

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031722\
 Data File : VL038631.D
 Acq On : 17 Mar 2022 18:13
 Operator : SY/AP
 Sample : N1965-12DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0PA9DL

Quant Time: Apr 01 02:41:25 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030822AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 08 21:18:44 2022
 QLast Update : Tue Mar 08 21:18:44 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	857028	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	2191739	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	1873298	10.00	ppbv	0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.42	95	1326567	9.31	ppbv	0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.10%	

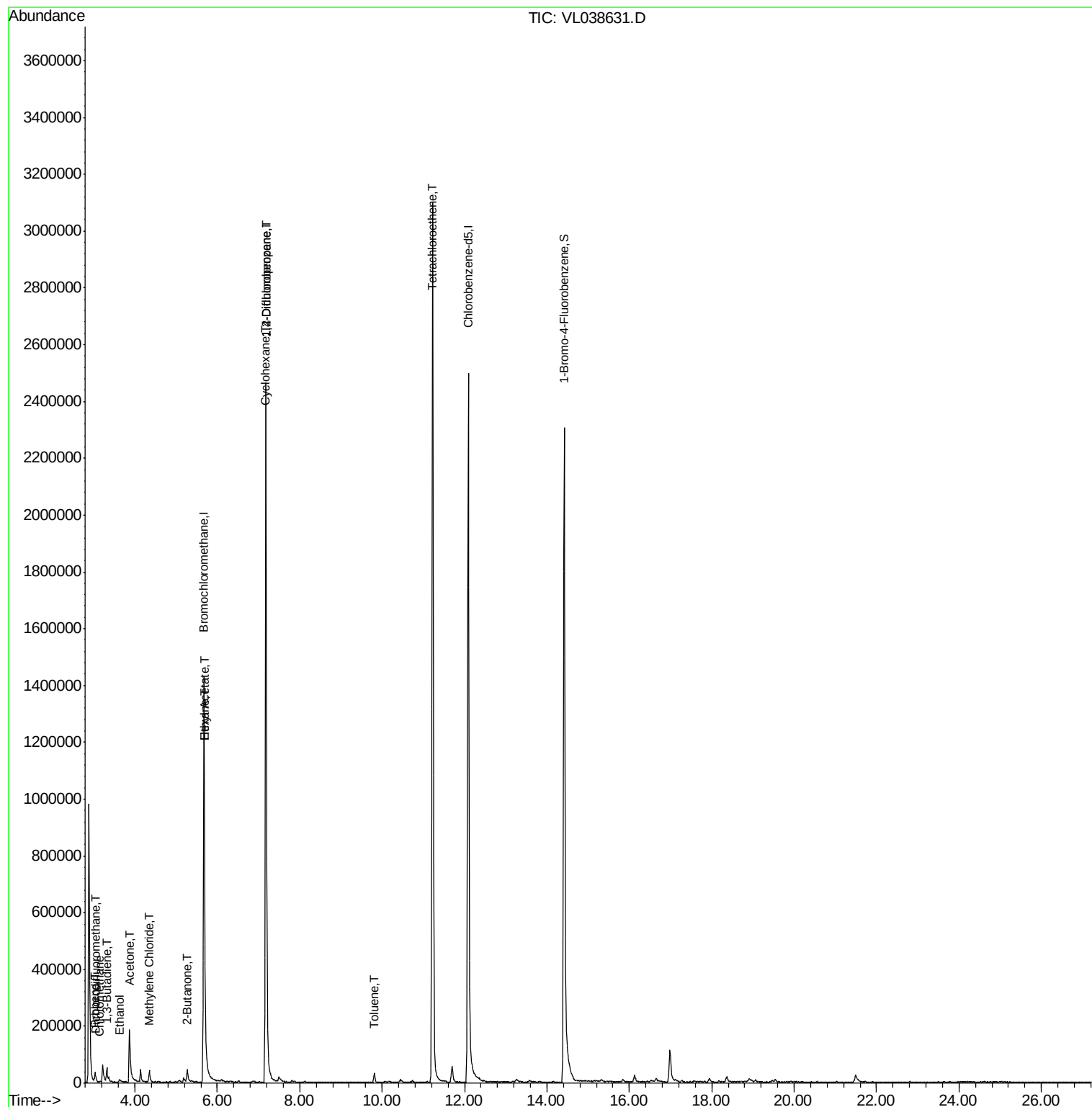
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	6648	0.051	ppbv	100
4) Chloromethane	3.15	50	1703	0.030	ppbv	91
9) Propene	3.02	41	12026	0.226	ppbv	91
13) Ethanol	3.62	45	9327	1.523	ppbv	77
15) Acetone	3.87	43	274946	4.548	ppbv	93
16) 1,3-Butadiene	3.32	39	13989	0.288	ppbv #	20
20) Methylene Chloride	4.35	84	14604	0.401	ppbv	95
25) Ethyl Acetate	5.69	43	7643	0.038	ppbv #	77
26) Hexane	5.69	57	7385	0.077	ppbv #	42
30) Cyclohexane	7.16	84	2489	0.030	ppbv #	1
34) 2-Butanone	5.27	43	59714	1.051	ppbv #	88
39) 1,2-Dichloropropane	7.18	63	508362	6.683	ppbv #	26
52) Tetrachloroethene	11.23	164	881857	12.165	ppbv	98
53) Toluene	9.81	91	28568	0.135	ppbv	99

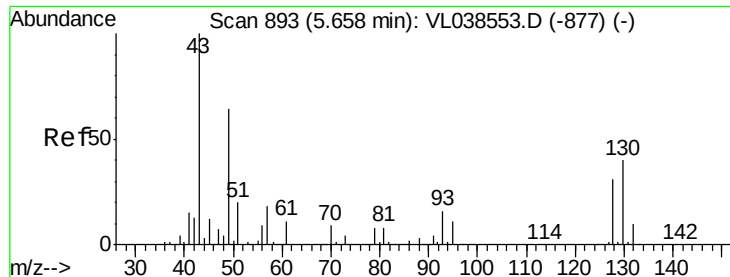
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 17 Mar 2022 18:13

