

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040722\
 Data File : VL038864.D
 Acq On : 8 Apr 2022 7:54
 Operator : SY/AP
 Sample : QC040722 CAN 10294
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC040722 CAN 10294

Quant Time: Apr 11 01:10:47 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
 QLast Update : Wed Apr 06 06:12:53 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	990641	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.20	114	2878704	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.11	117	2460192	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1893475	10.15	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

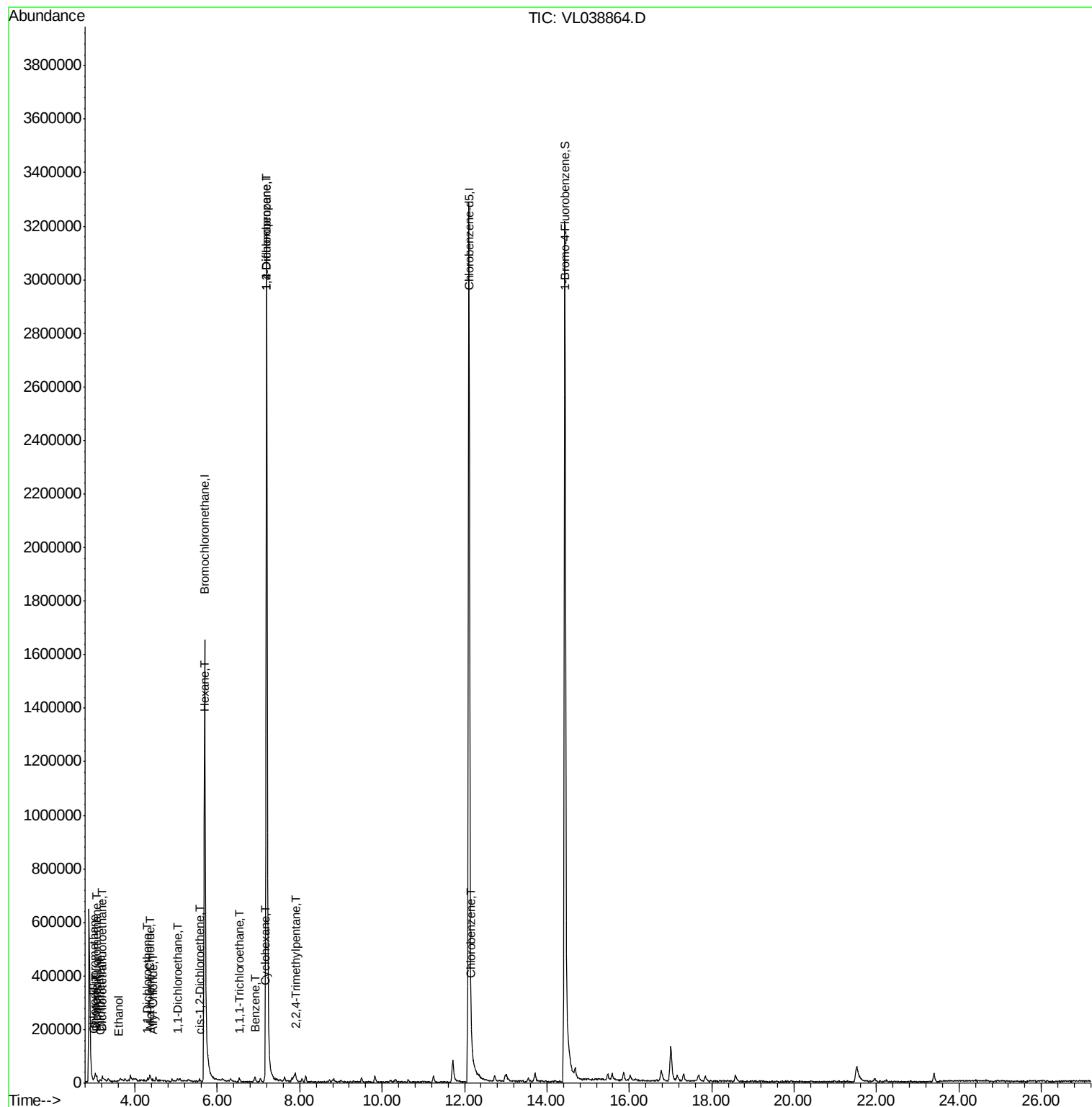
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	8214	0.058	ppbv #	85
3) Chlorodifluoromethane	3.00	51	8960	0.074	ppbv #	89
4) Chloromethane	3.16	50	4404	0.070	ppbv #	58
8) Dichlorotetrafluoroethane	3.21	85	7146	0.054	ppbv #	81
9) Propene	3.04	41	6307	0.099	ppbv #	51
13) Ethanol	3.61	45	377	0.097	ppbv #	100
18) 1,1-Dichloroethene	4.30	96	1187	0.030	ppbv #	59
20) Methylene Chloride	4.36	84	3470	0.097	ppbv #	85
21) Allyl Chloride	4.43	41	3339	0.045	ppbv #	47
24) 1,1-Dichloroethane	5.03	63	3641	0.042	ppbv #	89
26) Hexane	5.71	57	9671	0.085	ppbv	85
30) Cyclohexane	7.16	84	3761	0.037	ppbv #	1
31) cis-1,2-Dichloroethene	5.56	61	3738	0.036	ppbv #	62
32) 1,1,1-Trichloroethane	6.54	97	4889	0.030	ppbv #	32
36) Benzene	6.91	78	10819	0.041	ppbv #	93
39) 1,2-Dichloropropane	7.19	63	684196	6.831	ppbv #	27
44) 2,2,4-Trimethylpentane	7.89	57	17059	0.038	ppbv #	63
57) Chlorobenzene	12.17	112	6132	0.030	ppbv #	67

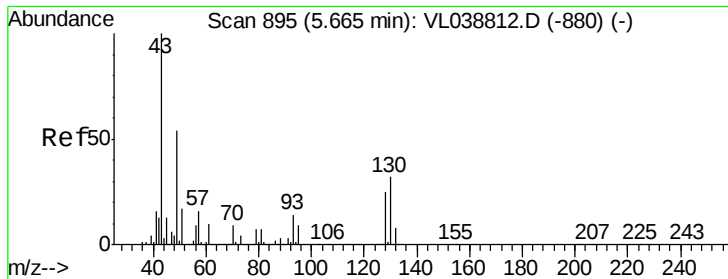
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040722\
Data File : VL038864.D
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC040722 CAN 10294

Quant Time: Apr 11 01:10:47 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
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QLast Update : Wed Apr 06 06:12:53 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 8 Apr 2022 7:54

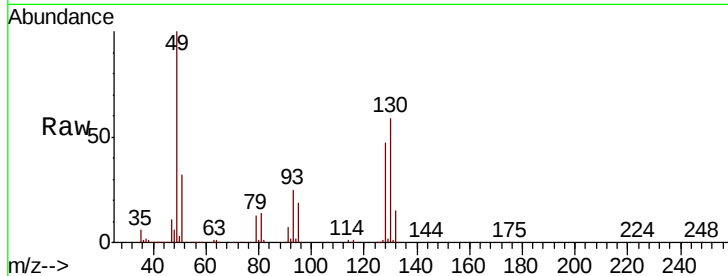
Tot Ion: 49 Resp: 990641

Ion Ratio Lower Upper

49 100

128 50.2 24.1 72.3

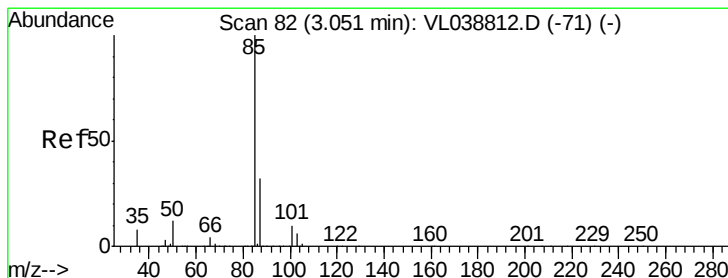
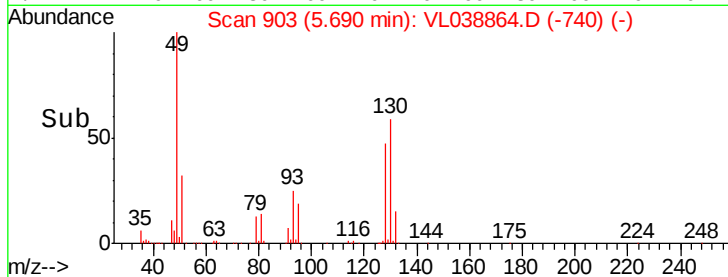
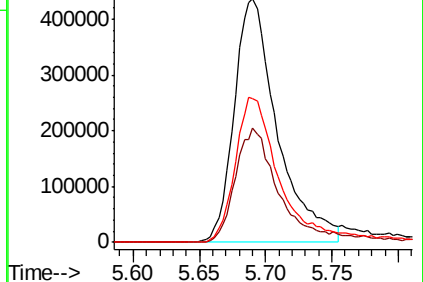
130 62.9 30.9 92.8



