

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092821\
 Data File : VL037705.D
 Acq On : 28 Sep 2021 16:54
 Operator : SY/AP
 Sample : M3896-01DL2 400X
 Misc : 400mL/MSVOA L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

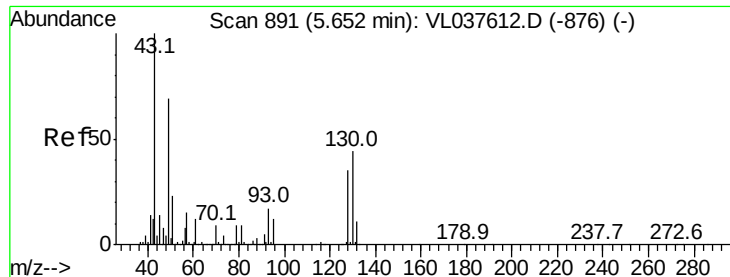
Quant Time: Sep 29 03:41:20 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 13:42:46 2021
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1360503	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	4065630	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	3453710	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2434196	9.75	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	3.01	51	9005	0.035	ppbv	99
7) Chloroethane	3.57	64	1648	0.050	ppbv	98
9) Propene	3.03	41	10019	0.111	ppbv #	14
11) Trichlorofluoromethane	3.96	101	19580	0.099	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.50	101	61241	0.420	ppbv	94
13) Ethanol	3.63	45	995	0.112	ppbv #	33
15) Acetone	3.89	43	10945	0.077	ppbv #	44
18) 1,1-Dichloroethene	4.30	96	14760	0.217	ppbv #	74
20) Methylene Chloride	4.36	84	11695	0.173	ppbv	89
24) 1,1-Dichloroethane	5.08	63	6012	0.043	ppbv	98
26) Hexane	5.70	57	8335	0.051	ppbv #	68
32) 1,1,1-Trichloroethane	6.52	97	3668544	16.593	ppbv	99
37) 1,2-Dichloroethane	6.52	62	241873	1.451	ppbv #	1
39) 1,2-Dichloropropane	7.19	63	964486	7.428	ppbv #	26

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 28 Sep 2021 16:54

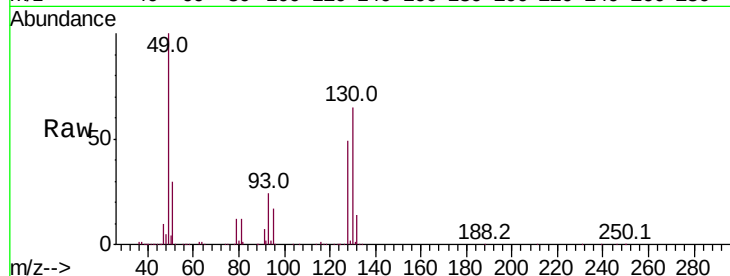
Tot Ion: 49 Resp: 1360503

Ion Ratio Lower Upper

49 100

128 53.9 27.9 83.6

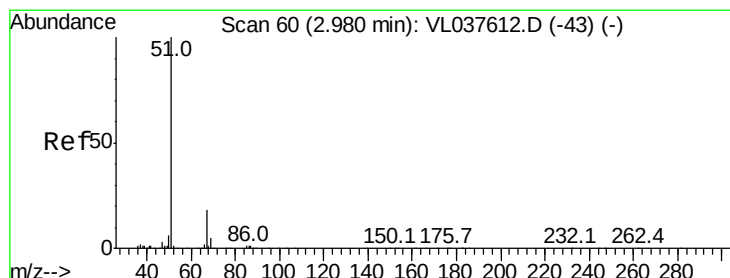
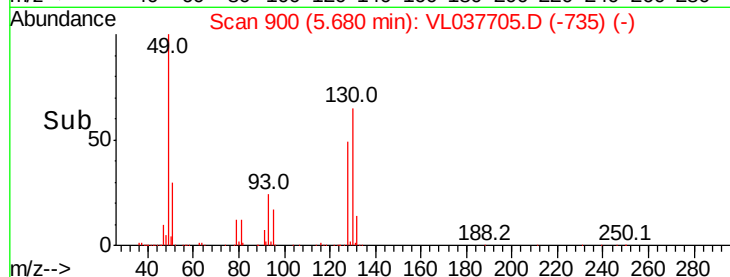
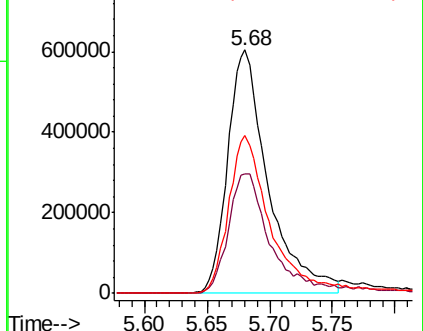
130 69.6 33.9 101.7



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



#3

Chlorodifluoromethane

Concen: 0.035 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.03 min

Lab File: VL037705.D

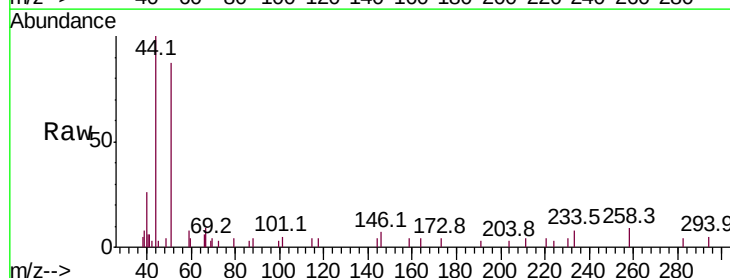
Acq: 28 Sep 2021 16:54

Tgt Ion: 51 Resp: 9005

Ion Ratio Lower Upper

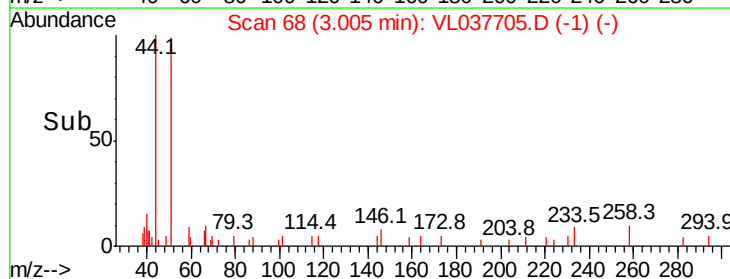
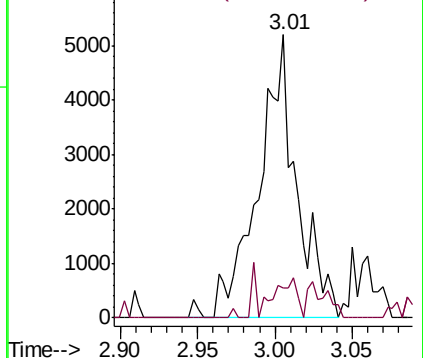
51 100

