

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL022222\
 Data File : VL038380.D
 Acq On : 22 Feb 2022 7:16
 Operator : SY/AP
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: Feb 22 07:58:05 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Tue Feb 22 07:53:26 2022
 QLast Update : Tue Feb 22 07:53:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	927265	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	2223953	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.05	117	1965185	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.38	95	1622441	10.80	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.00%

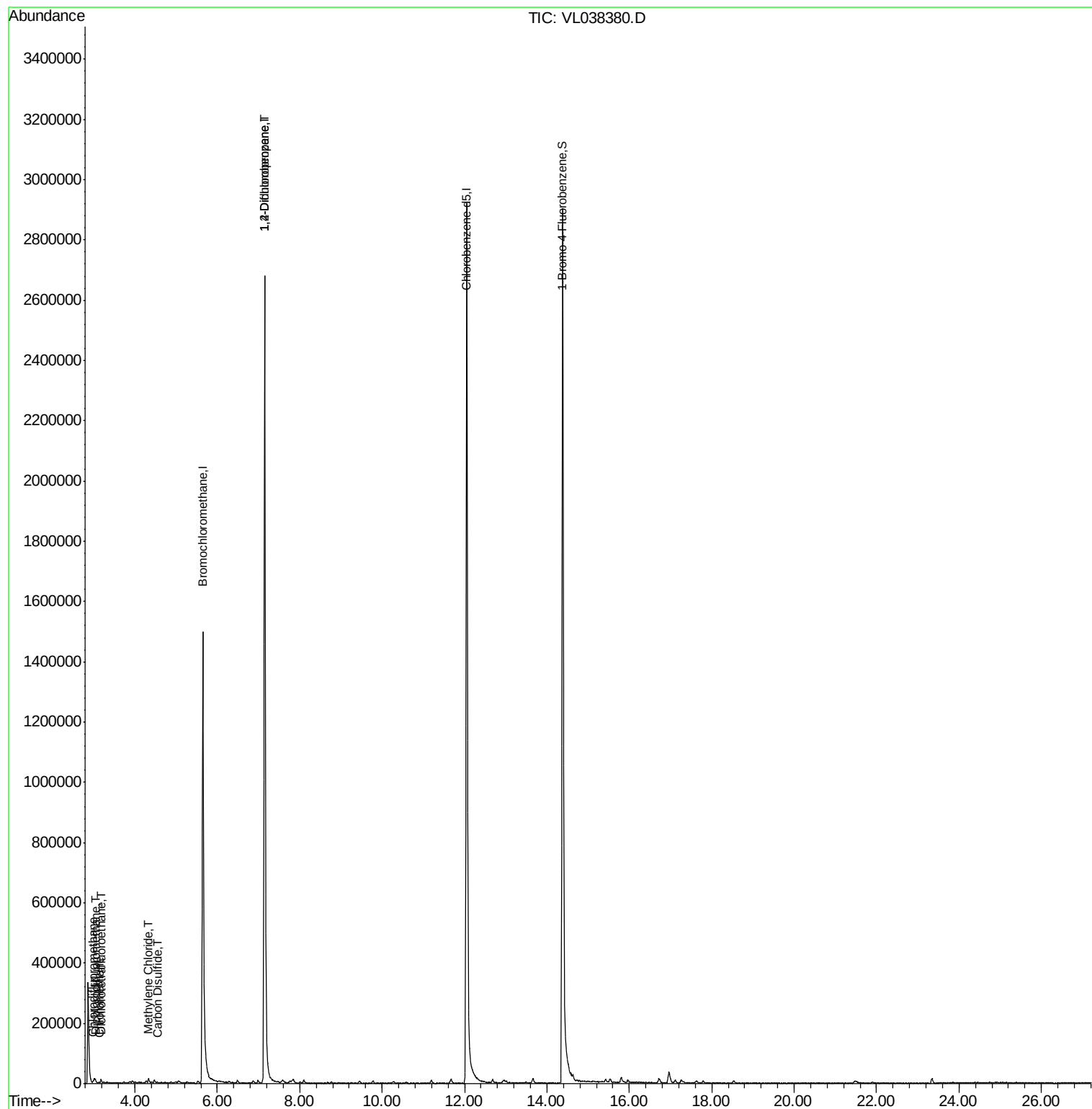
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	7417	0.04	ppbv #	82
3) Chlorodifluoromethane	2.98	51	6721	0.04	ppbv #	90
4) Chloromethane	3.13	50	1946	0.03	ppbv	90
8) Dichlorotetrafluoroethane	3.18	85	5425	0.04	ppbv	99
20) Methylene Chloride	4.32	84	1532	0.03	ppbv #	47
27) Carbon Disulfide	4.54	76	3675	0.03	ppbv #	1
39) 1,2-Dichloropropane	7.15	63	599033	7.52	ppbv #	25

