

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052421\
 Data File : VL037050.D
 Acq On : 24 May 2021 16:11
 Operator : SY/AP
 Sample : M2262-14 0.03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 25 01:50:16 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	1163632	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3453454	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3001852	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2173076	9.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.40%

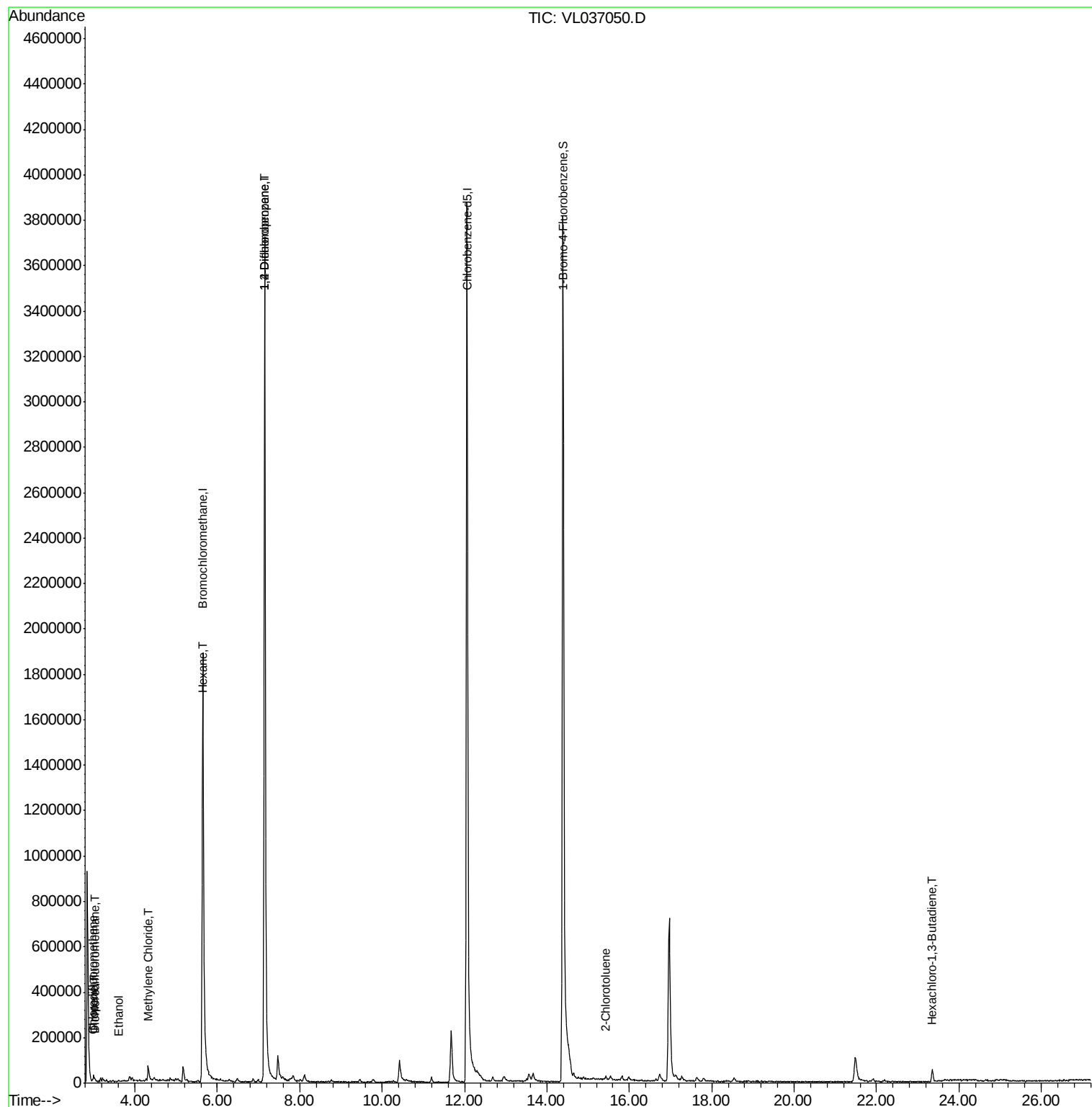
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	9247	0.047	ppbv	90
3) Chlorodifluoromethane	2.97	51	8684	0.041	ppbv	93
9) Propene	2.99	41	5500	0.072	ppbv #	53
13) Ethanol	3.60	45	508	0.050	ppbv #	35
20) Methylene Chloride	4.33	84	21630	0.339	ppbv	97
26) Hexane	5.66	57	6349	0.043	ppbv #	12
39) 1,2-Dichloropropane	7.15	63	814993	7.112	ppbv #	27
71) 2-Chlorotoluene	15.43	91	11081	0.032	ppbv	87
78) Hexachloro-1,3-Butadiene	23.35	225	6114	0.032	ppbv #	16

