

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073021\
 Data File : VL037310.D
 Acq On : 31 Jul 2021 9:16
 Operator : SY/AP
 Sample : M3121-06DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 01 22:32:33 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	1093423	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	3249587	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	2965123	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	2119026	9.82	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%	

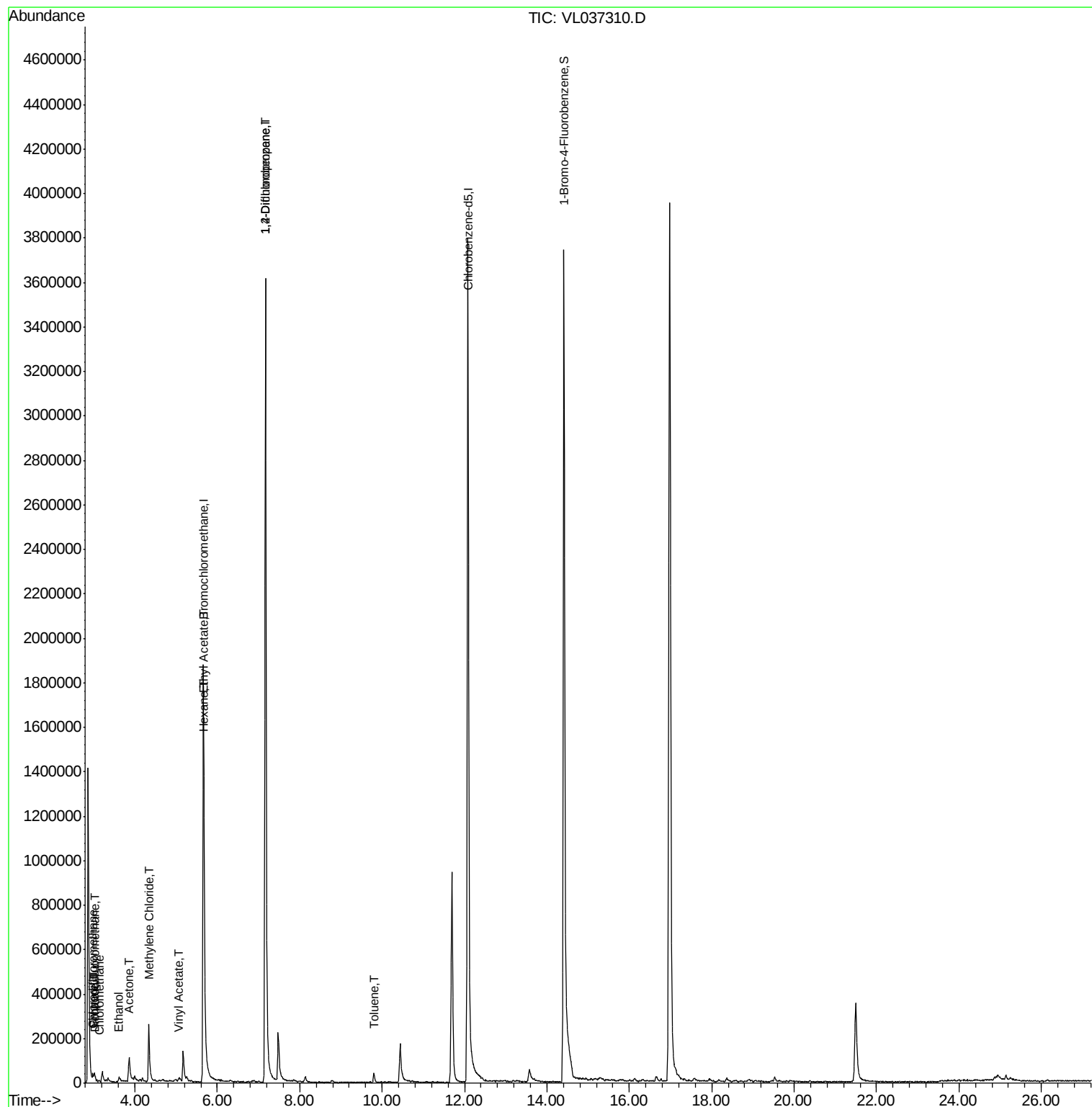
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	10044	0.064	ppbv #	84
3) Chlorodifluoromethane	2.98	51	45297	0.207	ppbv	92
4) Chloromethane	3.13	50	3753	0.049	ppbv	97
9) Propene	3.01	41	5962	0.081	ppbv #	12
13) Ethanol	3.61	45	12421	0.767	ppbv #	14
15) Acetone	3.85	43	148398	0.753	ppbv #	61
20) Methylene Chloride	4.34	84	110534	1.450	ppbv	95
23) Vinyl Acetate	5.07	43	8875	0.053	ppbv #	80
25) Ethyl Acetate	5.68	43	51587	0.181	ppbv #	80
26) Hexane	5.68	57	67843	0.444	ppbv #	51
39) 1,2-Dichloropropane	7.17	63	755174	7.299	ppbv #	25
53) Toluene	9.80	91	31354	0.097	ppbv	89

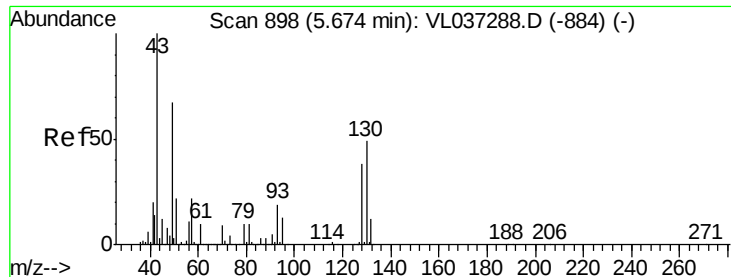
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VL037310.D

Acq: 31 Jul 2021 9:16

Instrument :
MSVOA_L
ClientSampleId :

