

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121621\
 Data File : VL038193.D
 Acq On : 16 Dec 2021 17:30
 Operator : SY/AP
 Sample : M5117-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 17 05:08:55 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1045830	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2657174	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2312100	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1777232	10.66	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.60%

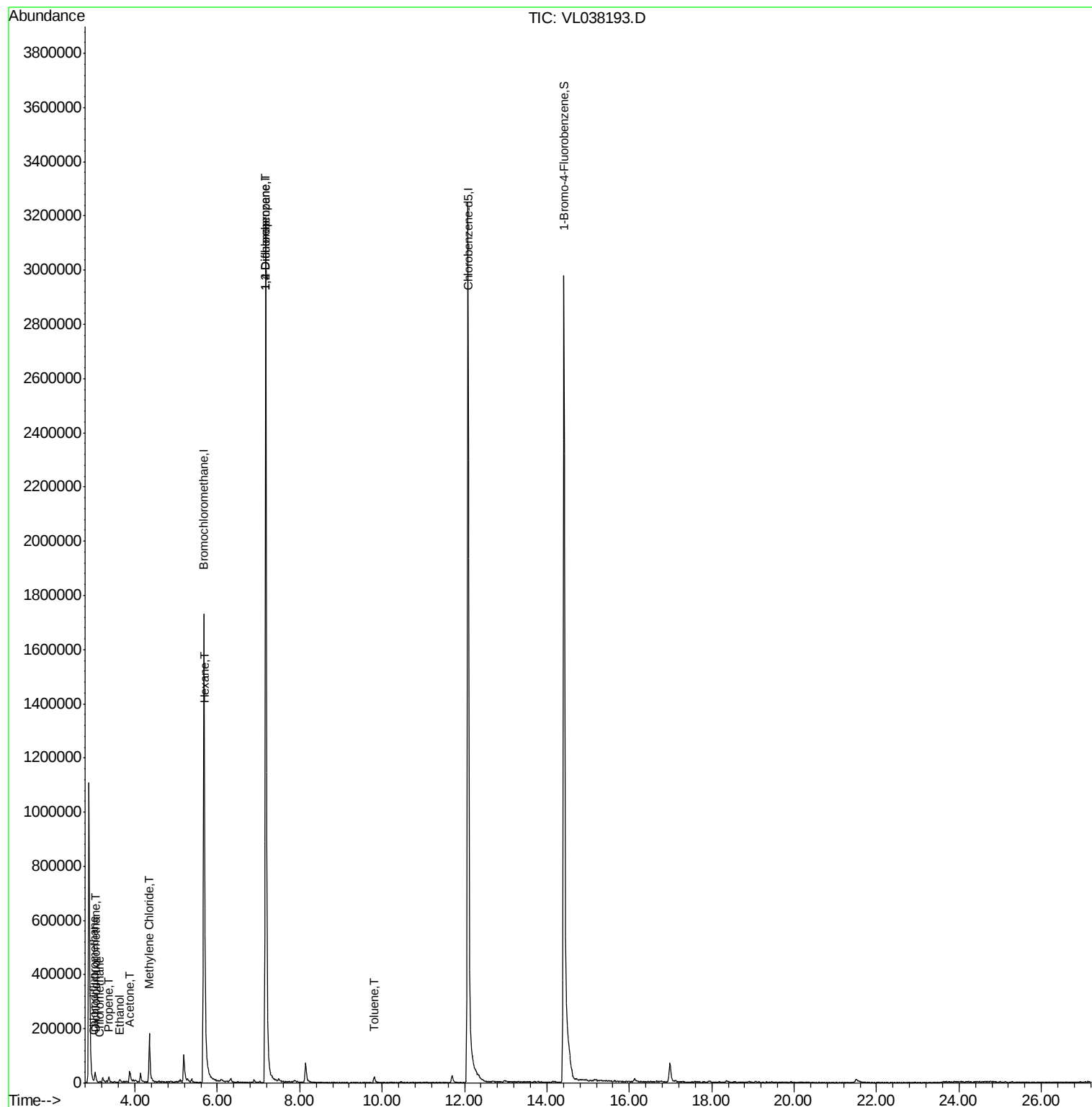
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	6196	0.036	ppbv 98
3) Chlorodifluoromethane	3.00	51	7239	0.033	ppbv # 83
4) Chloromethane	3.15	50	2840	0.038	ppbv # 83
9) Propene	3.37	41	5538	0.068	ppbv 90
13) Ethanol	3.63	45	4187	0.536	ppbv # 18
15) Acetone	3.87	43	32881	0.363	ppbv # 54
20) Methylene Chloride	4.35	84	70382	1.386	ppbv 98
26) Hexane	5.69	57	58203	0.401	ppbv # 43
39) 1,2-Dichloropropane	7.18	63	711256	6.995	ppbv # 27
53) Toluene	9.80	91	9213	0.030	ppbv # 19

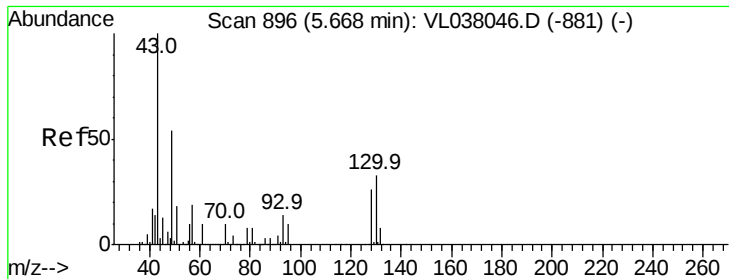
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 16 Dec 2021 17:30

