

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101221\
 Data File : VL037839.D
 Acq On : 12 Oct 2021 21:12
 Operator : SY/AP
 Sample : M4079-08DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 COP20DL

Quant Time: Oct 14 01:06:27 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1304531	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3831471	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3291051	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2223216	9.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.60%

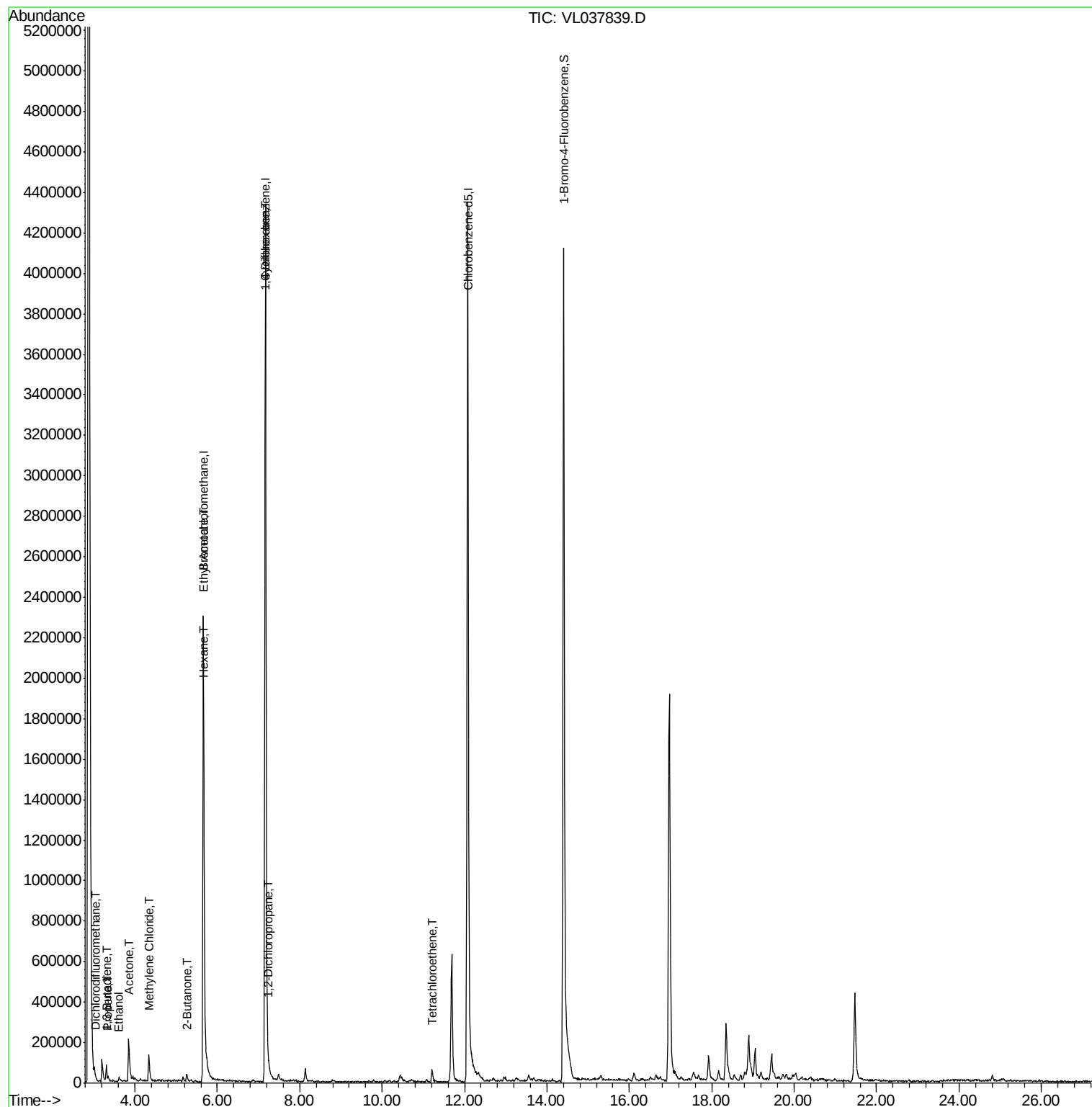
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	6671	0.032	ppbv #	77
9) Propene	3.35	41	3784	0.041	ppbv	92
13) Ethanol	3.62	45	14767	1.958	ppbv	86
15) Acetone	3.85	43	262827	2.244	ppbv	91
16) 1,3-Butadiene	3.34	39	2005	0.024	ppbv #	11
20) Methylene Chloride	4.34	84	46907	0.793	ppbv	97
25) Ethyl Acetate	5.67	43	7869	0.024	ppbv #	75
26) Hexane	5.68	57	27754	0.172	ppbv #	45
30) Cyclohexane	7.15	84	4547	0.033	ppbv #	1
34) 2-Butanone	5.26	43	30351	0.196	ppbv #	56
39) 1,2-Dichloropropane	7.23	63	11832	0.096	ppbv #	18
52) Tetrachloroethene	11.21	164	7970	0.063	ppbv #	61

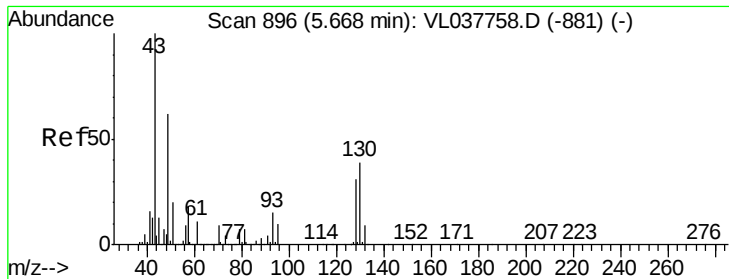
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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C0P20DL

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
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QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: COP20DL