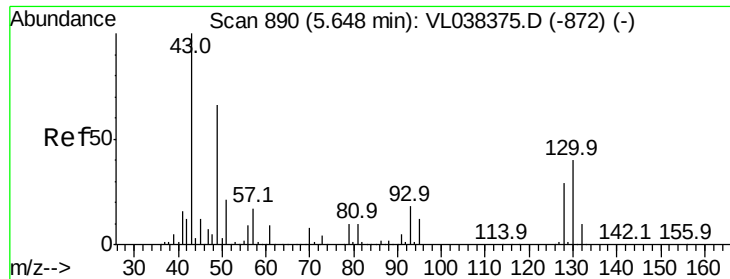
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VSTDIC0.03

Acq: 22 Feb 2022 7:10

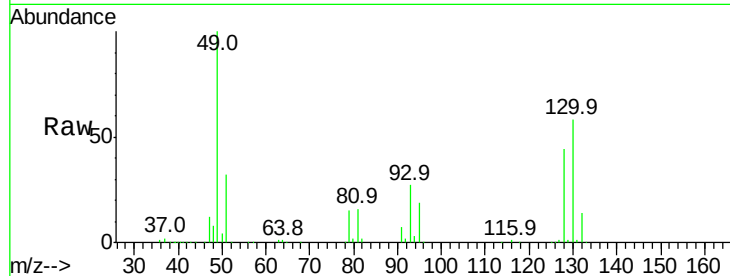
Tgt Ion: 49 Resp: 927265

Ion Ratio Lower Upper

49 100

128 47.4 24.3 72.9

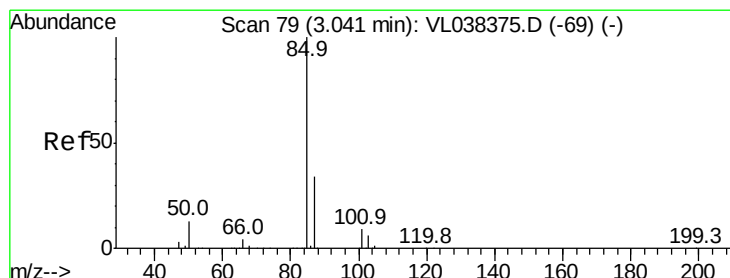
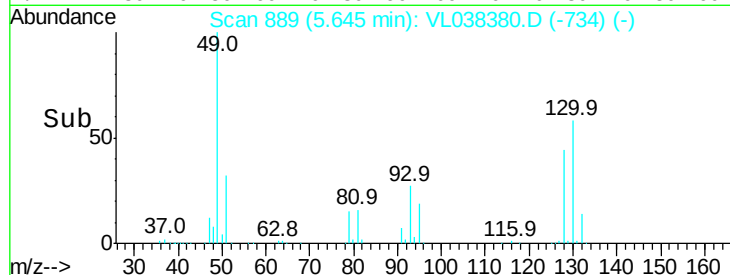
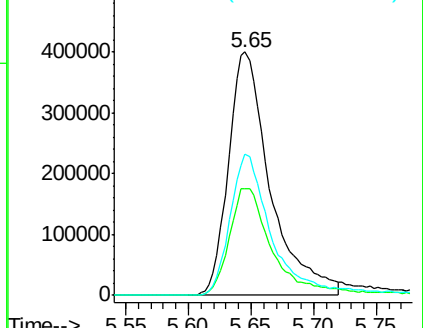
130 60.8 30.1 90.5