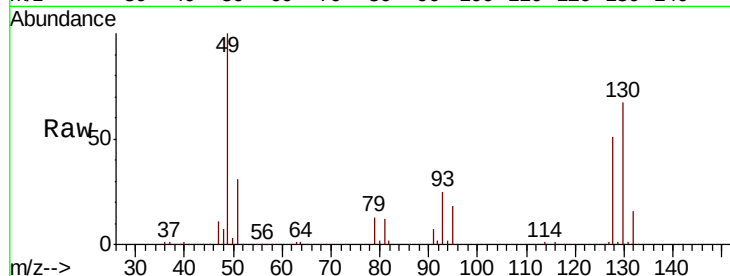
Tot Ion: 49 Resp: 857028

Ion Ratio Lower Upper

49 100

128 52.1 26.4 79.2

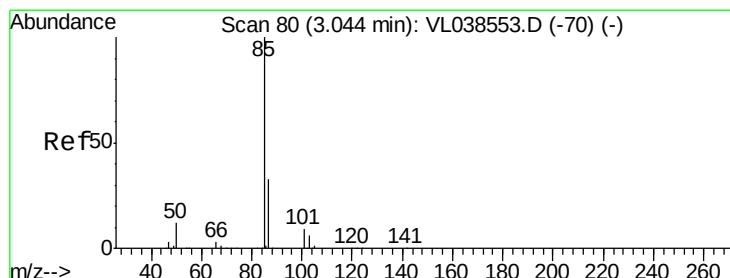
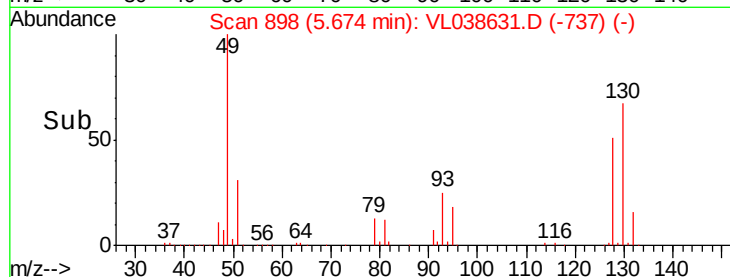
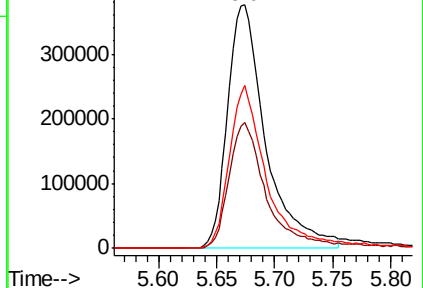
130 67.5 33.0 98.9



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: 0.051 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.02 min

Lab File: VL038631.D

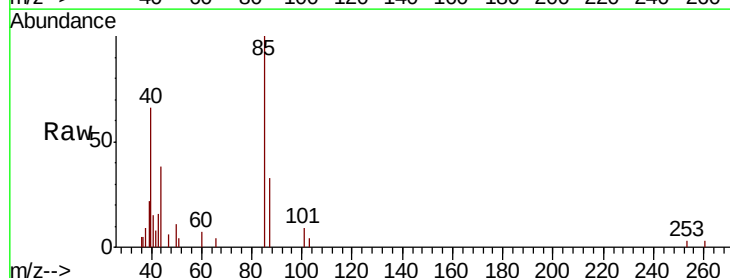
Acq: 17 Mar 2022 18:13

Tgt Ion: 85 Resp: 6648

Ion Ratio Lower Upper

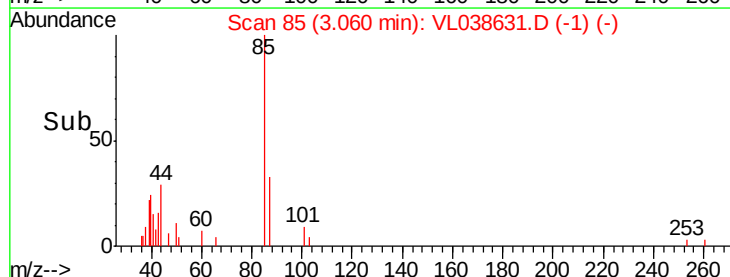
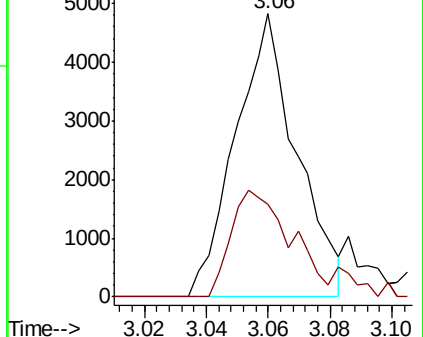
85 100

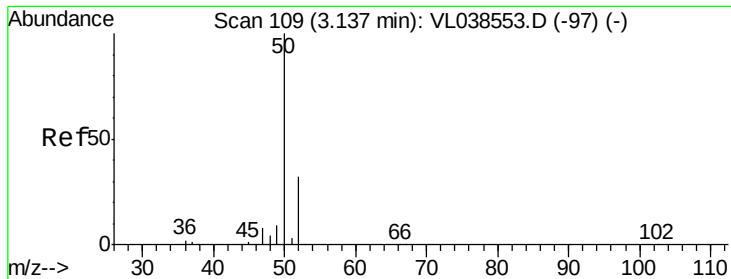
87 32.6 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.030 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

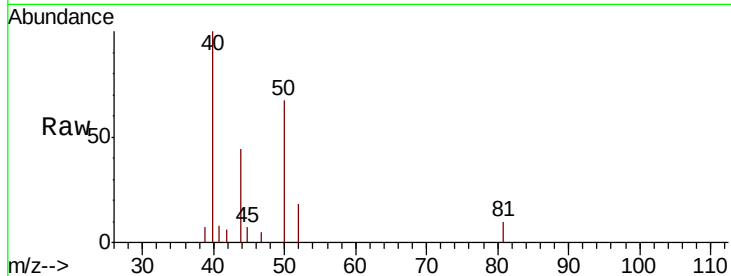
Acq: 17 Mar 2022 18:13

Tot Ion: 50 Resp: 1703

Ion Ratio Lower Upper

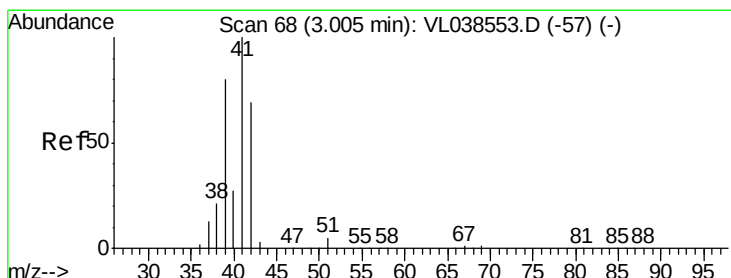
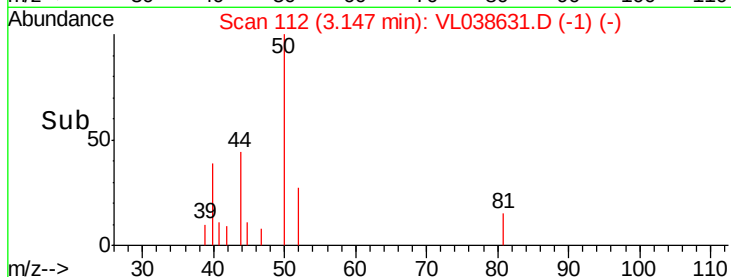
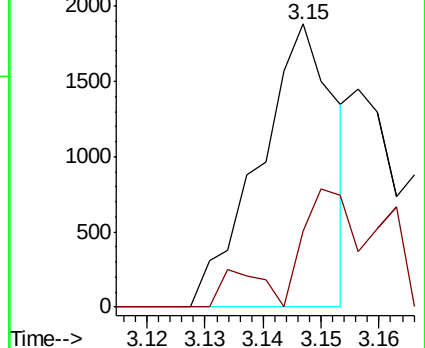
50 100