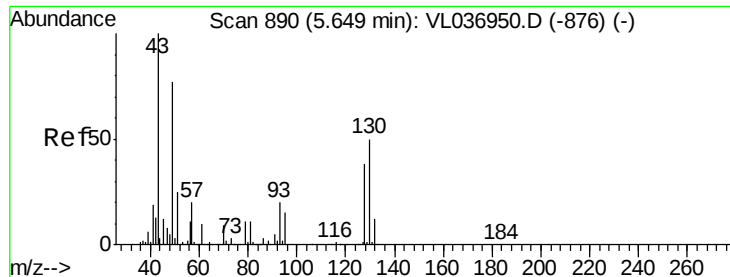
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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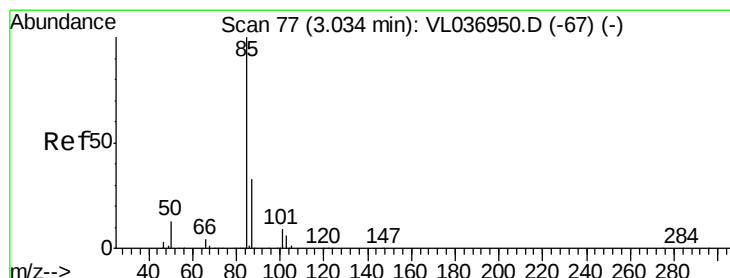
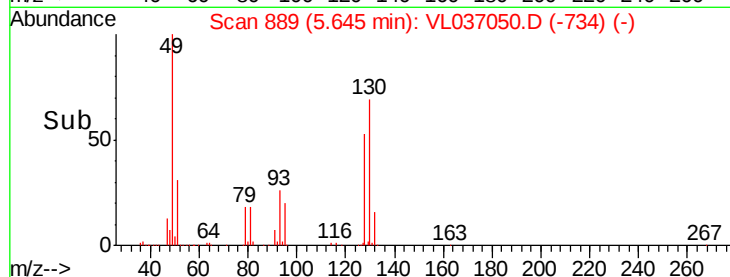
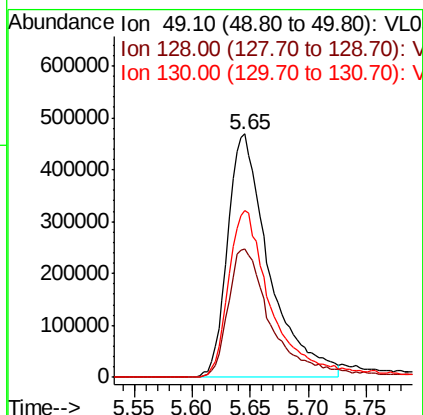
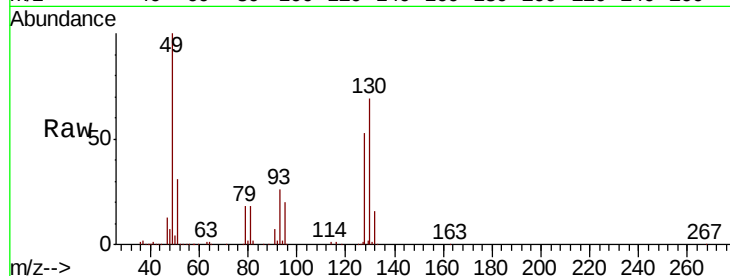




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 889
Delta R.T. -0.00 min
Lab File: VL037050.D
Acq: 24 May 2021 16:11

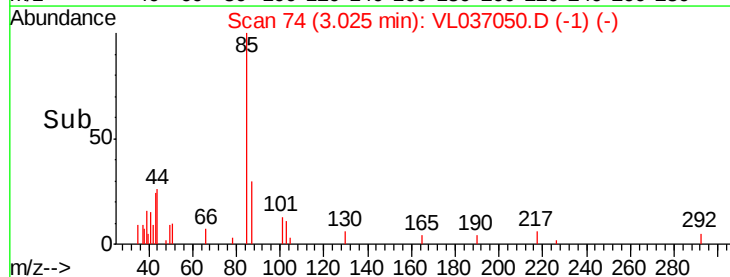
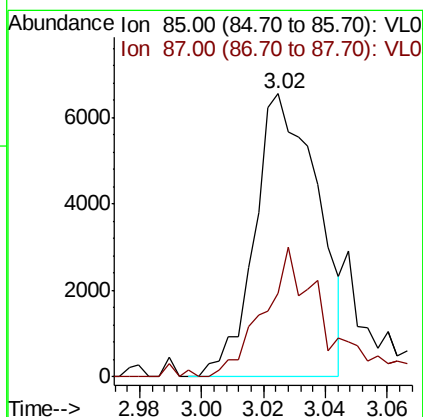
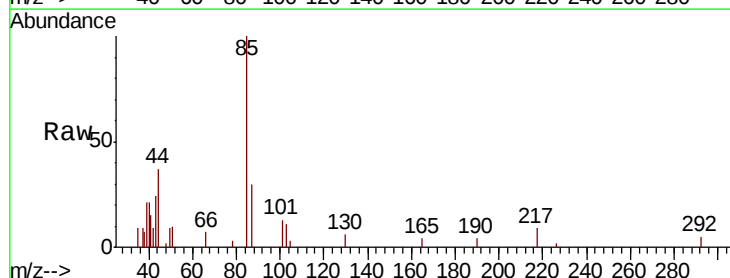
Instrument :
MSVOA_L
ClientSampleId :