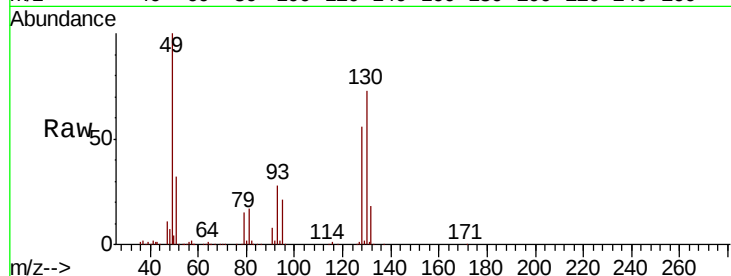
Tot Ion: 49 Resp: 1093423

Ion Ratio Lower Upper

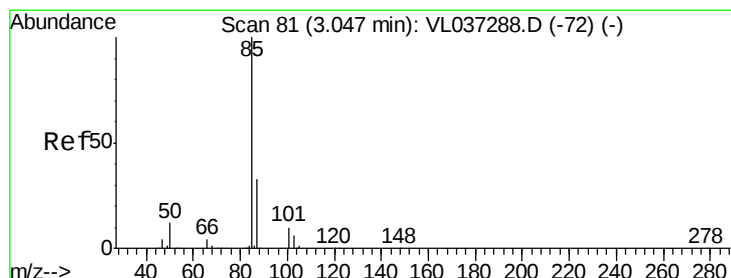
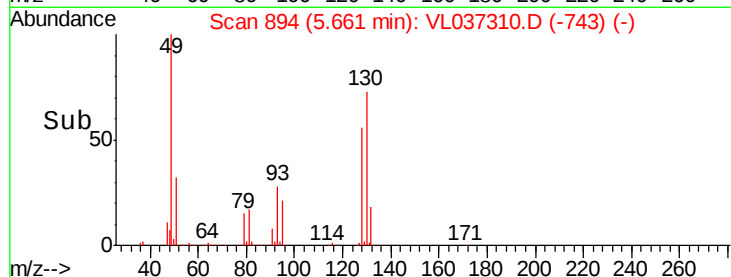
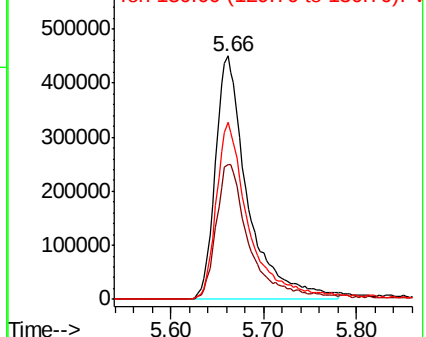
49 100

128 58.3 30.6 92.0

130 74.8 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: 0.064 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL037310.D

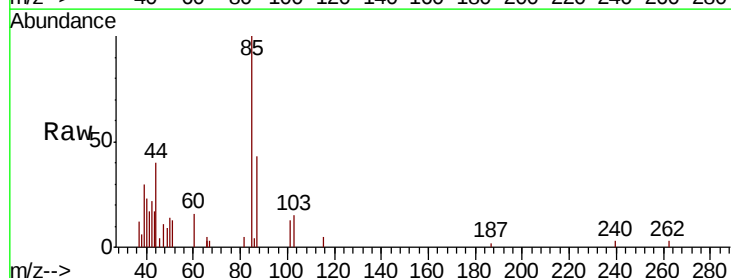
Acq: 31 Jul 2021 9:16

Tgt Ion: 85 Resp: 10044

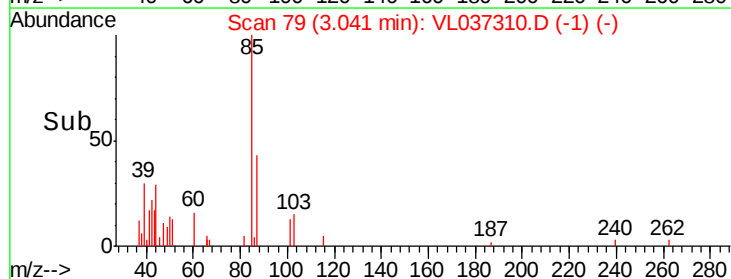
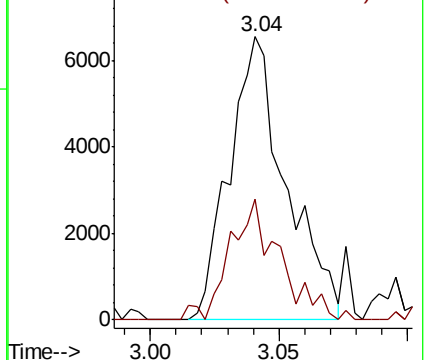
Ion Ratio Lower Upper

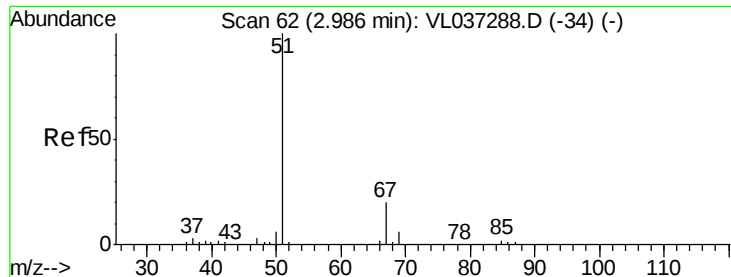
85 100

87 42.7 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: 0.207 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL037310.D

Acq: 31 Jul 2021 9:16

Instrument :

MSVOA_L

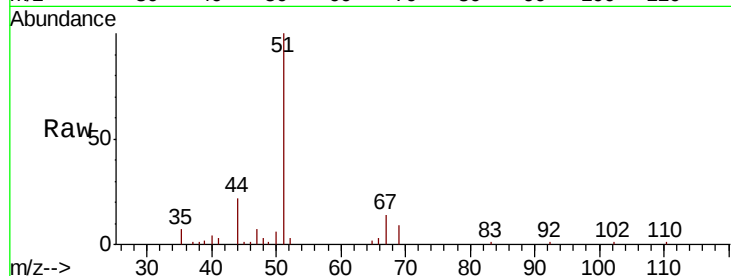
ClientSampleId :