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: 3.04 min Scan# 79

Delta R.T. 0.00 min

Lab File: VL038380.D

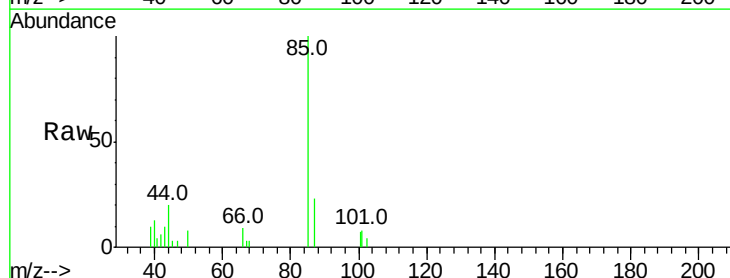
Acq: 22 Feb 2022 7:16

Tgt Ion: 85 Resp: 7417

Ion Ratio Lower Upper

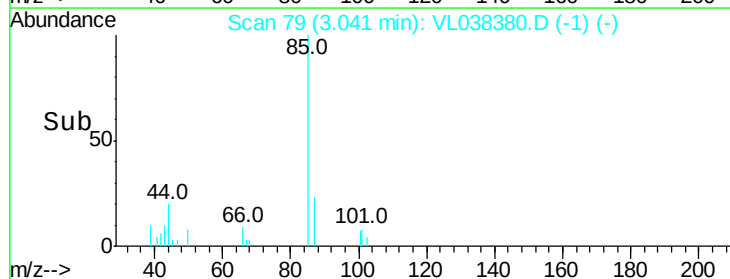
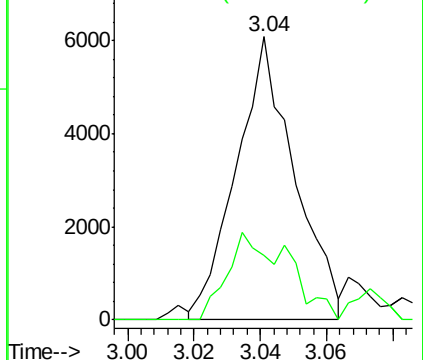
85 100