52 27.1 25.6 38.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.226 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.02 min

Lab File: VL038631.D

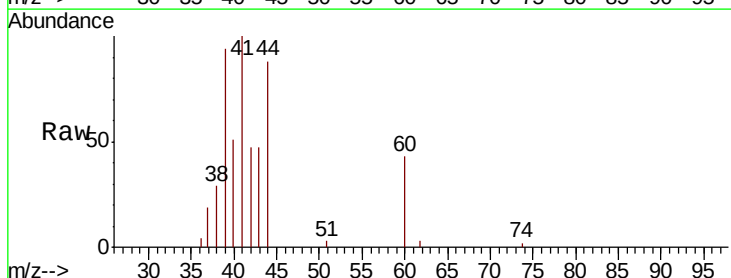
Acq: 17 Mar 2022 18:13

Tgt Ion: 41 Resp: 12026

Ion Ratio Lower Upper

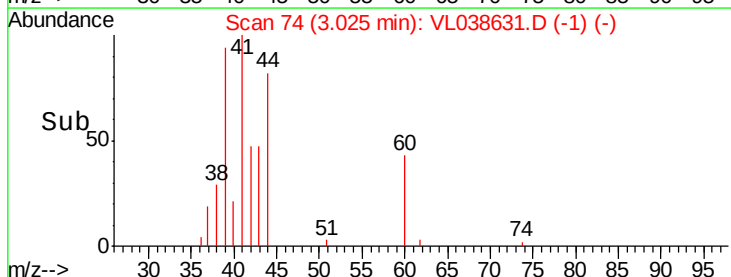
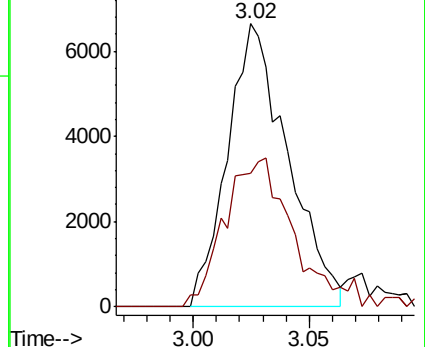
41 100

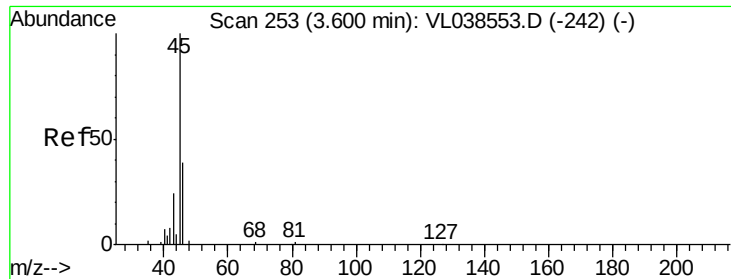
42 62.4 55.7 83.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

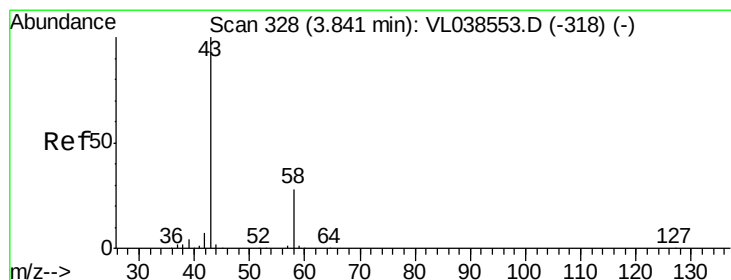
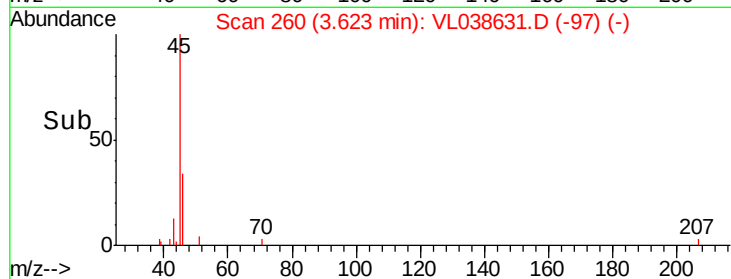
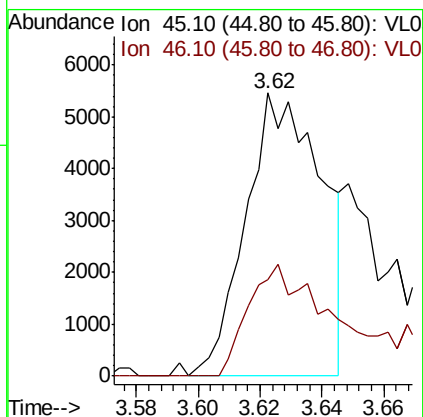
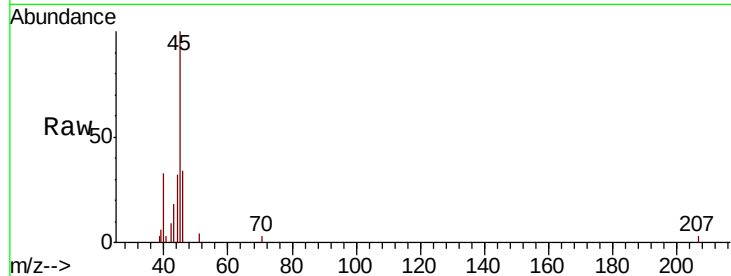
Ion 42.10 (41.80 to 42.80): VL0





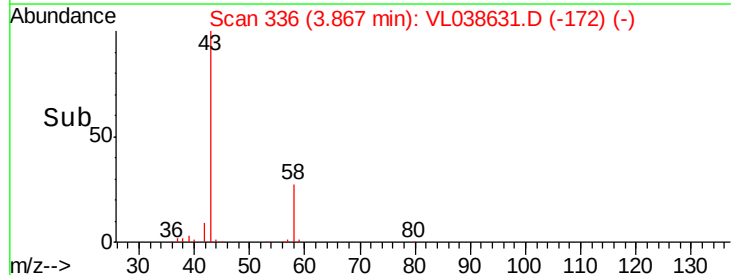
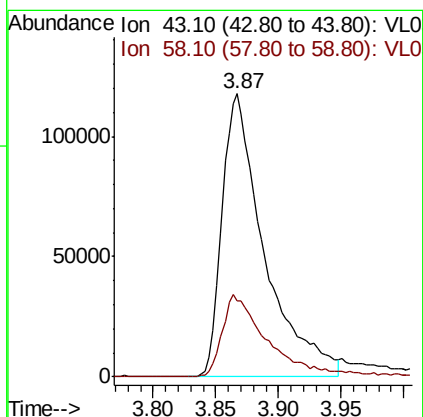
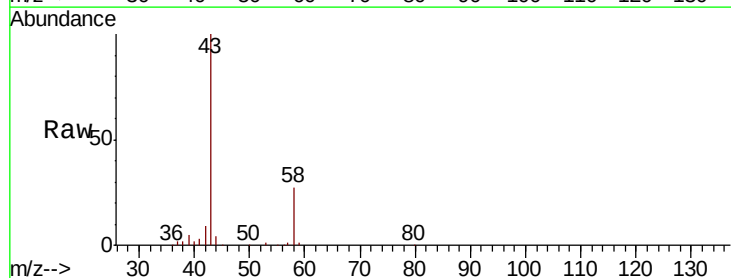
#13
Ethanol
Concen: 1.523 ppbv
RT: 3.62
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COPA9DL
Acq: 17 Mar 2022 18:13