Tot Ion: 51 Resp: 45297

Ion Ratio Lower Upper

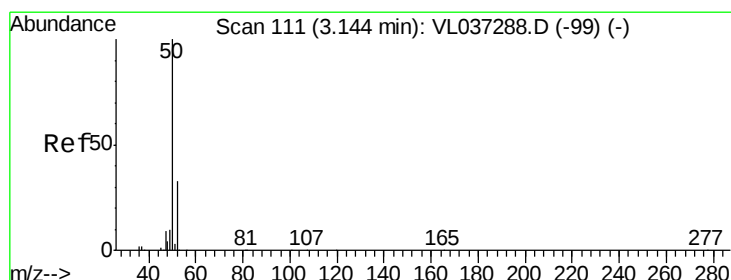
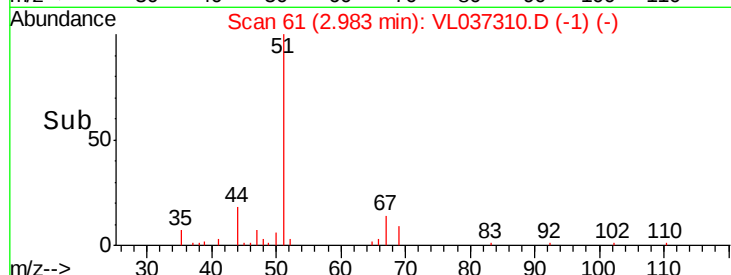
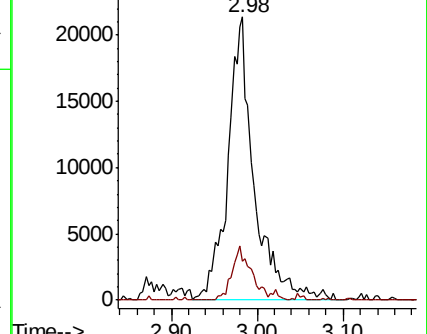
51 100

67 15.3 15.2 22.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.049 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL037310.D

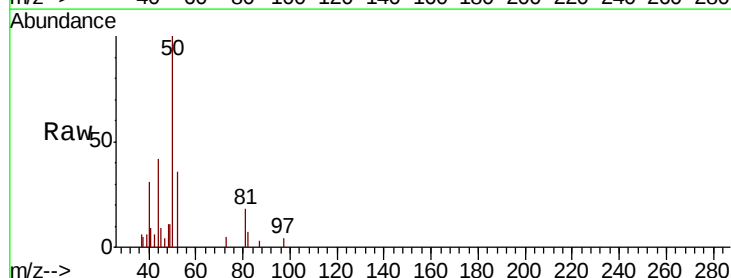
Acq: 31 Jul 2021 9:16

Tgt Ion: 50 Resp: 3753

Ion Ratio Lower Upper

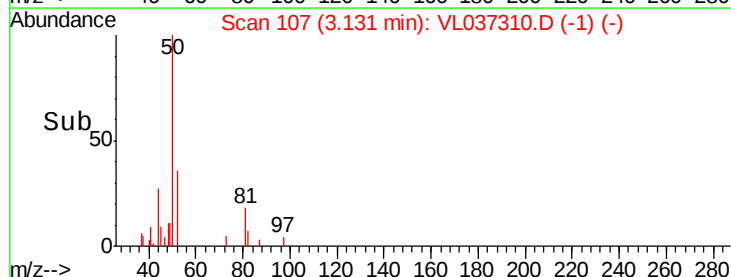
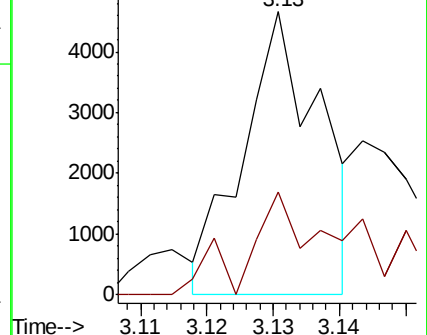
50 100

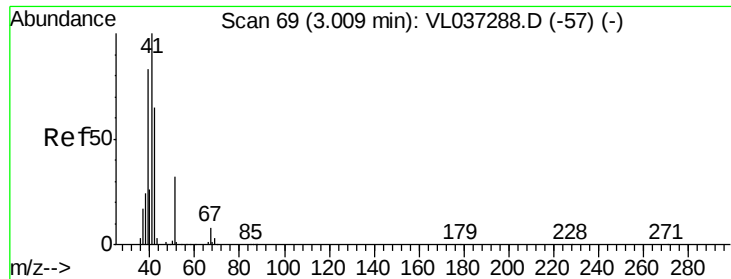
52 34.6 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.081 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL037310.D

Acq: 31 Jul 2021 9:16

Instrument :

MSVOA_L

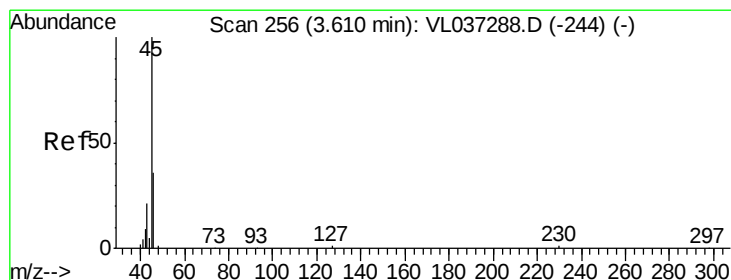
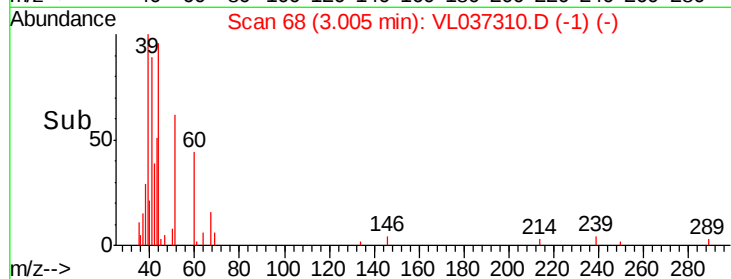
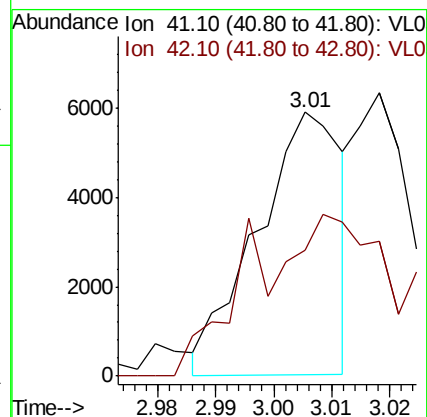
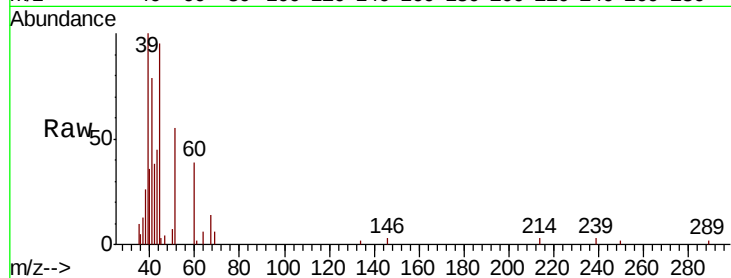
ClientSampled :