Acq: 12 Oct 2021 21:12

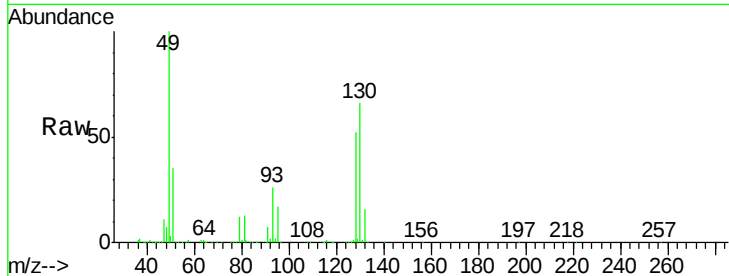
Tgt Ion: 49 Resp: 1304531

Ion Ratio Lower Upper

49 100

128 53.6 27.1 81.3

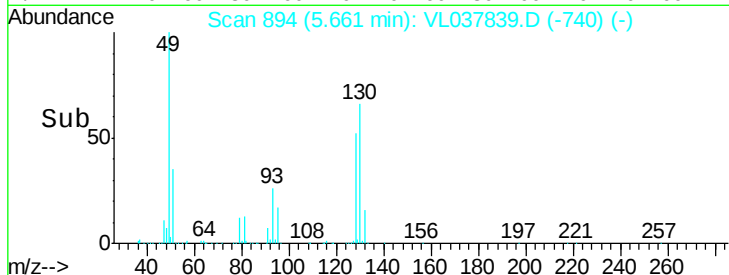
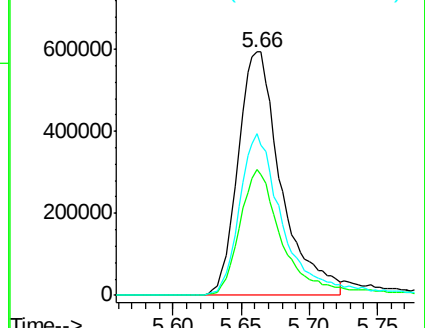
130 70.1 33.2 99.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.032 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL037839.D

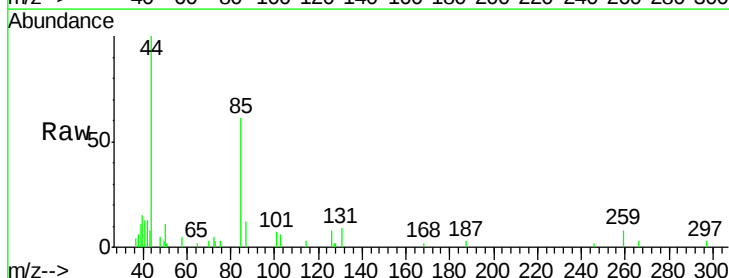
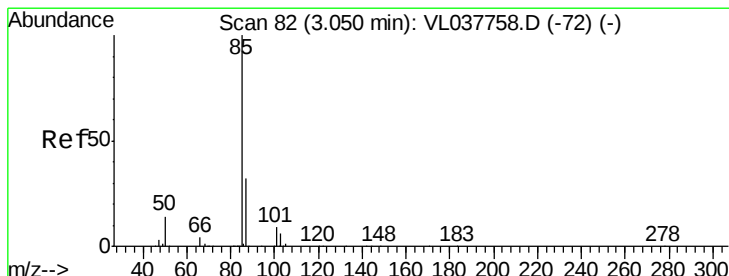
Acq: 12 Oct 2021 21:12

Tgt Ion: 85 Resp: 6671

Ion Ratio Lower Upper

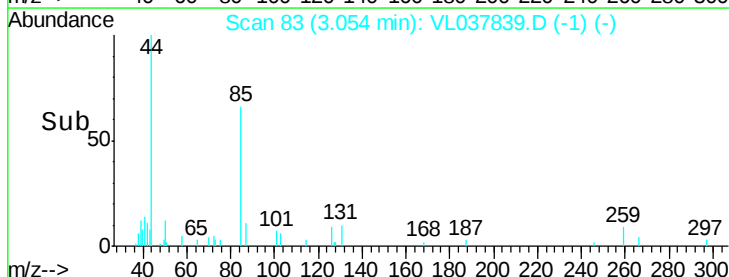
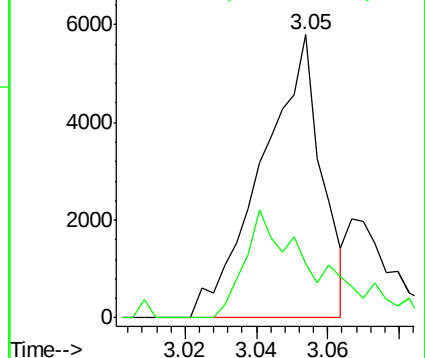
85 100

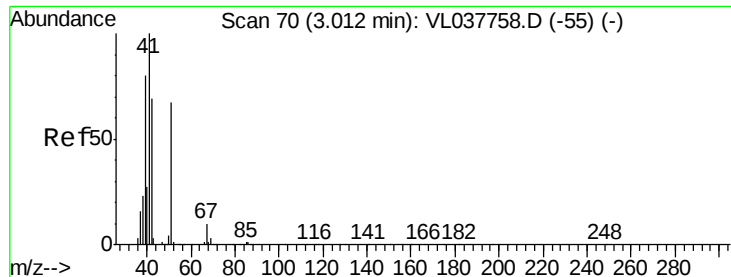
87 19.3 25.7 38.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 0.041 ppbv