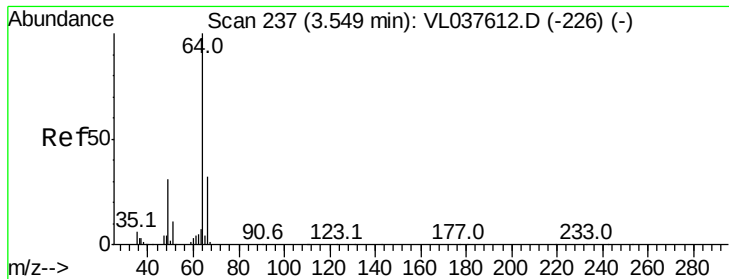
67 17.0 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#7

Chloroethane

Concen: 0.050 ppbv

RT: 3.57 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

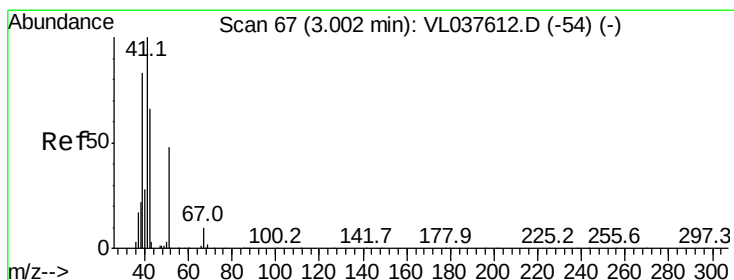
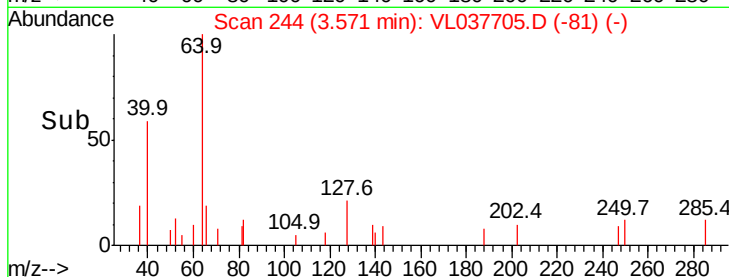
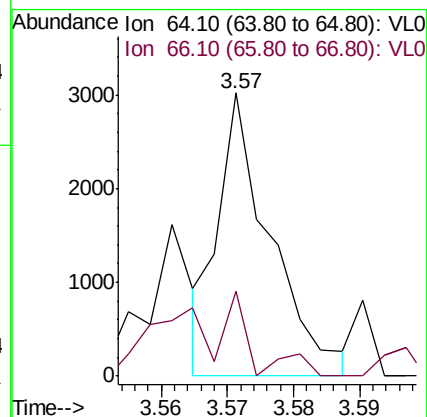
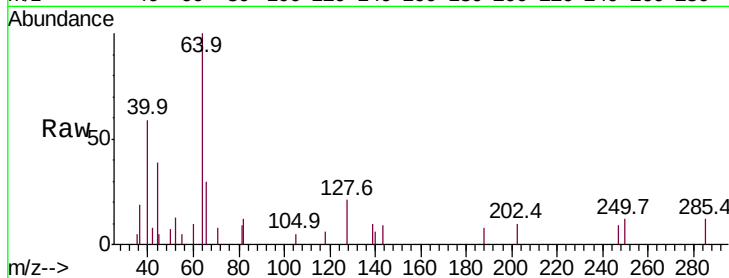
Acq: 28 Sep 2021 16:54

Tot Ion: 64 Resp: 1648

Ion Ratio Lower Upper

64 100

66 30.2 25.3 37.9



#9

Propene

Concen: 0.111 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.03 min

Lab File: VL037705.D

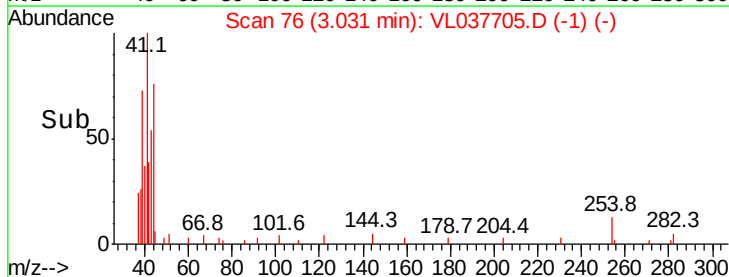
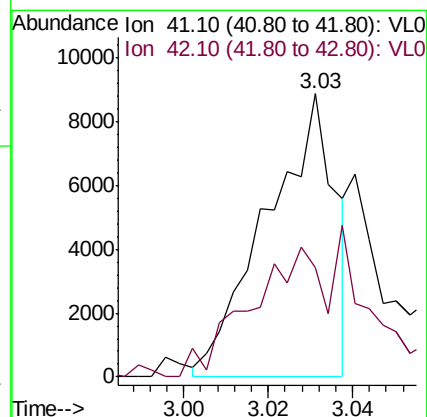
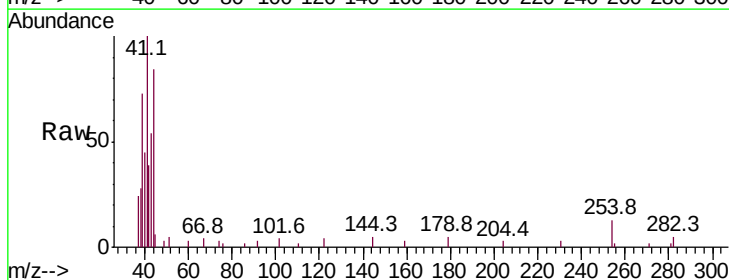
Acq: 28 Sep 2021 16:54