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: 0.058 ppbv

RT: 3.07 min Scan# 88

Delta R.T. 0.02 min

Lab File: VL038864.D

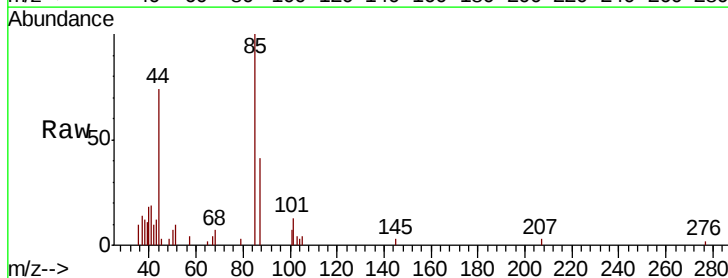
Acq: 8 Apr 2022 7:54

Tgt Ion: 85 Resp: 8214

Ion Ratio Lower Upper

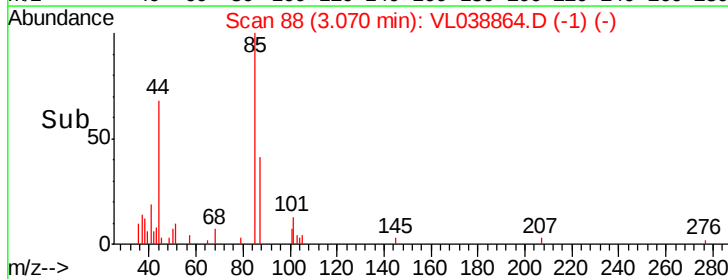
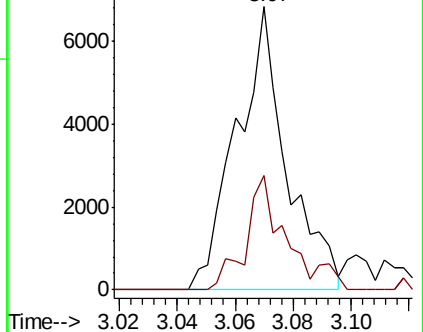
85 100

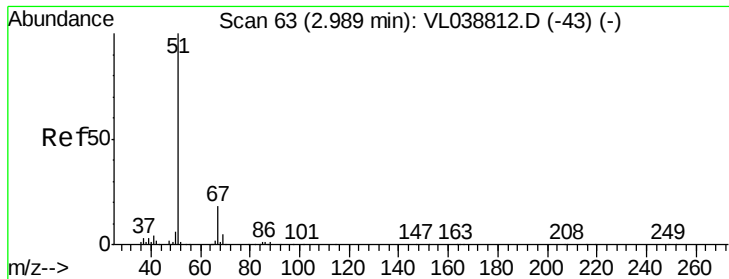
87 40.5 25.9 38.9#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.074 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

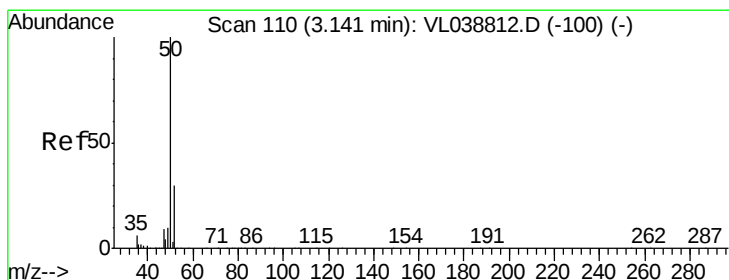
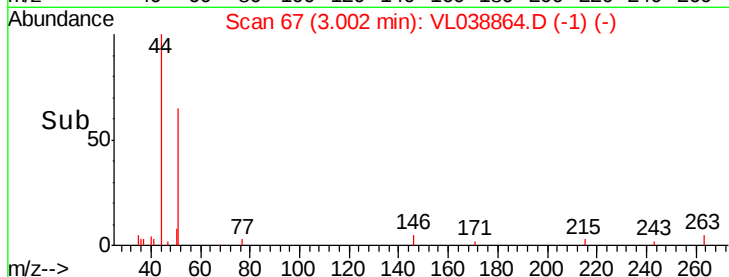
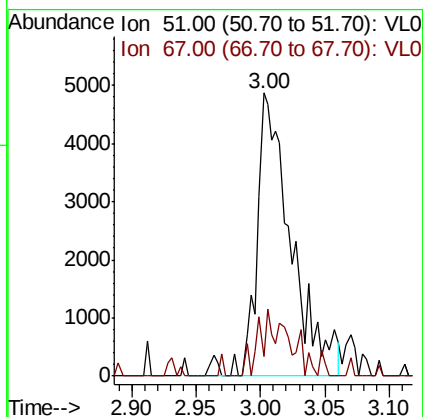
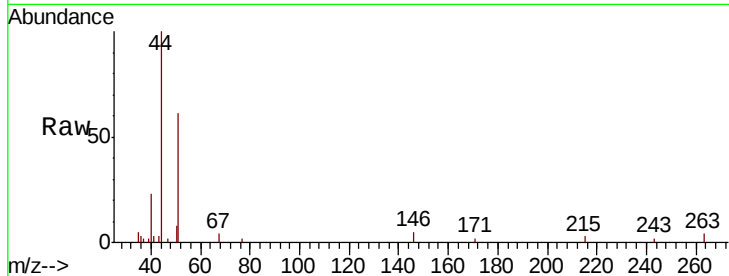
Acq: 8 Apr 2022 7:54

Tot Ion: 51 Resp: 8960

Ion Ratio Lower Upper

51 100

67 21.6 13.4 20.0#



#4

Chloromethane

Concen: 0.070 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.02 min

Lab File: VL038864.D

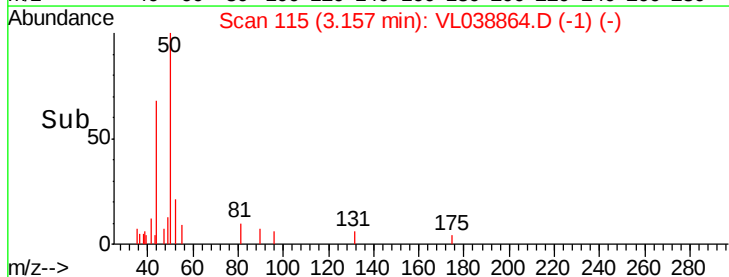
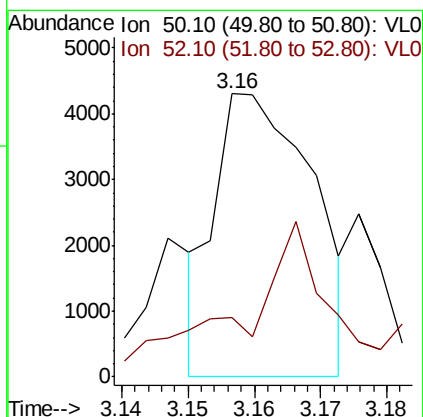
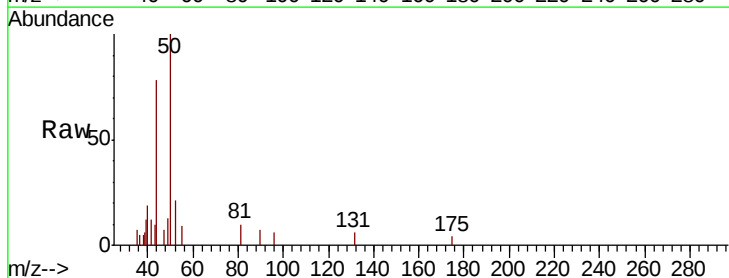
Acq: 8 Apr 2022 7:54