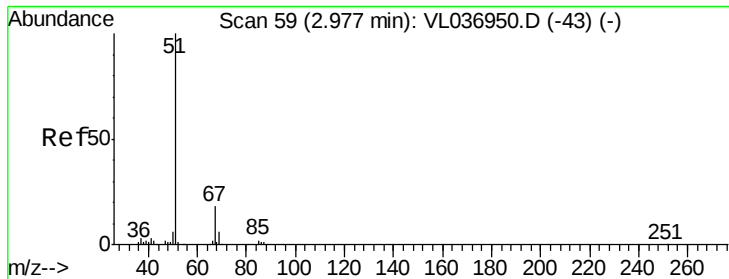
Tot Ion: 49 Resp: 1163632
Ion Ratio Lower Upper
49 100
128 57.9 26.9 80.7
130 73.2 33.8 101.4



#2
Dichlorodifluoromethane
Concen: 0.047 ppbv
RT: 3.02 min Scan# 74
Delta R.T. -0.01 min
Lab File: VL037050.D
Acq: 24 May 2021 16:11

Tgt Ion: 85 Resp: 9247
Ion Ratio Lower Upper
85 100
87 27.3 26.6 39.8





#3

Chlorodifluoromethane

Concen: 0.041 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.01 min

Lab File: VL037050.D

Acq: 24 May 2021 16:11

Instrument :

MSVOA_L

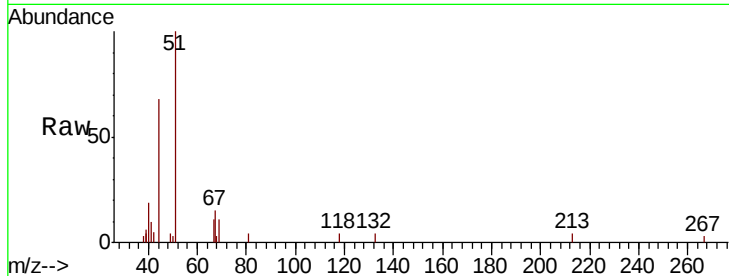
ClientSampleId :

Tot Ion: 51 Resp: 8684

Ion Ratio Lower Upper

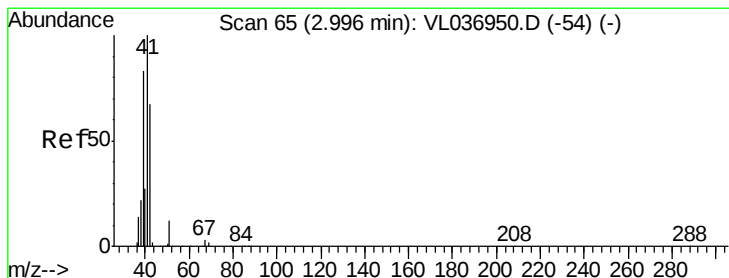
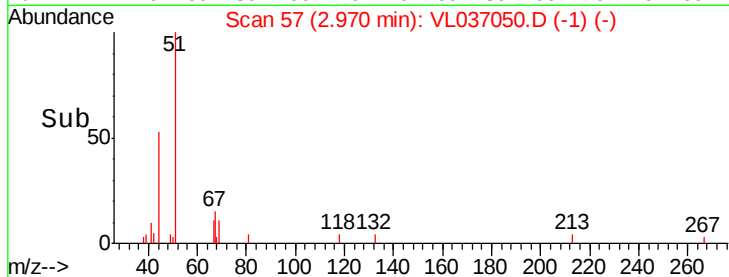
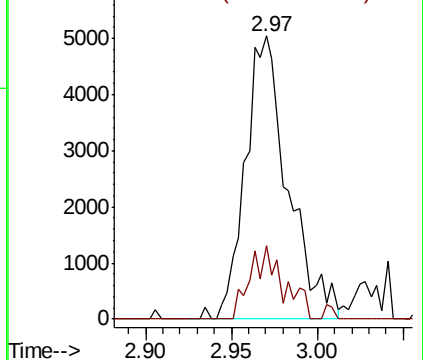
51 100

67 21.3 14.6 21.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.072 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL037050.D