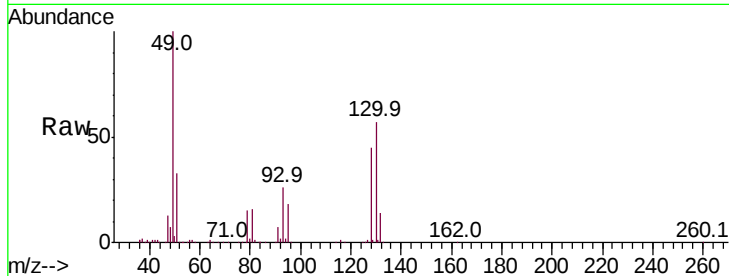
Tot Ion: 49 Resp: 1045830

Ion Ratio Lower Upper

49 100

128 47.7 26.5 79.5

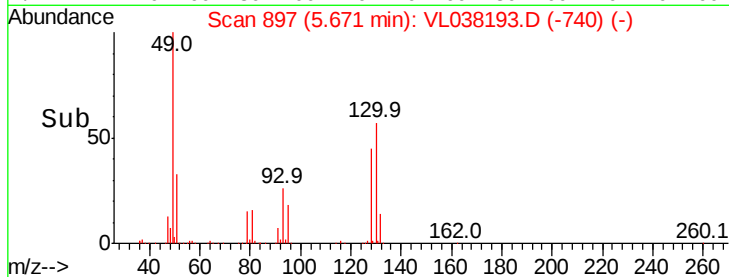
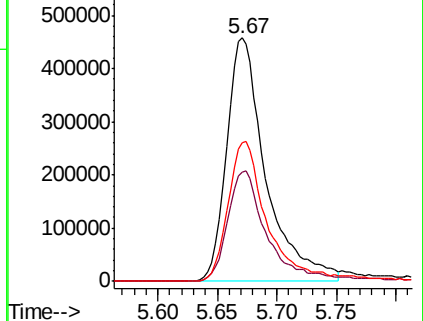
130 59.9 32.5 97.4



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: 0.036 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.00 min

Lab File: VL038193.D

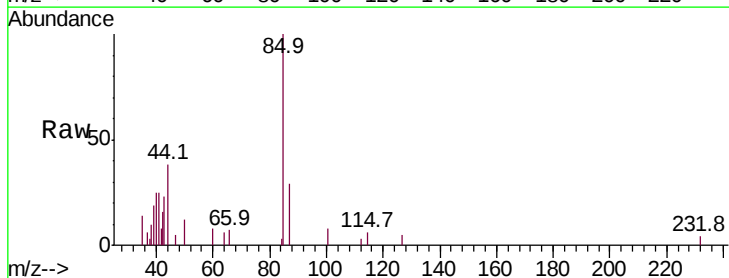
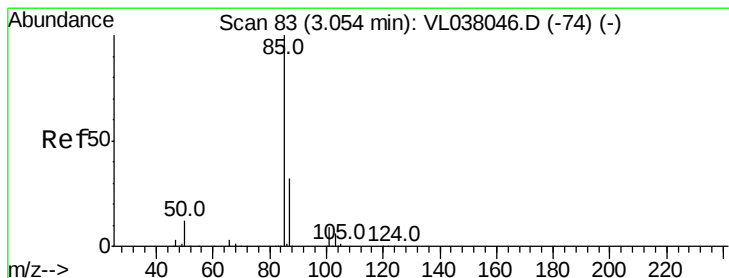
Acq: 16 Dec 2021 17:30

Tgt Ion: 85 Resp: 6196

Ion Ratio Lower Upper

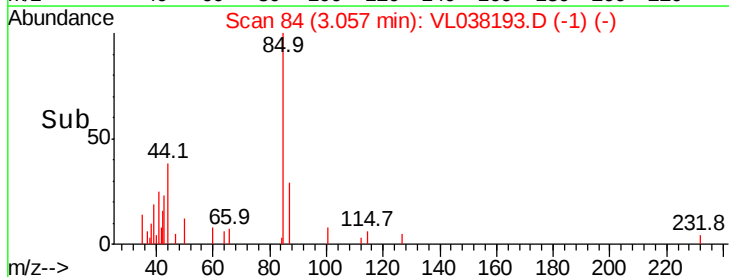
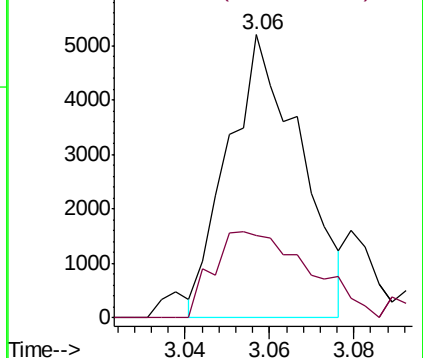
85 100

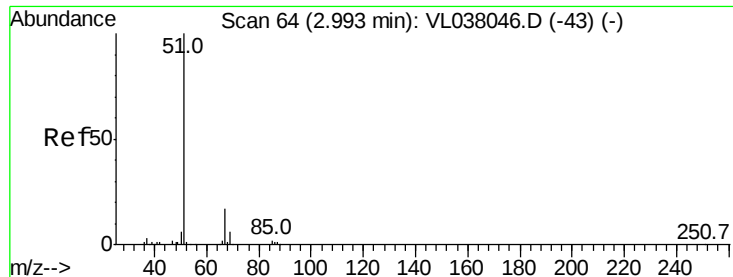
87 31.0 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.033 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