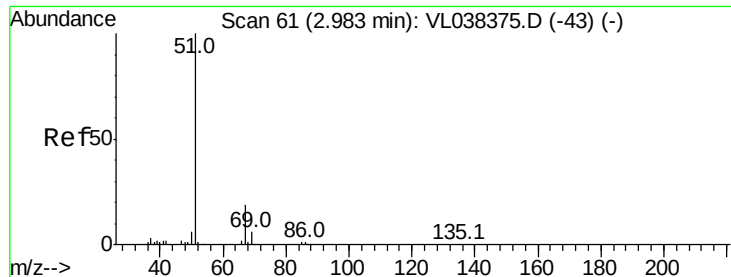
87 23.6 27.4 41.0#



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. 0.00 min

Lab File: ClientSampleId: VSTDIC00.03

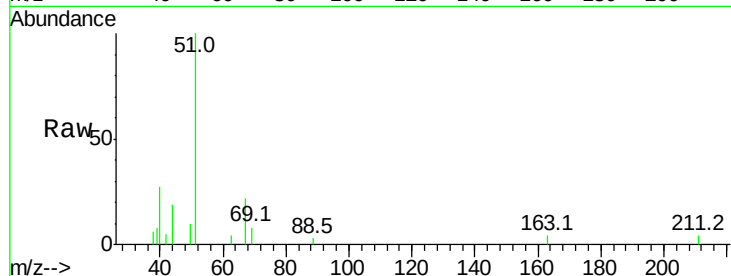
Acq: 22 Feb 2022 7:16

Tgt Ion: 51 Resp: 6721

Ion Ratio Lower Upper

51 100

67 22.7 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.98

5000

4000

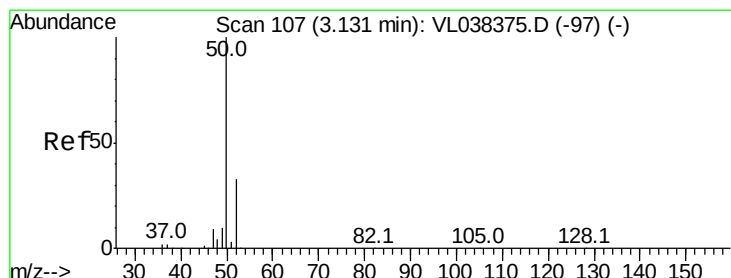
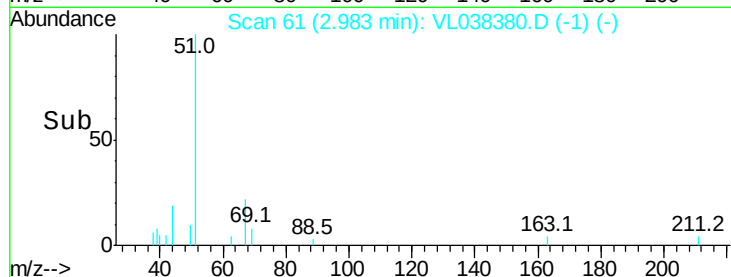
3000