Tot Ion: 41 Resp: 5962

Ion Ratio Lower Upper

41 100

42 138.4 54.0 81.0#



#13

Ethanol

Concen: 0.767 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.00 min

Lab File: VL037310.D

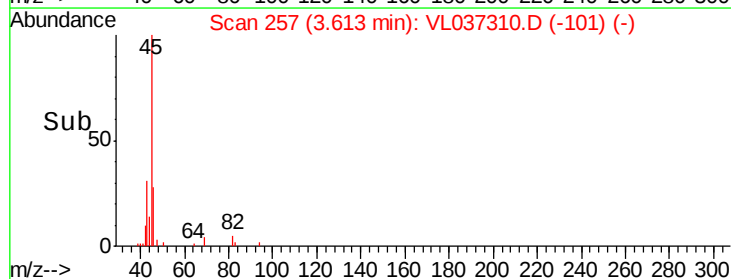
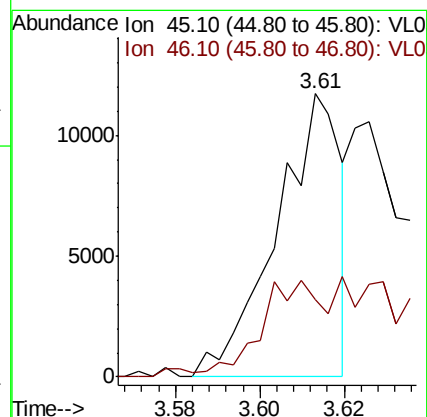
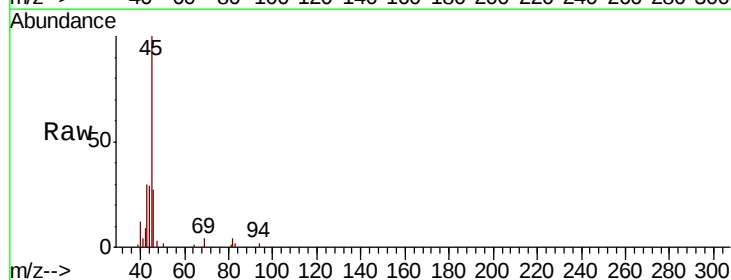
Acq: 31 Jul 2021 9:16

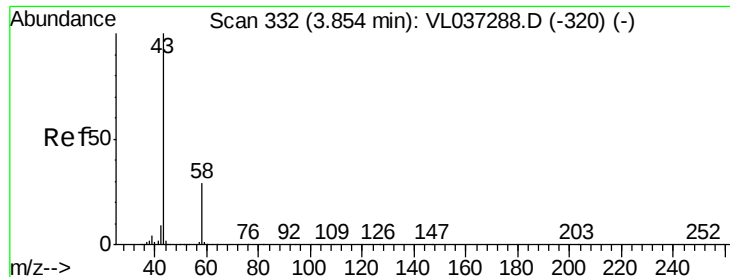
Tgt Ion: 45 Resp: 12421

Ion Ratio Lower Upper

45 100

46 94.2 16.2 64.8#

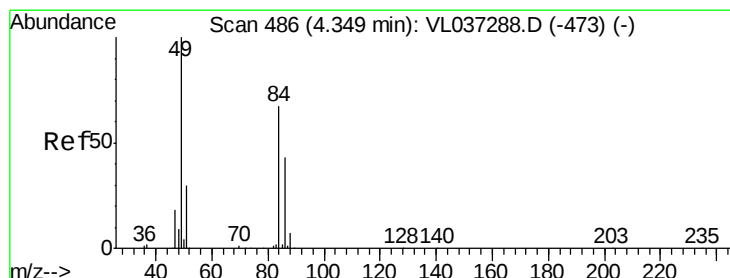
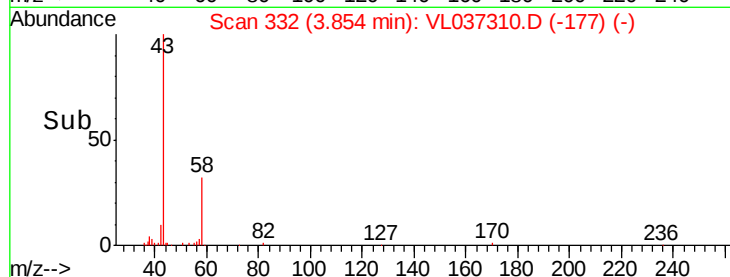
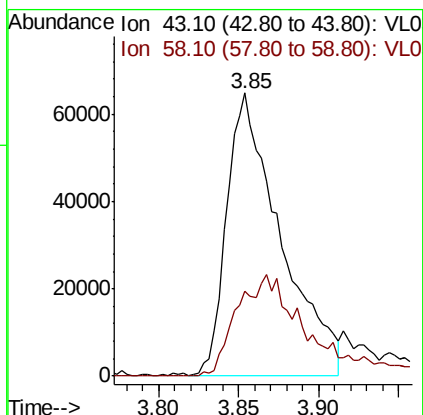
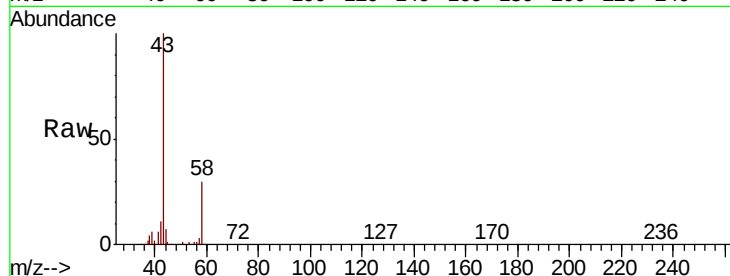