RT: 3.35 Instrument: MSVOA_1

Delta R.T. 0.01 min

Lab File: ClientSampleId: COP20DL

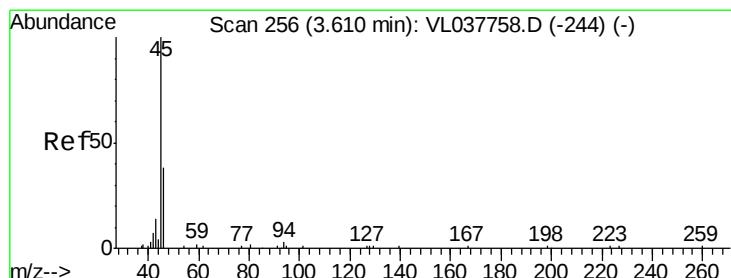
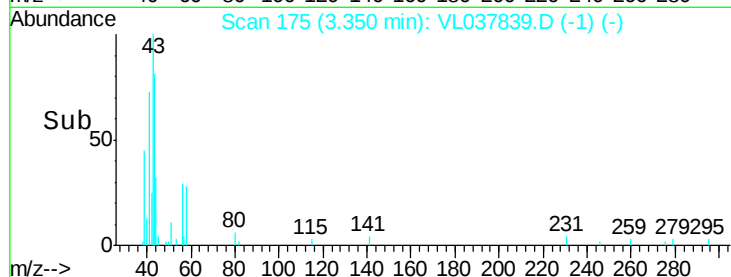
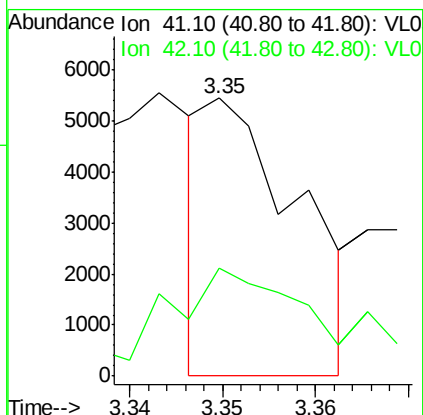
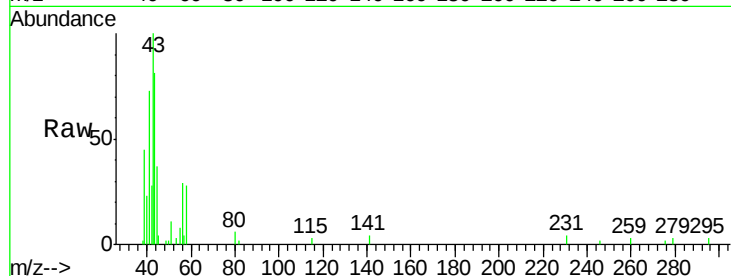
Acq: 12 Oct 2021 21:12

Tgt Ion: 41 Resp: 3784

Ion Ratio Lower Upper

41 100

42 74.3 54.2 81.2



#13

Ethanol

Concen: 1.958 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.01 min

Lab File: VL037839.D

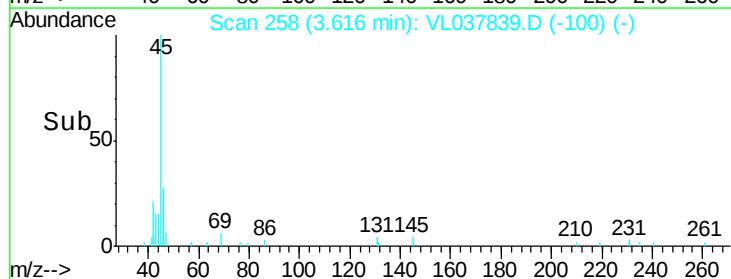
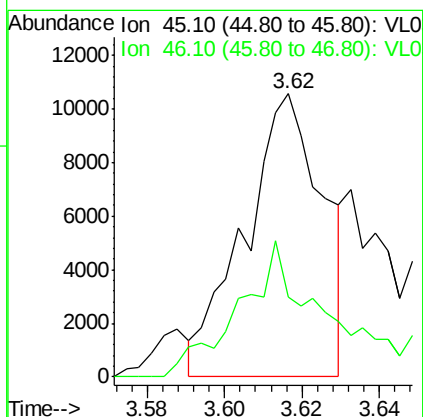
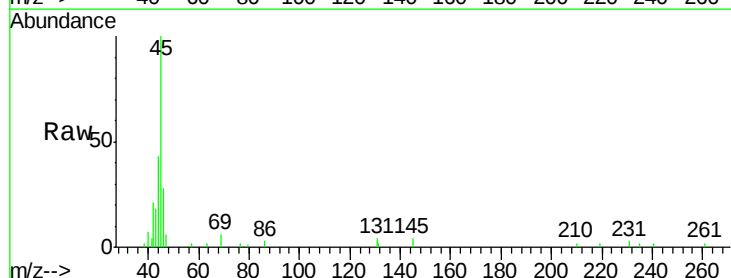
Acq: 12 Oct 2021 21:12