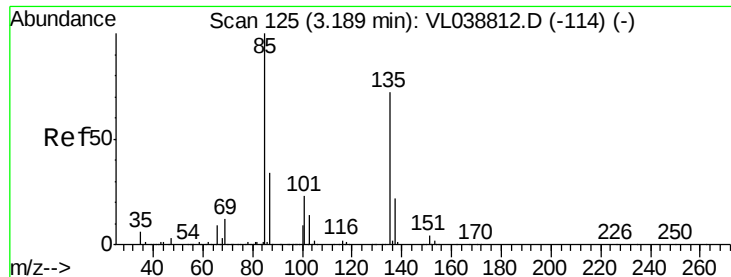
Tgt Ion: 50 Resp: 4404

Ion Ratio Lower Upper

50 100

52 7.6 24.3 36.5#





#8

Dichlorotetrafluoroethane

Concen: 0.054 ppbv

RT: 3.21 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

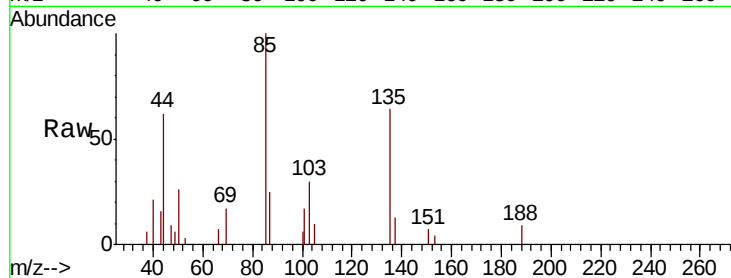
Acq: 8 Apr 2022 7:54 QC040722 CAN 10294

Tot Ion: 85 Resp: 7146

Ion Ratio Lower Upper

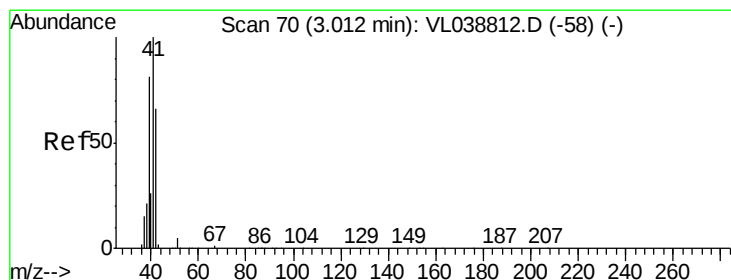
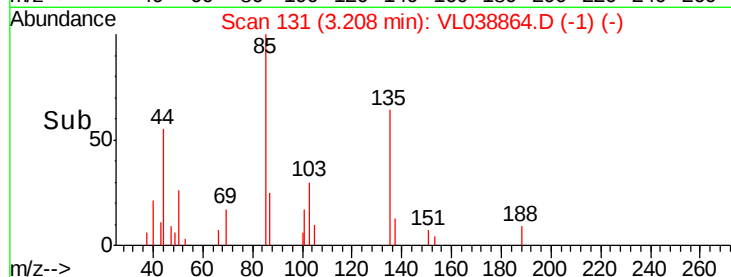
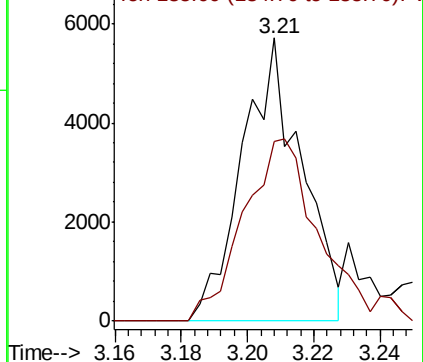
85 100

135 87.1 57.0 85.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0



#9

Propene

Concen: 0.099 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.03 min

Lab File: VL038864.D

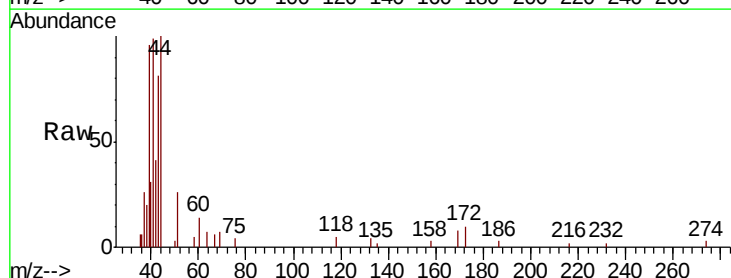
Acq: 8 Apr 2022 7:54

Tgt Ion: 41 Resp: 6307

Ion Ratio Lower Upper

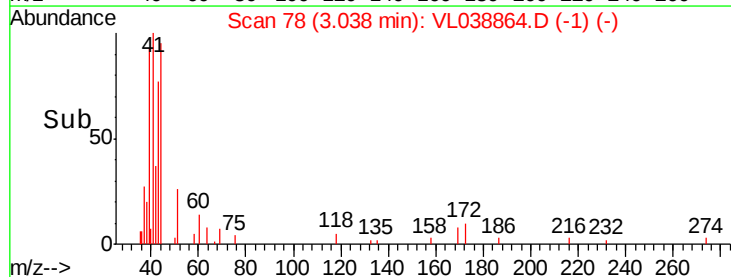
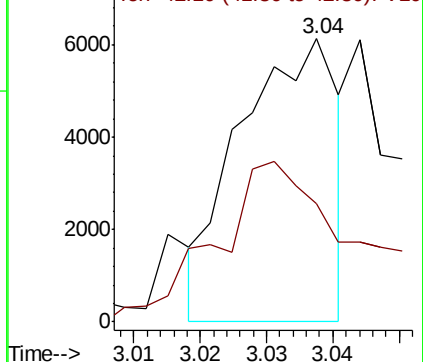
41 100

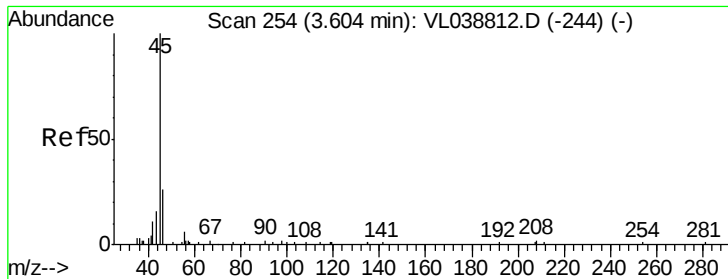
42 107.2 54.2 81.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

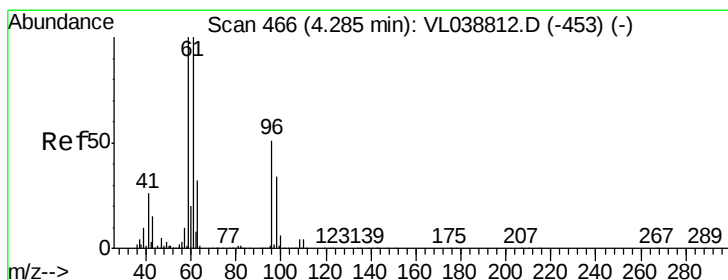
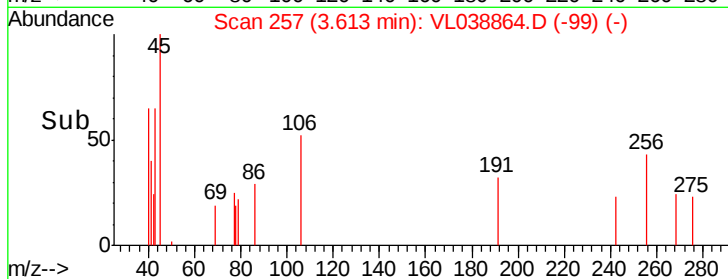
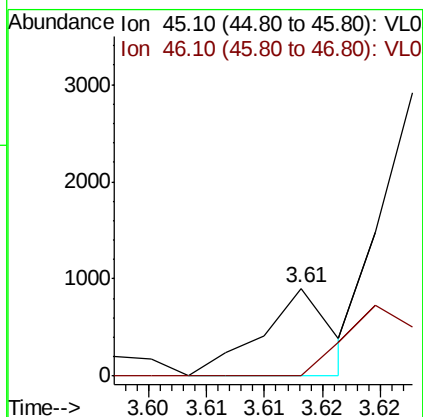
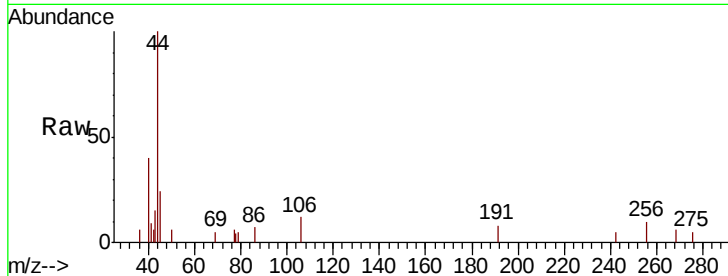
Ion 42.10 (41.80 to 42.80): VL0





