

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030822\
 Data File : VL038561.D
 Acq On : 8 Mar 2022 20:34
 Operator : SY/AP
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: Mar 08 21:12:21 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 20:18:37 2022
 QLast Update : Tue Mar 08 20:18:37 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	858930	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2130085	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	1881326	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1434865	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

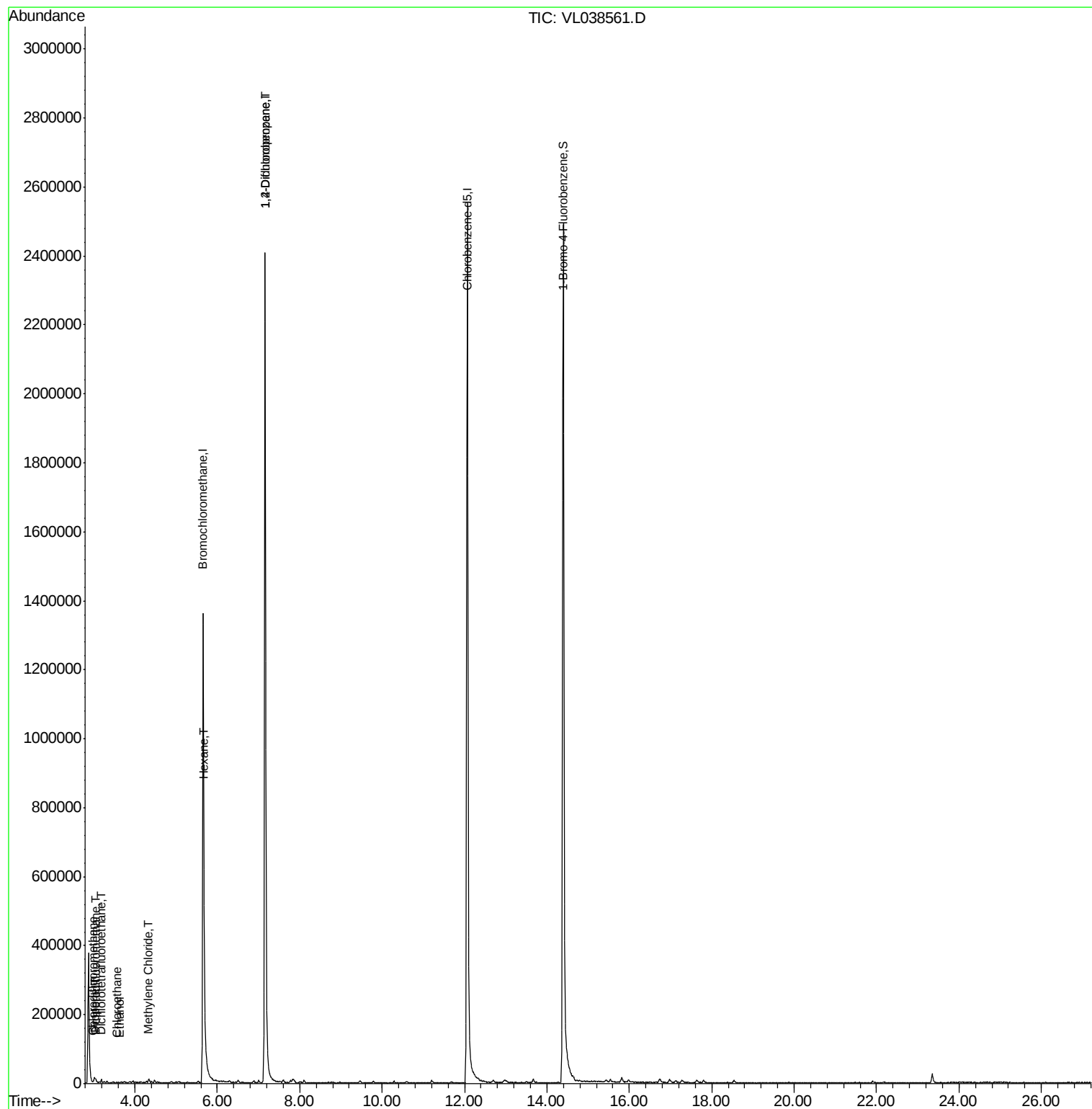
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	5653	0.04	ppbv	98
3) Chlorodifluoromethane	2.98	51	5908	0.04	ppbv #	91
7) Chloroethane	3.55	64	625	0.03	ppbv #	41
8) Dichlorotetrafluoroethane	3.18	85	4818	0.04	ppbv	97
9) Propene	3.01	41	2946	0.06	ppbv #	15
13) Ethanol	3.63	45	298	0.05	ppbv #	34
20) Methylene Chloride	4.33	84	1473	0.04	ppbv #	84
26) Hexane	5.68	57	3004	0.03	ppbv	90
39) 1,2-Dichloropropane	7.16	63	504856	6.83	ppbv #	26