2000

1000

0

Time--> 2.90 2.95 3.00 3.05



#4

Chloromethane

Concen: 0.03 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL038380.D

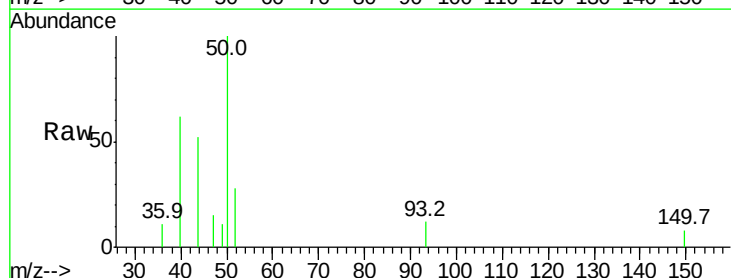
Acq: 22 Feb 2022 7:16

Tgt Ion: 50 Resp: 1946

Ion Ratio Lower Upper

50 100

52 27.5 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.13

2000

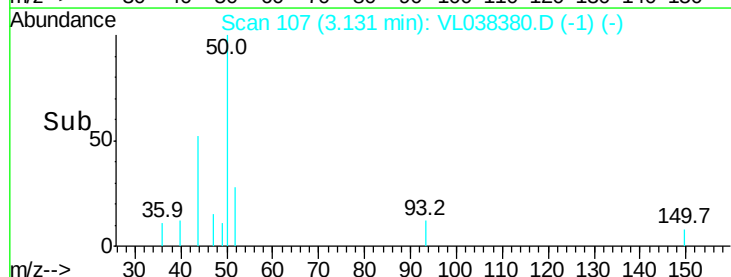
1500

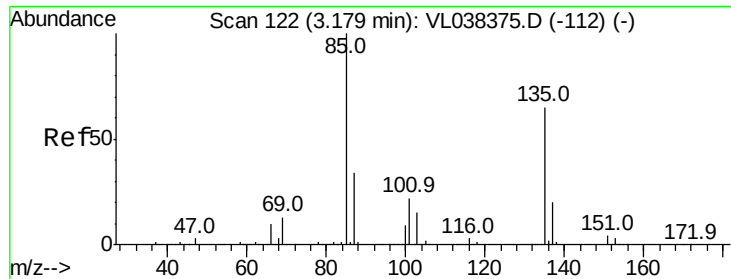
1000

500

0

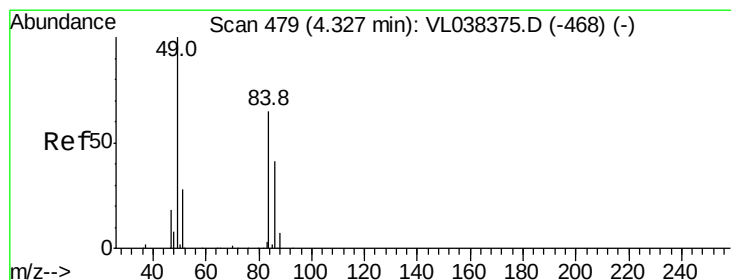
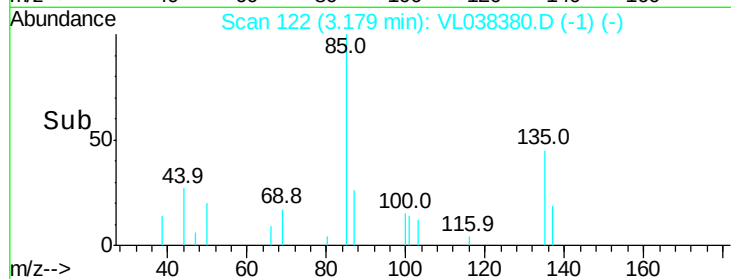
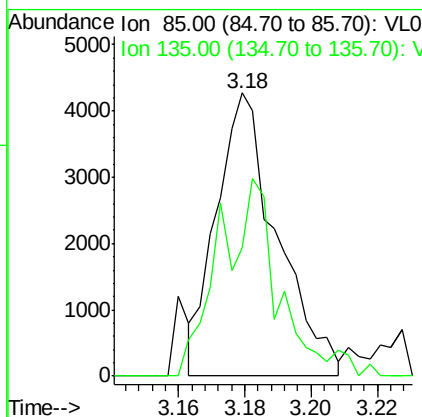
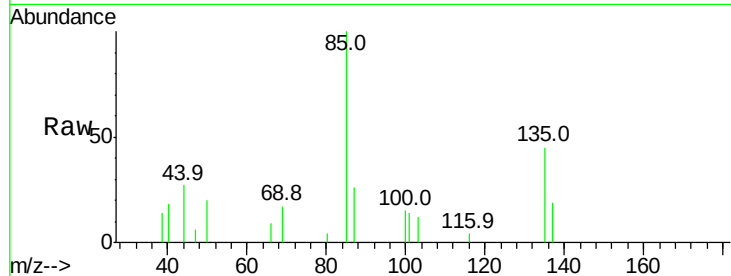
Time--> 3.10 3.12 3.14





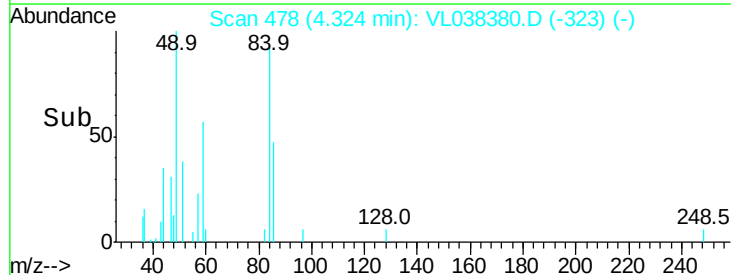
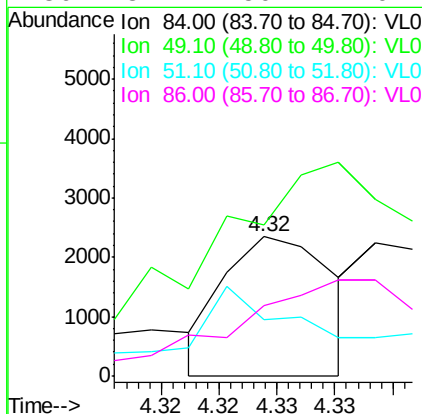
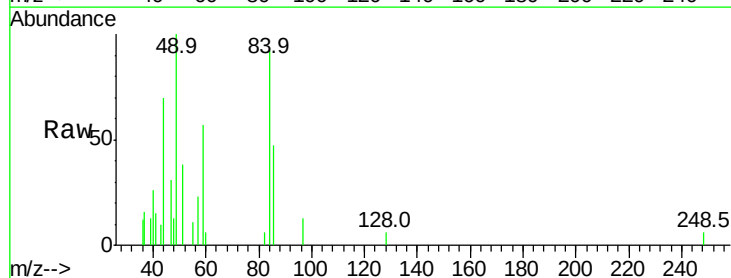
#8
 Dichlorotetrafluoroethane
 Concen: 0.04 ppbv
 RT: 3.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 VSTDIC0.03
 Acq: 22 Feb 2022 7:16

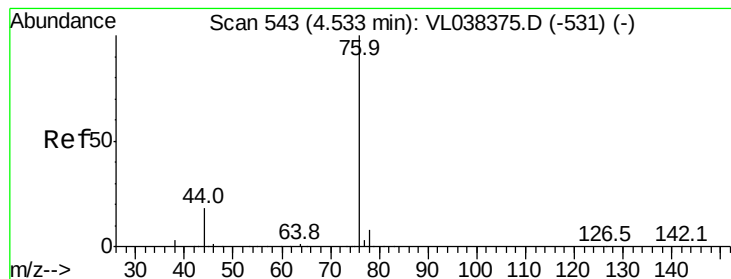
Tgt Ion: 85 Resp: 5425
 Ion Ratio Lower Upper
 85 100
 135 68.3 54.1 81.1