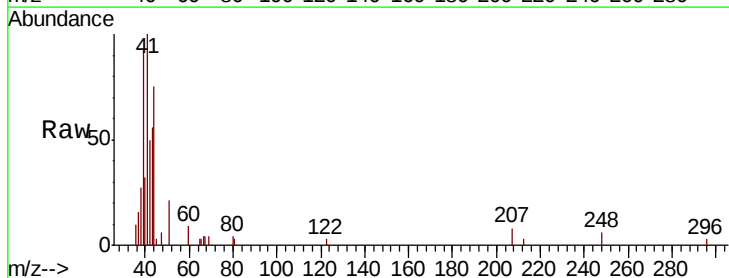
Acq: 24 May 2021 16:11

Tgt Ion: 41 Resp: 5500

Ion Ratio Lower Upper

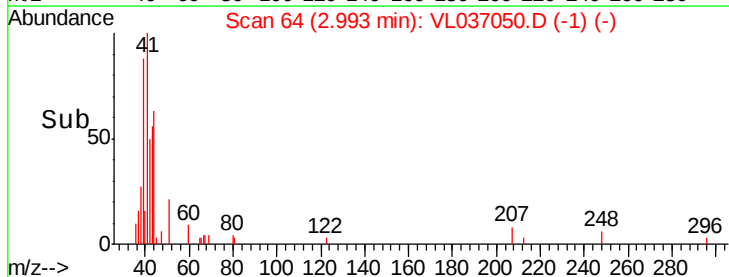
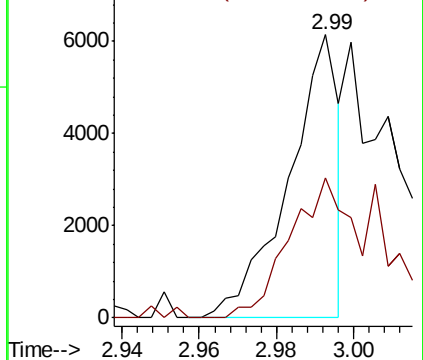
41 100

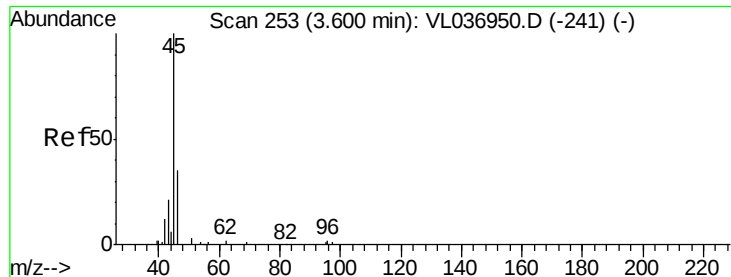
42 105.4 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

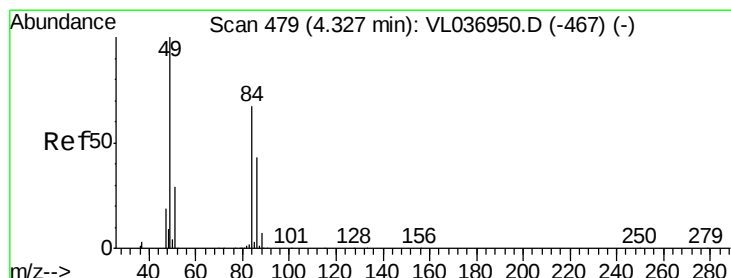
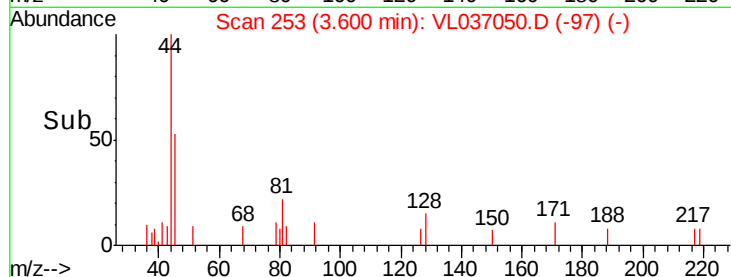
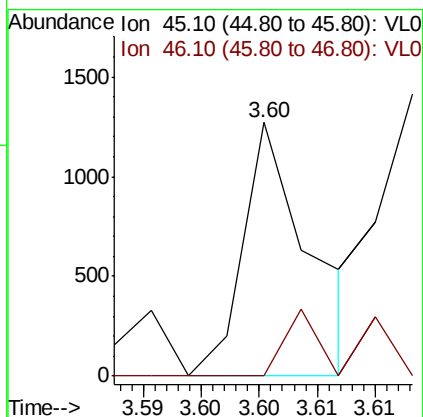
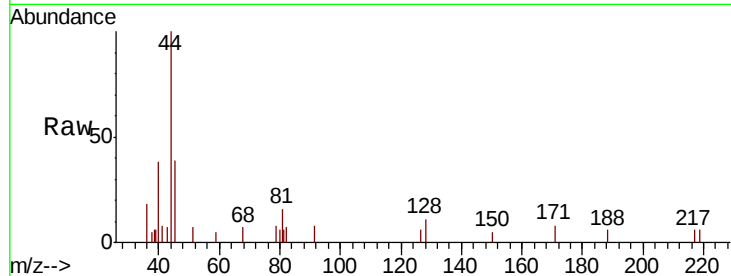




#13
Ethanol
Concen: 0.050 ppbv
RT: 3.60 min Scan# 253
Delta R.T. 0.00 min
Lab File: VL037050.D
Acq: 24 May 2021 16:11

