

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090921\
 Data File : VL037599.D
 Acq On : 9 Sep 2021 15:20
 Operator : SY/AP
 Sample : M3663-07DL2 80X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 10 01:33:10 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1409972	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	4277614	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	3762047	10.00	ppbv	0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2662655	9.96	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

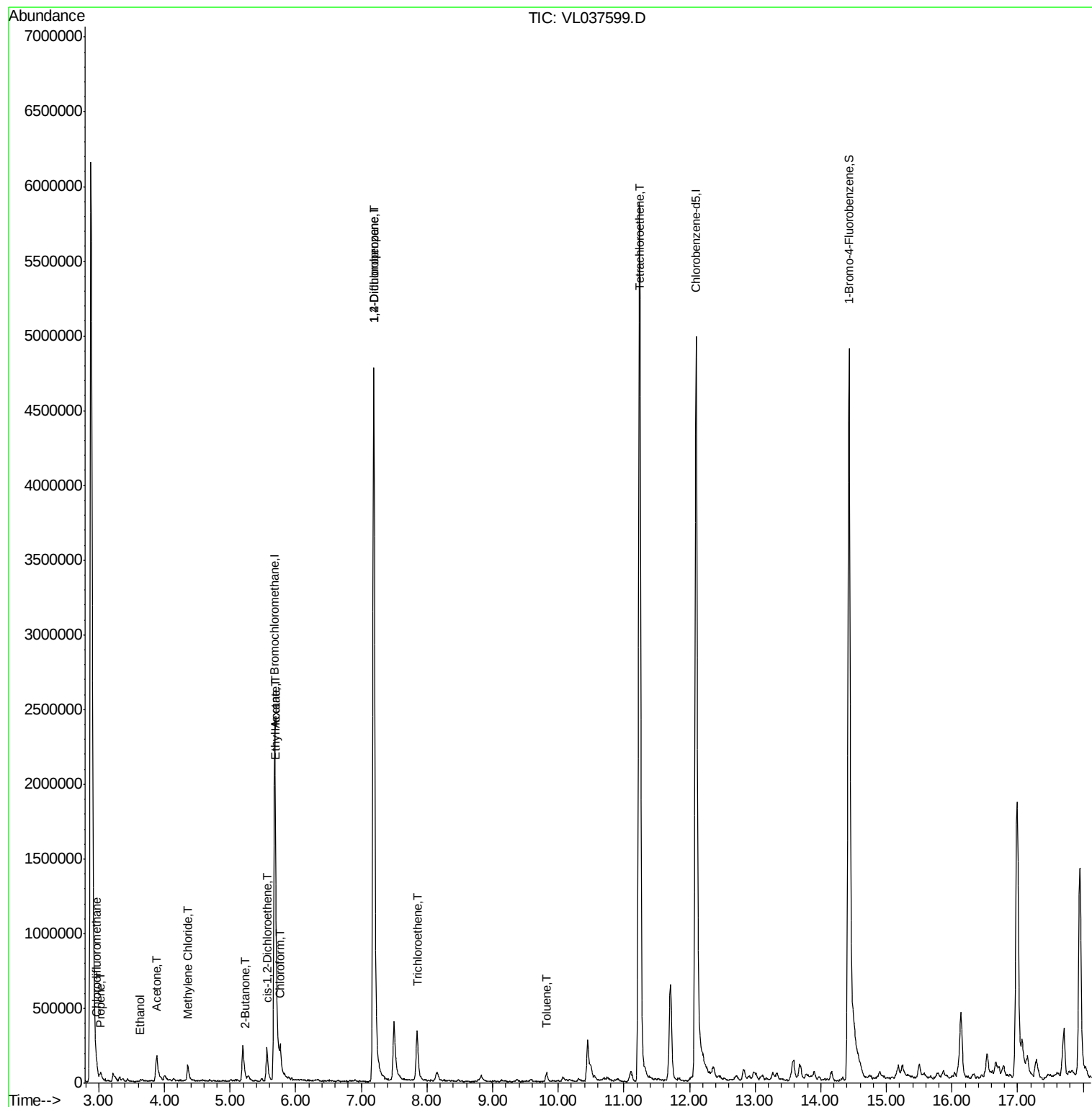
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	27935	0.103	ppbv #	67
9) Propene	3.01	41	3995	0.041	ppbv #	16
13) Ethanol	3.62	45	1053	0.112	ppbv #	39
15) Acetone	3.88	43	216340	1.508	ppbv #	62
20) Methylene Chloride	4.35	84	23041	0.321	ppbv #	85
25) Ethyl Acetate	5.70	43	21659	0.059	ppbv #	83
26) Hexane	5.70	57	24986	0.140	ppbv #	42
29) Chloroform	5.76	83	98094	0.389	ppbv	94
31) cis-1,2-Dichloroethene	5.56	61	134880	0.837	ppbv	93
34) 2-Butanone	5.24	43	5319	0.030	ppbv #	54
38) Trichloroethene	7.85	130	76566	0.519	ppbv	99
39) 1,2-Dichloropropane	7.19	63	989575	7.162	ppbv #	26
52) Tetrachloroethene	11.24	164	1688585	11.459	ppbv	99
53) Toluene	9.82	91	27233	0.066	ppbv #	45