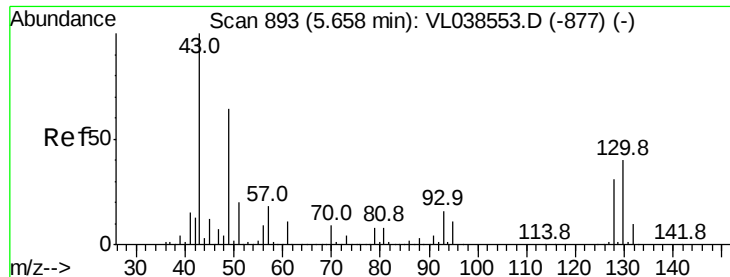
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_L
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VSTDICC0.03

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030822AIR.M
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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 8 Mar 2022 20:34 VSTDIC0.03

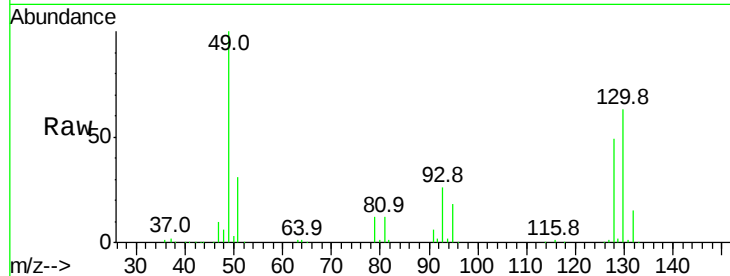
Tgt Ion: 49 Resp: 858930

Ion Ratio Lower Upper

49 100

128 51.6 26.4 79.2

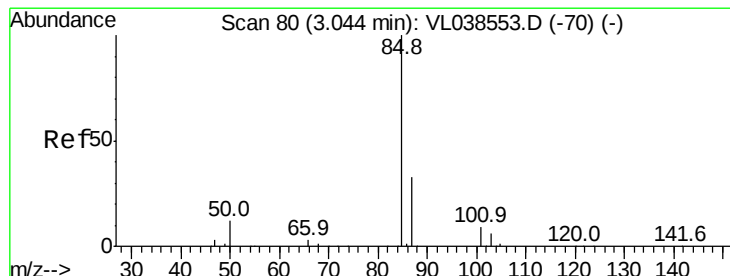
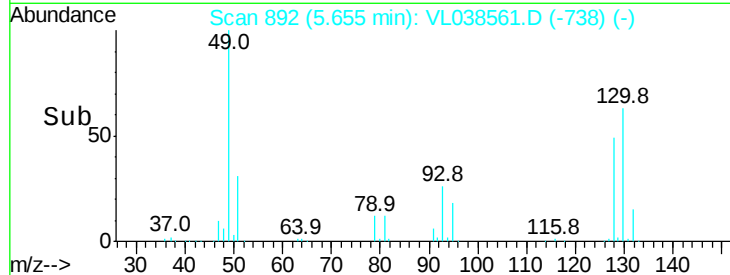
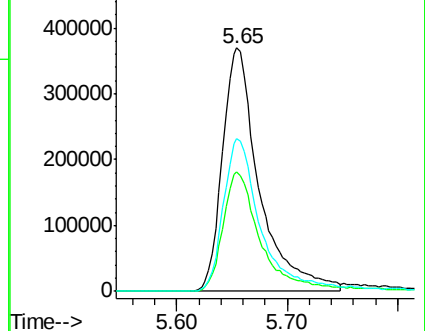
130 65.6 33.0 98.9



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: 0.04 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.00 min

Lab File: VL038561.D

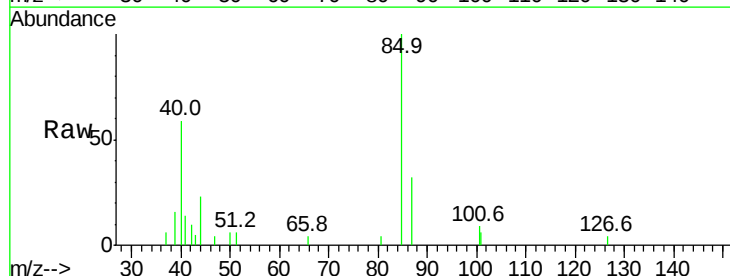
Acq: 8 Mar 2022 20:34

Tgt Ion: 85 Resp: 5653

Ion Ratio Lower Upper

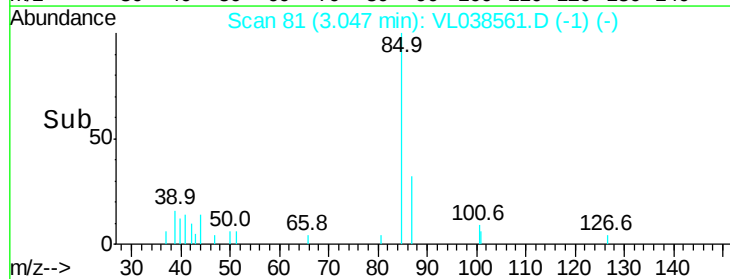
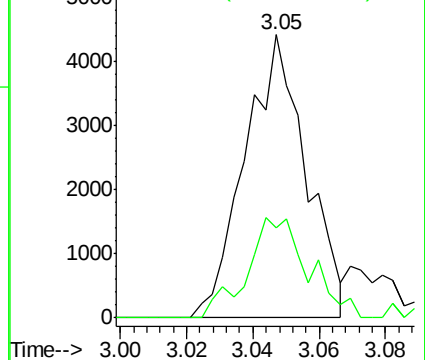
85 100

