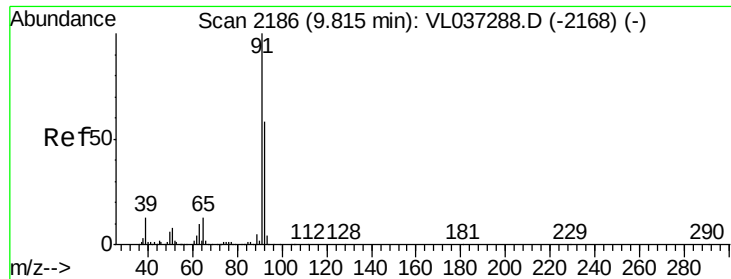
#39
 1,2-Dichloropropane
 Concen: 6.916 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.45 min
 Lab File: VL037308.D
 Acq: 31 Jul 2021 7:57

Tgt Ion: 63 Resp: 743714
 Ion Ratio Lower Upper
 63 100
 41 0.0 56.4 84.6#
 62 16.1 54.6 82.0#



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





#53

Toluene

Concen: 0.046 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.02 min

Lab File: VL037308.D

Acq: 31 Jul 2021 7:57

Instrument :

MSVOA_L

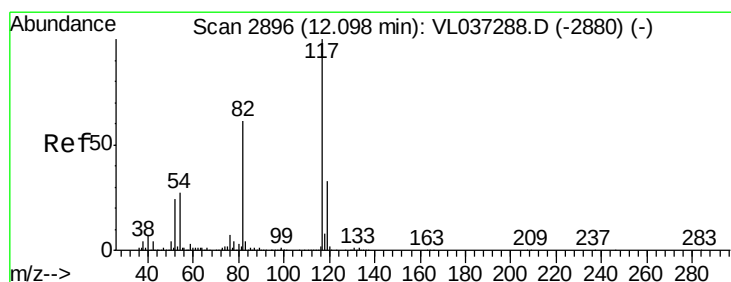
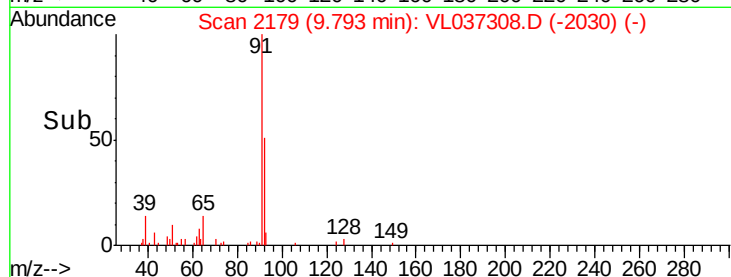
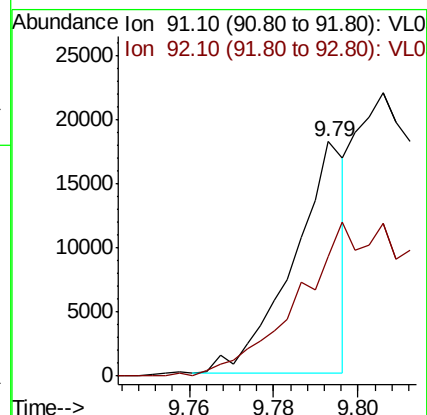
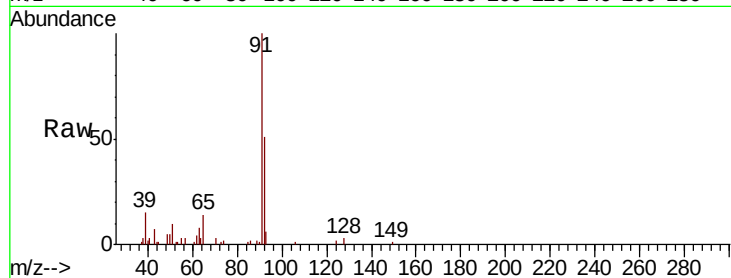
ClientSampled :