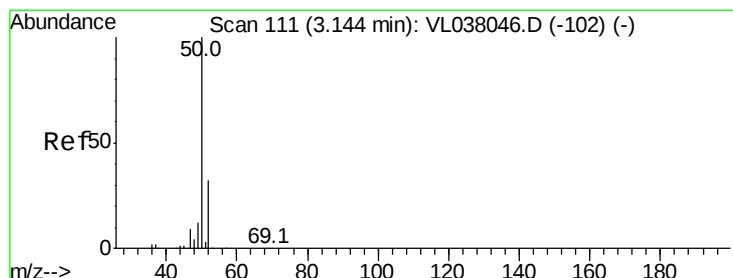
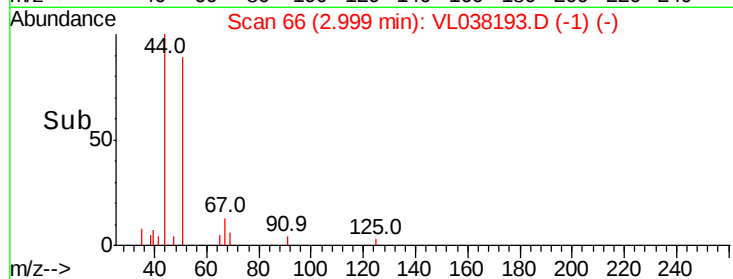
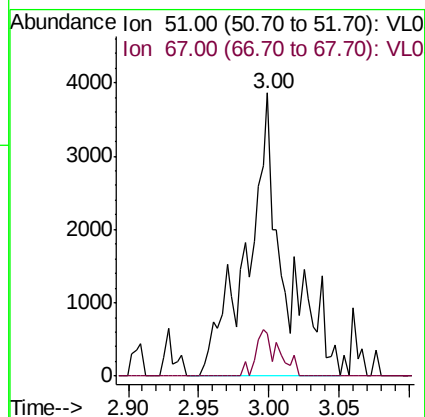
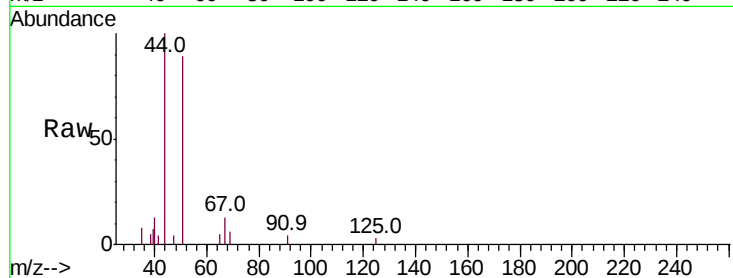
Acq: 16 Dec 2021 17:30

Tot Ion: 51 Resp: 7239

Ion Ratio Lower Upper

51 100

67 9.9 13.8 20.8#



#4

Chloromethane

Concen: 0.038 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL038193.D

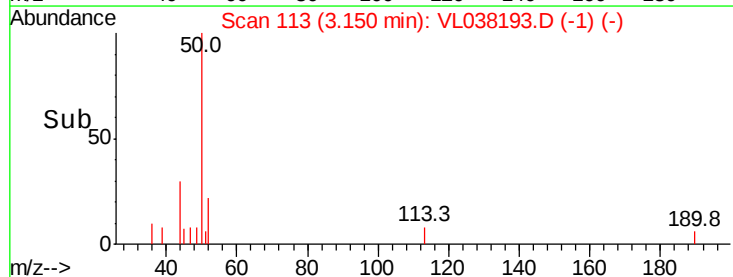
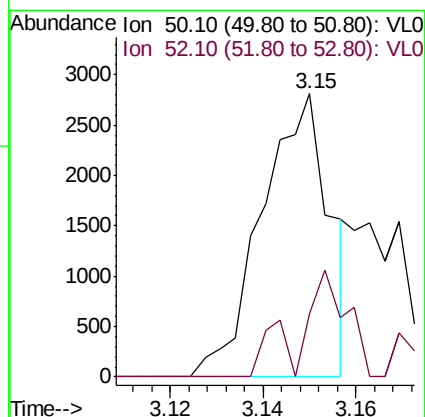
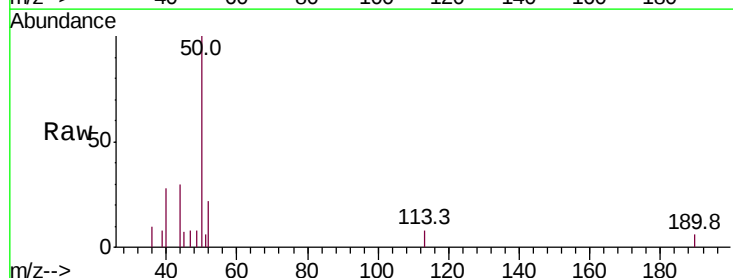
Acq: 16 Dec 2021 17:30