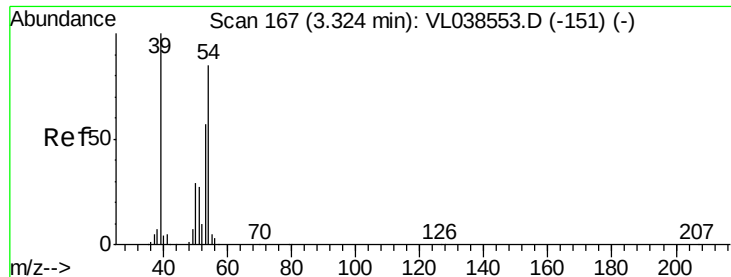
Tot Ion: 45 Resp: 9327
Ion Ratio Lower Upper
45 100
46 56.4 16.8 67.0



#15
Acetone
Concen: 4.548 ppbv
RT: 3.87 min Scan# 336
Delta R.T. 0.03 min
Lab File: VL038631.D
Acq: 17 Mar 2022 18:13

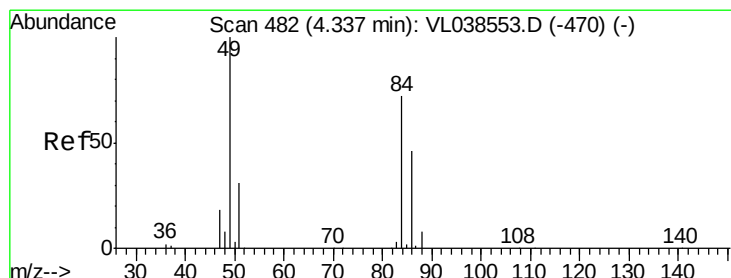
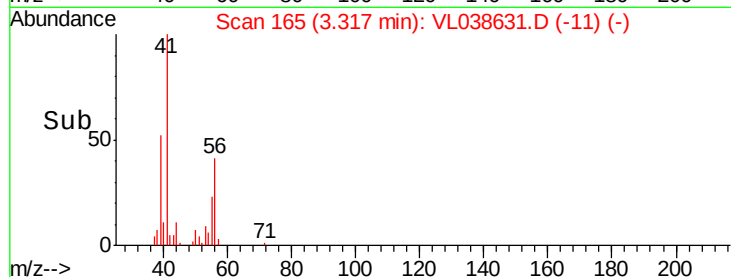
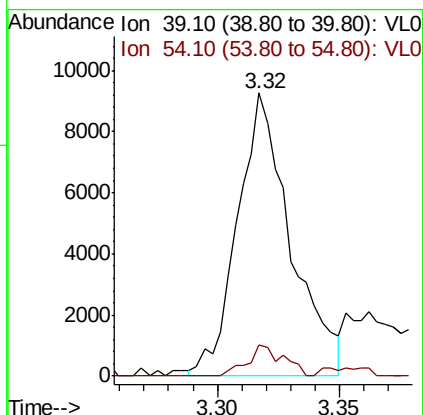
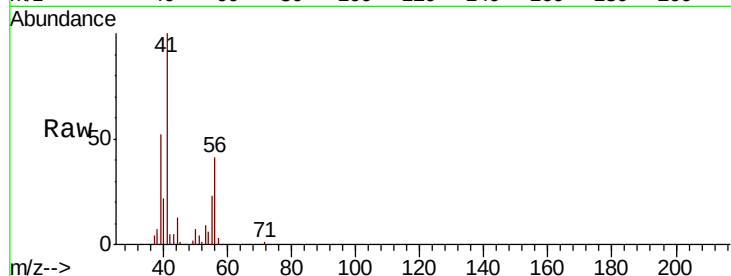
Tgt Ion: 43 Resp: 274946
Ion Ratio Lower Upper
43 100
58 32.1 22.7 34.1





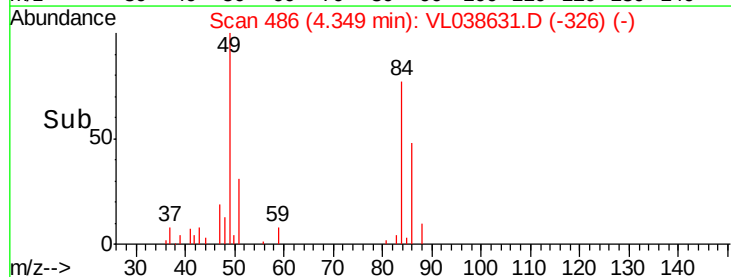
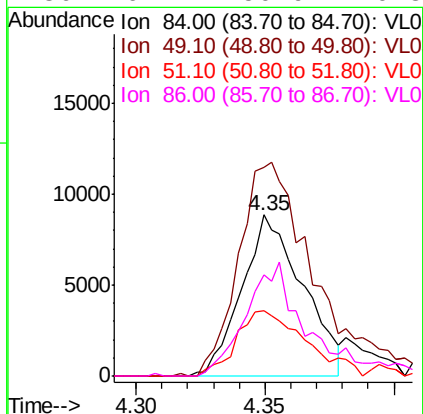
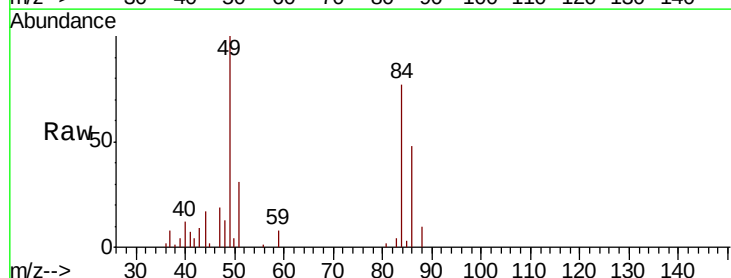
#16
 1,3-Butadiene
 Concen: 0.288 ppbv
 RT: 3.32
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 C0PA9DL
 Acq: 17 Mar 2022 18:13