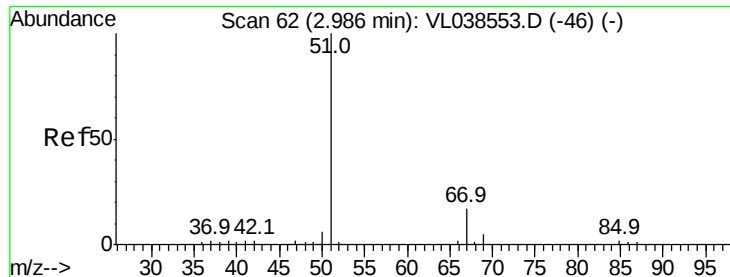
87 31.8 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.04 ppbv

RT: 2.98 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VSTDIC00.03

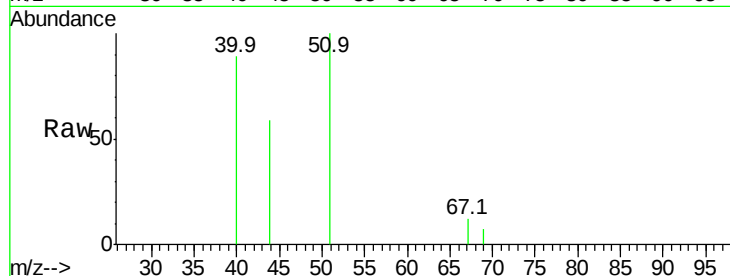
Acq: 8 Mar 2022 20:34

Tgt Ion: 51 Resp: 5908

Ion Ratio Lower Upper

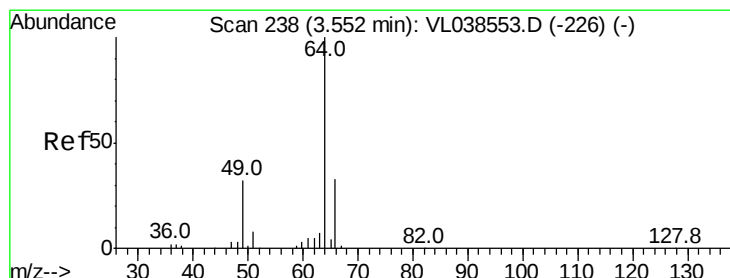
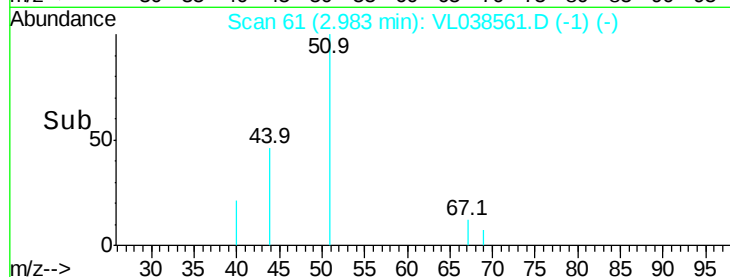
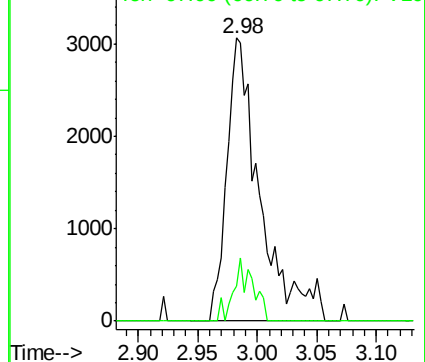
51 100