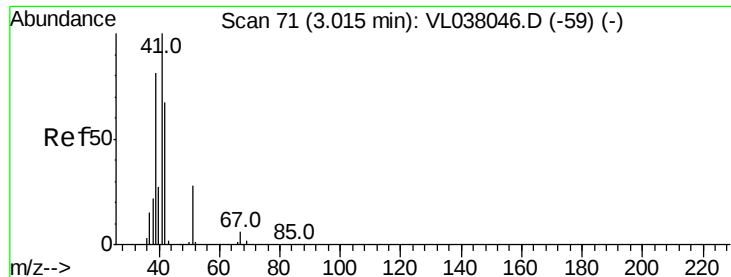
Tgt Ion: 50 Resp: 2840

Ion Ratio Lower Upper

50 100

52 22.2 25.4 38.0#





#9

Propene

Concen: 0.068 ppbv

RT: 3.37 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

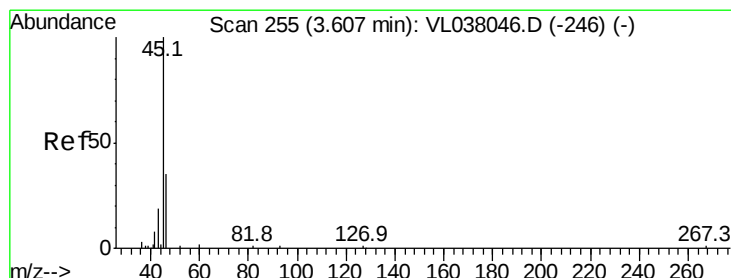
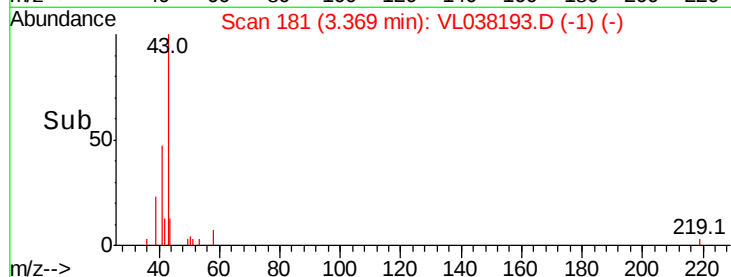
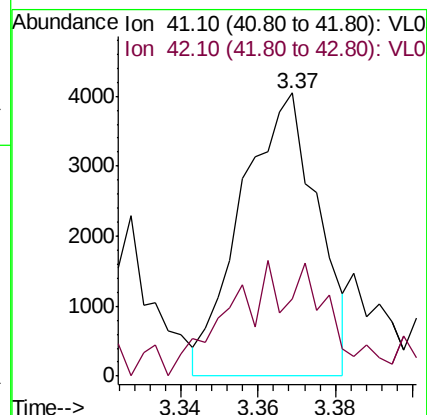
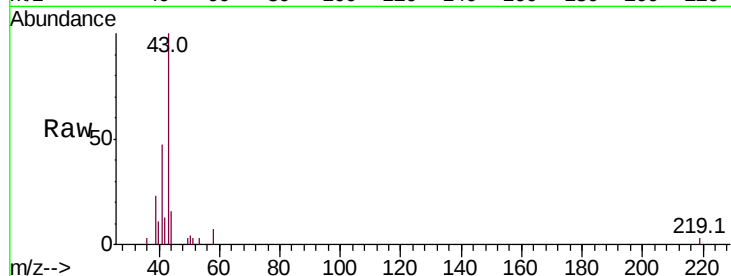
Acq: 16 Dec 2021 17:30

Tot Ion: 41 Resp: 5538

Ion Ratio Lower Upper

41 100

42 59.0 53.8 80.8



#13

Ethanol

Concen: 0.536 ppbv

RT: 3.63 min Scan# 262

Delta R.T. 0.02 min

Lab File: VL038193.D

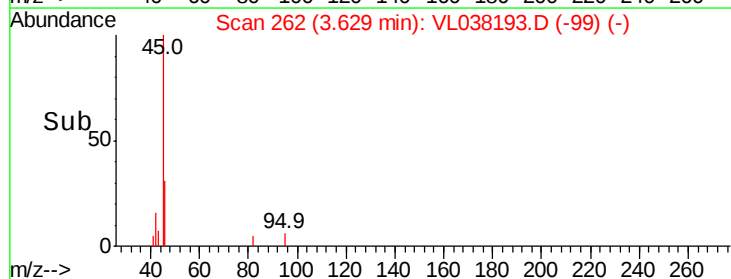
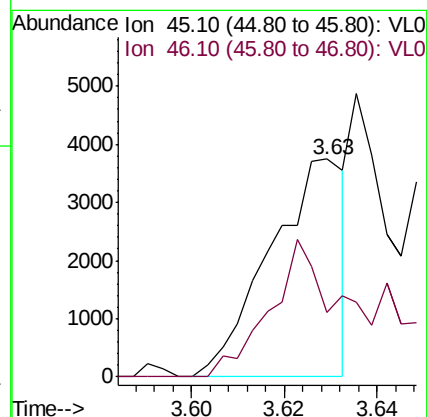
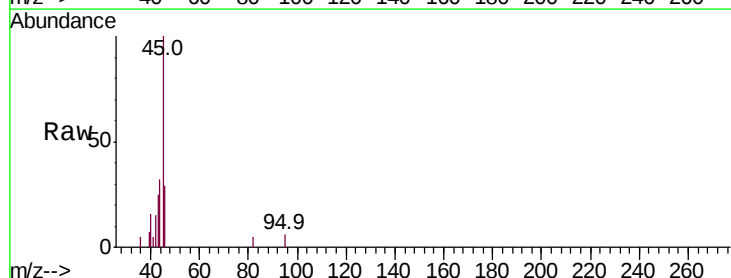
Acq: 16 Dec 2021 17:30