Tot Ion: 91 Resp: 15422

Ion Ratio Lower Upper

91 100

92 182.1 48.2 72.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.02 min

Lab File: VL037308.D

Acq: 31 Jul 2021 7:57

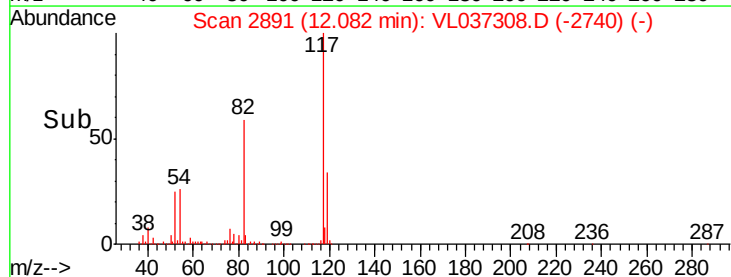
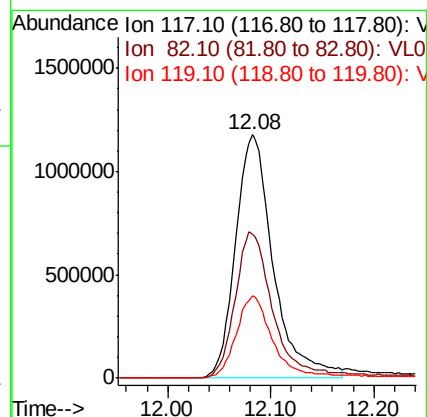
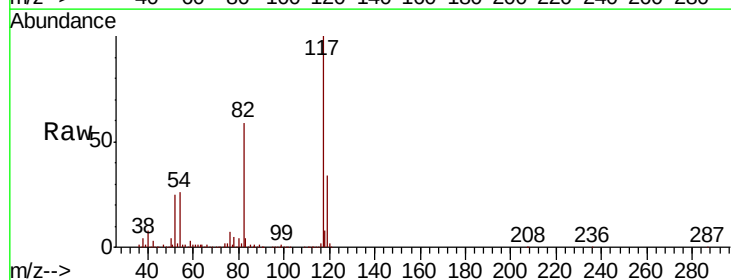
Tgt Ion: 117 Resp: 3005565

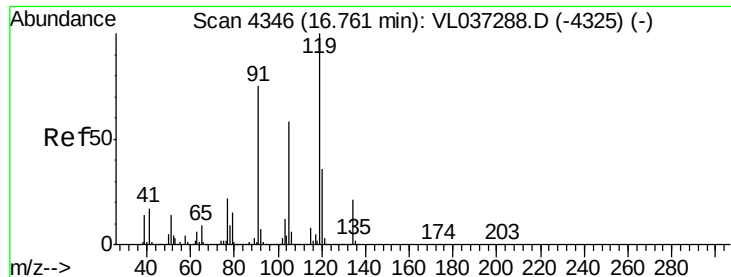
Ion Ratio Lower Upper

117 100

82 64.0 47.2 70.8

119 34.0 45.8 68.8#

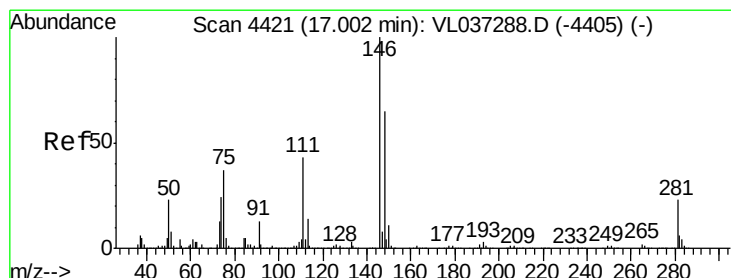
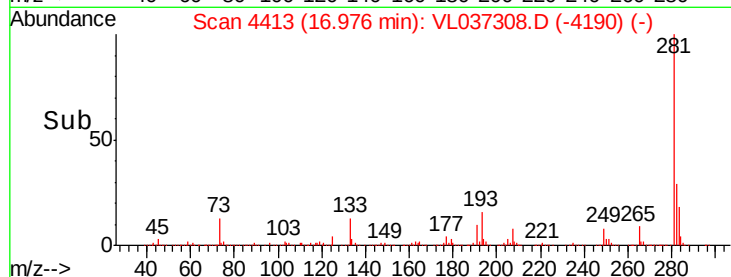
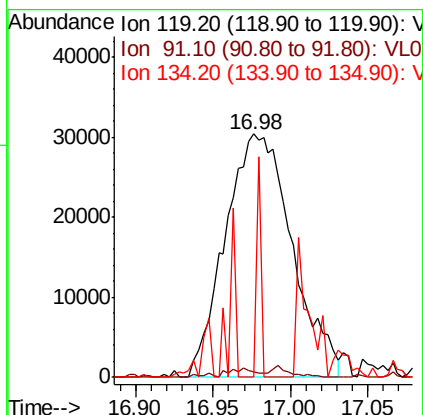
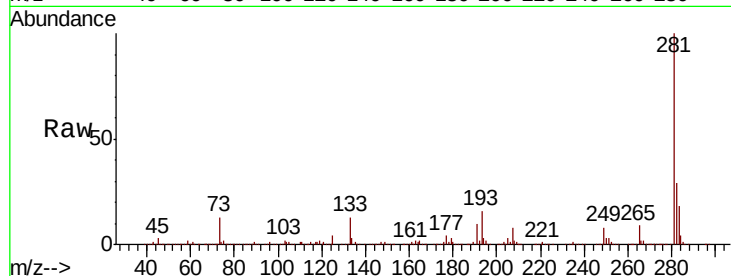