67 13.0 13.6 20.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#7

Chloroethane

Concen: 0.03 ppbv

RT: 3.55 min Scan# 237

Delta R.T. -0.00 min

Lab File: VL038561.D

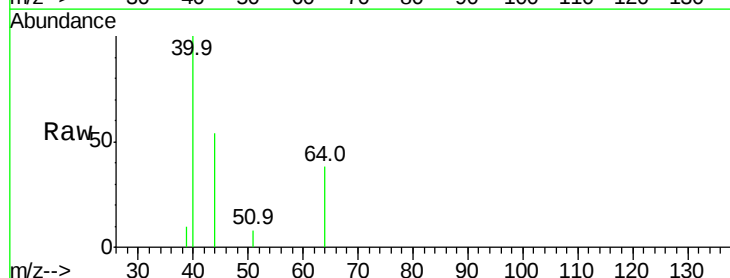
Acq: 8 Mar 2022 20:34

Tgt Ion: 64 Resp: 625

Ion Ratio Lower Upper

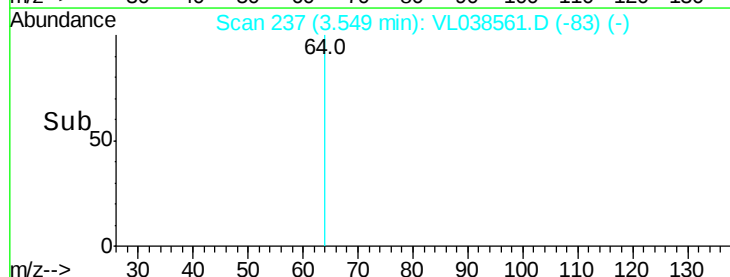
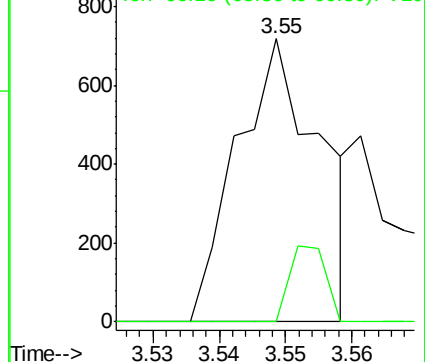
64 100

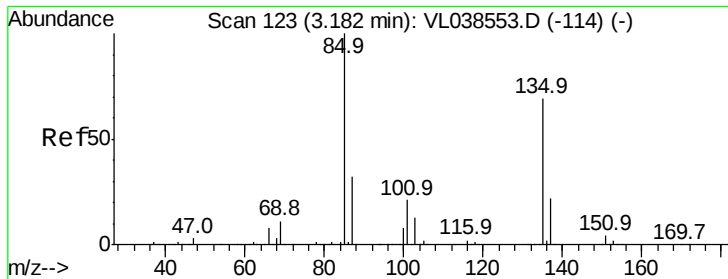
66 0.0 26.6 39.8#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.04 ppbv

RT: 3.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

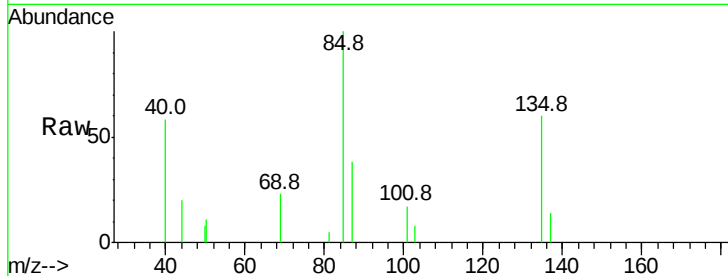
Acq: 8 Mar 2022 20:34 VSTDIC0.03

Tgt Ion: 85 Resp: 4818

Ion Ratio Lower Upper

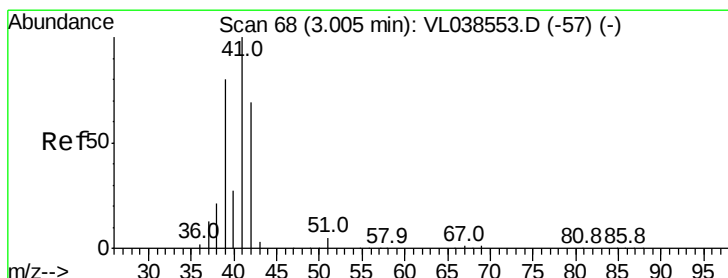
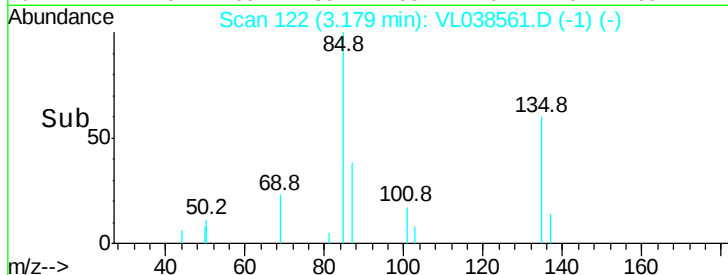
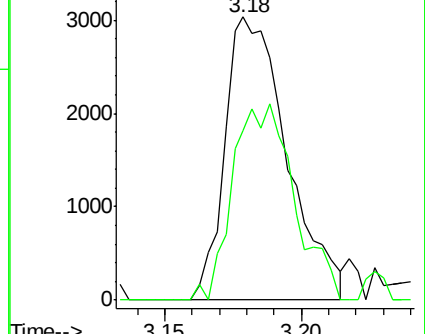
85 100