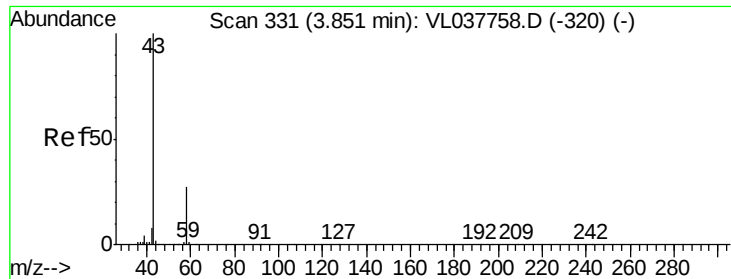
Tgt Ion: 45 Resp: 14767

Ion Ratio Lower Upper

45 100

46 60.4 20.2 81.0





#15

Acetone

Concen: 2.244 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

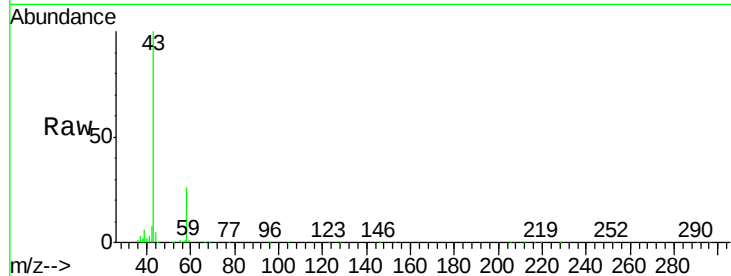
Acq: 12 Oct 2021 21:12 COP20DL

Tgt Ion: 43 Resp: 262827

Ion Ratio Lower Upper

43 100

58 33.5 23.0 34.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.85

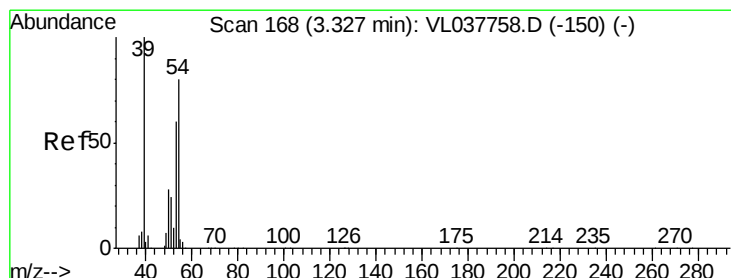
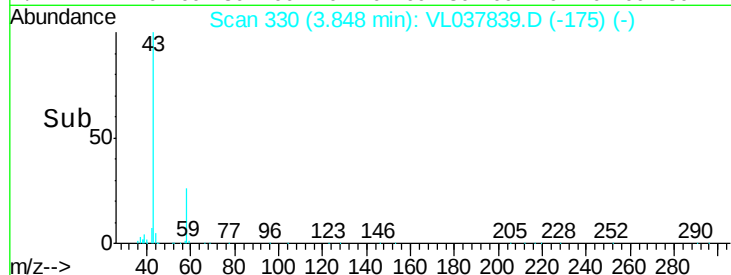
150000

100000

50000

0

Time-->



#16

1,3-Butadiene

Concen: 0.024 ppbv

RT: 3.34 min Scan# 171

Delta R.T. 0.01 min

Lab File: VL037839.D

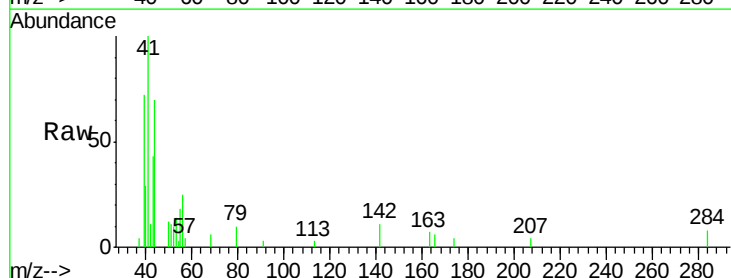
Acq: 12 Oct 2021 21:12

Tgt Ion: 39 Resp: 2005

Ion Ratio Lower Upper

39 100

54 0.0 61.7 92.5#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.34

4000

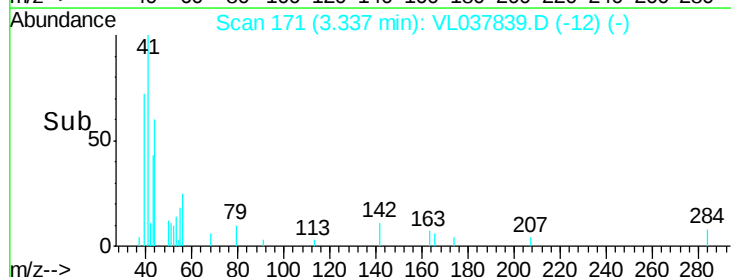
3000

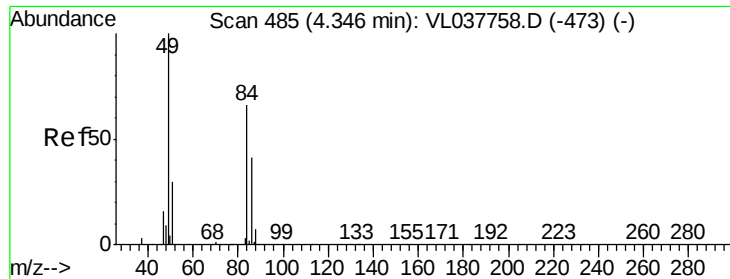
2000

1000

0

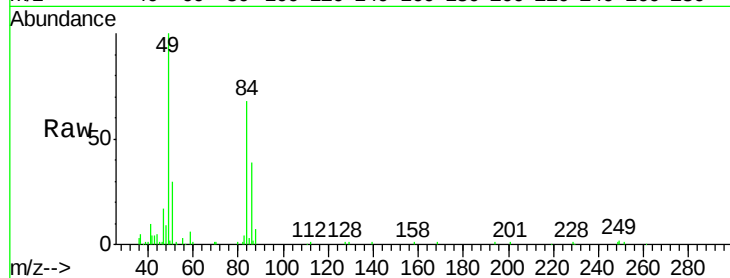
Time-->



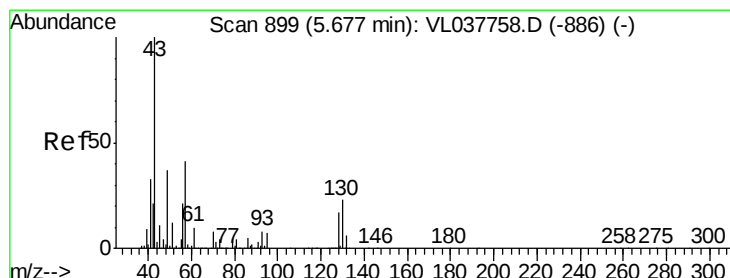
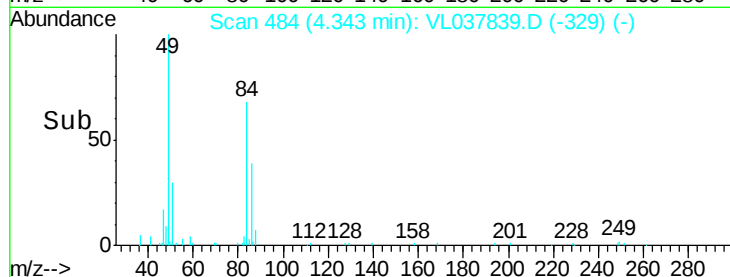
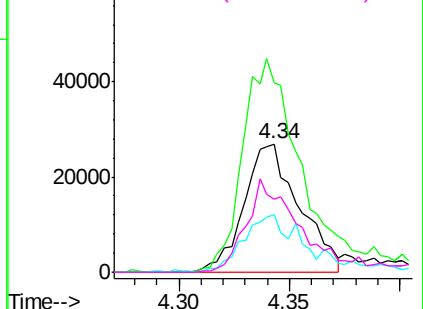