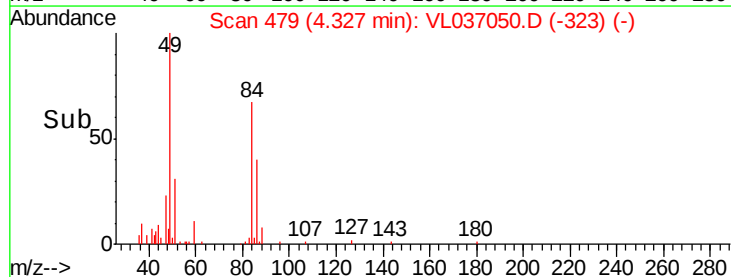
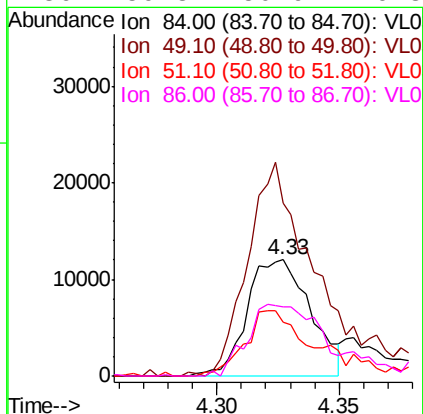
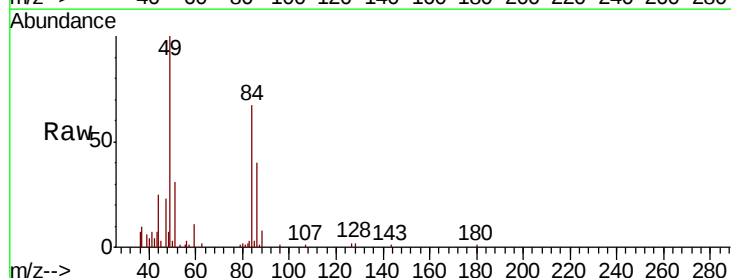
Instrument :
MSVOA_L
ClientSampleId :

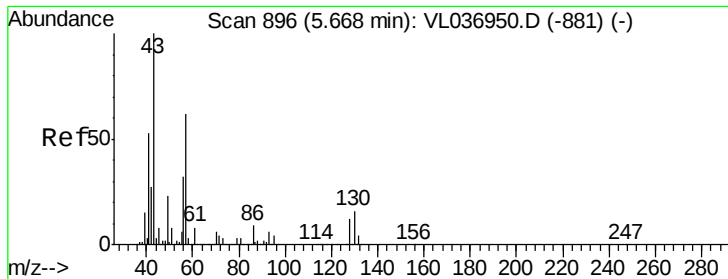
Tot Ion: 45 Resp: 508
Ion Ratio Lower Upper
45 100
46 0.0 16.3 65.3#



#20
Methylene Chloride
Concen: 0.339 ppbv
RT: 4.33 min Scan# 479
Delta R.T. 0.00 min
Lab File: VL037050.D
Acq: 24 May 2021 16:11

Tgt Ion: 84 Resp: 21630
Ion Ratio Lower Upper
84 100
49 146.1 119.8 179.6
51 45.9 35.1 52.7
86 59.8 50.9 76.3





#26

Hexane

Concen: 0.043 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

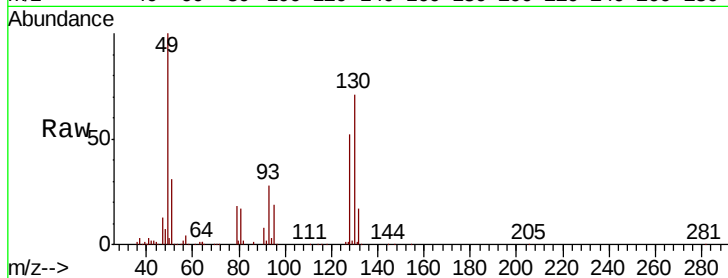
Lab File: VL037050.D

Acq: 24 May 2021 16:11

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 57 Resp: 6349

Ion	Ratio	Lower	Upper
57	100		
41	253.7	70.5	105.7#
43	289.7	165.8	248.8#
56	0.0	42.2	63.4#

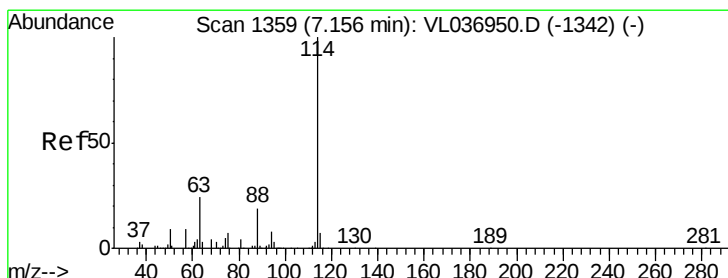
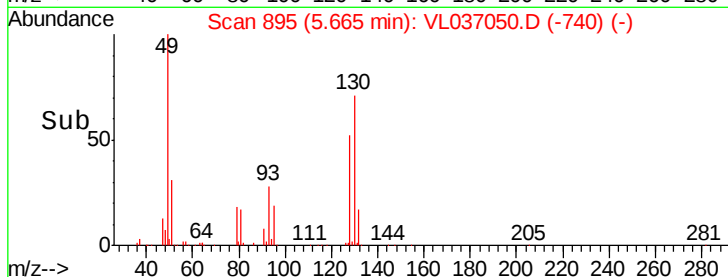