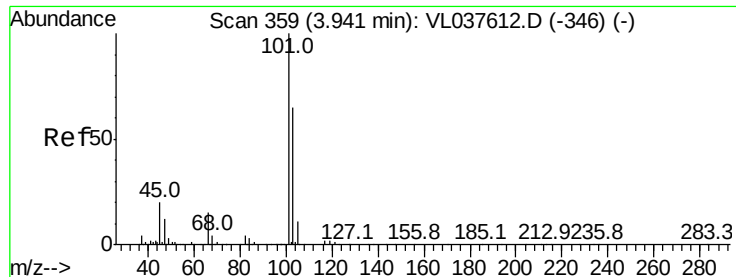
Tgt Ion: 41 Resp: 10019

Ion Ratio Lower Upper

41 100

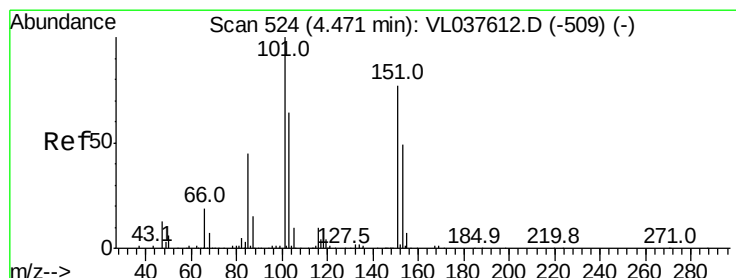
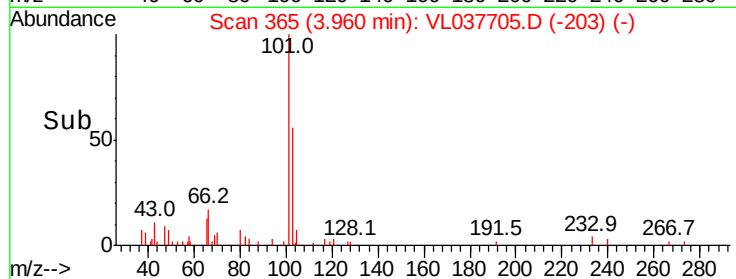
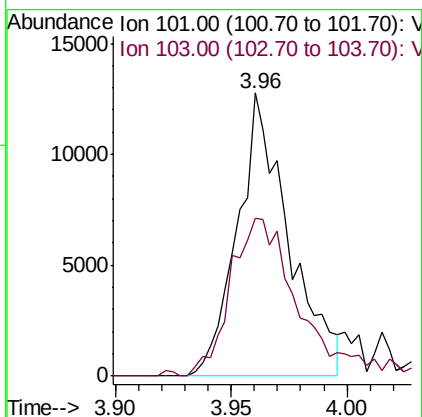
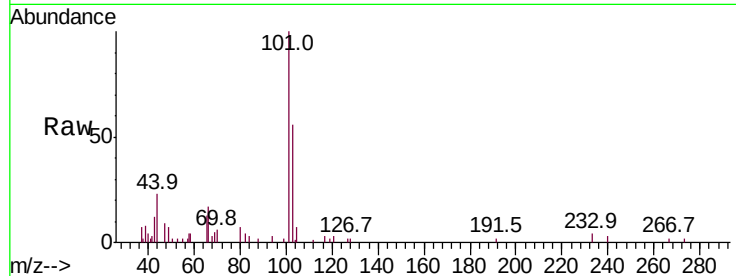
42 0.0 57.2 85.8#





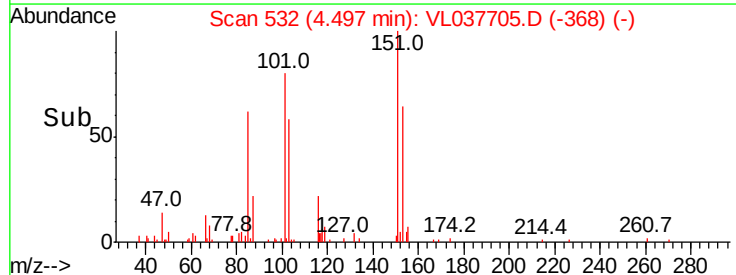
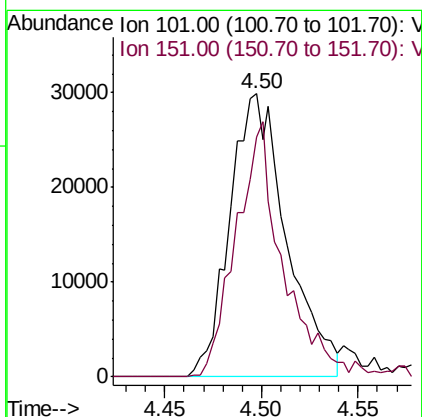
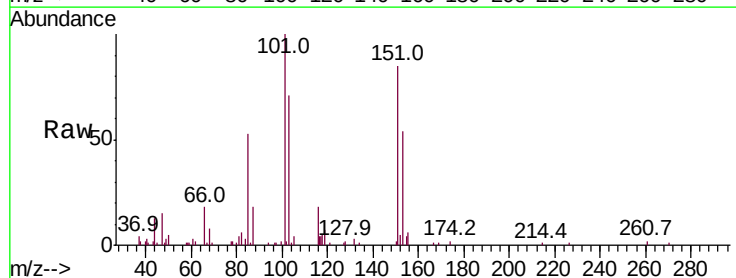
#11
 Trichlorofluoromethane
 Concen: 0.099 ppbv
 RT: 3.96
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 28 Sep 2021 16:54

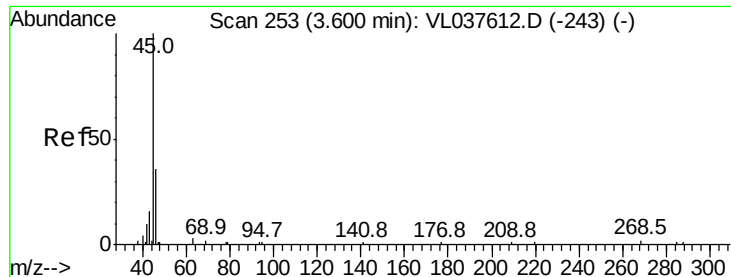
Tot Ion:101 Resp: 19580
 Ion Ratio Lower Upper
 101 100
 103 55.7 51.9 77.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.420 ppbv
 RT: 4.50 min Scan# 532
 Delta R.T. 0.03 min
 Lab File: VL037705.D
 Acq: 28 Sep 2021 16:54