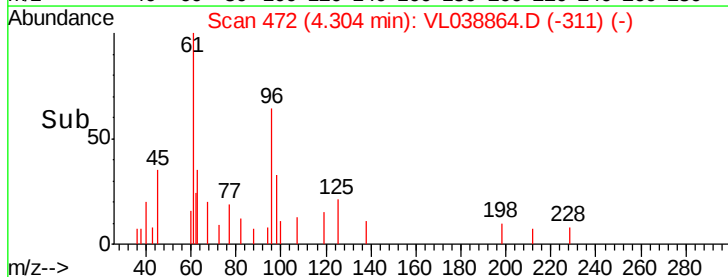
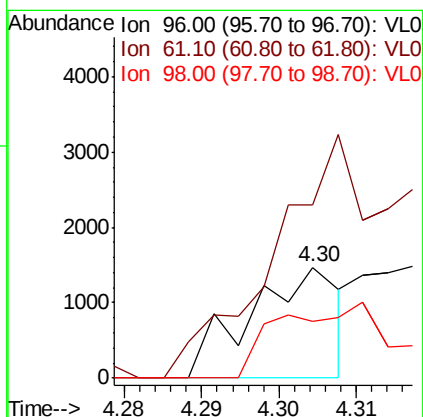
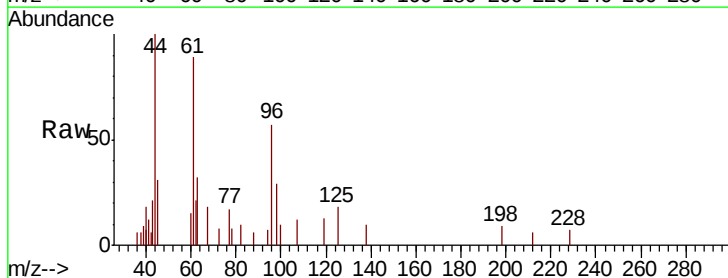
#13
Ethanol
Concen: 0.097 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 8 Apr 2022 7:54

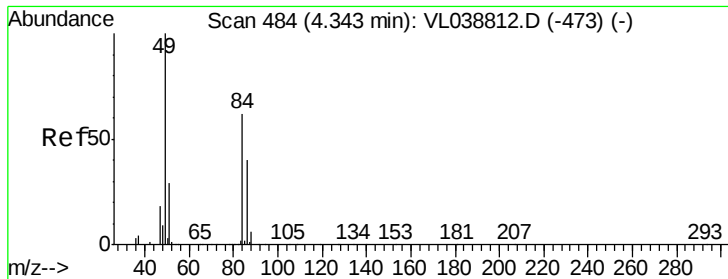
Tot Ion: 45 Resp: 377
Ion Ratio Lower Upper
45 100
46 0.0 0.0 0.0



#18
1,1-Dichloroethene
Concen: 0.030 ppbv
RT: 4.30 min Scan# 472
Delta R.T. 0.02 min
Lab File: VL038864.D
Acq: 8 Apr 2022 7:54

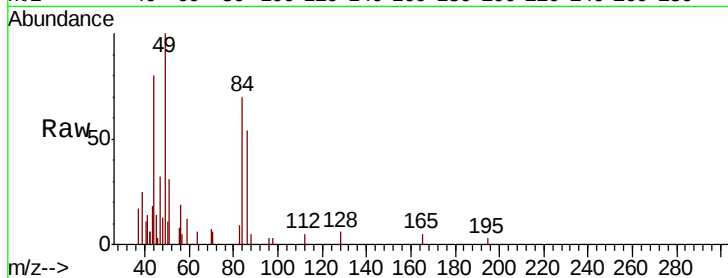
Tgt Ion: 96 Resp: 1187
Ion Ratio Lower Upper
96 100
61 123.6 156.1 234.1#
98 50.8 53.0 79.6#



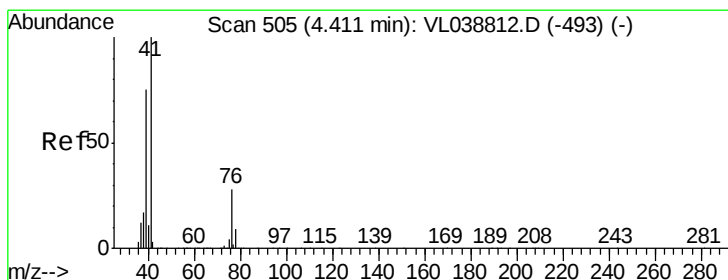
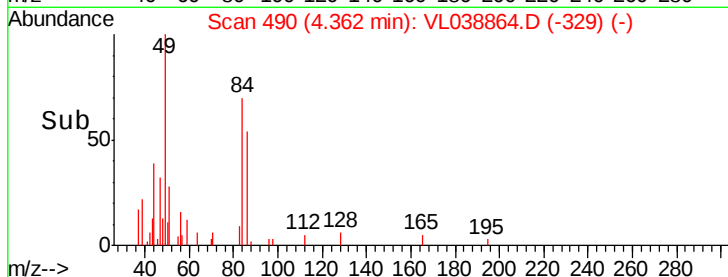
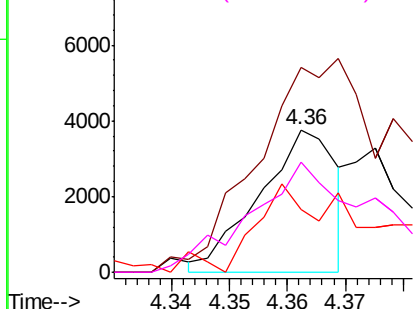


#20
Methylene Chloride
Concen: 0.097 ppbv
RT: 4.36
Instrument: MSVOA_1
Delta R.T.
Lab File: ClientSampleId :
Acq: 8 Apr 2022 7:54

Tot Ion: 84 Resp: 3470
Ion Ratio Lower Upper
84 100
49 144.8 129.4 194.0
51 26.4 37.4 56.2#
86 70.0 51.4 77.2

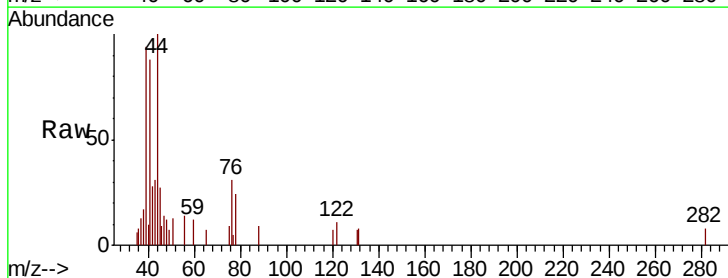


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

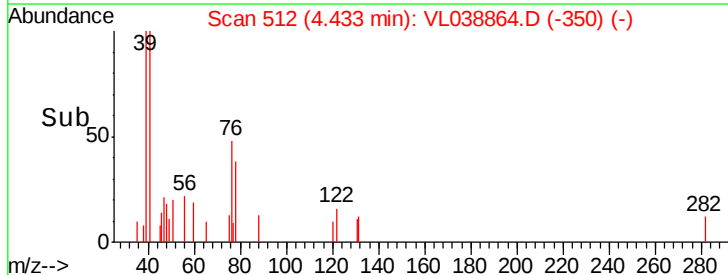
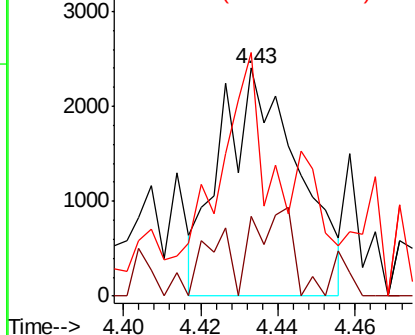