#15
Acetone
Concen: 0.753 ppbv
RT: 3.85 min Scan# 332
Delta R.T. -0.00 min
Lab File: VL037310.D
Acq: 31 Jul 2021 9:16

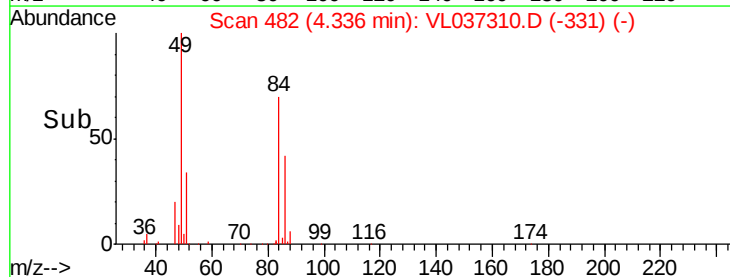
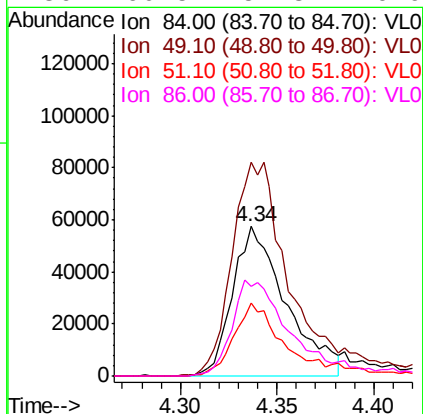
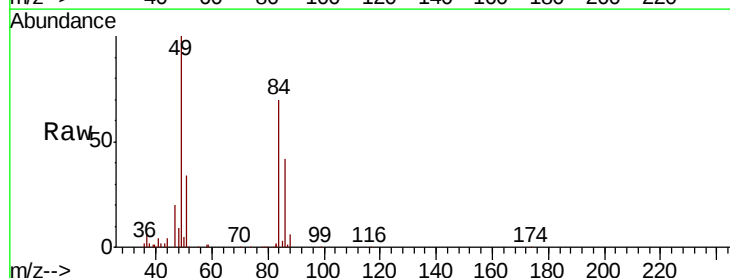
Instrument :
MSVOA_L
ClientSampleId :

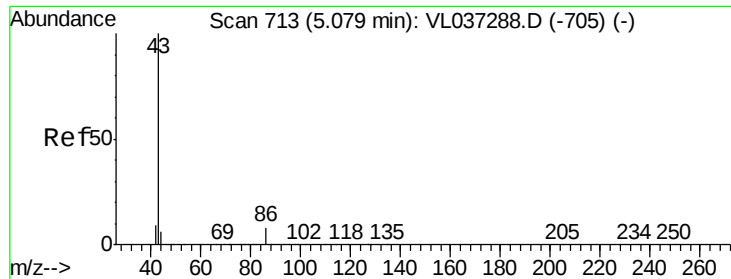
Tot Ion: 43 Resp: 148398
Ion Ratio Lower Upper
43 100
58 51.7 24.2 36.4#



#20
Methylene Chloride
Concen: 1.450 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL037310.D
Acq: 31 Jul 2021 9:16

Tgt Ion: 84 Resp: 110534
Ion Ratio Lower Upper
84 100
49 142.4 120.2 180.4
51 48.3 36.5 54.7
86 60.5 51.3 76.9





#23

Vinyl Acetate

Concen: 0.053 ppbv

RT: 5.07 min Scan# 709

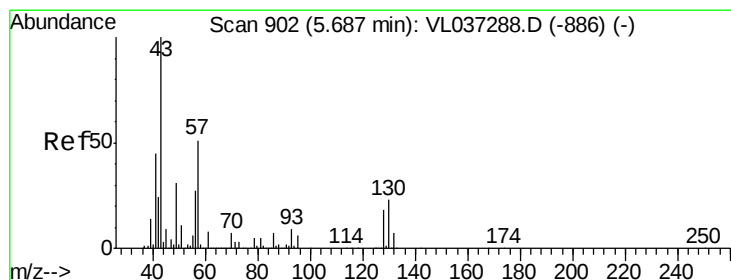
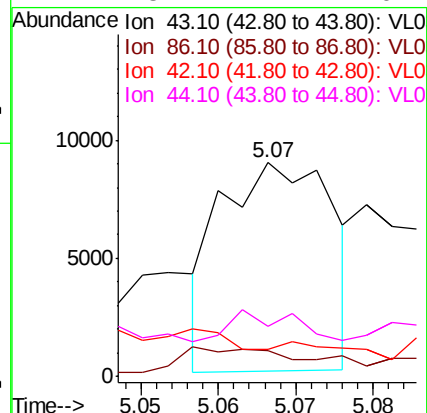
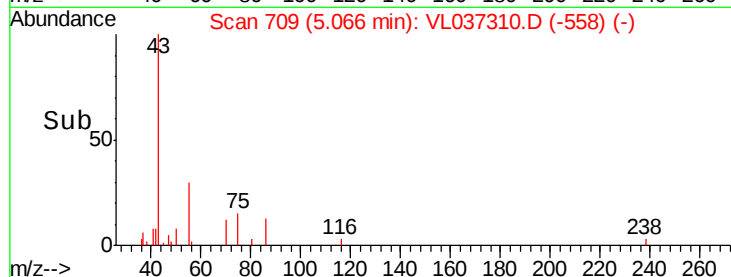
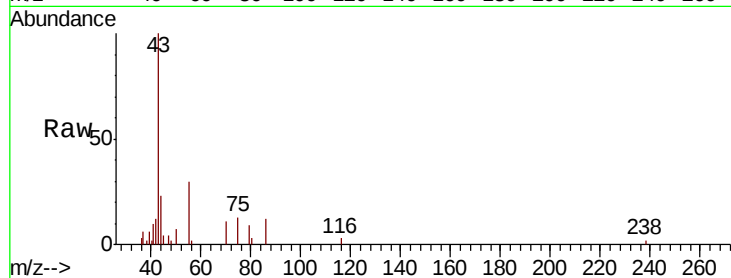
Delta R.T. -0.01 min