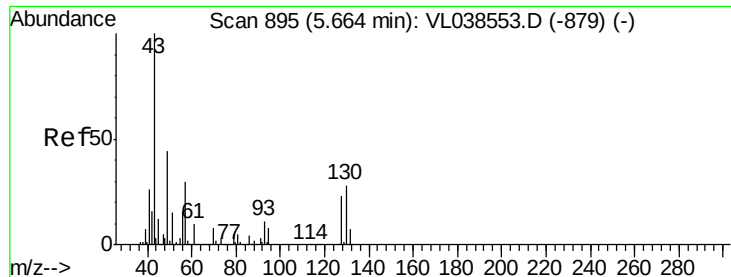
Tot Ion: 39 Resp: 13989
 Ion Ratio Lower Upper
 39 100
 54 9.7 64.2 96.2#



#20
 Methylene Chloride
 Concen: 0.401 ppbv
 RT: 4.35 min Scan# 486
 Delta R.T. 0.01 min
 Lab File: VL038631.D
 Acq: 17 Mar 2022 18:13

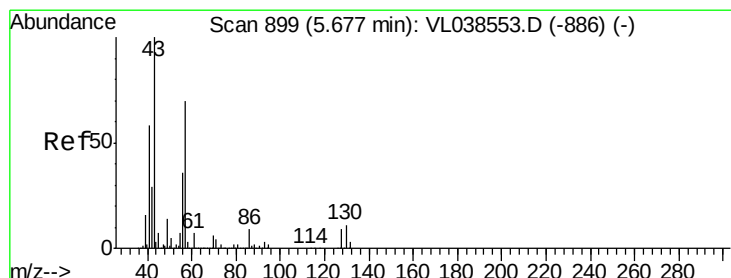
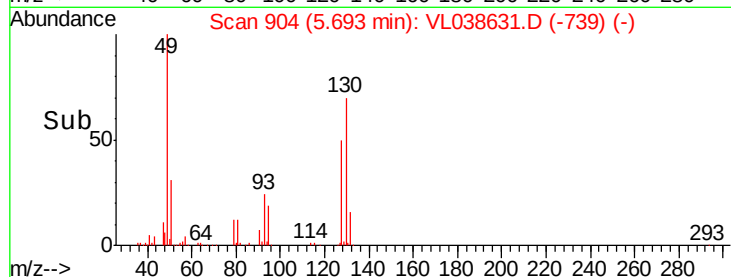
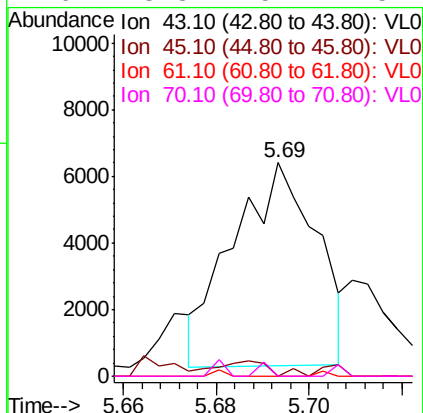
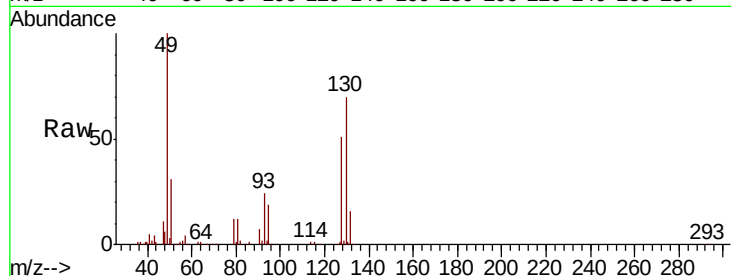
Tgt Ion: 84 Resp: 14604
 Ion Ratio Lower Upper
 84 100
 49 129.3 111.1 166.7
 51 40.2 34.0 51.0
 86 62.7 50.9 76.3





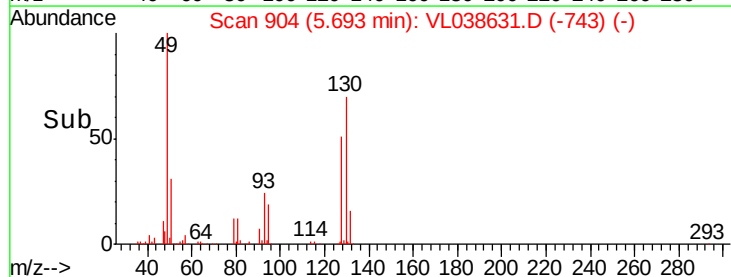
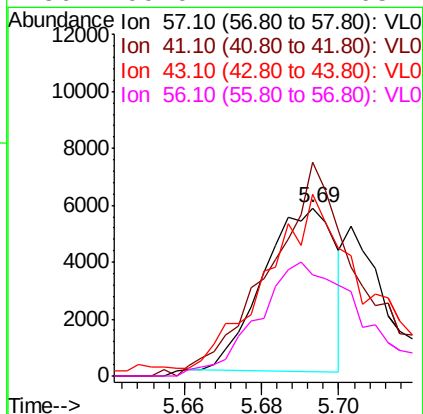
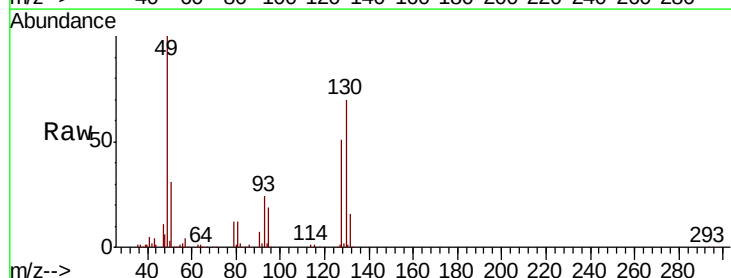
#25
Ethyl Acetate
Concen: 0.038 ppbv
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
COPA9DL
Acq: 17 Mar 2022 18:13

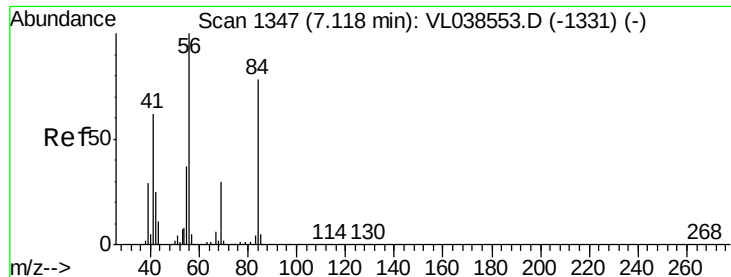
Tot Ion:	43	Resp:	7643
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.0	12.0#
61	0.5	8.2	12.4#
70	3.3	5.4	8.2#



#26
Hexane
Concen: 0.077 ppbv
RT: 5.69 min Scan# 904
Delta R.T.: 0.02 min
Lab File: VL038631.D
Acq: 17 Mar 2022 18:13