#20
 Methylene Chloride
 Concen: 0.03 ppbv
 RT: 4.32 min Scan# 478
 Delta R.T. -0.00 min
 Lab File: VL038380.D
 Acq: 22 Feb 2022 7:16

Tgt Ion: 84 Resp: 1532
 Ion Ratio Lower Upper
 84 100
 49 67.3 122.4 183.6#
 51 30.4 33.3 49.9#
 86 31.2 50.7 76.1#





#27

Carbon Disulfide

Concen: 0.03 ppbv

RT: 4.54 Instrument: MSVOA_1

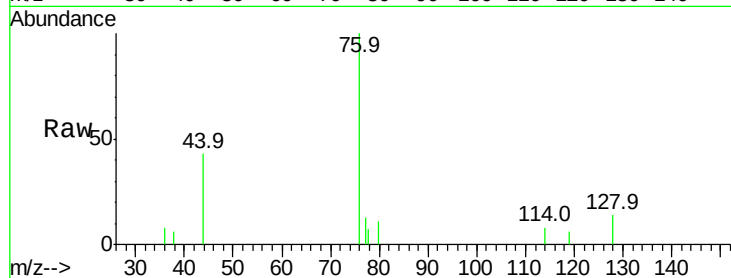
Delta R.T. ClientSampleId:

Lab File: VSTDIC00.03

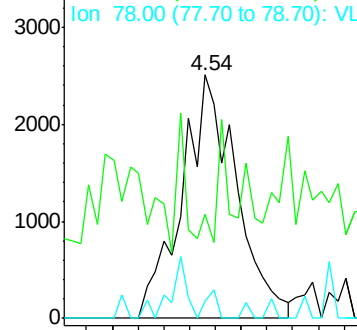
Acq: 22 Feb 2022 7:10

Tgt Ion: 76 Resp: 3675

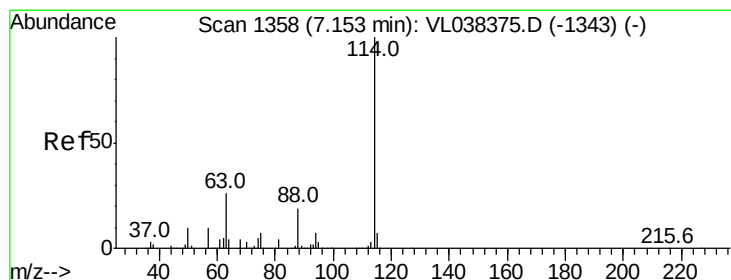
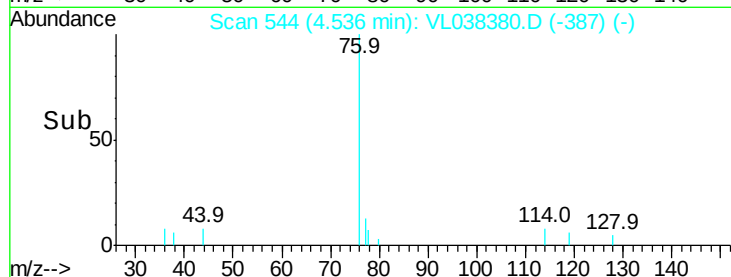
Ion	Ratio	Lower	Upper
76	100		
44	120.1	14.2	21.2#
78	8.8	7.8	11.6