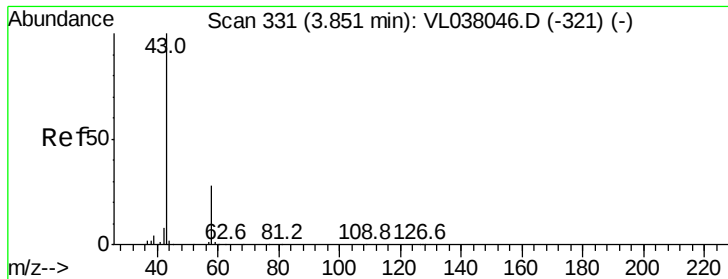
Tgt Ion: 45 Resp: 4187

Ion Ratio Lower Upper

45 100

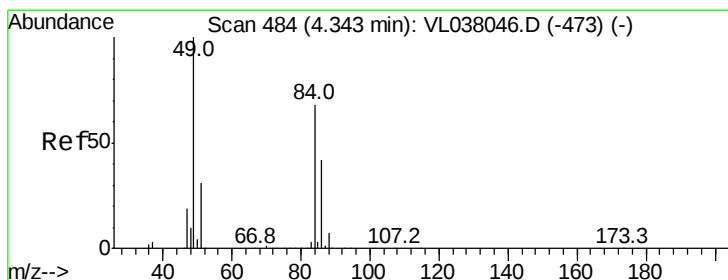
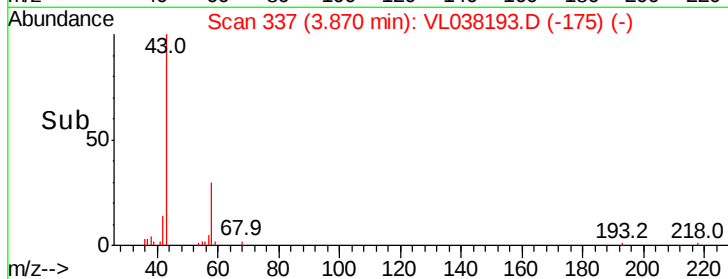
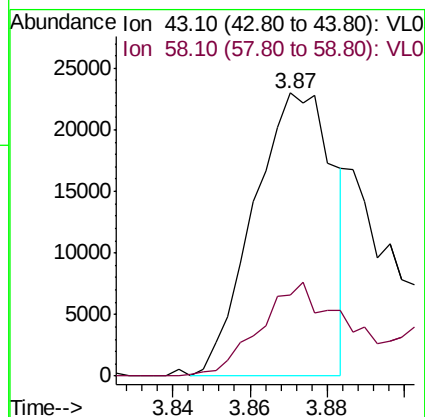
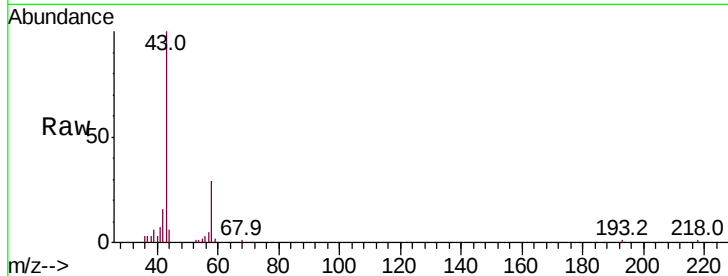
46 96.8 17.6 70.2#





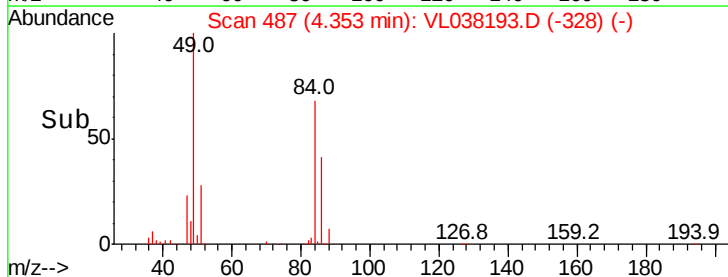
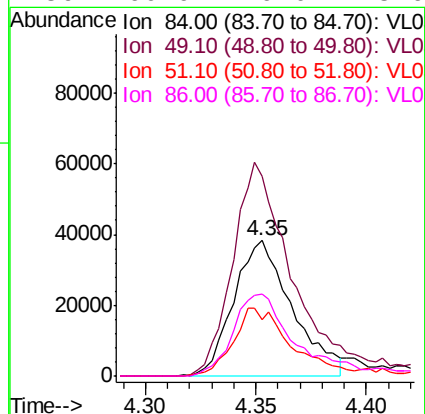
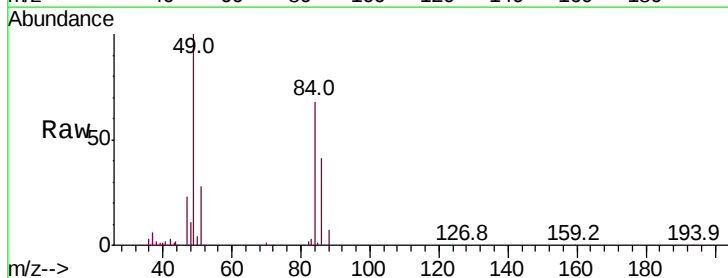
#15
Acetone
Concen: 0.363 ppbv
RT: 3.87
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 16 Dec 2021 17:30