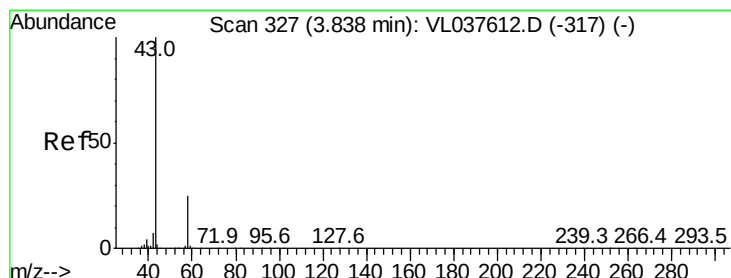
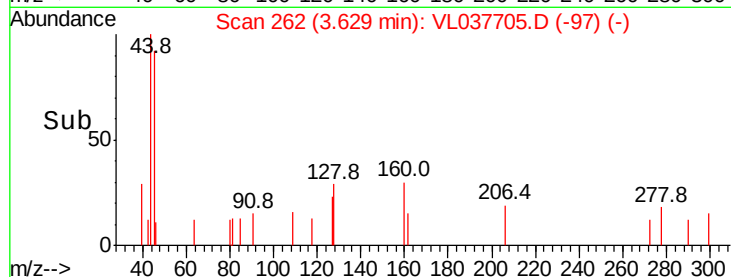
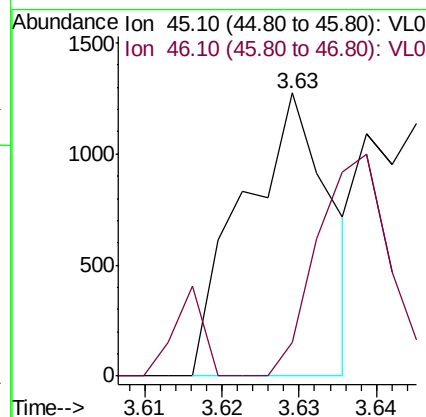
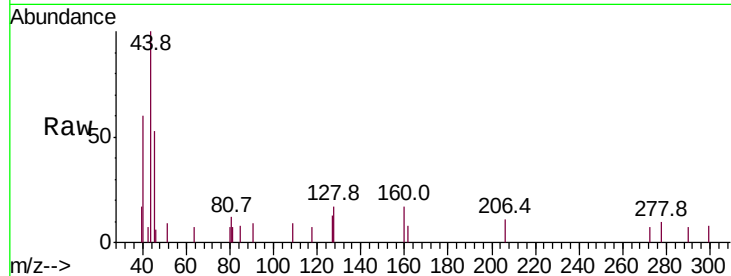
Tgt Ion:101 Resp: 61241
 Ion Ratio Lower Upper
 101 100
 151 74.4 63.5 95.3





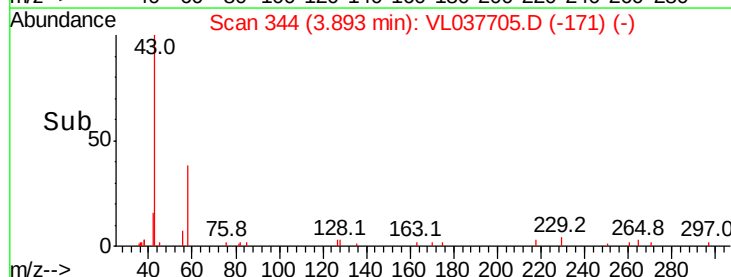
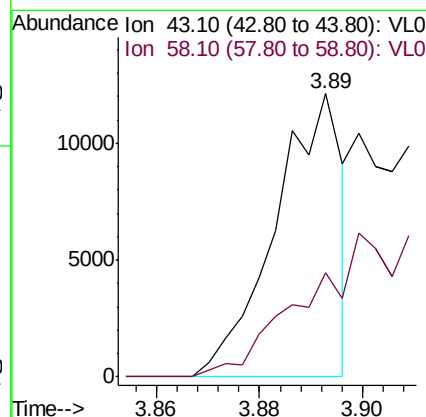
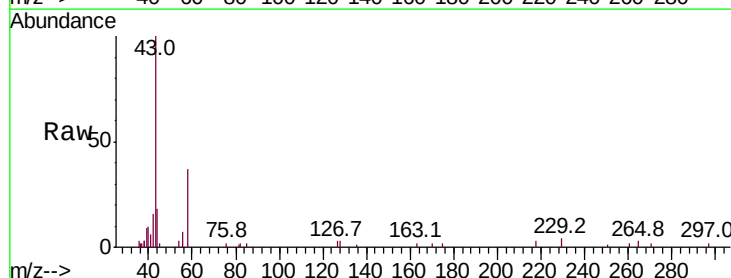
#13
 Ethanol
 Concen: 0.112 ppbv
 RT: 3.63
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 28 Sep 2021 16:54

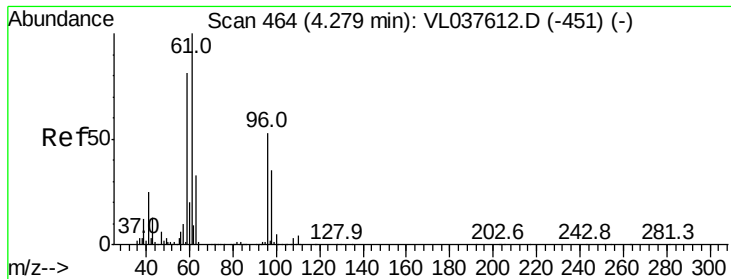
Tot Ion: 45 Resp: 995
 Ion Ratio Lower Upper
 45 100
 46 0.0 17.2 68.8#



#15
 Acetone
 Concen: 0.077 ppbv
 RT: 3.89 min Scan# 344
 Delta R.T. 0.05 min
 Lab File: VL037705.D
 Acq: 28 Sep 2021 16:54