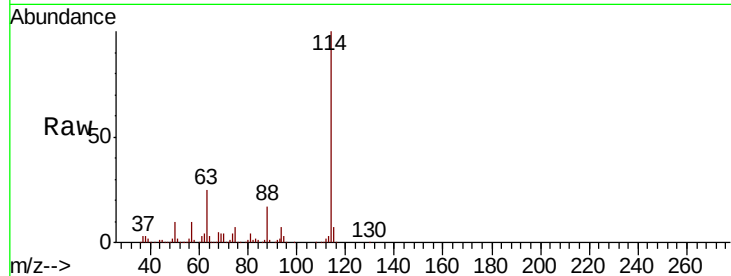
Tgt Ion:	57	Resp:	7385
Ion	Ratio	Lower	Upper
57	100		
41	177.5	67.8	101.6#
43	159.5	173.6	260.4#
56	109.0	42.2	63.2#



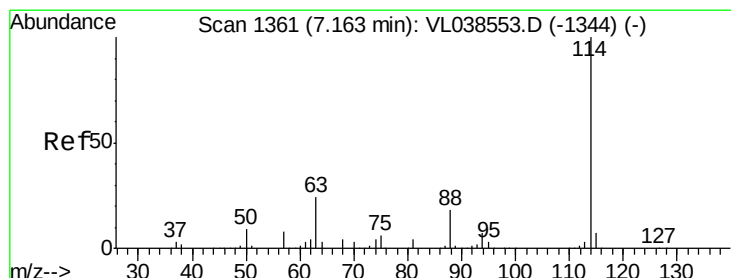
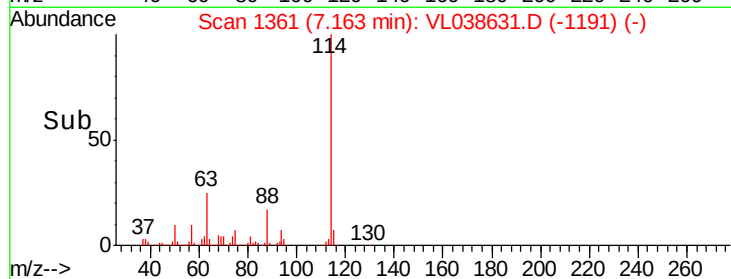
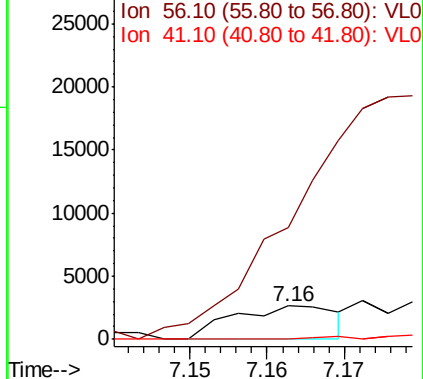


#30
Cvclohexane
Concen: 0.030 ppbv
RT: 7.16
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 17 Mar 2022 18:13

Tot Ion: 84 Resp: 2489
Ion Ratio Lower Upper
84 100
56 0.0 111.4 167.0#
41 0.0 65.5 98.3#

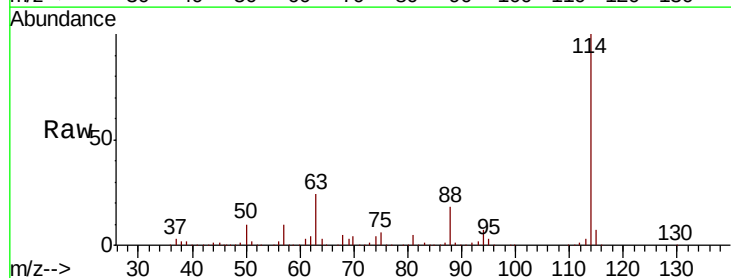


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

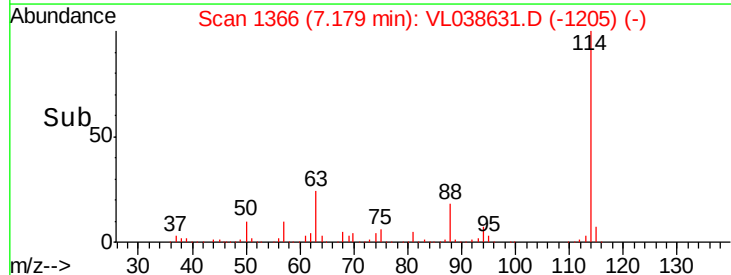
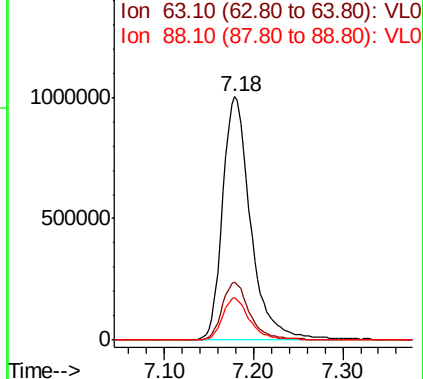


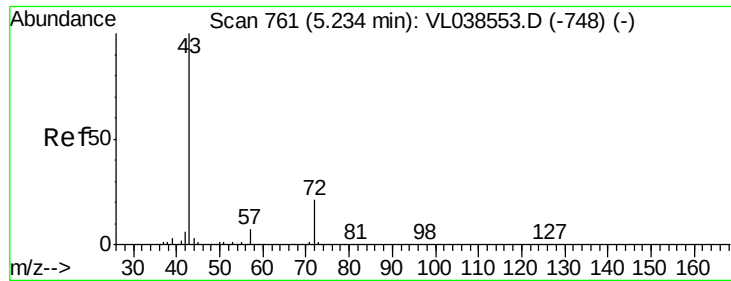
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. 0.02 min
Lab File: VL038631.D
Acq: 17 Mar 2022 18:13

Tgt Ion: 114 Resp: 2191739
Ion Ratio Lower Upper
114 100
63 23.8 19.6 29.4
88 17.2 13.9 20.9



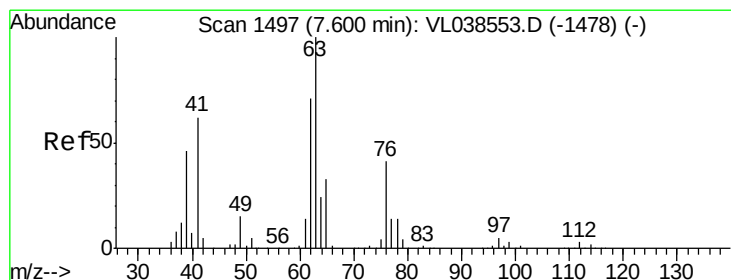
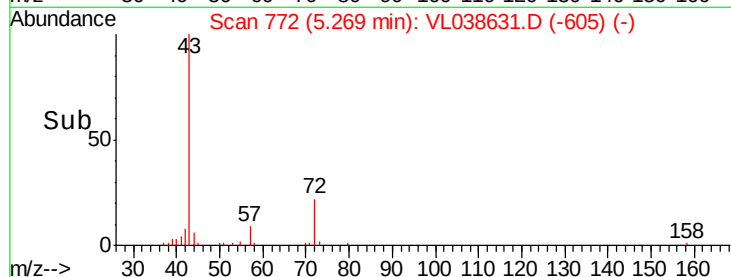
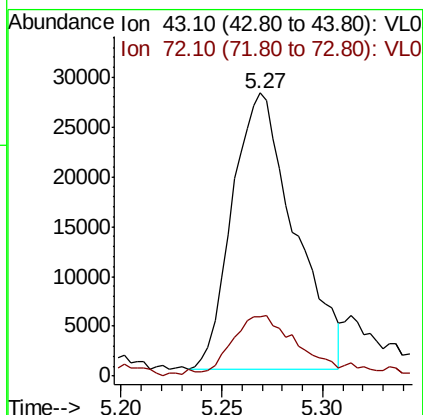
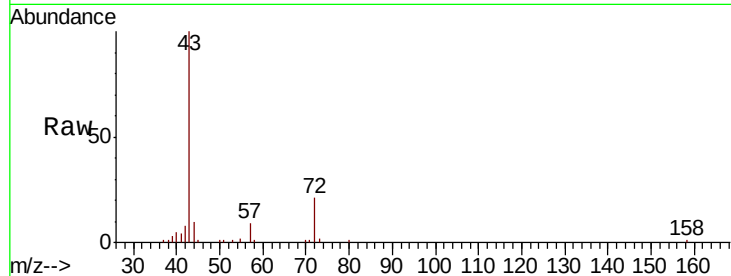
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