#20
Methylene Chloride
Concen: 0.793 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Oct 2021 21:12

Tgt Ion:	84	Resp:	46907
Ion	Ratio	Lower	Upper
84	100		
49	147.8	120.7	181.1
51	43.7	36.2	54.4
86	57.3	49.6	74.4

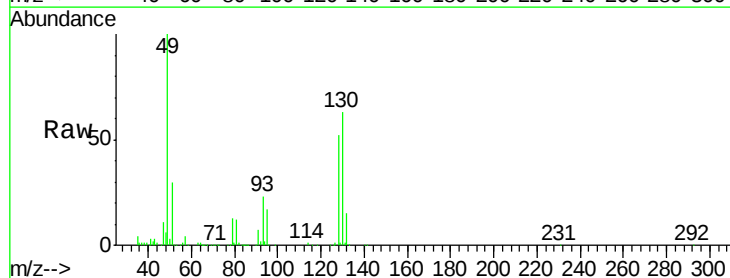


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

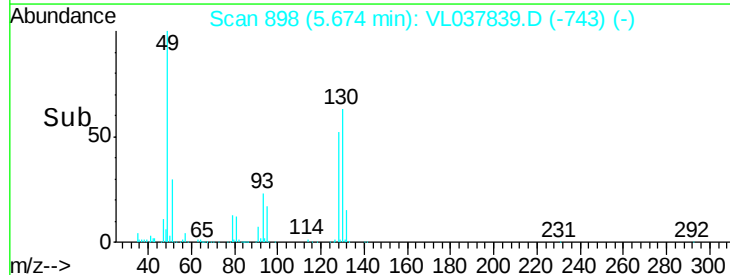
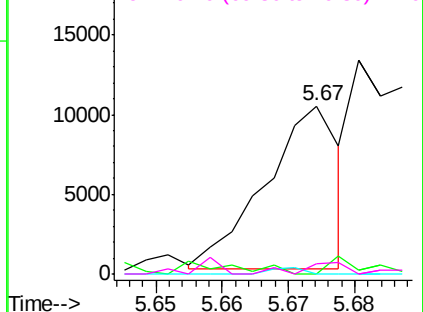


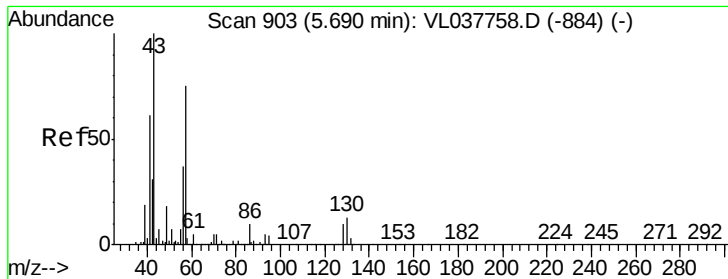
#25
Ethyl Acetate
Concen: 0.024 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL037839.D
Acq: 12 Oct 2021 21:12

Tgt Ion:	43	Resp:	7869
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.1	12.1#
61	0.0	7.5	11.3#
70	0.0	5.9	8.9#



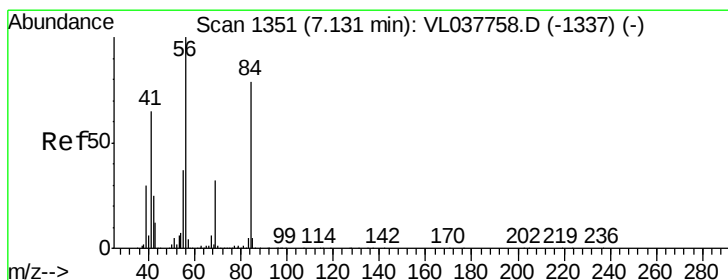
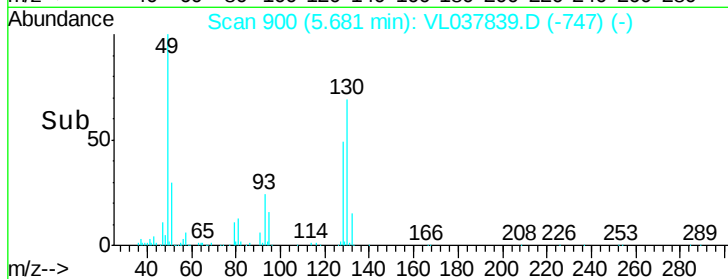
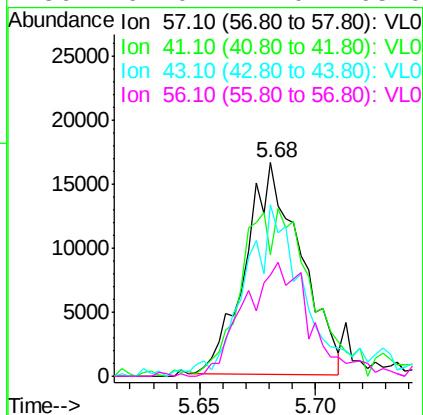
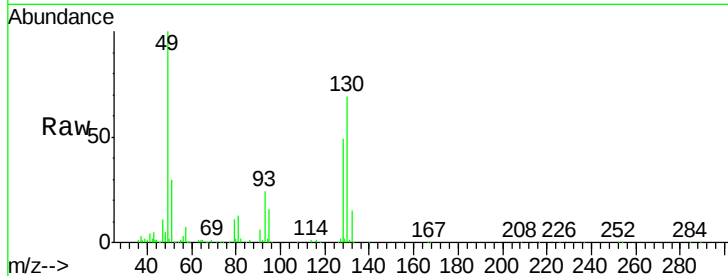
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0