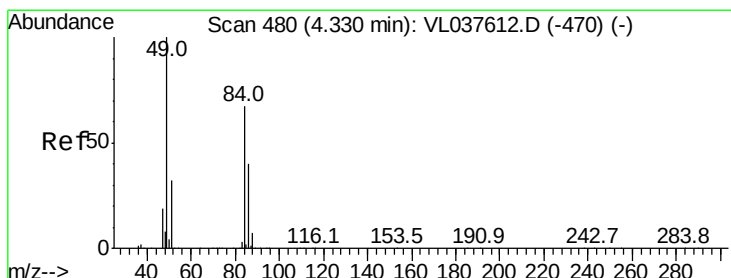
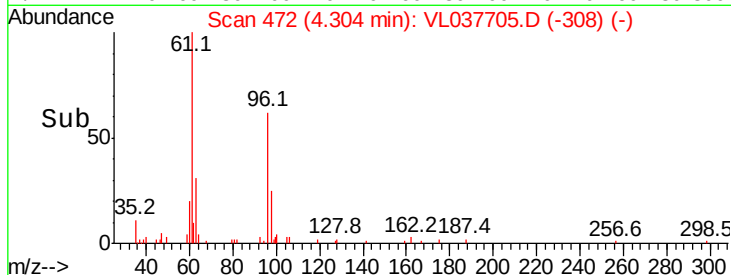
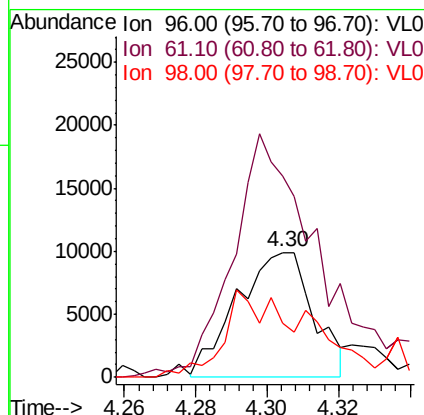
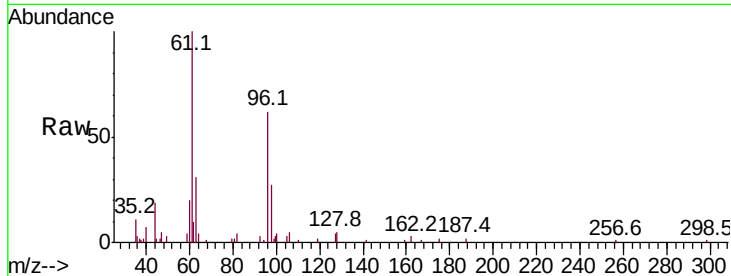
Tgt Ion: 43 Resp: 10945
 Ion Ratio Lower Upper
 43 100
 58 0.0 24.9 37.3#





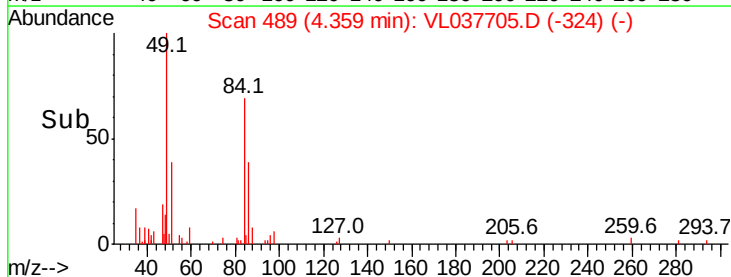
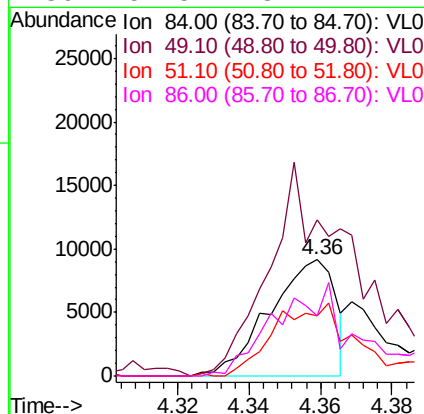
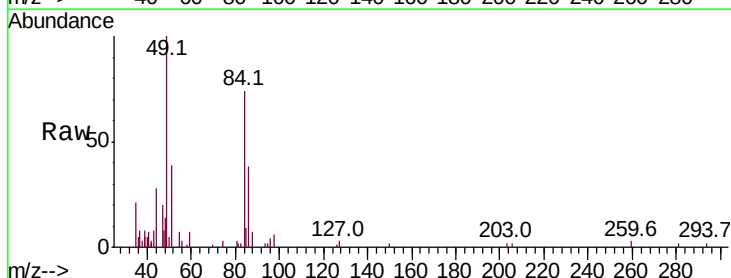
#18
 1,1-Dichloroethene
 Concen: 0.217 ppbv
 RT: 4.30 Instrument :
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 Acq: 28 Sep 2021 16:54

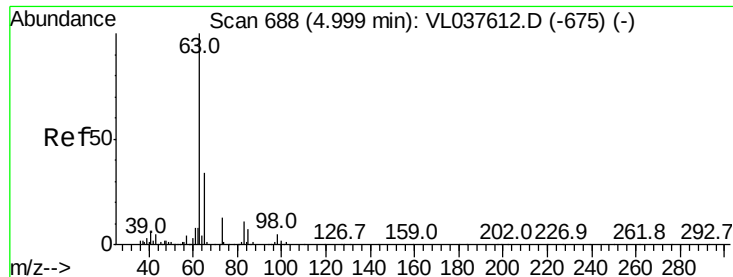
Tot Ion	96	Resp	14760
Ion Ratio	Lower	Upper	
96	100		
61	156.6	150.4	225.6
98	33.1	52.1	78.1#



#20
 Methylene Chloride
 Concen: 0.173 ppbv
 RT: 4.36 min Scan# 489
 Delta R.T. 0.03 min
 Lab File: VL037705.D
 Acq: 28 Sep 2021 16:54

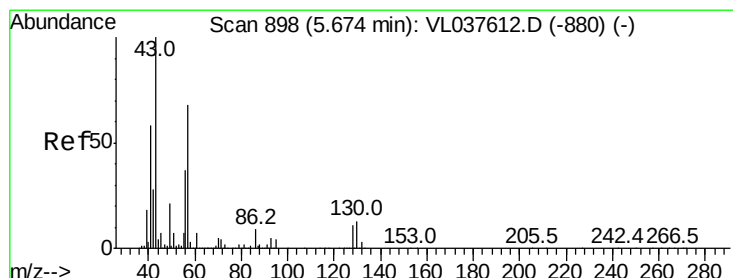
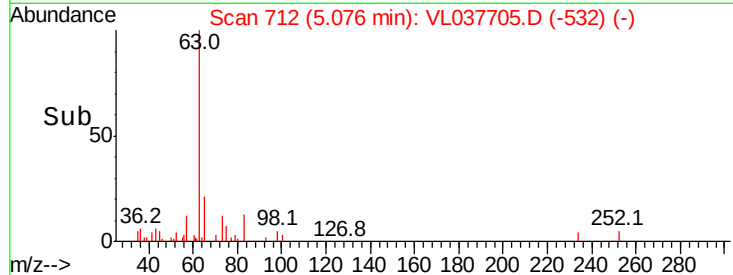
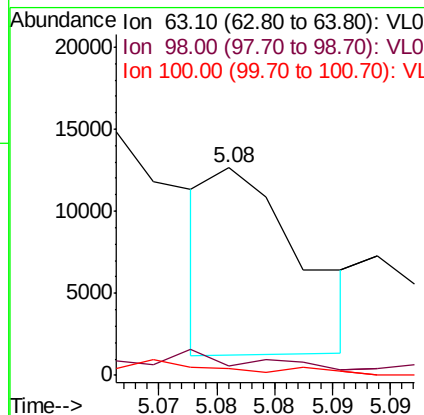
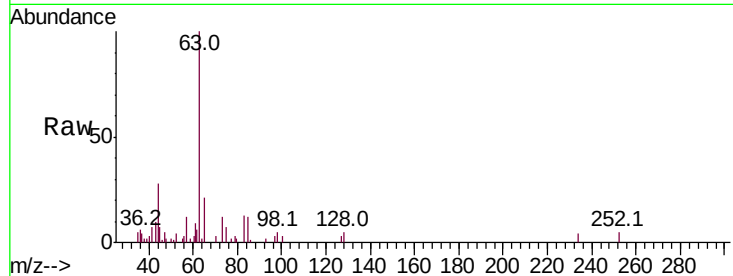
Tgt Ion	84	Resp	11695
Ion Ratio	Lower	Upper	
84	100		
49	134.4	120.0	180.0
51	52.1	38.0	57.0
86	51.5	48.2	72.2