Lab File: VL037310.D

Acq: 31 Jul 2021 9:16

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	43	Resp:	8875
Ion	Ratio	Lower	Upper
43	100		
86	4.5	5.7	8.5#
42	0.0	8.1	12.1#
44	13.4	4.1	6.1#



#25

Ethyl Acetate

Concen: 0.181 ppbv

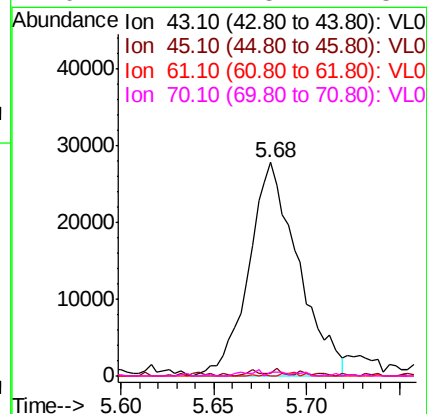
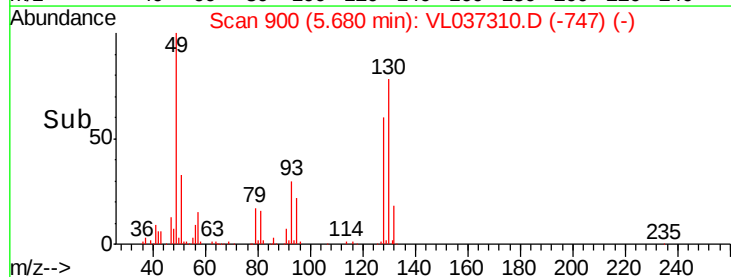
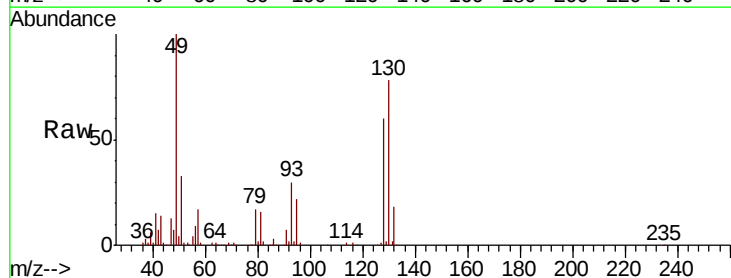
RT: 5.68 min Scan# 900

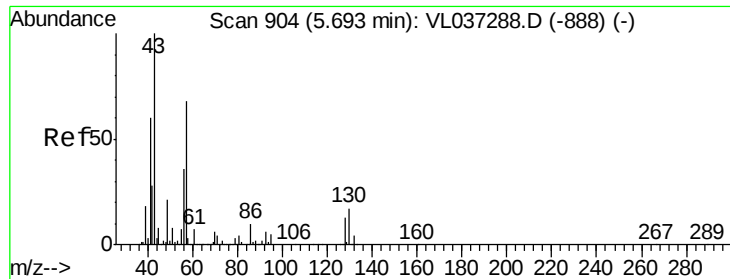
Delta R.T. -0.01 min

Lab File: VL037310.D

Acq: 31 Jul 2021 9:16

Tgt Ion:	43	Resp:	51587
Ion	Ratio	Lower	Upper
43	100		
45	2.3	7.4	11.2#
61	0.8	7.8	11.6#
70	2.2	5.4	8.2#

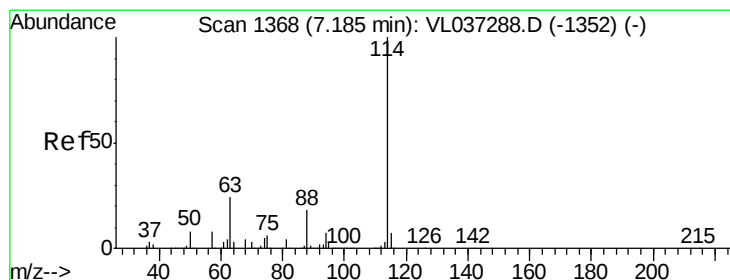
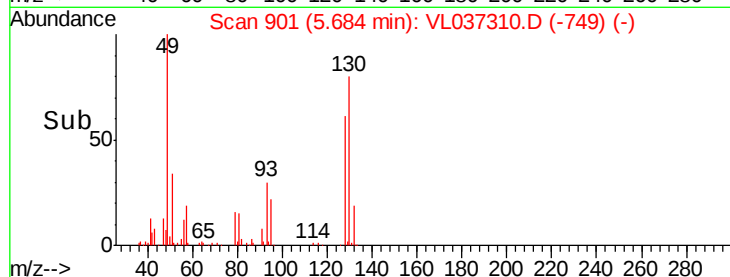
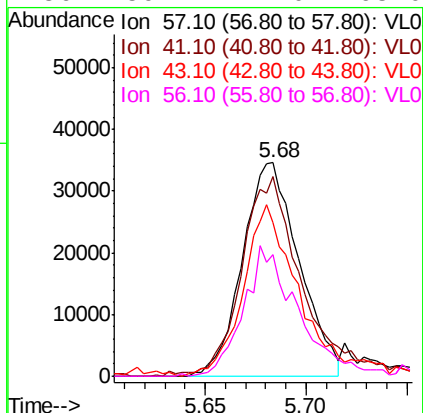
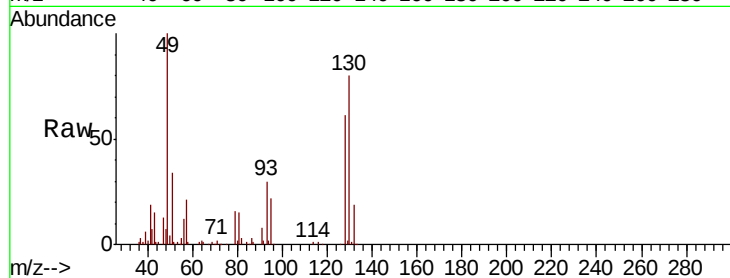




#26
Hexane
Concen: 0.444 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL037310.D
Acq: 31 Jul 2021 9:16