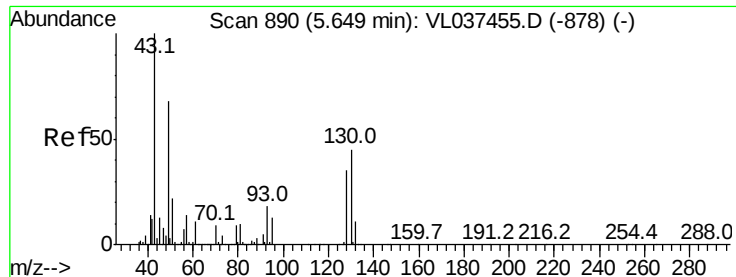
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 10 01:33:10 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Aug 17 02:13:47 2021
QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.03 min

Lab File: VL037599.D

Acq: 9 Sep 2021 15:20

Instrument :

MSVOA_L

ClientSampleId :

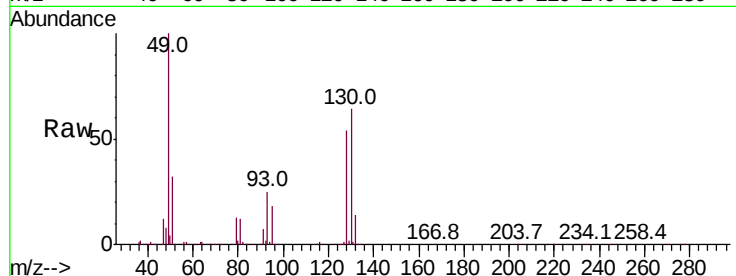
Tot Ion: 49 Resp: 1409972

Ion Ratio Lower Upper

49 100

128 55.4 27.5 82.4

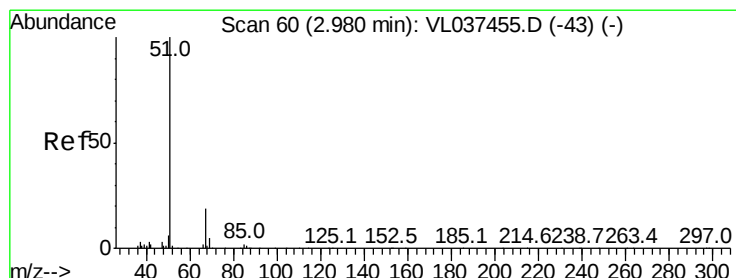
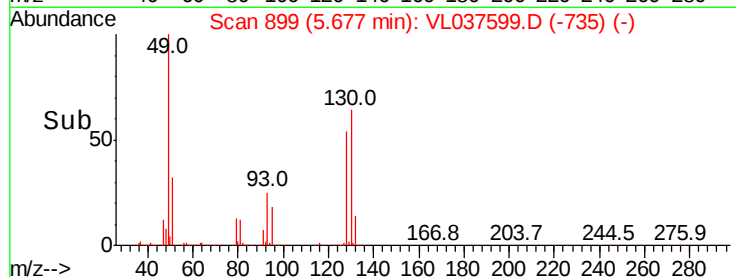
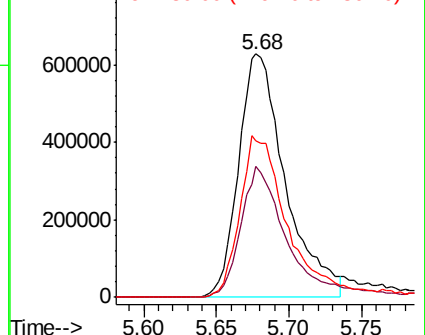
130 71.0 34.0 101.8