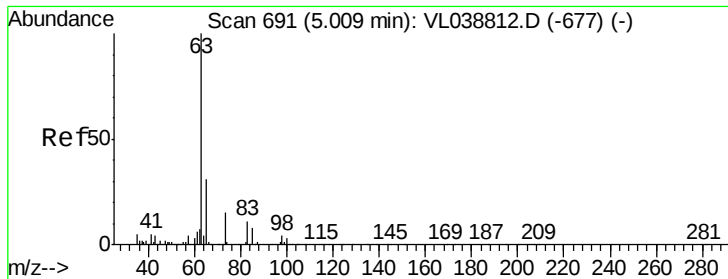
#21
Allyl Chloride
Concen: 0.045 ppbv
RT: 4.43 min Scan# 512
Delta R.T. 0.02 min
Lab File: VL038864.D
Acq: 8 Apr 2022 7:54

Tgt Ion: 41 Resp: 3339
Ion Ratio Lower Upper
41 100
76 40.0 23.7 35.5#
39 134.4 62.0 93.0#



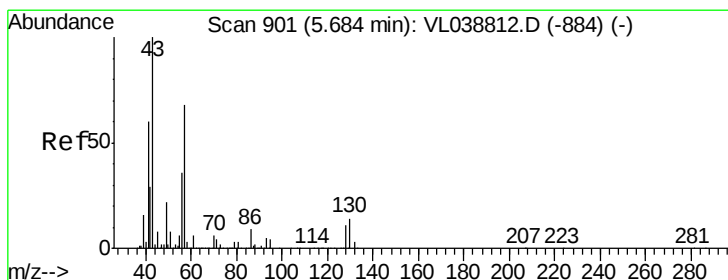
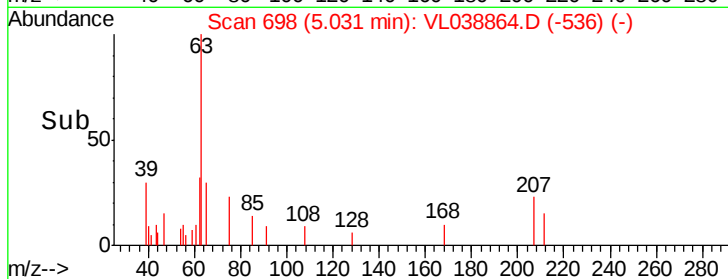
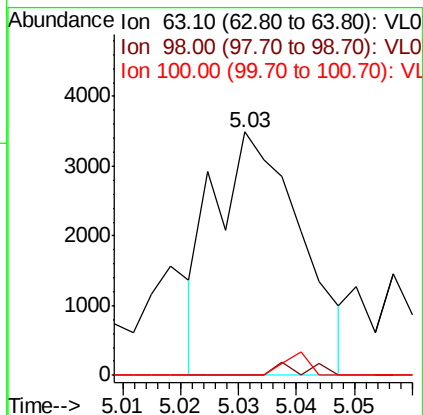
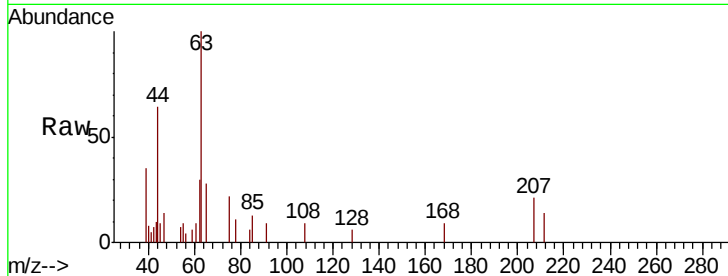
Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





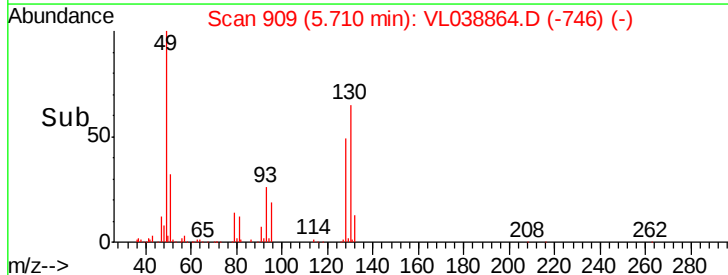
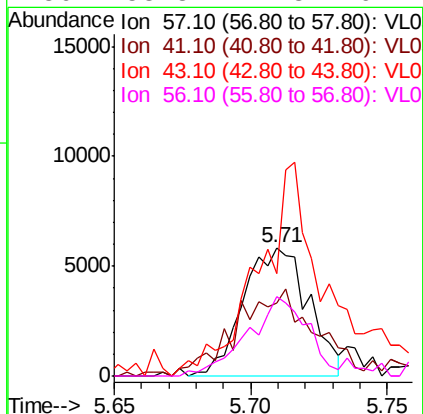
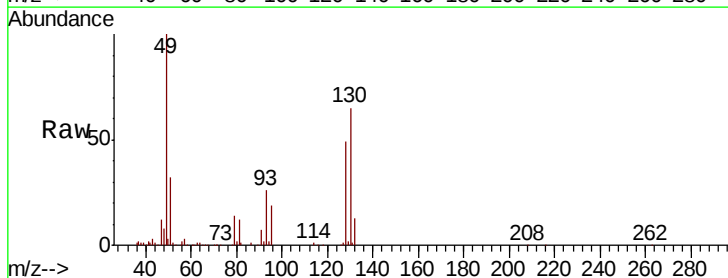
#24
 1,1-Dichloroethane
 Concen: 0.042 ppbv
 RT: 5.03
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 QC040722 CAN 10294
 Acq: 8 Apr 2022 7:54

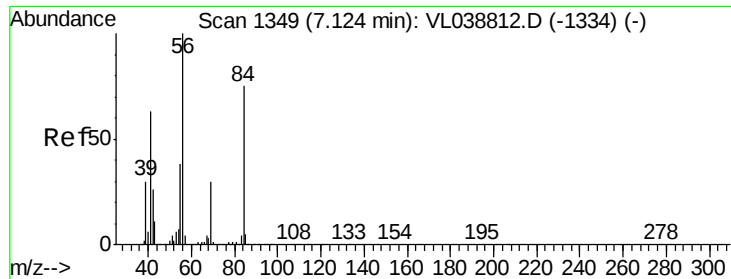
Tot Ion:	63	Resp:	3641
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.2	6.6#
100	0.0	1.4	4.0#



#26
 Hexane
 Concen: 0.085 ppbv
 RT: 5.71 min Scan# 909
 Delta R.T. 0.03 min
 Lab File: VL038864.D
 Acq: 8 Apr 2022 7:54

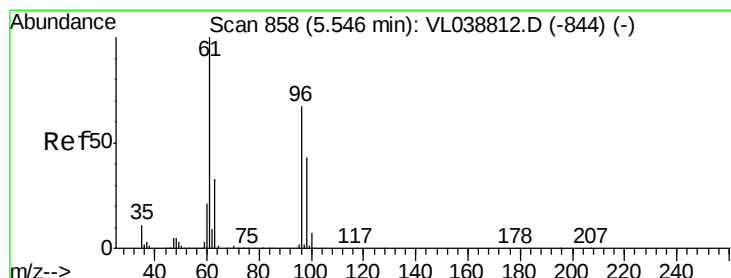
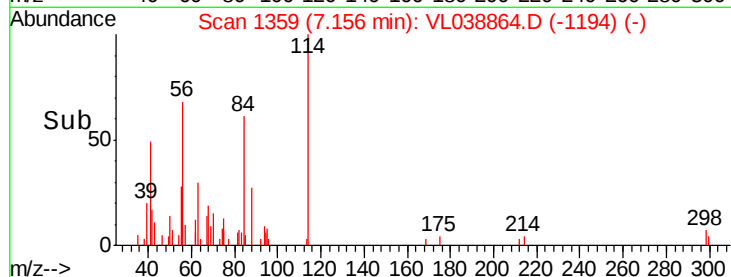
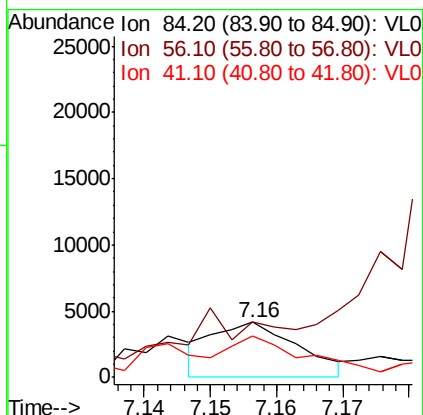
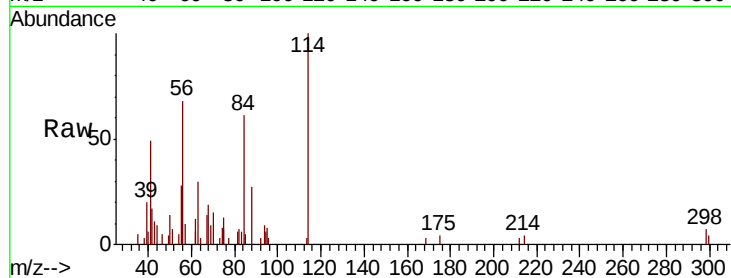
Tgt Ion:	57	Resp:	9671
Ion	Ratio	Lower	Upper
57	100		
41	84.0	72.0	108.0
43	200.8	186.6	280.0
56	58.8	42.8	64.2