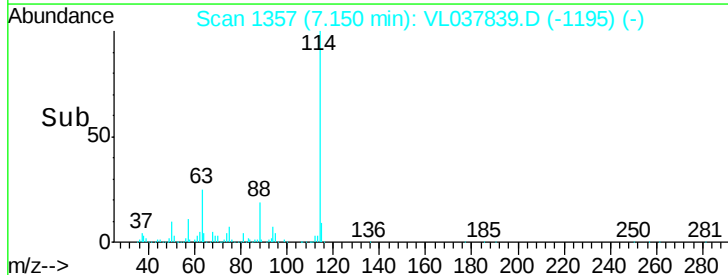
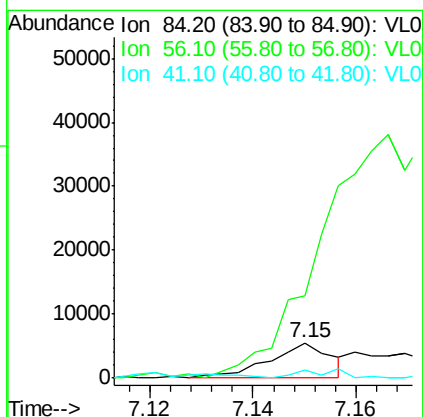
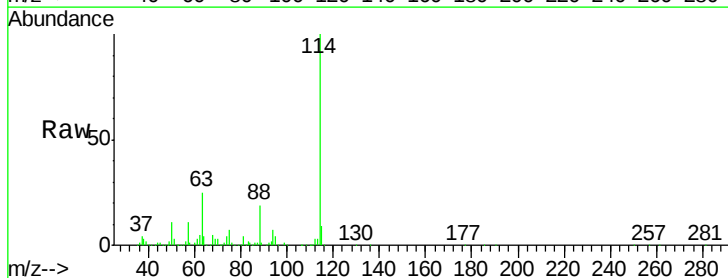
#26
Hexane
Concen: 0.172 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Oct 2021 21:12

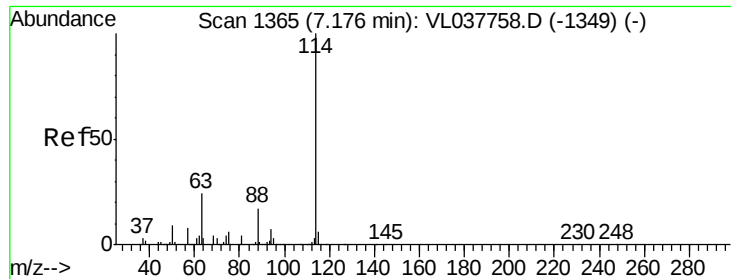
Tgt Ion: 57 Resp: 27754
Ion Ratio Lower Upper
57 100
41 109.0 69.6 104.4#
43 92.8 171.4 257.0#
56 64.0 42.0 63.0#



#30
Cyclohexane
Concen: 0.033 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. 0.02 min
Lab File: VL037839.D
Acq: 12 Oct 2021 21:12

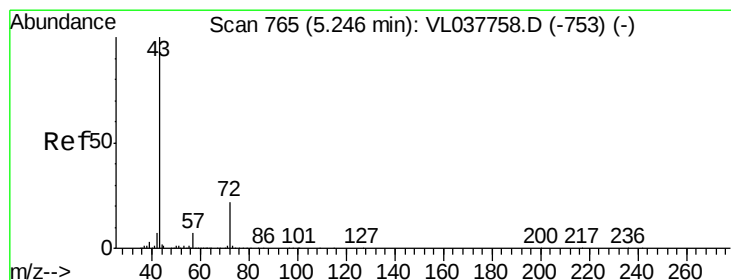
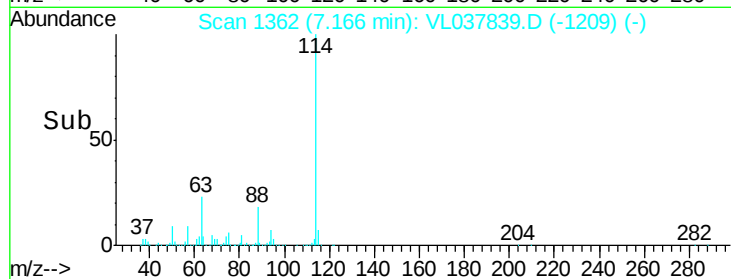
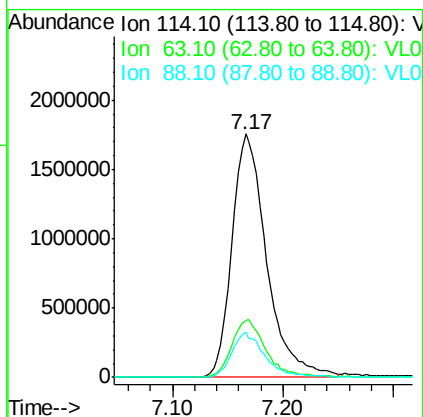
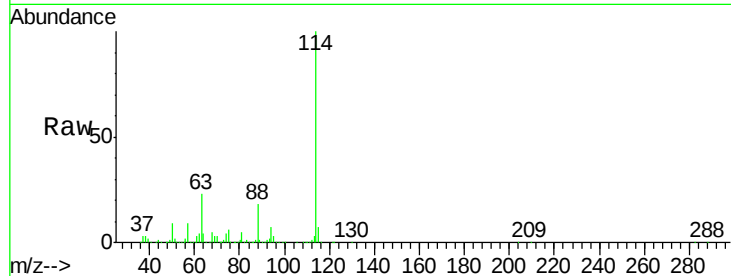
Tgt Ion: 84 Resp: 4547
Ion Ratio Lower Upper
84 100
56 0.0 113.0 169.4#
41 18.0 69.1 103.7#