135 71.3 59.0 88.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0



#9

Propene

Concen: 0.06 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL038561.D

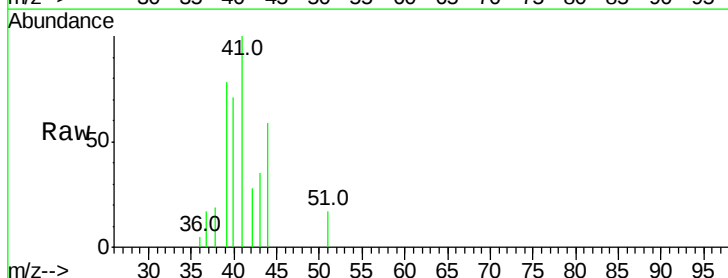
Acq: 8 Mar 2022 20:34

Tgt Ion: 41 Resp: 2946

Ion Ratio Lower Upper

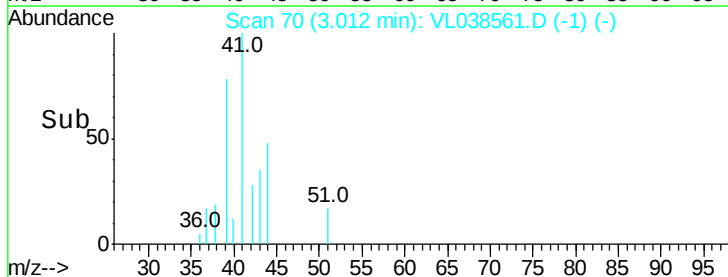
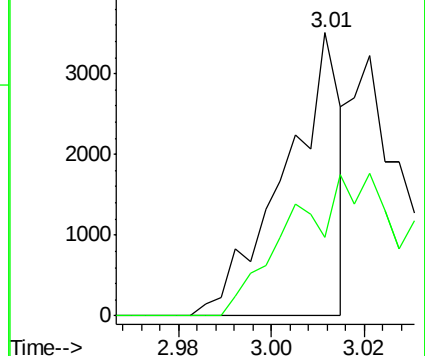
41 100

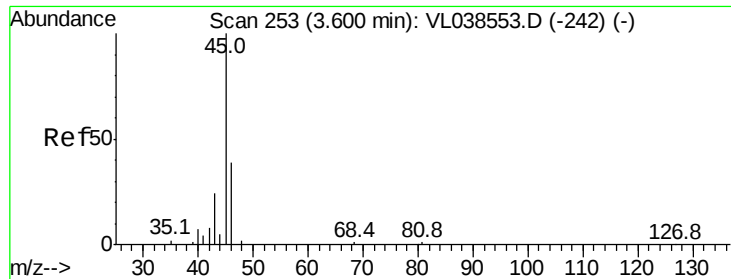
42 0.0 55.7 83.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0

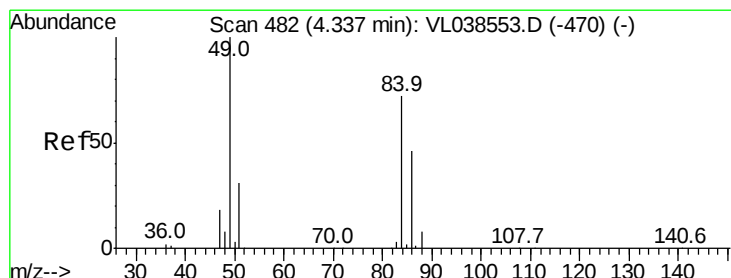
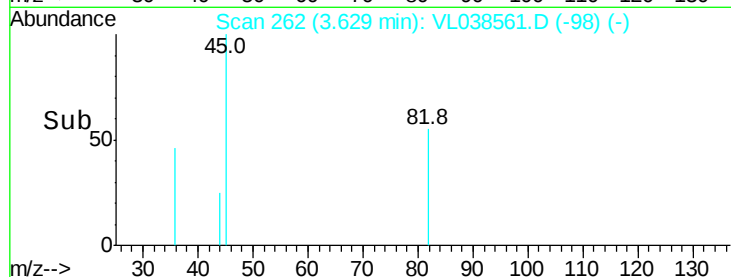
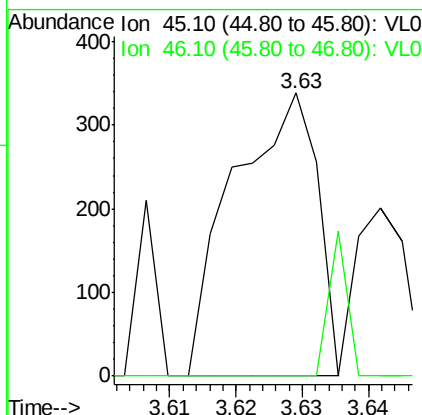
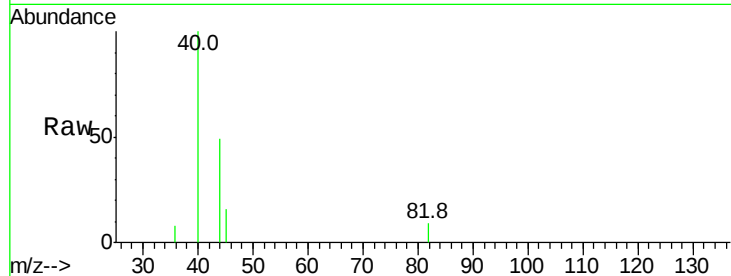
Ion 42.10 (41.80 to 42.80): VL0