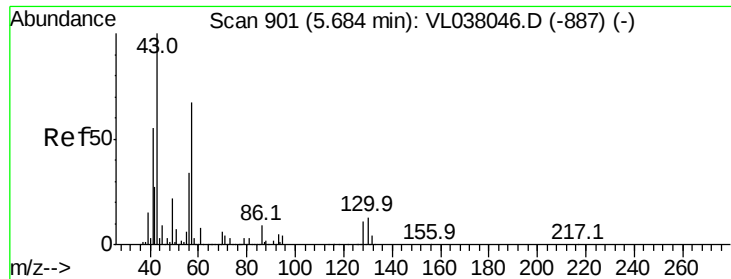
Tot Ion: 43 Resp: 32881
Ion Ratio Lower Upper
43 100
58 52.0 22.4 33.6#



#20
Methylene Chloride
Concen: 1.386 ppbv
RT: 4.35 min Scan# 487
Delta R.T. 0.01 min
Lab File: VL038193.D
Acq: 16 Dec 2021 17:30

Tgt Ion: 84 Resp: 70382
Ion Ratio Lower Upper
84 100
49 146.5 118.2 177.2
51 41.1 36.8 55.2
86 60.9 49.0 73.6





#26

Hexane

Concen: 0.401 ppbv

RT: 5.69 Instrument:

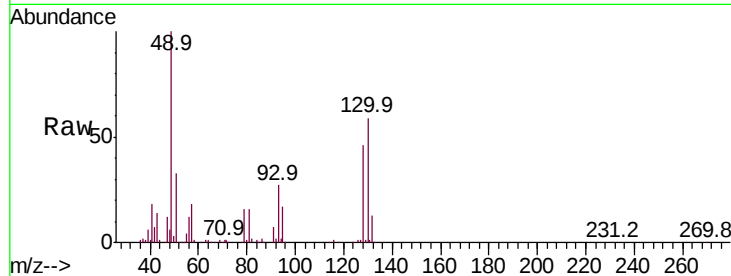
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 16 Dec 2021 17:30

Tot Ion: 57 Resp: 58203

Ion	Ratio	Lower	Upper
57	100		
41	104.3	71.4	107.2
43	81.9	174.6	261.8#
56	59.8	43.2	64.8

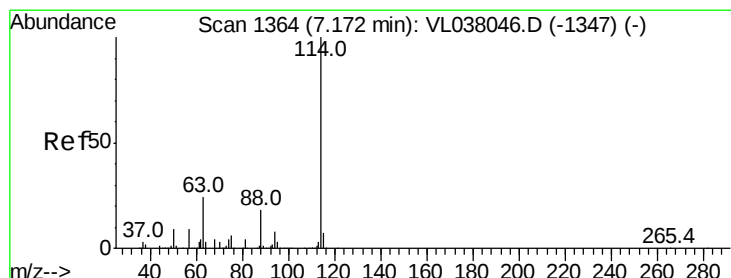
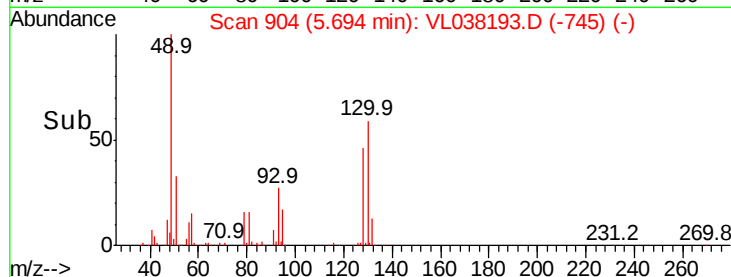
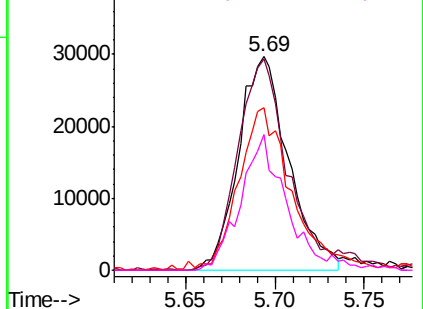


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 10.000 ppbv

RT: 7.18 min Scan# 1365

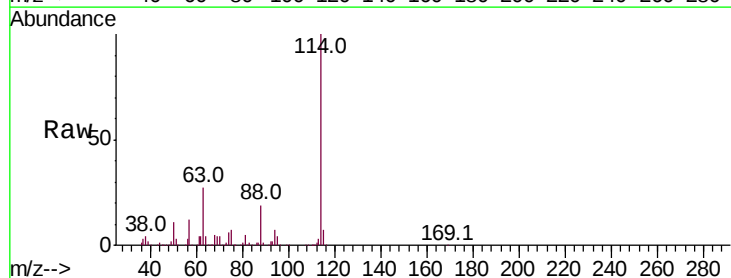
Delta R.T. 0.00 min

Lab File: VL038193.D

Acq: 16 Dec 2021 17:30

Tgt Ion: 114 Resp: 2657174

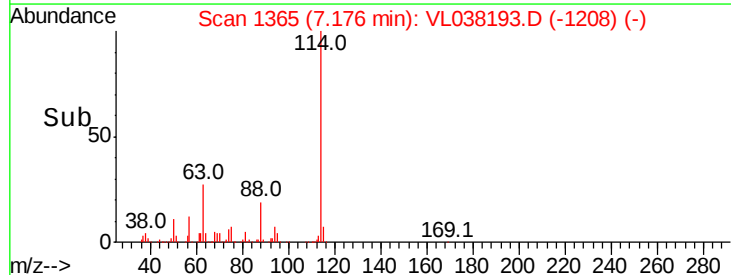
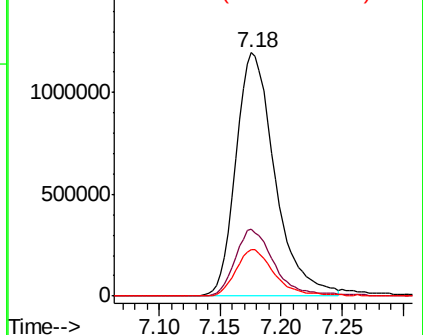
Ion	Ratio	Lower	Upper
114	100		
63	28.0	19.7	29.5
88	19.3	14.4	21.6