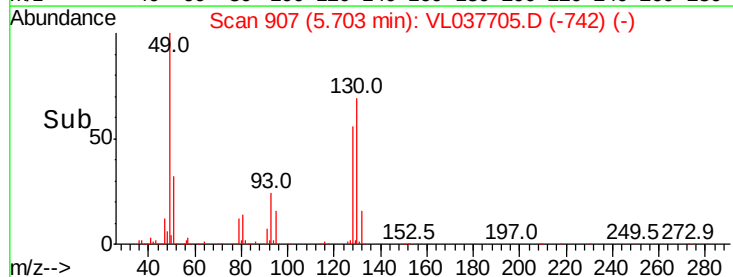
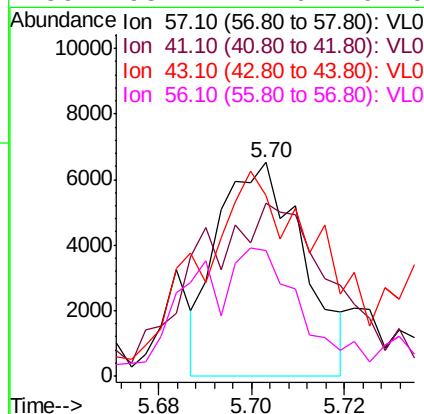
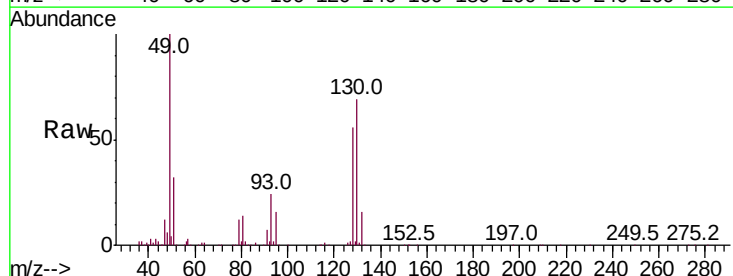
#24
 1,1-Dichloroethane
 Concen: 0.043 ppbv
 RT: 5.08
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 28 Sep 2021 16:54

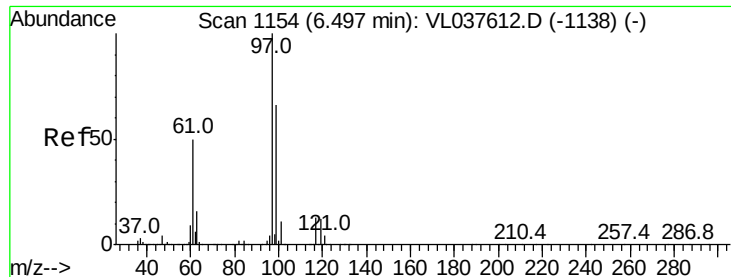
Tot Ion:	63	Resp:	6012
Ion	Ratio	Lower	Upper
63	100		
98	3.9	2.4	7.2
100	2.4	1.1	3.5



#26
 Hexane
 Concen: 0.051 ppbv
 RT: 5.70 min Scan# 907
 Delta R.T. 0.03 min
 Lab File: VL037705.D
 Acq: 28 Sep 2021 16:54

Tgt Ion:	57	Resp:	8335
Ion	Ratio	Lower	Upper
57	100		
41	144.5	70.9	106.3#
43	190.4	170.4	255.6
56	93.1	42.6	64.0#

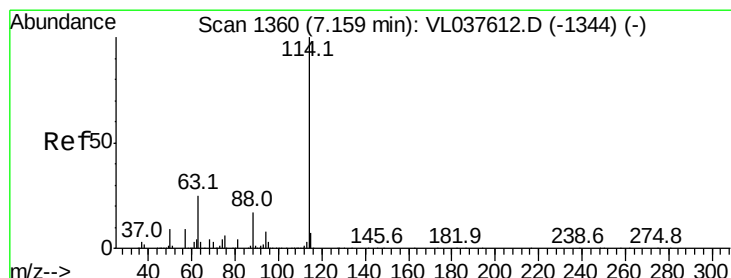
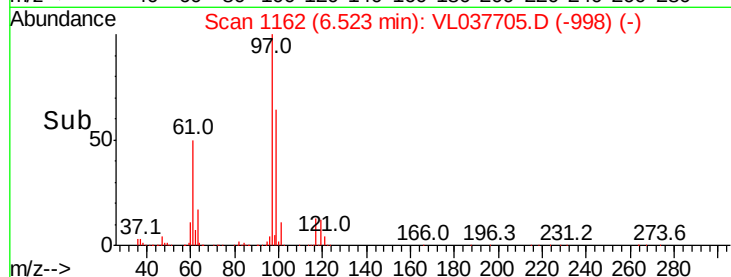
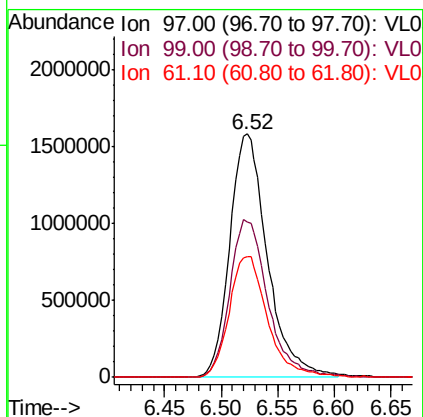
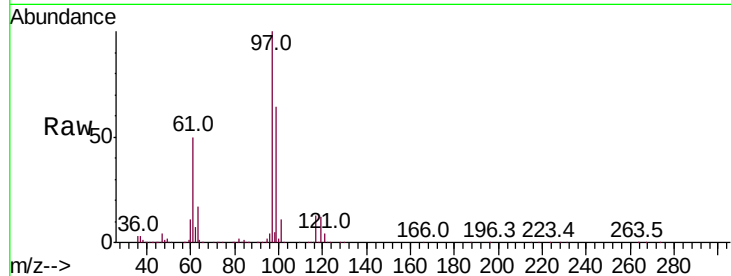