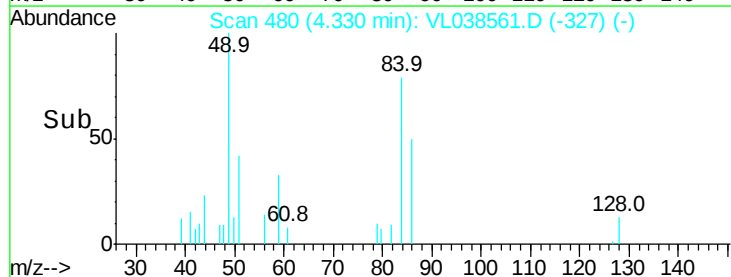
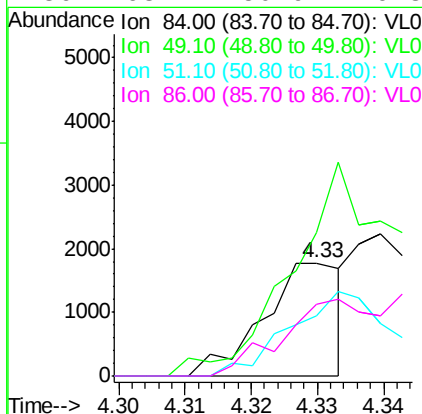
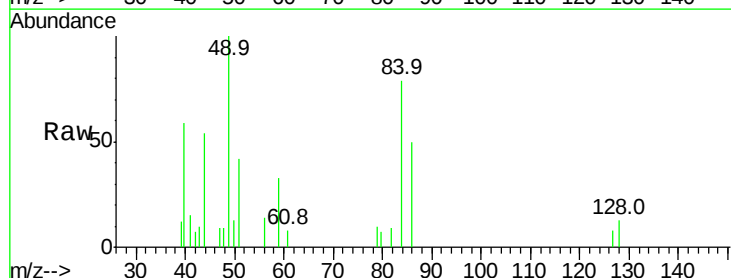
#13
Ethanol
Concen: 0.05 ppbv
RT: 3.63
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 8 Mar 2022 20:34

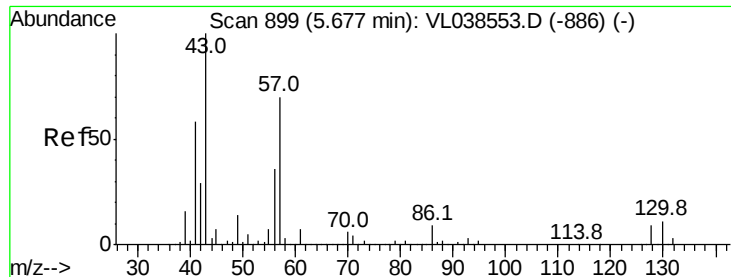
Tgt Ion: 45 Resp: 298
Ion Ratio Lower Upper
45 100
46 0.0 16.8 67.0#



#20
Methylene Chloride
Concen: 0.04 ppbv
RT: 4.33 min Scan# 480
Delta R.T. -0.01 min
Lab File: VL038561.D
Acq: 8 Mar 2022 20:34

Tgt Ion: 84 Resp: 1473
Ion Ratio Lower Upper
84 100
49 111.2 111.1 166.7
51 53.5 34.0 51.0#
86 63.4 50.9 76.3





#26

Hexane

Concen: 0.03 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VSTDIC003

Acq: 8 Mar 2022 20:34

Tgt Ion: 57 Resp: 3004

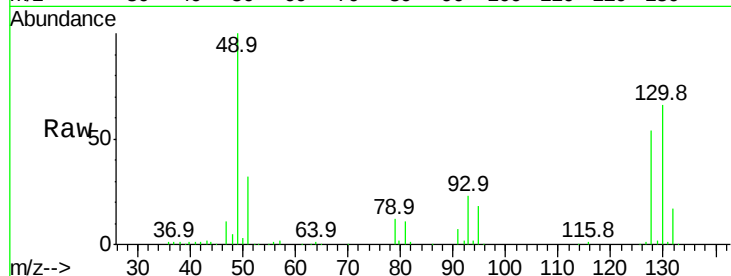
Ion Ratio Lower Upper

57 100

41 89.3 67.8 101.6

43 237.8 173.6 260.4

56 58.3 42.2 63.2

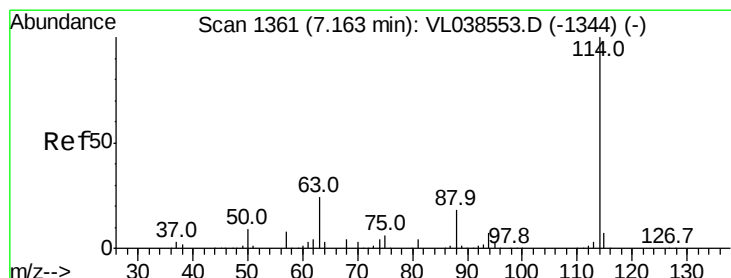
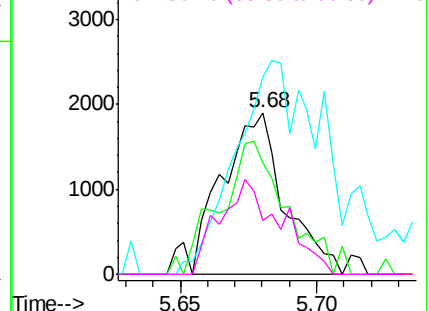
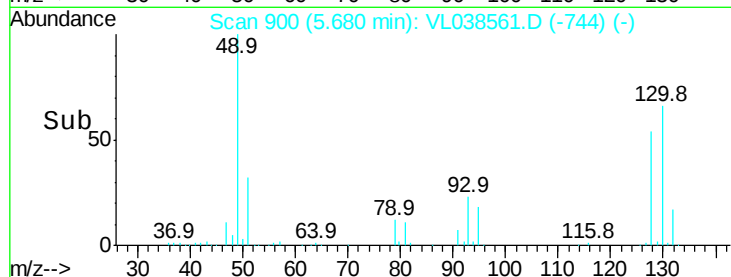