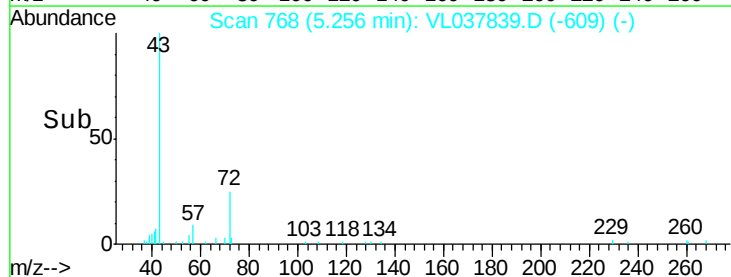
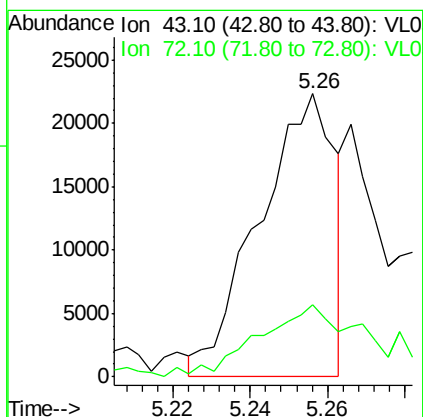
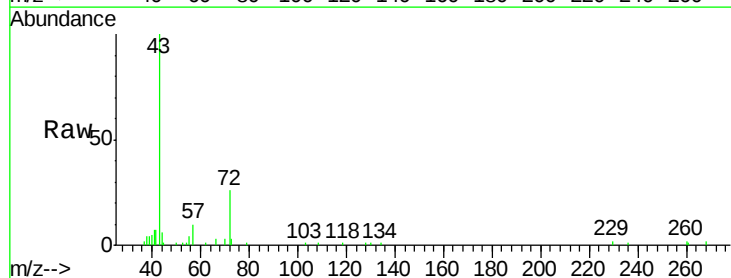
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 12 Oct 2021 21:12

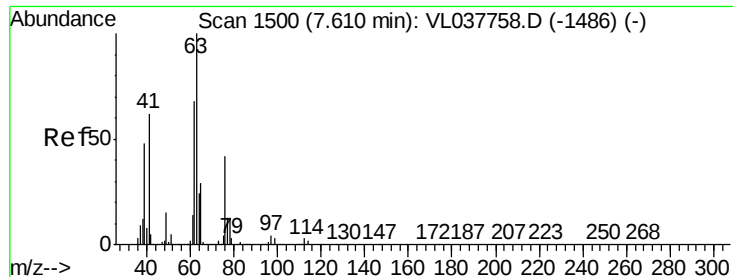
Tgt Ion: 114 Resp: 3831471
 Ion Ratio Lower Upper
 114 100
 63 23.5 19.4 29.2
 88 17.9 14.4 21.6



#34
 2-Butanone
 Concen: 0.196 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.01 min
 Lab File: VL037839.D
 Acq: 12 Oct 2021 21:12

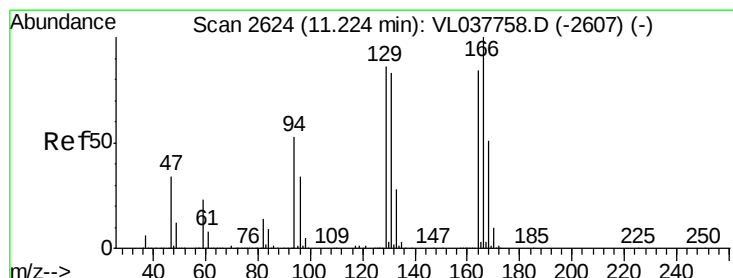
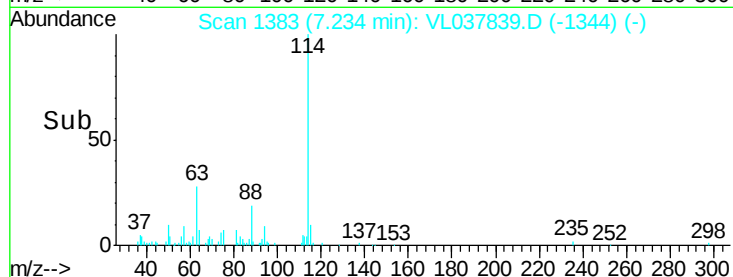
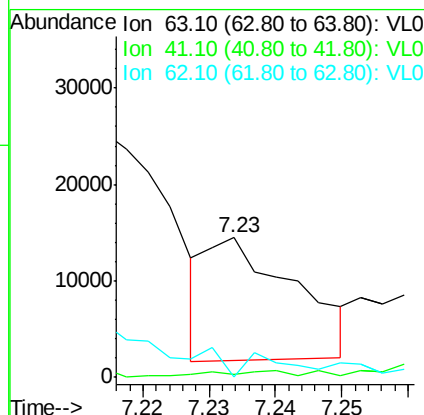
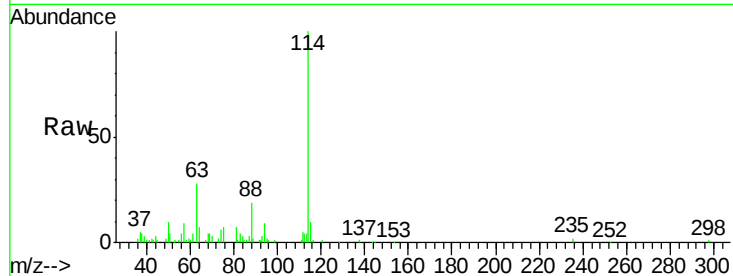
Tgt Ion: 43 Resp: 30351
 Ion Ratio Lower Upper
 43 100
 72 43.9 18.2 27.2#