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



Time-->



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.15 min Scan# 1357

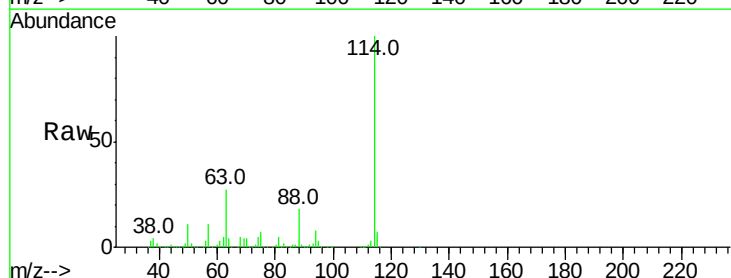
Delta R.T. -0.00 min

Lab File: VL038380.D

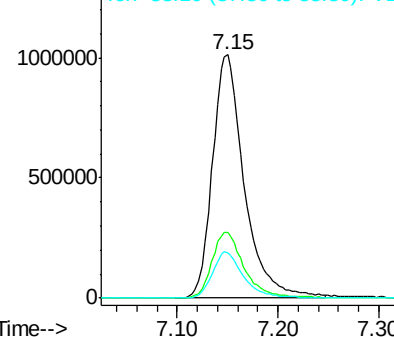
Acq: 22 Feb 2022 7:16

Tgt Ion: 114 Resp: 2223953

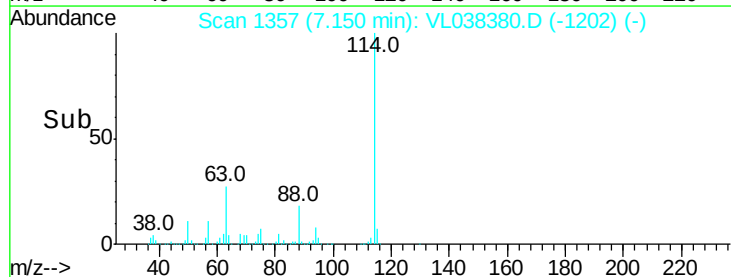
Ion	Ratio	Lower	Upper
114	100		
63	27.7	22.2	33.2
88	18.8	15.2	22.8

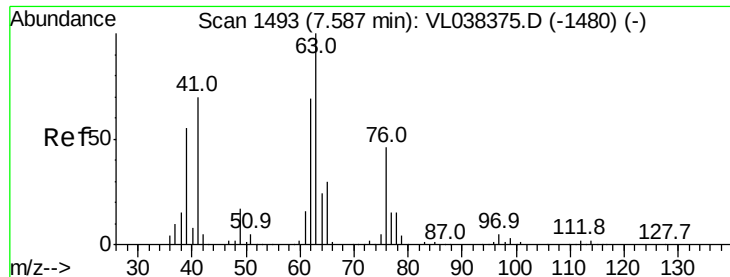


Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0



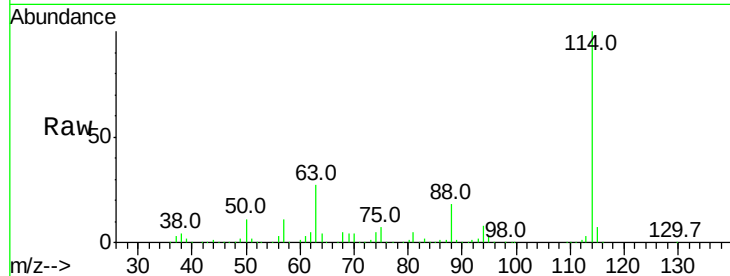
Time-->



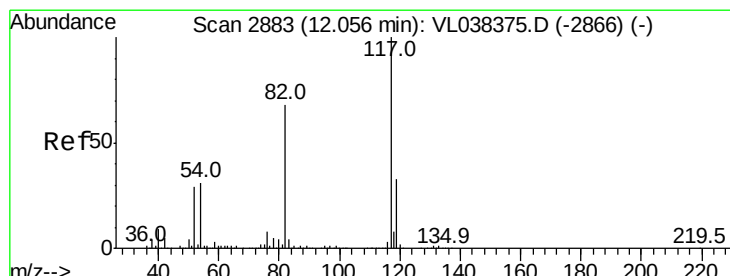
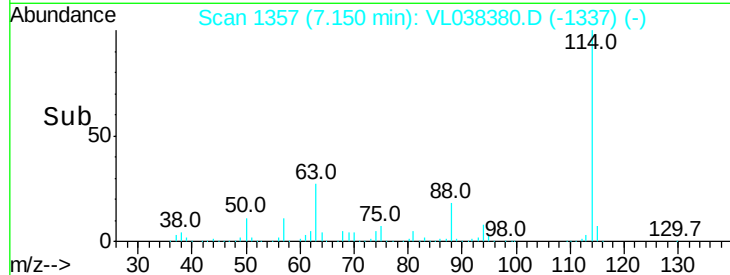
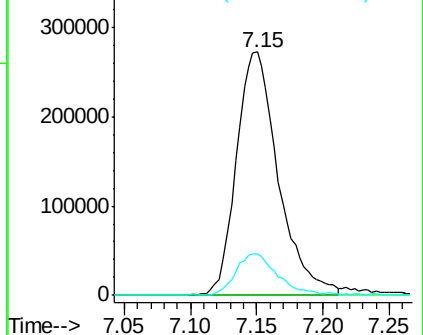