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 10.00 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. -0.00 min

Lab File: VL038561.D

Acq: 8 Mar 2022 20:34

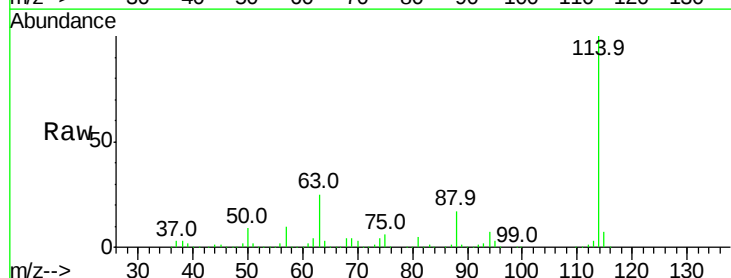
Tgt Ion: 114 Resp: 2130085

Ion Ratio Lower Upper

114 100

63 24.6 19.6 29.4

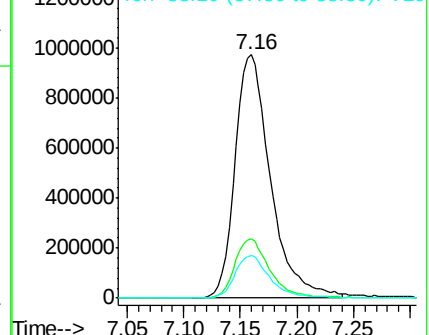
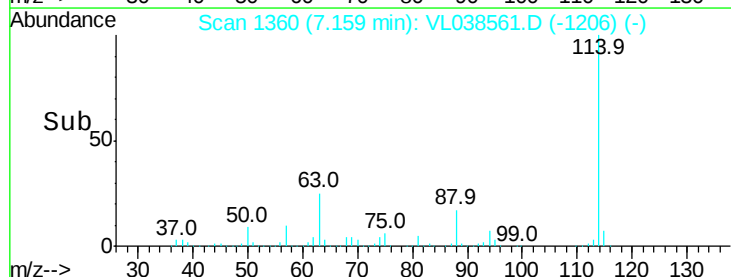
88 17.6 13.9 20.9

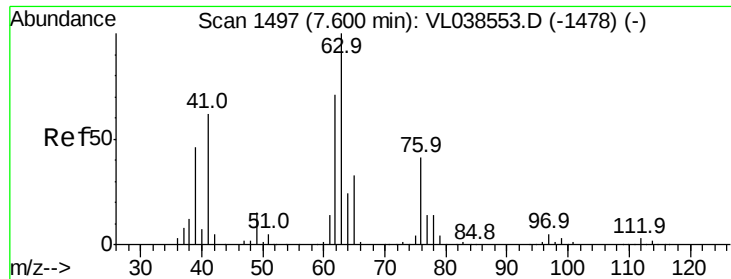


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

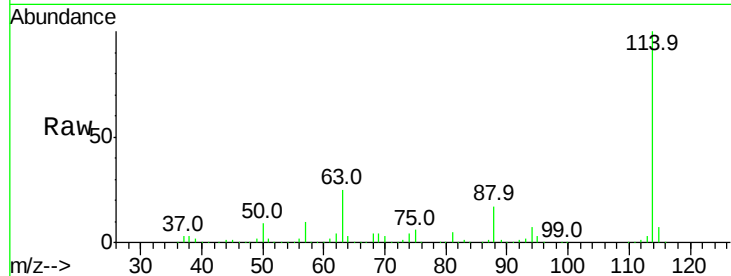
Ion 88.10 (87.80 to 88.80): VL0



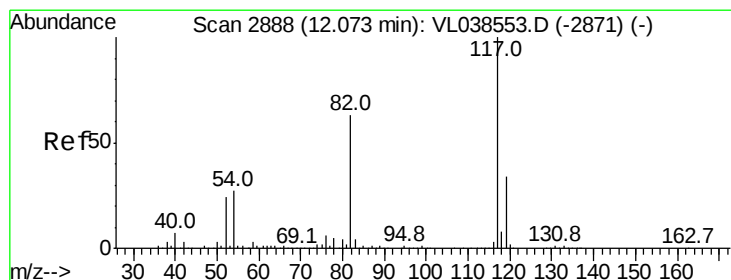
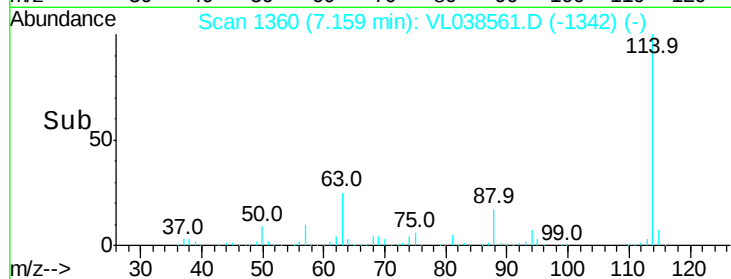
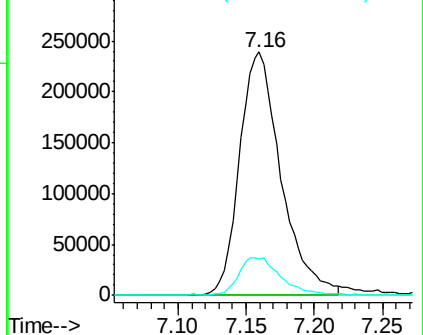