#32
 1,1,1-Trichloroethane
 Concen: 16.593 ppbv
 RT: 6.52 min
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 Acq: 28 Sep 2021 16:54

Tot Ion: 97 Resp: 3668544

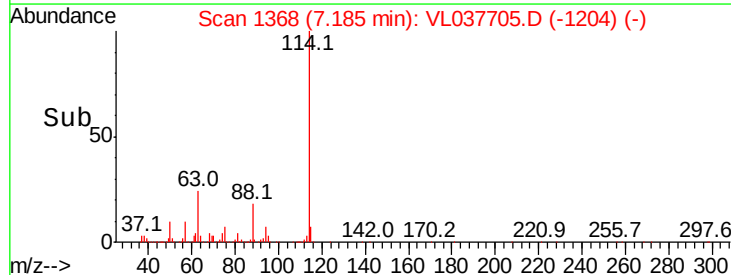
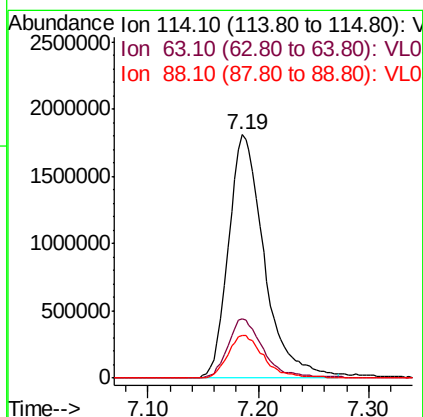
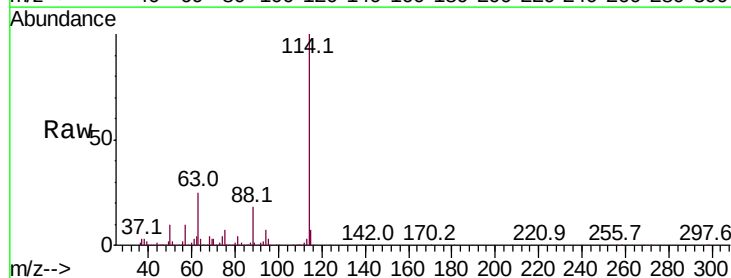
Ion	Ratio	Lower	Upper
97	100		
99	66.0	52.3	78.5
61	50.9	39.5	59.3

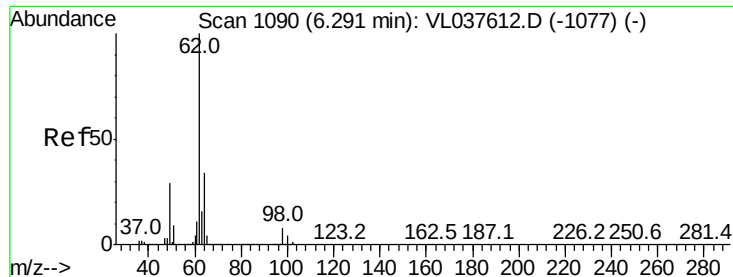


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. 0.03 min
 Lab File: VL037705.D
 Acq: 28 Sep 2021 16:54

Tgt Ion: 114 Resp: 4065630

Ion	Ratio	Lower	Upper
114	100		
63	24.5	19.6	29.4
88	17.8	14.2	21.4





#37

1,2-Dichloroethane

Concen: 1.451 ppbv

RT: 6.52 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

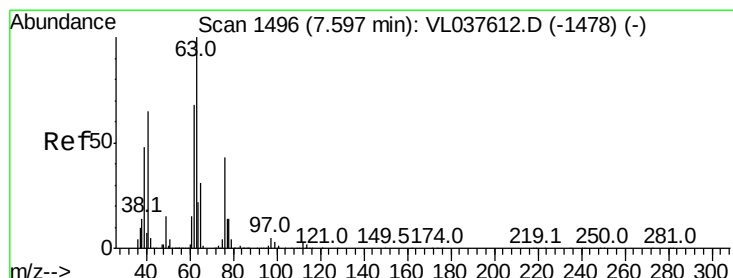
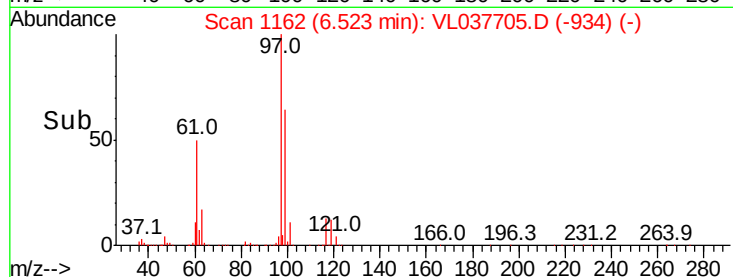
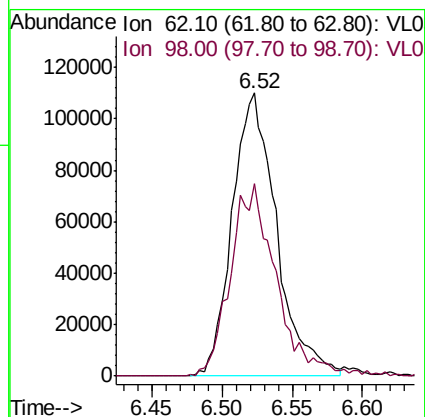
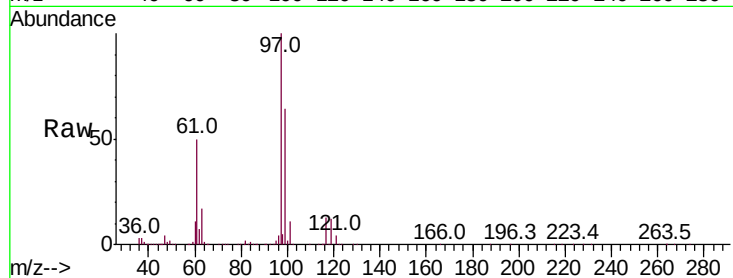
Acq: 28 Sep 2021 16:54