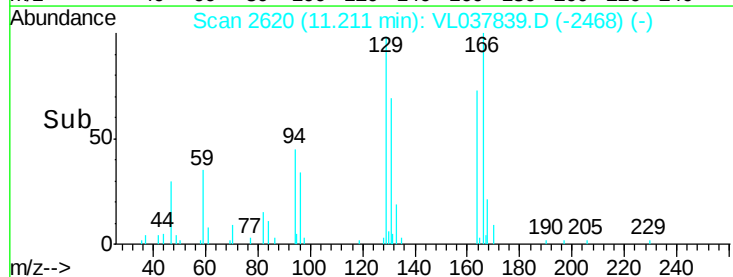
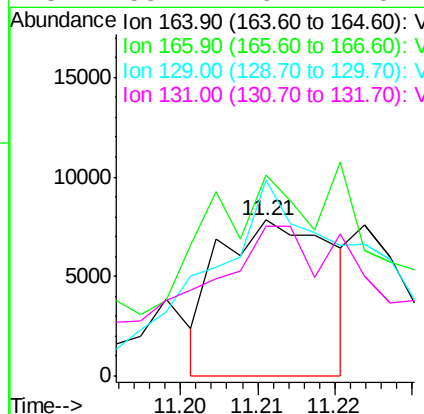
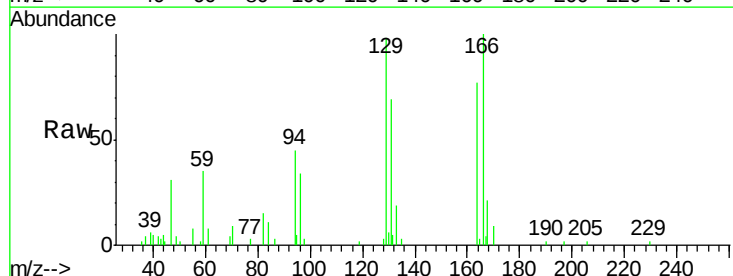
#39
 1,2-Dichloropropane
 Concen: 0.096 ppbv
 RT: 7.23
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 12 Oct 2021 21:12

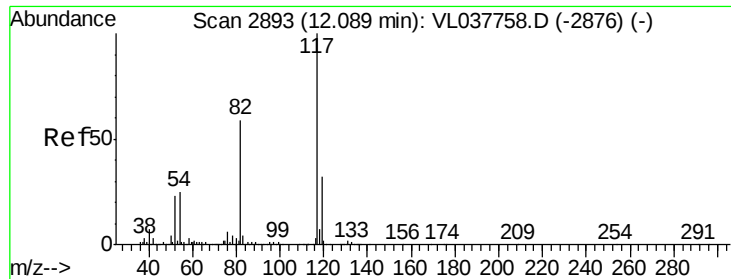
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.5	49.8	74.6#
62	0.0	54.6	82.0#



#52
 Tetrachloroethene
 Concen: 0.063 ppbv
 RT: 11.21 min Scan# 2620
 Delta R.T. -0.01 min
 Lab File: VL037839.D
 Acq: 12 Oct 2021 21:12

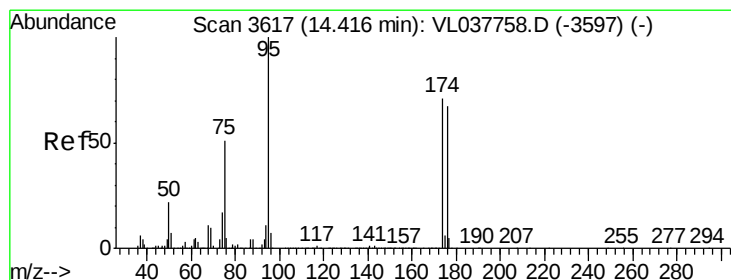
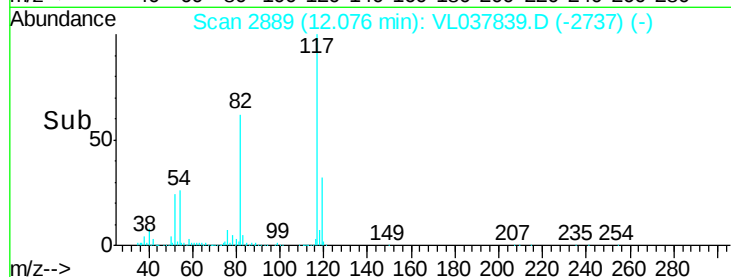
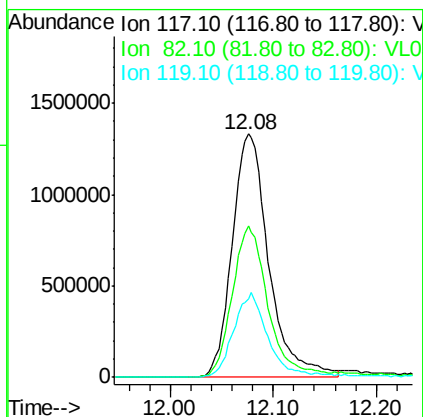
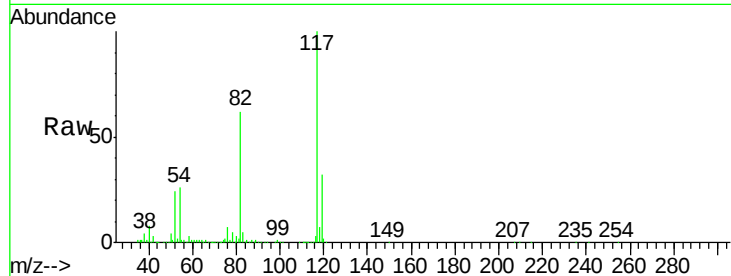
Tgt Ion	Ratio	Lower	Upper
164	100		
166	61.9	95.4	143.2#
129	83.8	82.2	123.4
131	55.4	79.4	119.2#





#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.08 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 C0P20DL
 Acq: 12 Oct 2021 21:12

Tgt Ion: 117 Resp: 3291051
 Ion Ratio Lower Upper
 117 100
 82 64.1 52.2 78.2
 119 33.6 26.0 39.0



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.660 ppbv
 RT: 14.41 min Scan# 3614
 Delta R.T.: -0.01 min
 Lab File: VL037839.D
 Acq: 12 Oct 2021 21:12

Tgt Ion: 95 Resp: 2223216
 Ion Ratio Lower Upper
 95 100
 174 77.4 57.8 86.6
 175 5.5 4.7 7.1