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 7.15 min Scan# 1356

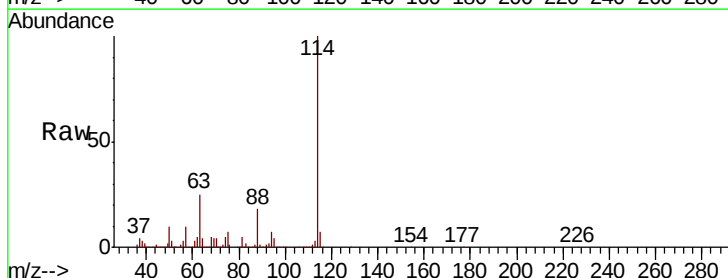
Delta R.T. -0.01 min

Lab File: VL037050.D

Acq: 24 May 2021 16:11

Tgt Ion:114 Resp: 3453454

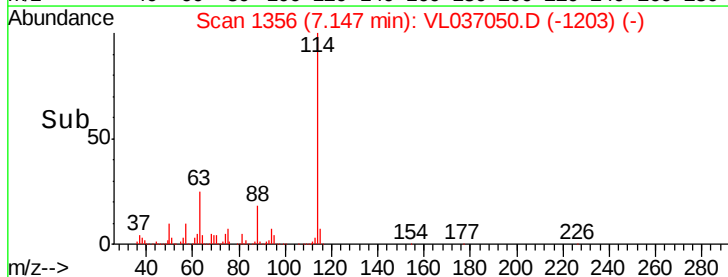
Ion	Ratio	Lower	Upper
114	100		
63	24.5	19.6	29.4
88	17.9	14.6	21.8

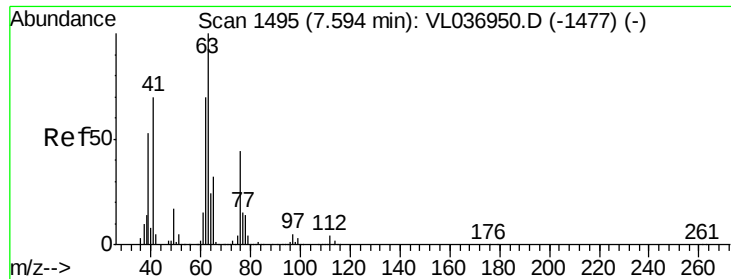


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0

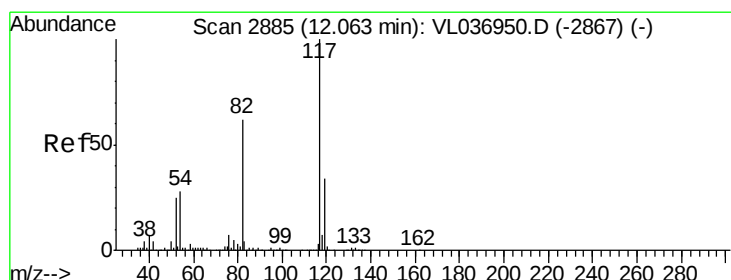
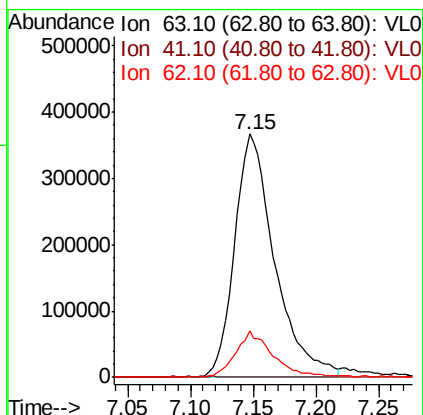
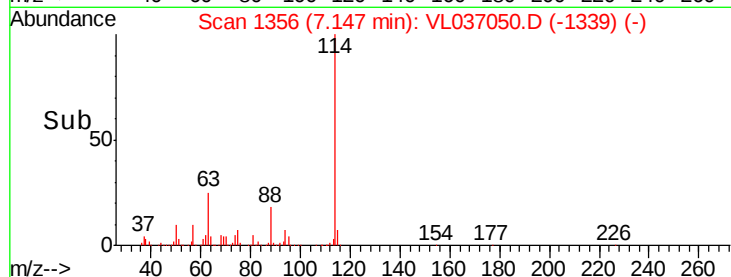
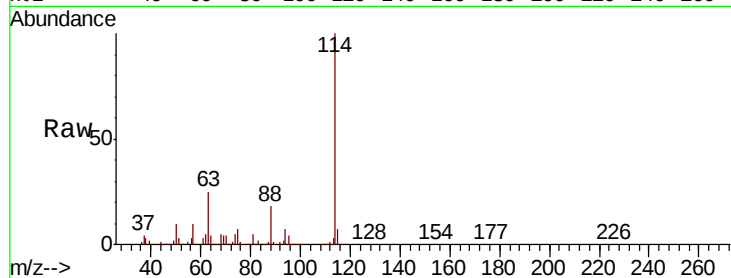