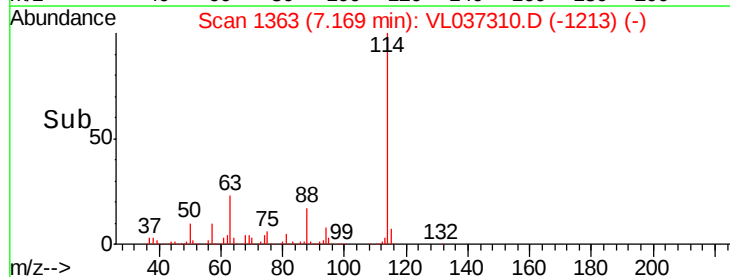
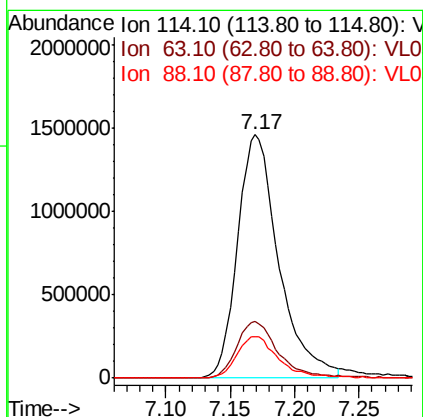
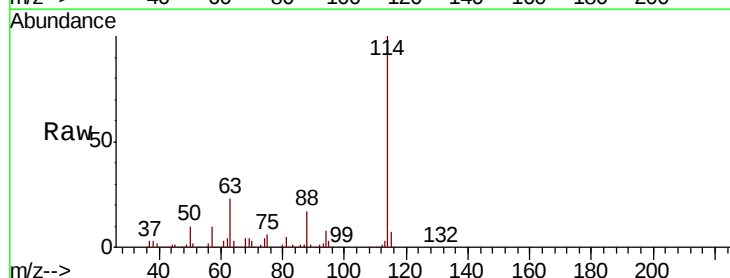
Instrument :
MSVOA_L
ClientSampleId :

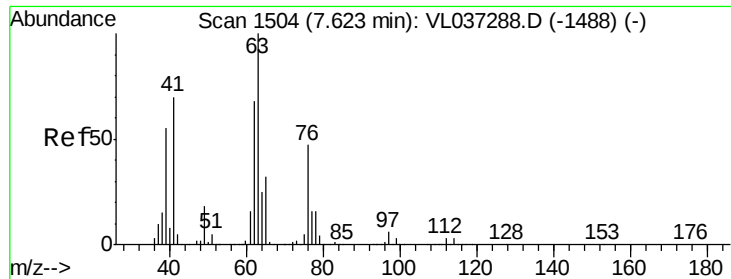
Tot Ion: 57 Resp: 67843
Ion Ratio Lower Upper
57 100
41 101.9 71.0 106.6
43 80.1 155.0 232.4#
56 59.1 42.0 63.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.02 min
Lab File: VL037310.D
Acq: 31 Jul 2021 9:16

Tgt Ion: 114 Resp: 3249587
Ion Ratio Lower Upper
114 100
63 23.7 19.0 28.4
88 17.6 14.0 21.0

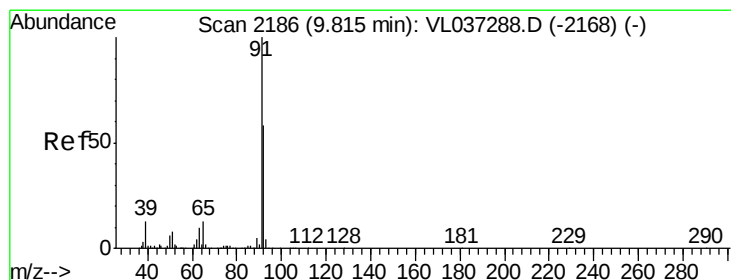
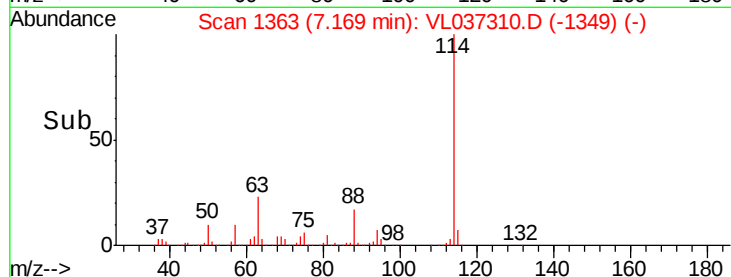
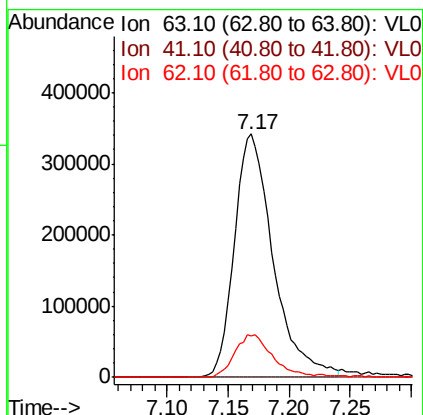
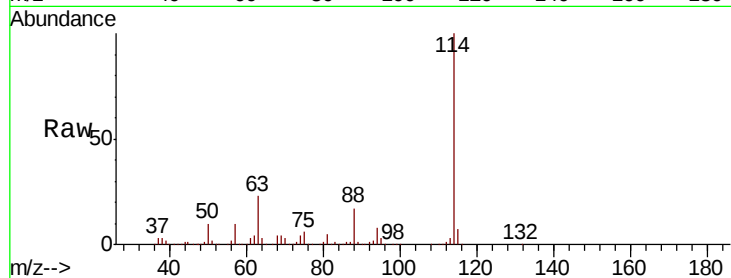




#39
 1,2-Dichloropropane
 Concen: 7.299 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.45 min
 Lab File: VL037310.D
 Acq: 31 Jul 2021 9:16