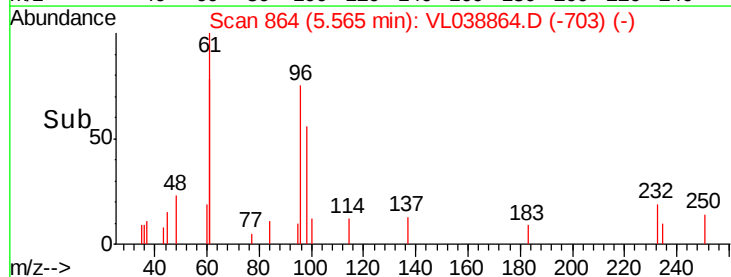
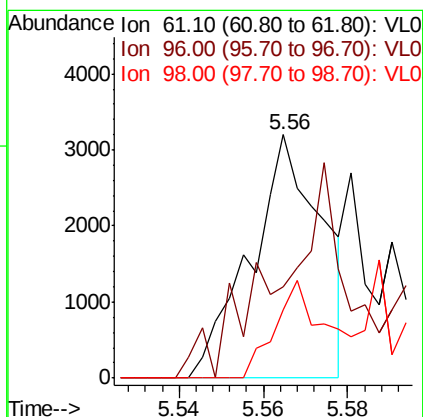
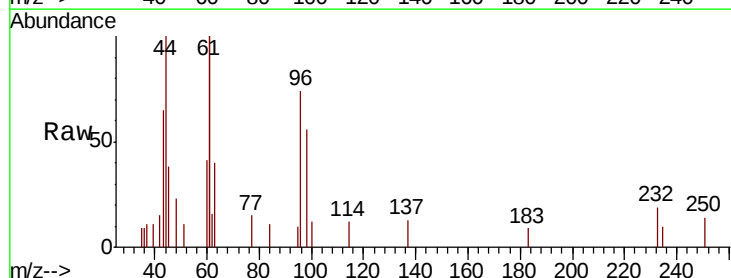
#30
Cvclohexane
Concen: 0.037 ppbv
RT: 7.16
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 8 Apr 2022 7:54

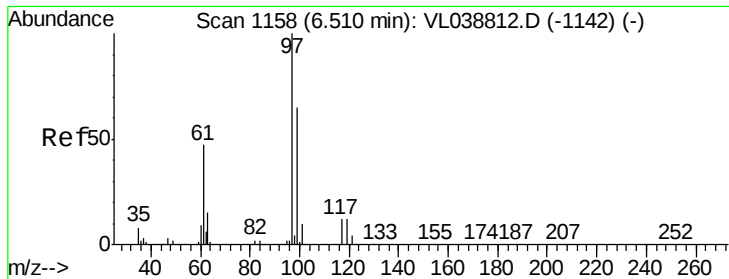
Tot Ion: 84 Resp: 3761
Ion Ratio Lower Upper
84 100
56 0.0 114.4 171.6#
41 169.4 69.0 103.4#



#31
cis-1,2-Dichloroethene
Concen: 0.036 ppbv
RT: 5.56 min Scan# 864
Delta R.T. 0.02 min
Lab File: VL038864.D
Acq: 8 Apr 2022 7:54

Tgt Ion: 61 Resp: 3738
Ion Ratio Lower Upper
61 100
96 28.9 53.4 80.0#
98 28.1 34.2 51.4#





#32

1,1,1-Trichloroethane

Concen: 0.030 ppbv

RT: 6.54 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 8 Apr 2022 7:54 QC040722 CAN 10294

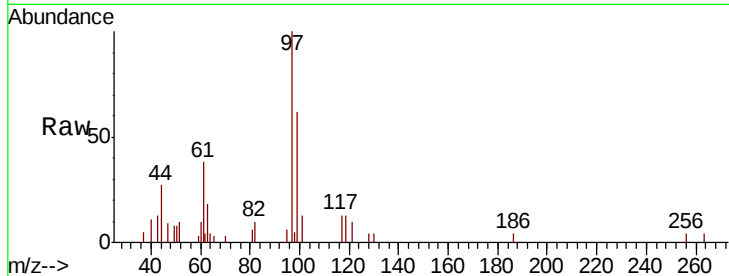
Tot Ion: 97 Resp: 4889

Ion Ratio Lower Upper

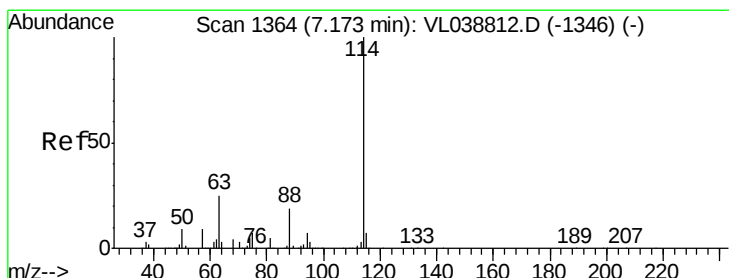
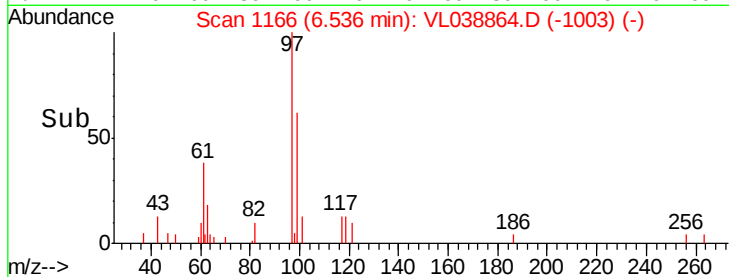
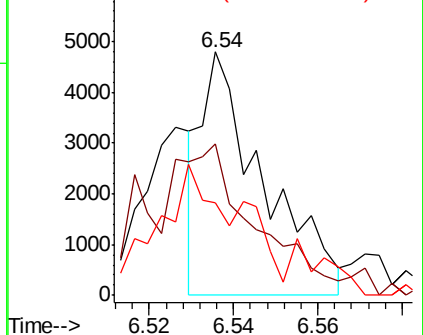
97 100

99 118.0 52.4 78.6#

61 0.0 38.6 57.8#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.20 min Scan# 1372

Delta R.T. 0.03 min

Lab File: VL038864.D

Acq: 8 Apr 2022 7:54

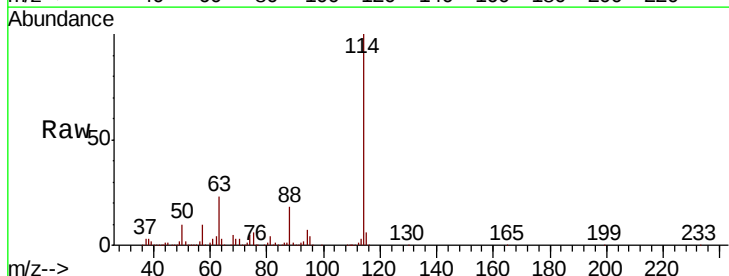
Tgt Ion: 114 Resp: 2878704

Ion Ratio Lower Upper

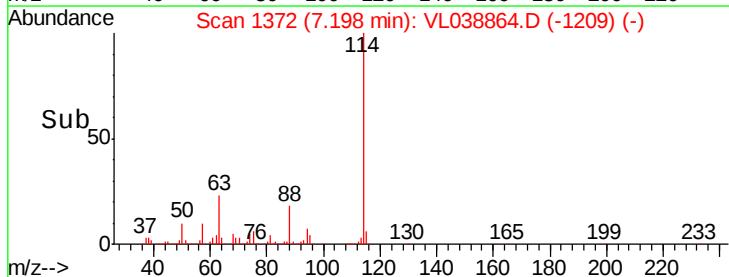
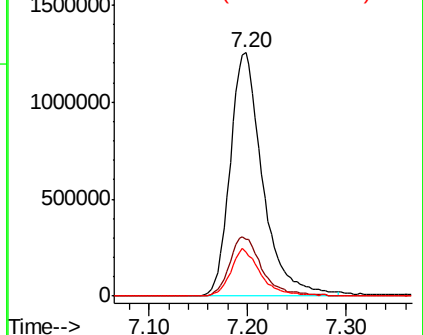
114 100