#39
 1,2-Dichloropropane
 Concen: 7.112 ppbv
 RT: 7.15 min Scan# 1356
 Delta R.T. -0.45 min
 Lab File: VL037050.D
 Acq: 24 May 2021 16:11

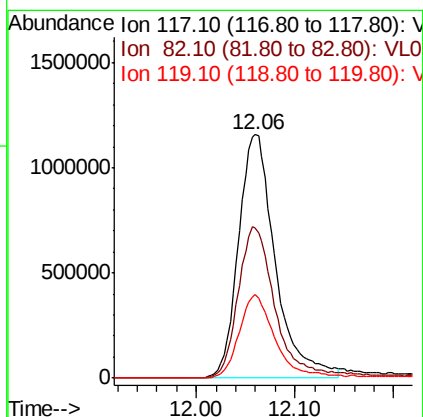
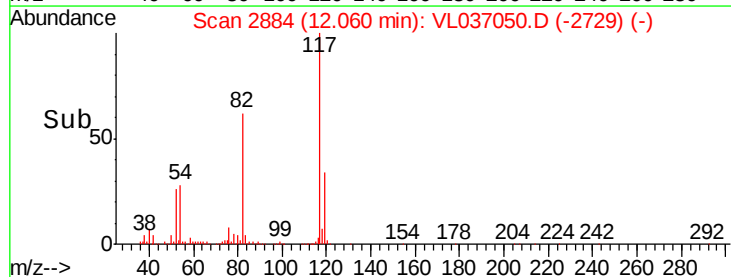
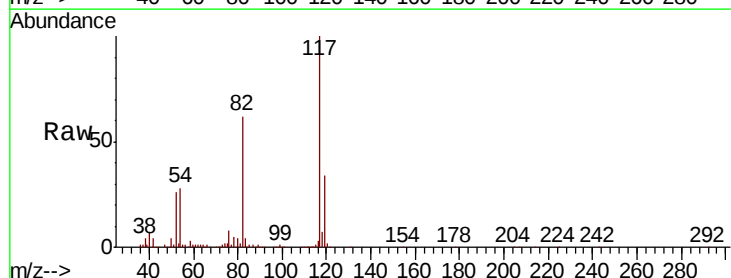
Instrument :
 MSVOA_L
 ClientSampleId :

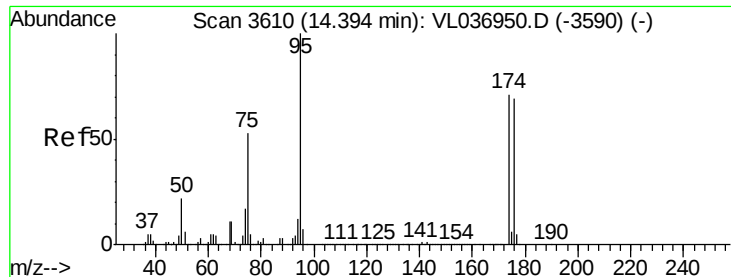
Tot Ion: 63 Resp: 814993
 Ion Ratio Lower Upper
 63 100
 41 0.2 55.7 83.5#
 62 19.1 56.2 84.4#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.06 min Scan# 2884
 Delta R.T. -0.00 min
 Lab File: VL037050.D
 Acq: 24 May 2021 16:11

Tgt Ion: 117 Resp: 3001852
 Ion Ratio Lower Upper
 117 100
 82 64.8 52.6 79.0
 119 34.8 46.6 70.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.636 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.00 min

Lab File: VL037050.D

Acq: 24 May 2021 16:11

Instrument :

MSVOA_L

ClientSampleId :