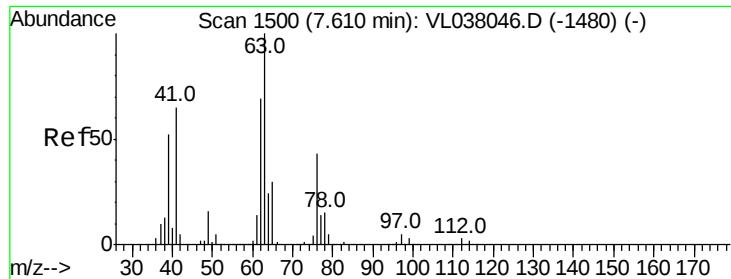


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

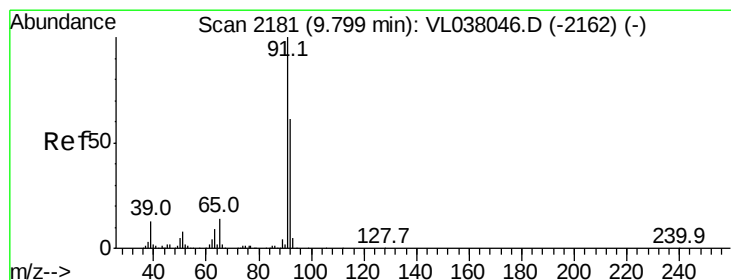
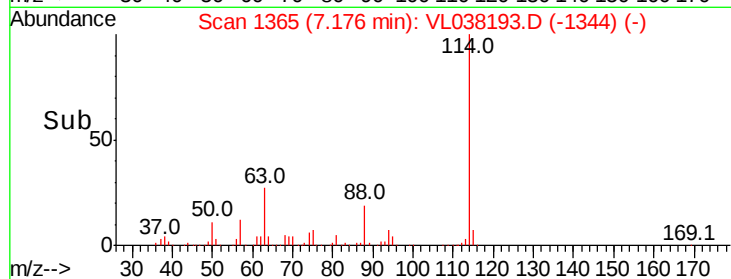
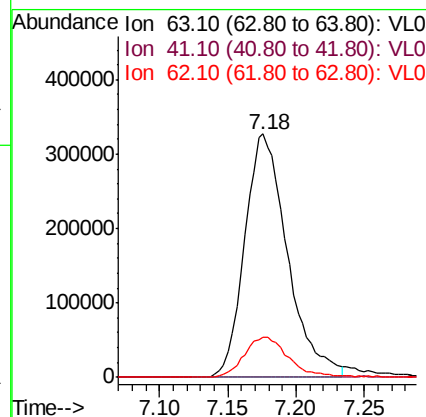
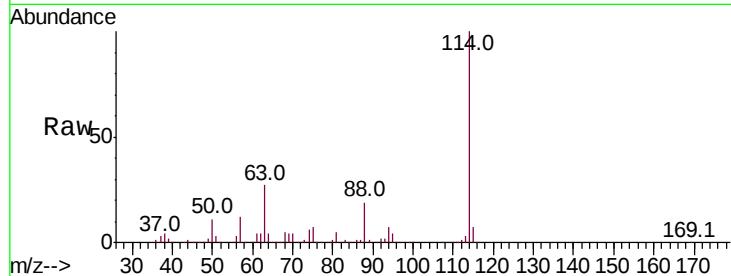
Ion 88.10 (87.80 to 88.80): VL0





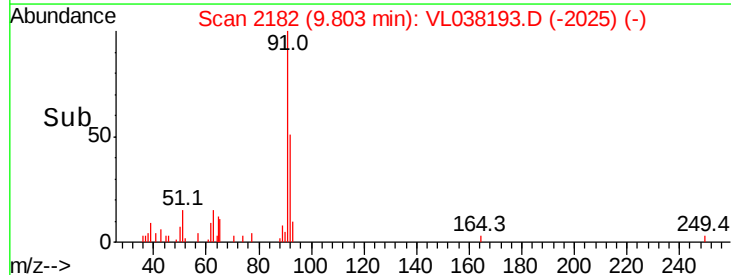
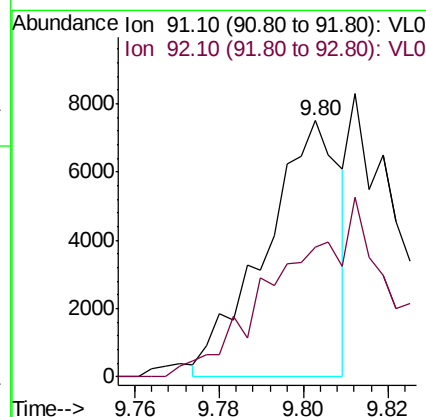
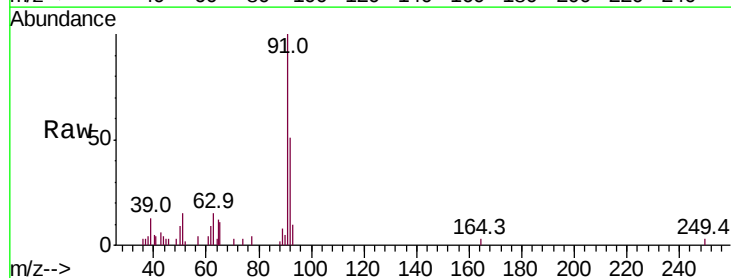
#39
 1,2-Dichloropropane
 Concen: 6.995 ppbv
 RT: 7.18
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 16 Dec 2021 17:30