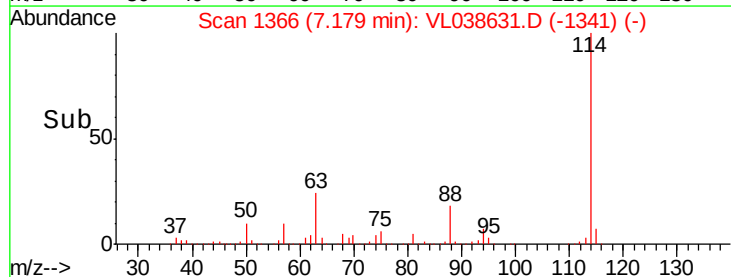
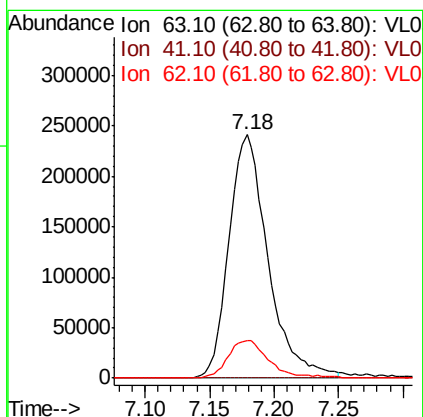
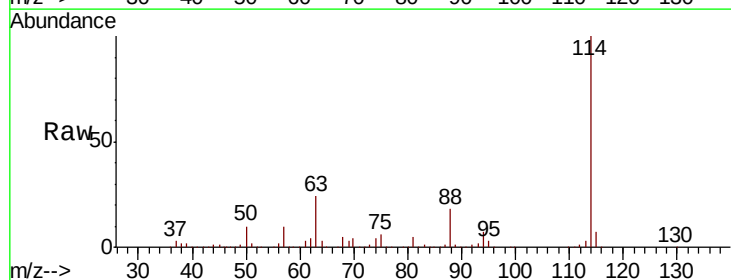
#34
 2-Butanone
 Concen: 1.051 ppbv
 RT: 5.27
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 C0PA9DL
 Acq: 17 Mar 2022 18:13

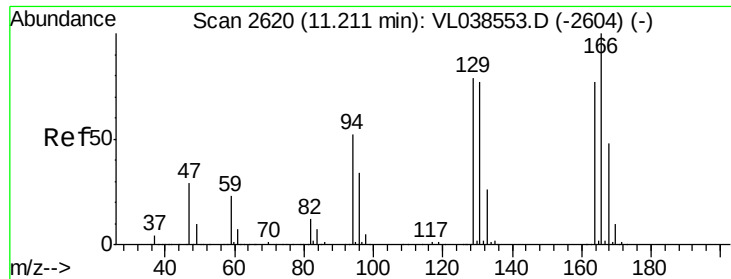
Tot Ion: 43 Resp: 59714
 Ion Ratio Lower Upper
 43 100
 72 27.7 17.8 26.6#



#39
 1,2-Dichloropropane
 Concen: 6.683 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.42 min
 Lab File: VL038631.D
 Acq: 17 Mar 2022 18:13

Tgt Ion: 63 Resp: 508362
 Ion Ratio Lower Upper
 63 100
 41 0.1 49.8 74.6#
 62 15.2 56.7 85.1#





#52

Tetrachloroethene

Concen: 12.165 ppbv

RT: 11.23

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 17 Mar 2022 18:13

Tot Ion:164 Resp: 881857

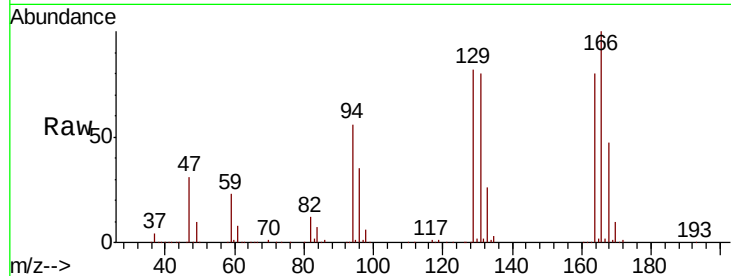
Ion Ratio Lower Upper

164 100

166 124.4 103.4 155.2

129 101.6 81.3 121.9

131 99.7 79.8 119.8

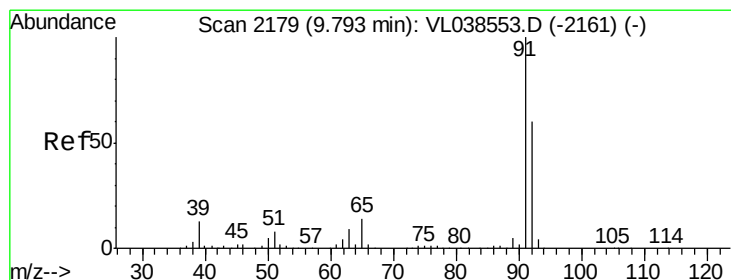
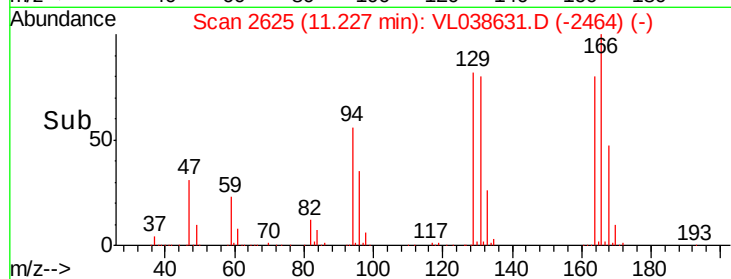
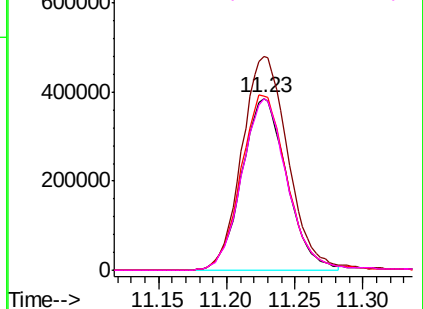