Tot Ion: 62 Resp: 241873

Ion Ratio Lower Upper

62 100

98 70.3 6.1 9.1#



#39

1,2-Dichloropropane

Concen: 7.428 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.41 min

Lab File: VL037705.D

Acq: 28 Sep 2021 16:54

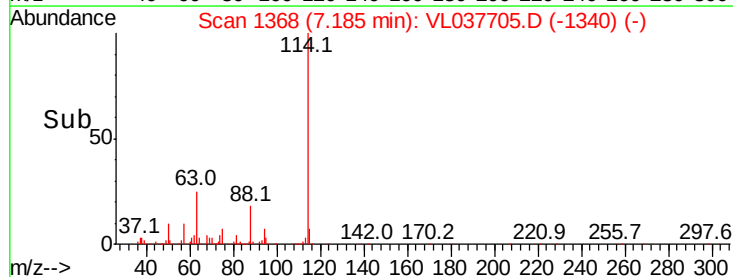
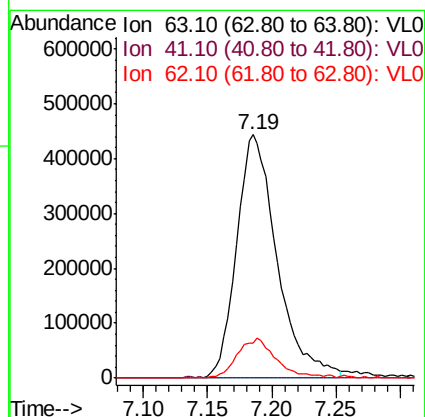
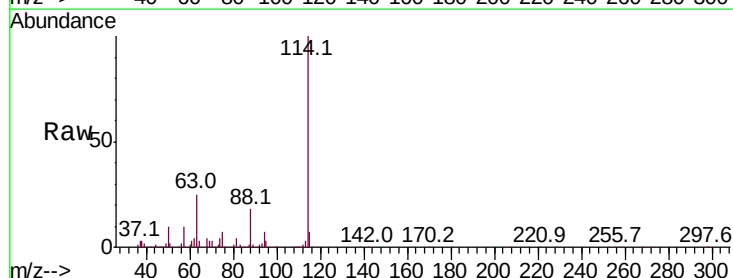
Tgt Ion: 63 Resp: 964486

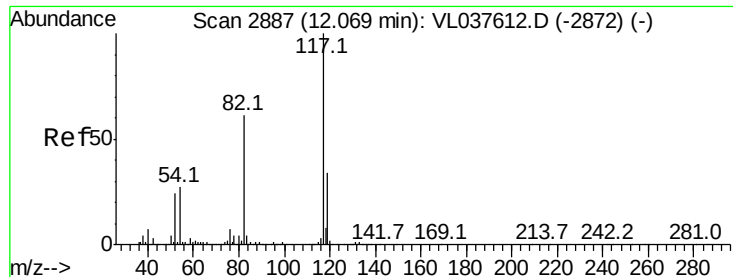
Ion Ratio Lower Upper

63 100

41 0.0 51.6 77.4#

62 14.5 54.6 81.8#

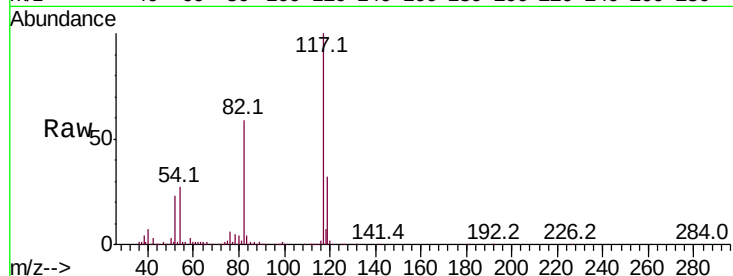




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 28 Sep 2021 16:54

Tot Ion: 117 Resp: 3453710

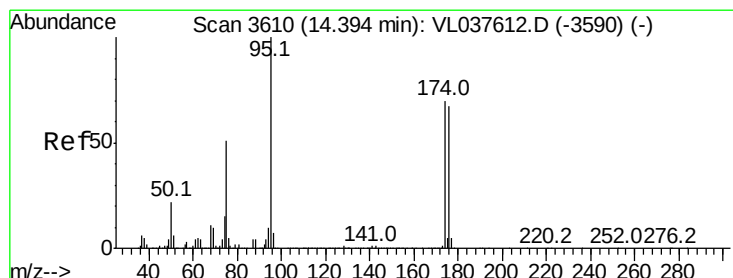
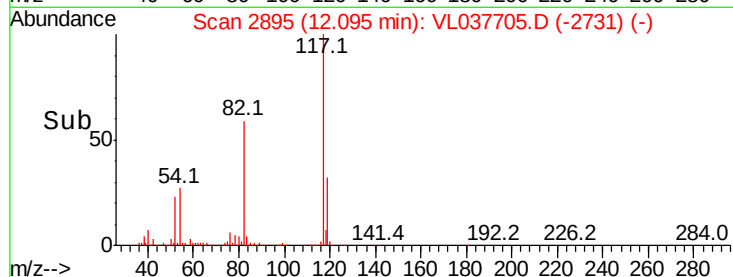
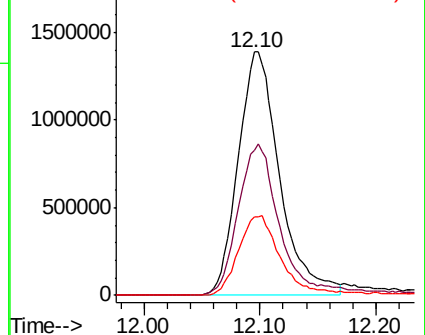
Ion	Ratio	Lower	Upper
117	100		
82	64.1	50.6	75.8
119	34.8	26.2	39.2



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

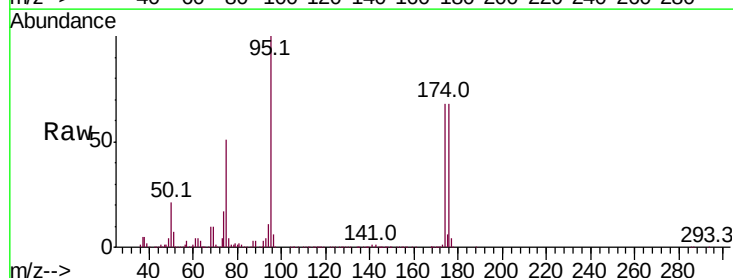
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.752 ppbv
RT: 14.43 min Scan# 3620
Delta R.T.: 0.03 min
Lab File: VL037705.D
Acq: 28 Sep 2021 16:54

Tgt Ion: 95 Resp: 2434196

Ion	Ratio	Lower	Upper
95	100		
174	78.1	56.3	84.5
175	5.9	4.4	6.6



Abundance Ion 95.10 (94.80 to 95.80): V

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