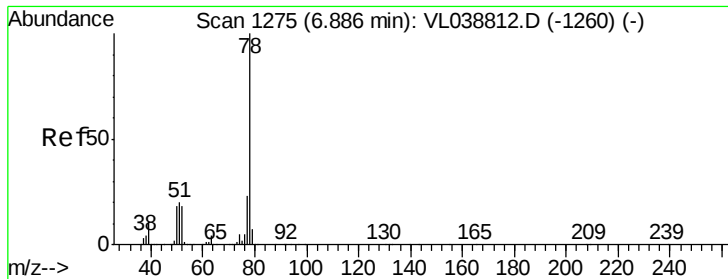
63 24.8 19.8 29.8

88 18.3 14.2 21.4



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





#36

Benzene

Concen: 0.041 ppbv

RT: 6.91 Instrument:

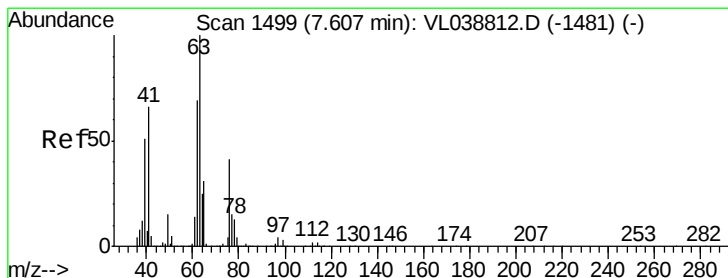
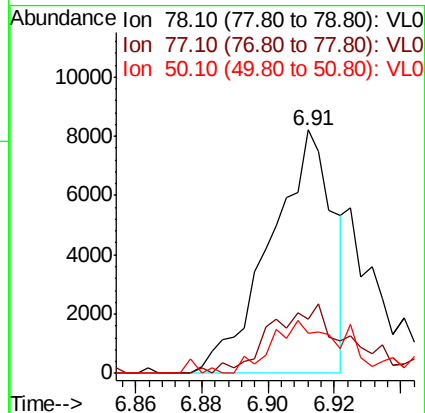
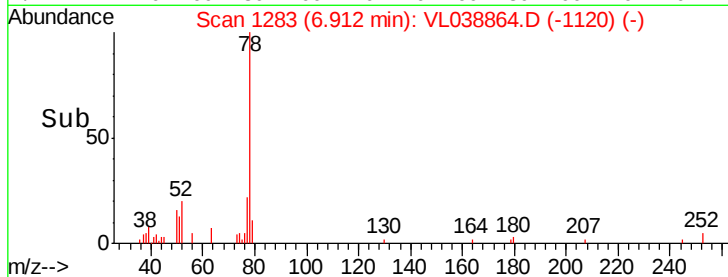
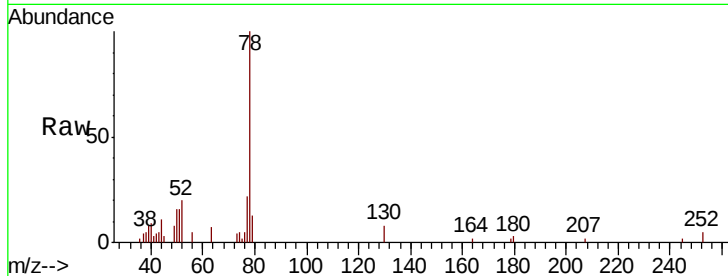
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 8 Apr 2022 7:54 QC040722 CAN 10294

Tot Ion: 78 Resp: 10819

Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.2	27.2
50	10.6	14.0	21.0#



#39

1,2-Dichloropropane

Concen: 6.831 ppbv

RT: 7.19 min Scan# 1371

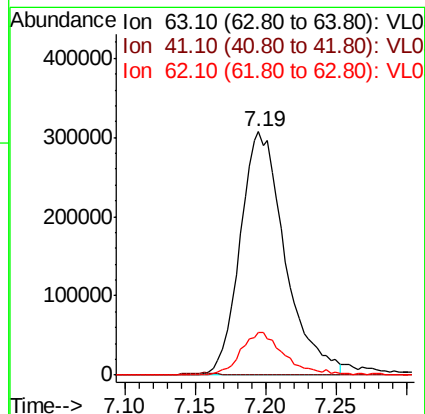
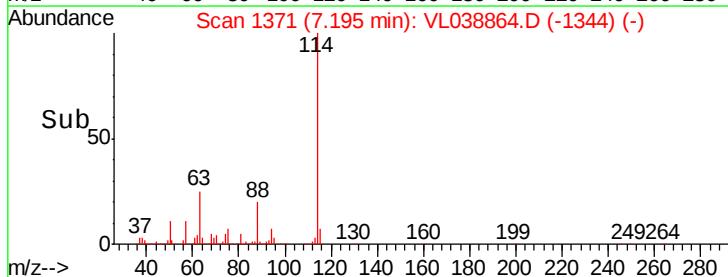
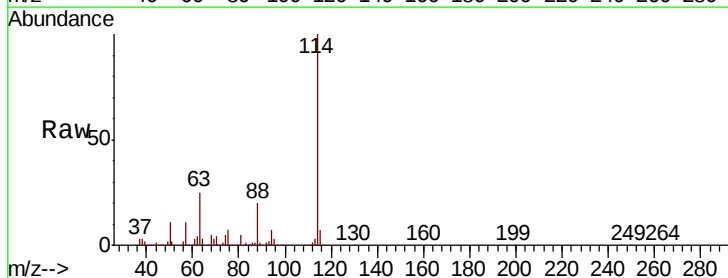
Delta R.T. -0.41 min