#65
tert-Butylbenzene
Concen: 0.205 ppbv
RT: 16.98 min Scan# 4413
Delta R.T. 0.22 min
Lab File: VL037308.D
Acq: 31 Jul 2021 7:57

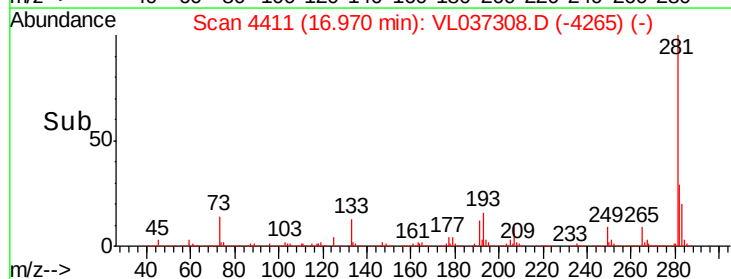
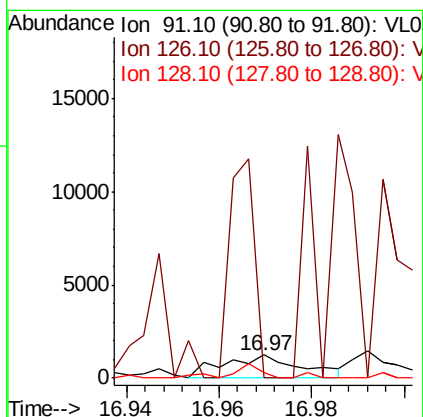
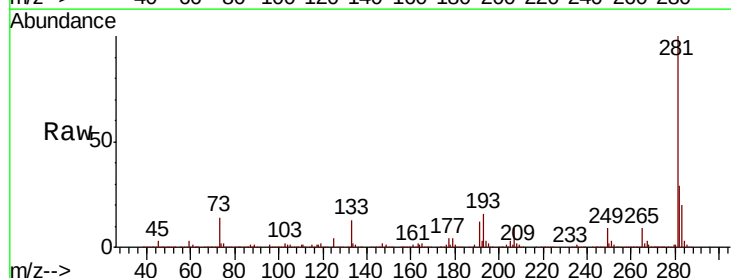
Instrument :
MSVOA_L
ClientSampleId :

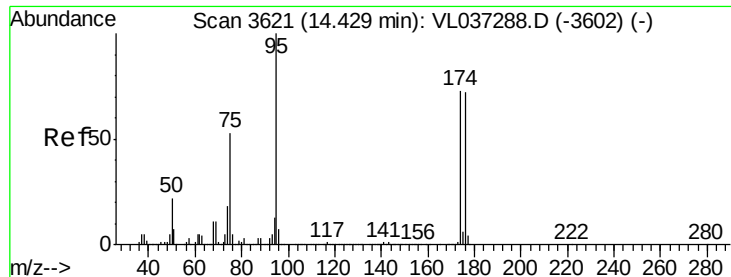
Tot Ion	Ratio	Lower	Upper
119	100		
91	1.8	60.5	90.7#
134	15.8	16.2	24.4#



#66
Benzyl Chloride
Concen: 0.067 ppbv
RT: 16.97 min Scan# 4411
Delta R.T. -0.03 min
Lab File: VL037308.D
Acq: 31 Jul 2021 7:57

Tgt Ion	Ratio	Lower	Upper
91	100		
126	656.4	15.4	23.0#
128	29.9	5.0	7.4#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.648 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. -0.02 min

Lab File: VL037308.D

Acq: 31 Jul 2021 7:57

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2109663

Ion Ratio Lower Upper

95 100

174 80.4 59.8 89.6

175 6.0 4.5 6.7