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: 0.103 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.00 min

Lab File: VL037599.D

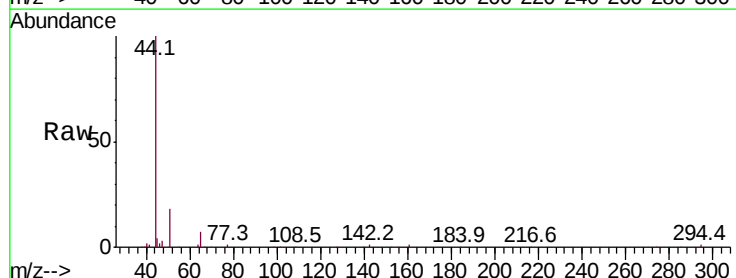
Acq: 9 Sep 2021 15:20

Tgt Ion: 51 Resp: 27935

Ion Ratio Lower Upper

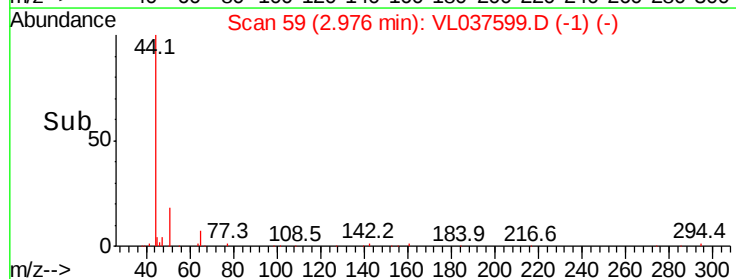
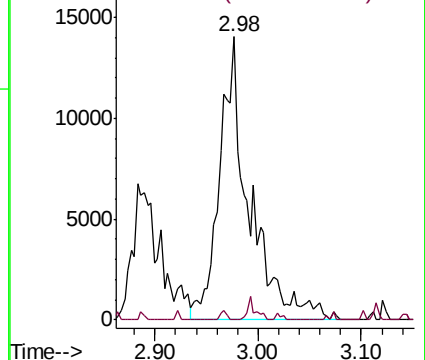
51 100

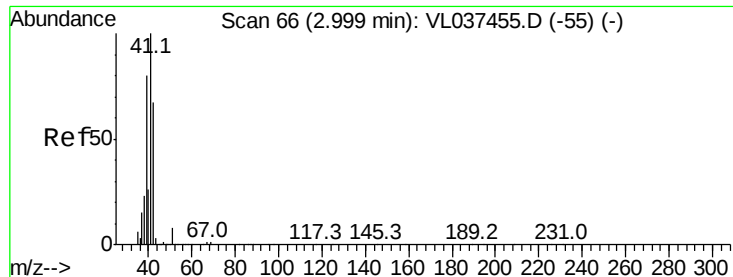
67 3.3 14.2 21.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.041 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL037599.D

Acq: 9 Sep 2021 15:20

Instrument :