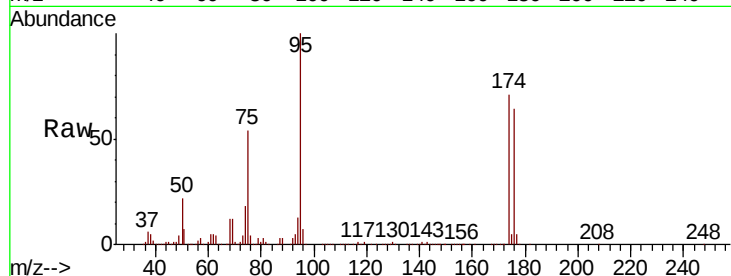
Tot Ion: 95 Resp: 2173076

Ion Ratio Lower Upper

95 100

174 77.3 58.4 87.6

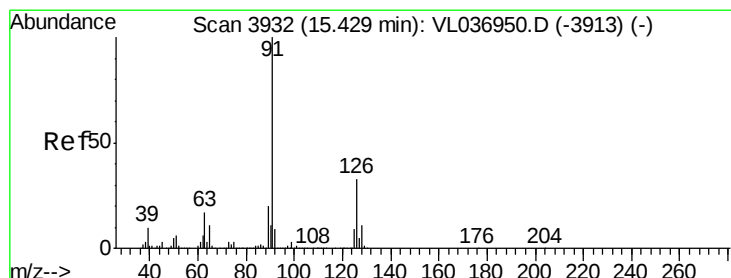
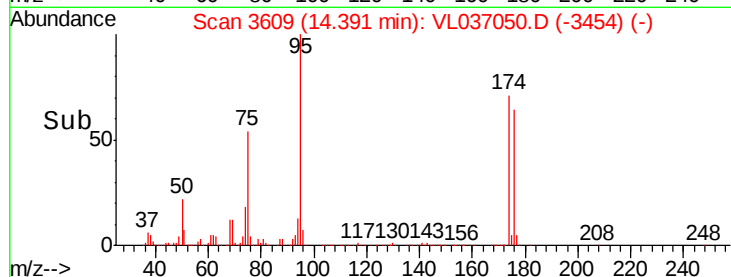
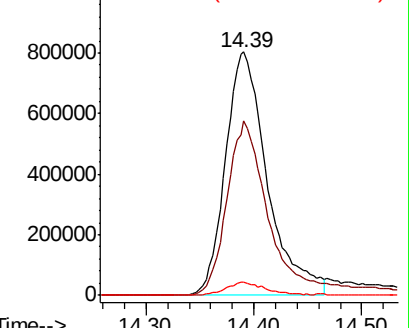
175 5.7 4.4 6.6



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



#71

2-Chlorotoluene

Concen: 0.032 ppbv

RT: 15.43 min Scan# 3933

Delta R.T. 0.00 min

Lab File: VL037050.D

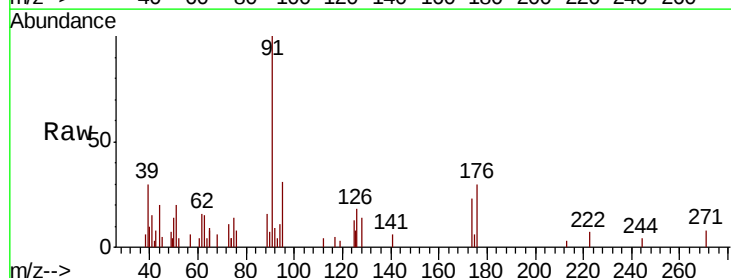
Acq: 24 May 2021 16:11

Tgt Ion: 91 Resp: 11081

Ion Ratio Lower Upper

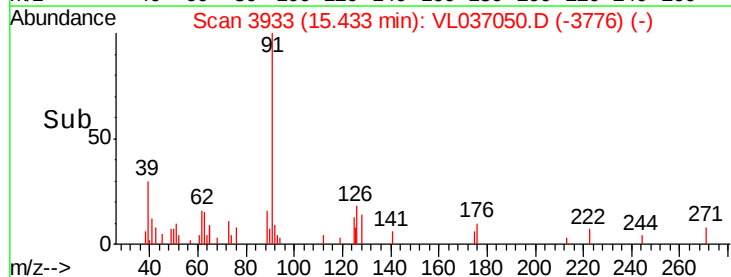
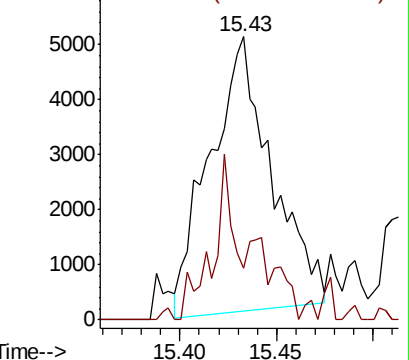
91 100

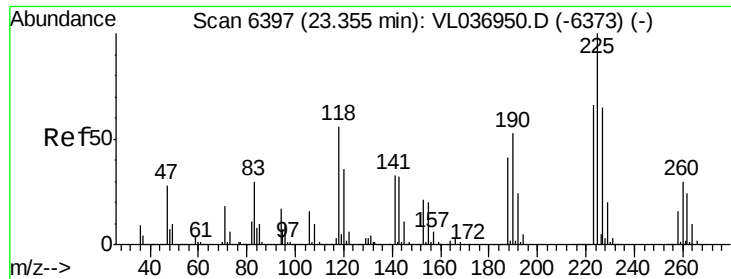
126 40.0 13.1 52.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V





#78

Hexachloro-1,3-Butadiene

Concen: 0.032 ppbv

RT: 23.35 min Scan# 6395

Delta R.T. -0.01 min

Lab File: VL037050.D

Acq: 24 May 2021 16:11

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 225 Resp: 6114

Ion Ratio Lower Upper

225 100

223 0.0 51.9 77.9#

227 132.3 51.8 77.6#