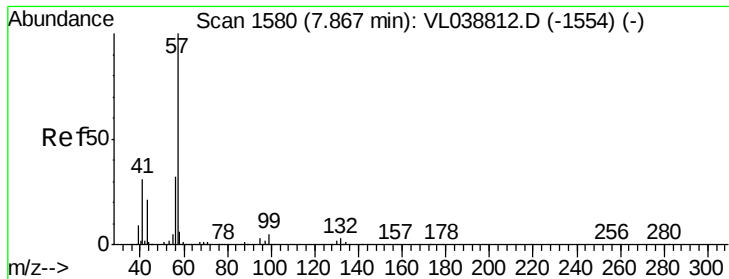
Lab File: VL038864.D

Acq: 8 Apr 2022 7:54

Tgt Ion: 63 Resp: 684196

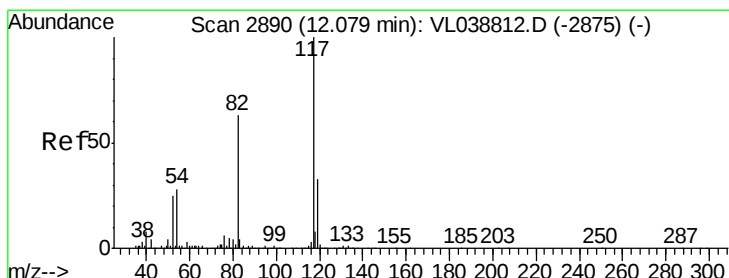
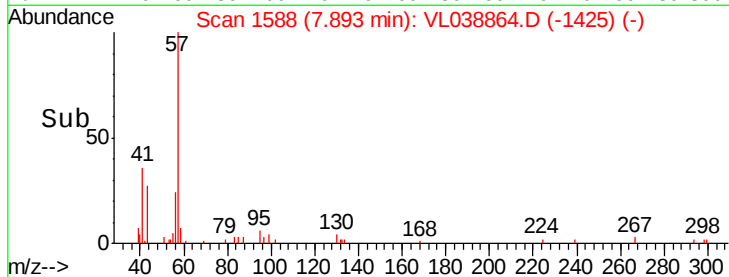
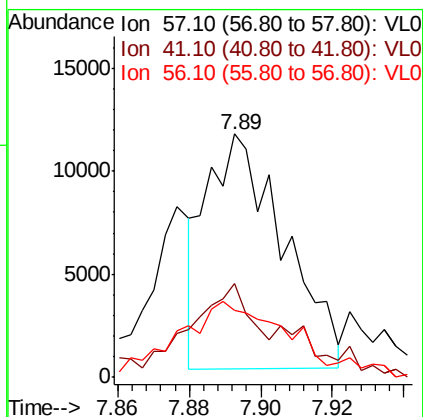
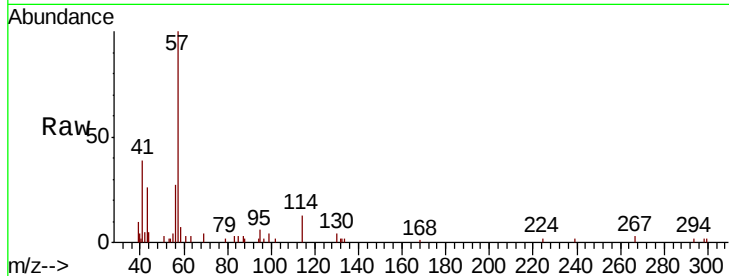
Ion	Ratio	Lower	Upper
63	100		
41	0.1	53.0	79.6#
62	17.4	55.0	82.4#





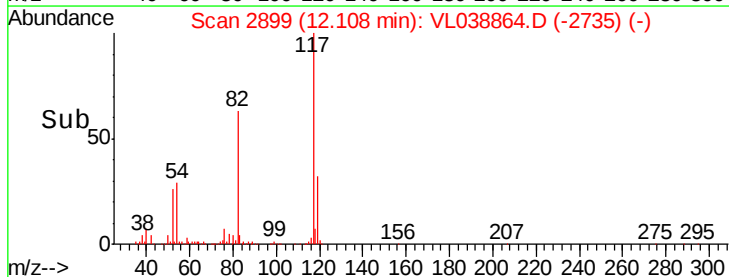
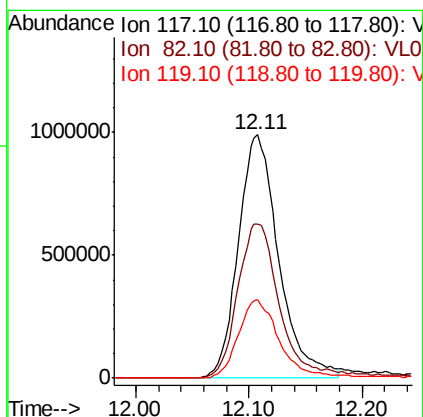
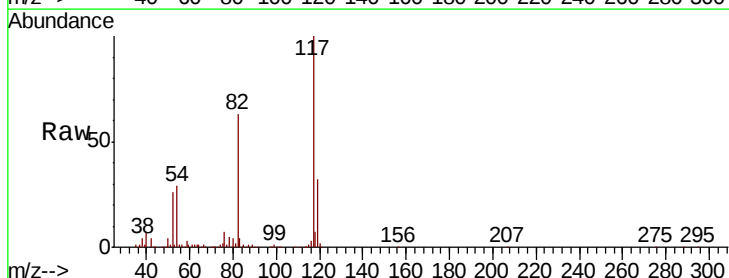
#44
 2,2,4-Trimethylpentane
 Concen: 0.038 ppbv
 RT: 7.89 Instrument: MSVOA_1
 Delta R.T.: ClientSampleId:
 Lab File: QC040722 CAN 10294
 Acq: 8 Apr 2022 7:54

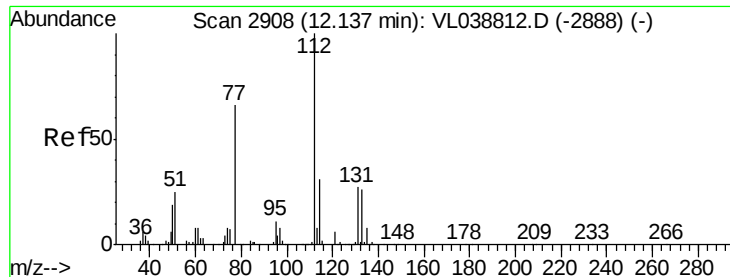
Tot Ion: 57 Resp: 17059
 Ion Ratio Lower Upper
 57 100
 41 51.9 25.0 37.4#
 56 51.3 25.3 37.9#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.11 min Scan# 2899
 Delta R.T.: 0.03 min
 Lab File: VL038864.D
 Acq: 8 Apr 2022 7:54

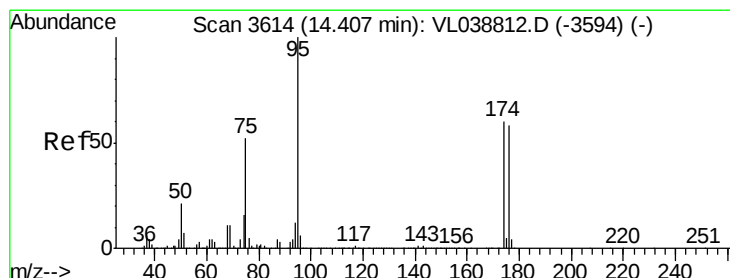
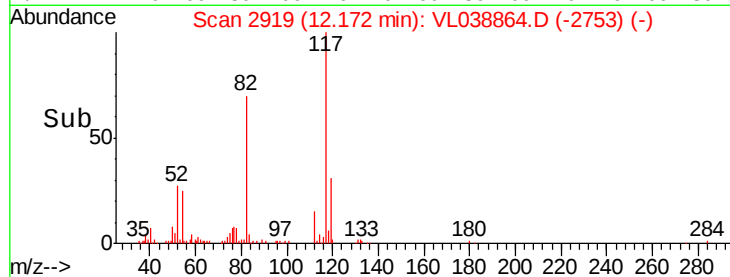
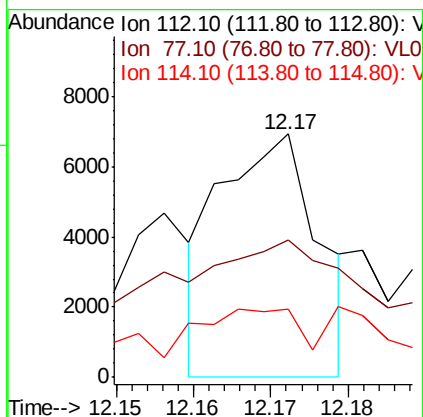
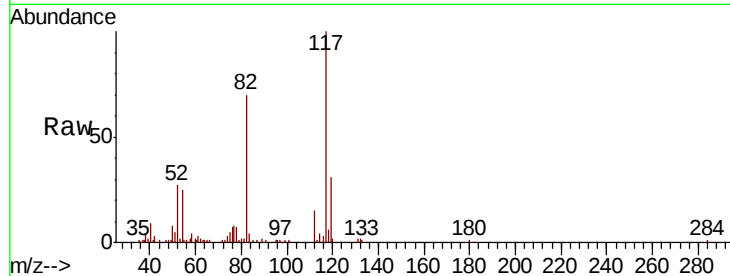
Tgt Ion: 117 Resp: 2460192
 Ion Ratio Lower Upper
 117 100
 82 68.9 53.0 79.6
 119 34.3 24.9 37.3





#57
Chlorobenzene
Concen: 0.030 ppbv
RT: 12.17 min
Instrument: MSVOA_1
Delta R.T.: 0.03 min
Lab File: ClientSampleId : QC040722 CAN 10294
Acq: 8 Apr 2022 7:54

Tot Ion: 112 Resp: 6132
Ion Ratio Lower Upper
112 100
77 36.0 52.4 78.6#
114 17.9 28.1 34.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.147 ppbv
RT: 14.44 min Scan# 3623
Delta R.T.: 0.03 min
Lab File: VL038864.D
Acq: 8 Apr 2022 7:54

Tgt Ion: 95 Resp: 1893475
Ion Ratio Lower Upper
95 100
174 64.0 52.0 78.0
175 4.6 4.0 6.0