#39
 1,2-Dichloropropane
 Concen: 6.83 ppbv
 RT: 7.16
 Delta R.T.:
 Lab File: MSVOA_1
 ClientSampleId:
 VSTDIC003
 Acq: 8 Mar 2022 20:34

Tgt Ion: 63 Resp: 504856
 Ion Ratio Lower Upper
 63 100
 41 0.1 49.8 74.6#
 62 15.1 56.7 85.1#

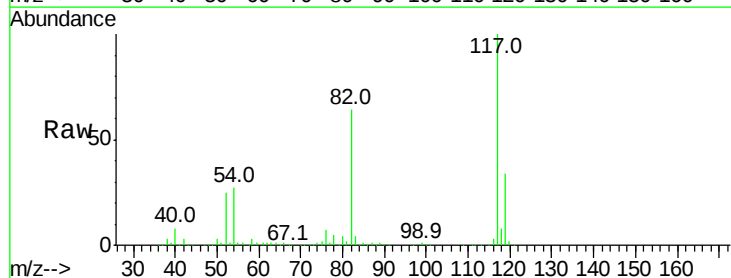


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

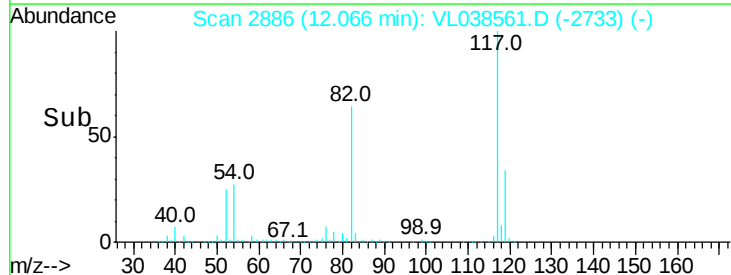
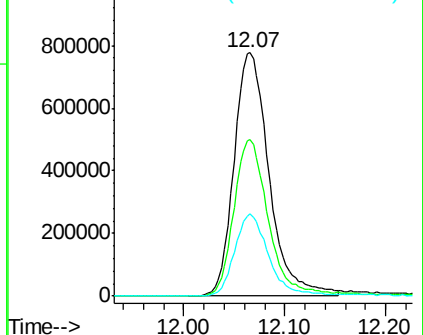


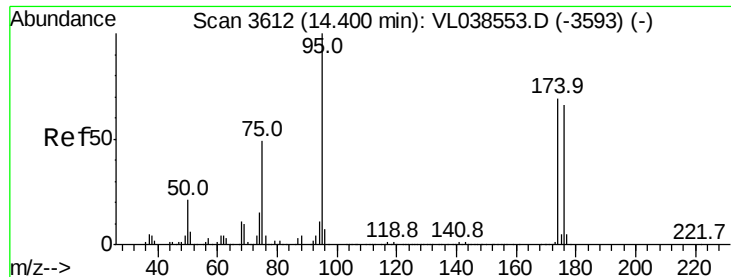
#55
 Chlorobenzene-d5
 Concen: 10.00 ppbv
 RT: 12.07 min Scan# 2886
 Delta R.T.: -0.01 min
 Lab File: VL038561.D
 Acq: 8 Mar 2022 20:34

Tgt Ion: 117 Resp: 1881326
 Ion Ratio Lower Upper
 117 100
 82 64.3 52.5 78.7
 119 33.8 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: 10.03 ppbv

RT: 14.40 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

VSTDIC00.03

Acq: 8 Mar 2022 20:34

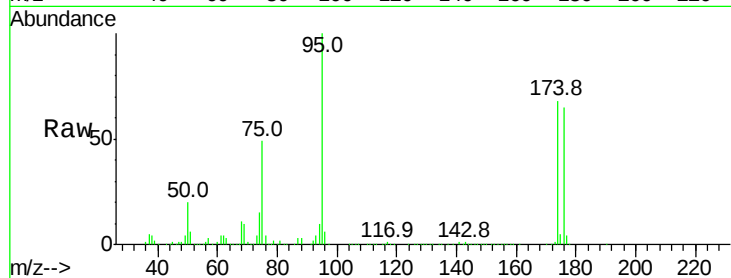
Tgt Ion: 95 Resp: 1434865

Ion Ratio Lower Upper

95 100

174 71.1 56.2 84.4

175 5.1 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