#39
 1,2-Dichloropropane
 Concen: 7.52 ppbv
 RT: 7.15
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 VSTDIC0.03
 Acq: 22 Feb 2022 7:16

Tgt Ion: 63 Resp: 599033
 Ion Ratio Lower Upper
 63 100
 41 0.0 56.1 84.1#
 62 17.1 55.5 83.3#

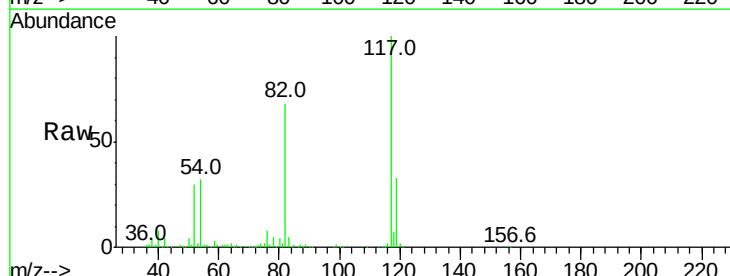


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

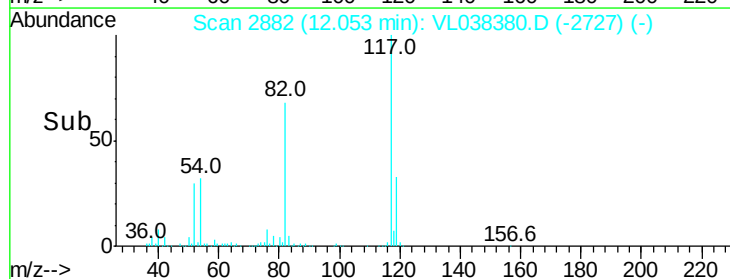
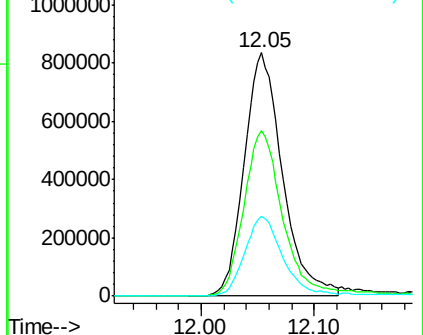


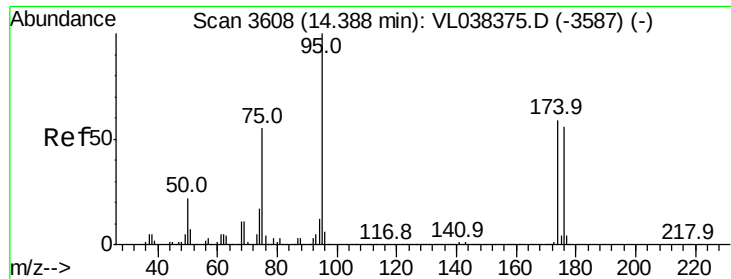
#55
 Chlorobenzene-d5
 Concen: 10.00 ppbv
 RT: 12.05 min Scan# 2882
 Delta R.T. -0.00 min
 Lab File: VL038380.D
 Acq: 22 Feb 2022 7:16

Tgt Ion: 117 Resp: 1965185
 Ion Ratio Lower Upper
 117 100
 82 72.8 54.9 82.3
 119 34.2 46.1 69.1#



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: 10.80 ppbv

RT: 14.38

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

VSTDIC0.03

Acq: 22 Feb 2022 7:10

Tgt Ion: 95 Resp: 1622441

Ion Ratio Lower Upper

95 100

174 61.5 49.0 73.4

175 4.4 3.6 5.4