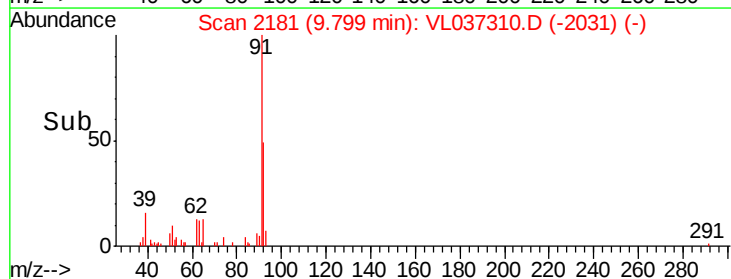
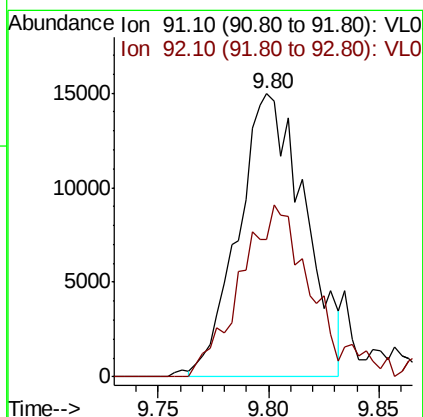
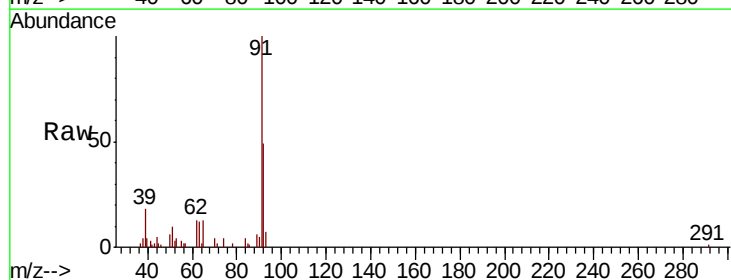
Instrument :
 MSVOA_L
 ClientSampled :

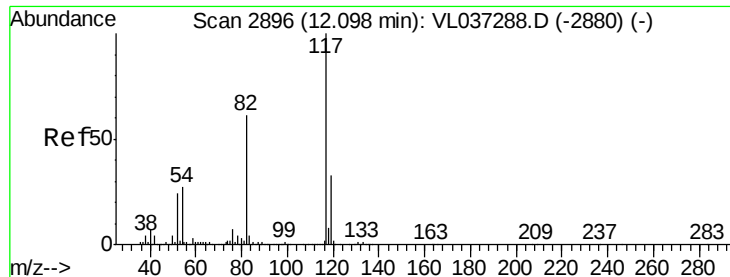
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	56.4	84.6#
62	17.1	54.6	82.0#



#53
 Toluene
 Concen: 0.097 ppbv
 RT: 9.80 min Scan# 2181
 Delta R.T. -0.02 min
 Lab File: VL037310.D
 Acq: 31 Jul 2021 9:16

Tgt Ion	Ratio	Lower	Upper
91	100		
92	68.3	48.2	72.2

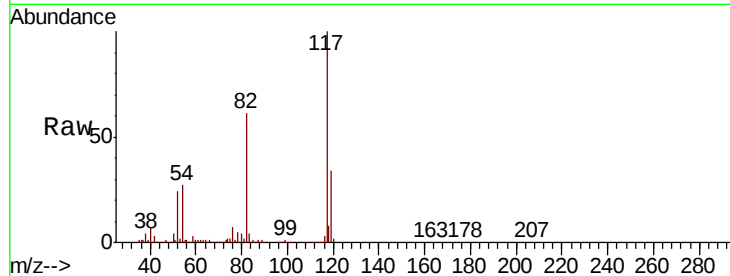




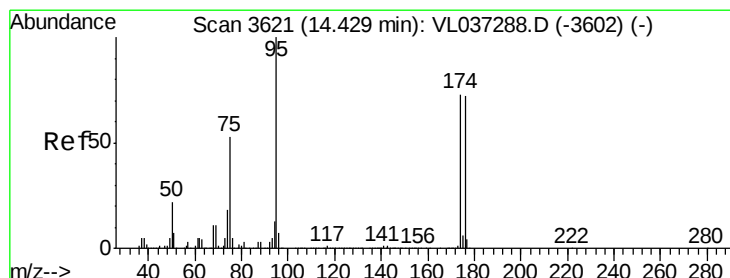
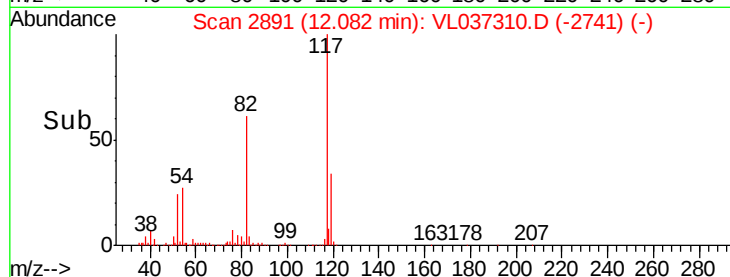
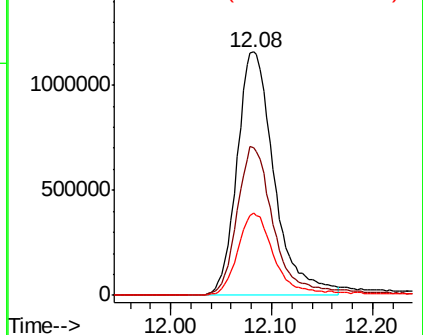
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. -0.02 min
Lab File: VL037310.D
Acq: 31 Jul 2021 9:16

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 2965123
Ion Ratio Lower Upper
117 100
82 63.5 47.2 70.8
119 34.7 45.8 68.8#

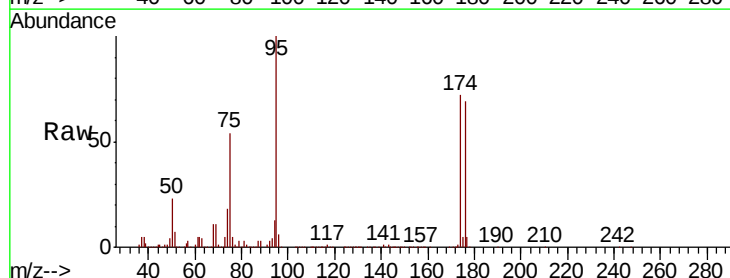


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.823 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. -0.02 min
Lab File: VL037310.D
Acq: 31 Jul 2021 9:16

Tgt Ion: 95 Resp: 2119026
Ion Ratio Lower Upper
95 100
174 77.7 59.8 89.6
175 5.3 4.5 6.7



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