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.135 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. 0.01 min

Lab File: VL038631.D

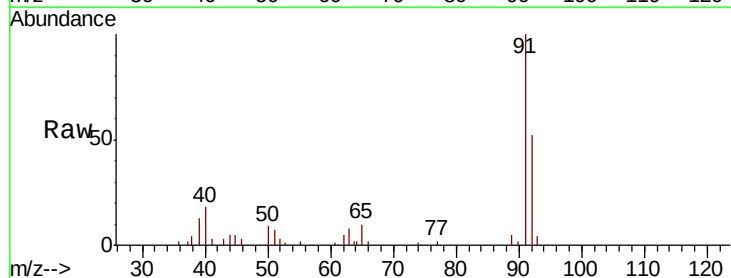
Acq: 17 Mar 2022 18:13

Tgt Ion: 91 Resp: 28568

Ion Ratio Lower Upper

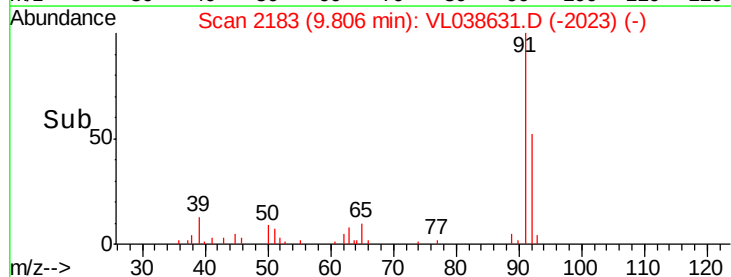
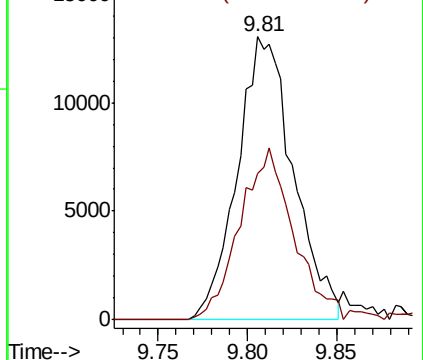
91 100

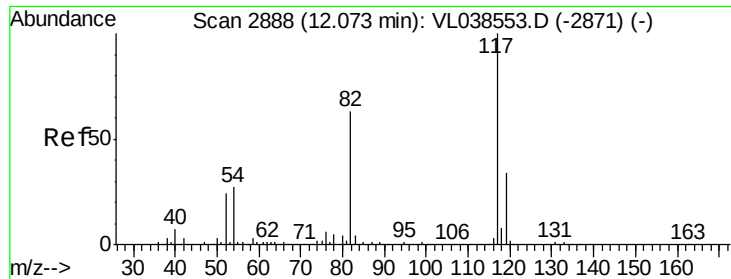
92 59.3 48.1 72.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

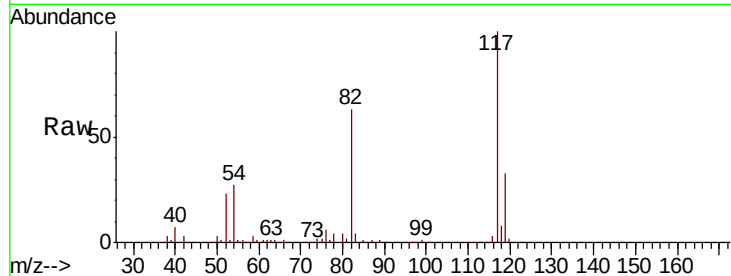
Ion 92.10 (91.80 to 92.80): VL0



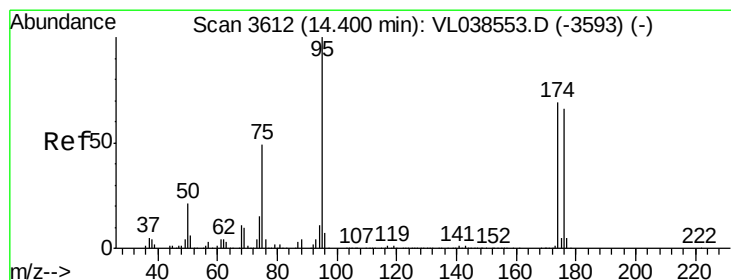
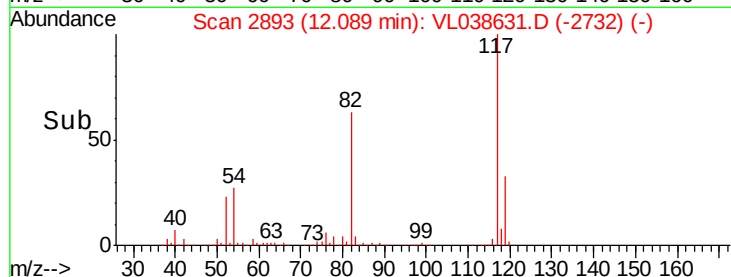
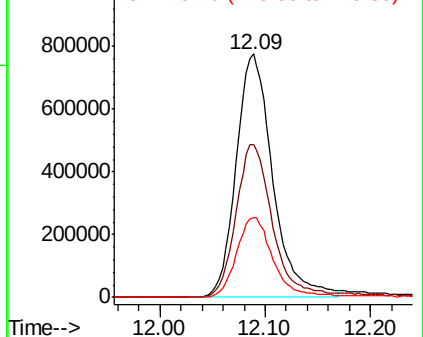


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
COPA9DL
Acq: 17 Mar 2022 18:13

Tot Ion: 117 Resp: 1873298
Ion Ratio Lower Upper
117 100
82 66.4 52.5 78.7
119 34.1 46.4 69.6#

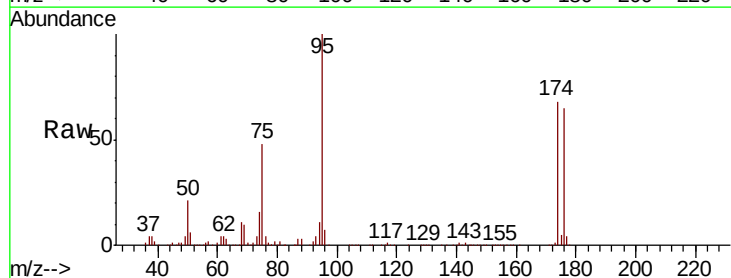


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.314 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. 0.02 min
Lab File: VL038631.D
Acq: 17 Mar 2022 18:13

Tgt Ion: 95 Resp: 1326567
Ion Ratio Lower Upper
95 100
174 72.1 56.2 84.4
175 5.2 4.2 6.2



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