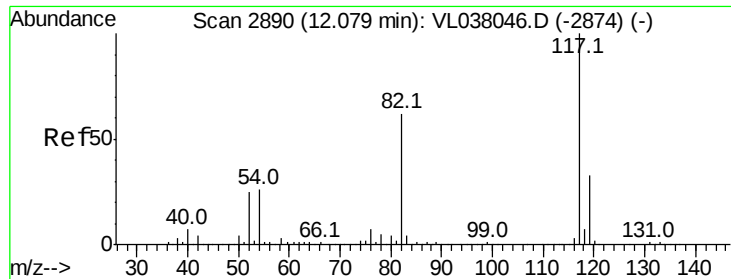
Tot Ion	63	Resp	711256
Ion Ratio	Lower	Upper	
63	100		
41	0.0	52.3	78.5#
62	16.2	55.1	82.7#



#53
 Toluene
 Concen: 0.030 ppbv
 RT: 9.80 min Scan# 2182
 Delta R.T.: 0.00 min
 Lab File: VL038193.D
 Acq: 16 Dec 2021 17:30

Tgt Ion	91	Resp	9213
Ion Ratio	Lower	Upper	
91	100		
92	0.0	49.7	74.5#

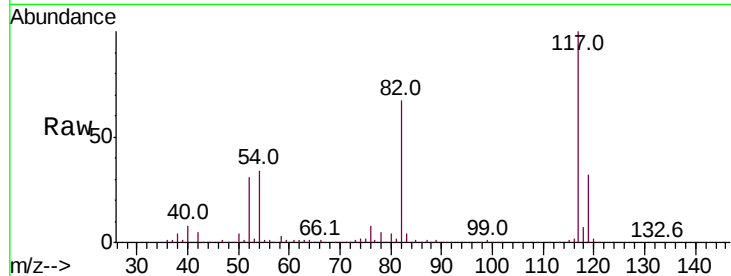




#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.08 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 16 Dec 2021 17:30

Tot Ion: 117 Resp: 2312100

Ion	Ratio	Lower	Upper
117	100		
82	72.2	52.8	79.2
119	34.5	26.8	40.2

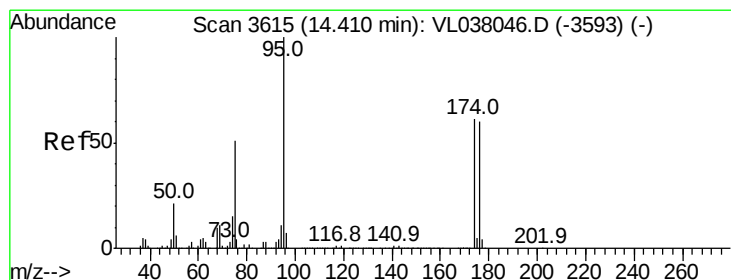
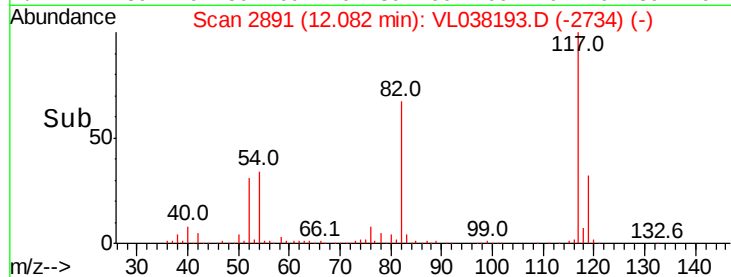
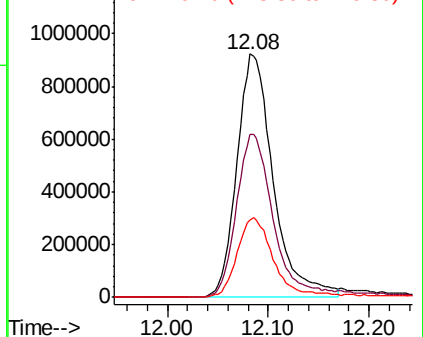


Abundance

Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

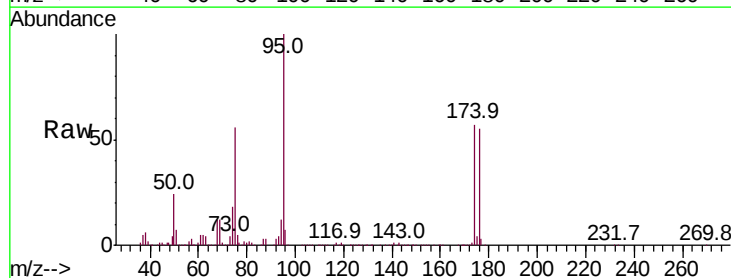
Ion 119.10 (118.80 to 119.80): V



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.656 ppbv
 RT: 14.41 min Scan# 3616
 Delta R.T.: 0.00 min
 Lab File: VL038193.D
 Acq: 16 Dec 2021 17:30

Tgt Ion: 95 Resp: 1777232

Ion	Ratio	Lower	Upper
95	100		
174	63.0	53.1	79.7
175	4.6	4.0	6.0



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