MSVOA_L

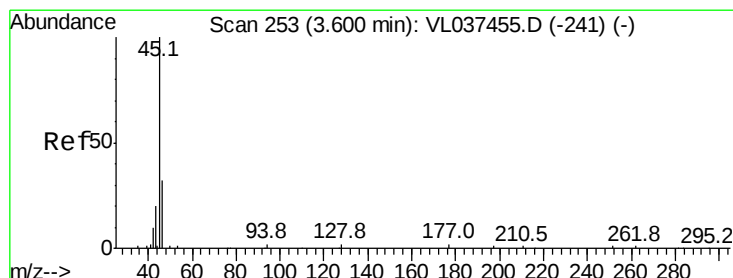
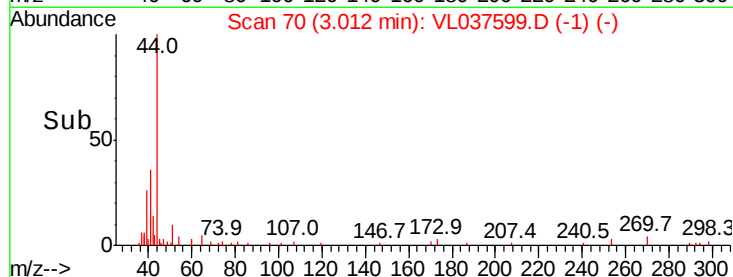
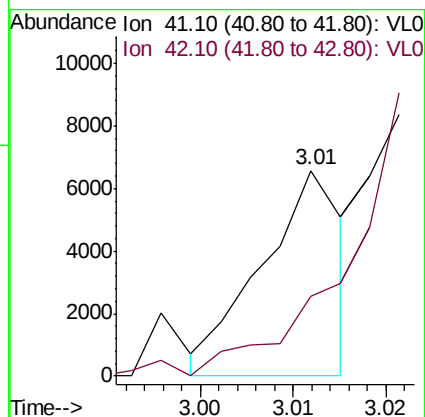
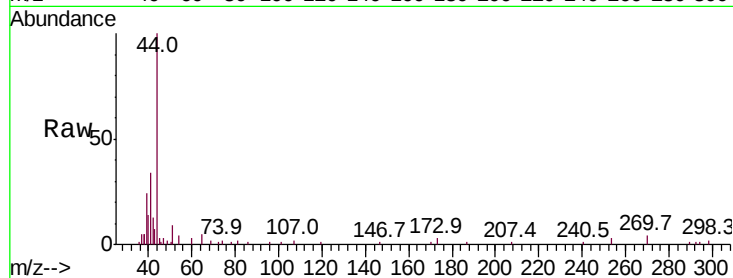
ClientSampled :

Tot Ion: 41 Resp: 3995

Ion Ratio Lower Upper

41 100

42 0.0 53.7 80.5#



#13

Ethanol

Concen: 0.112 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.02 min

Lab File: VL037599.D

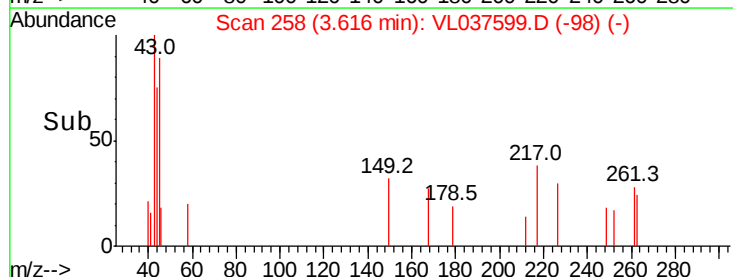
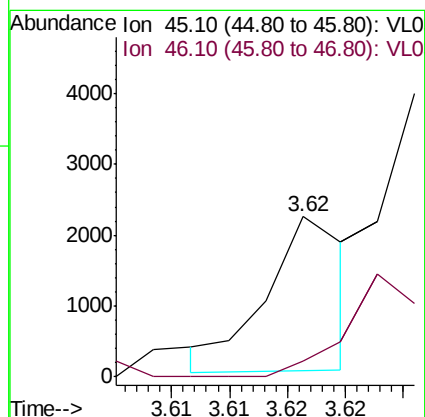
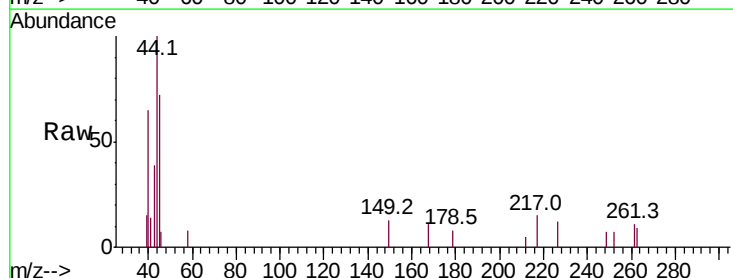
Acq: 9 Sep 2021 15:20

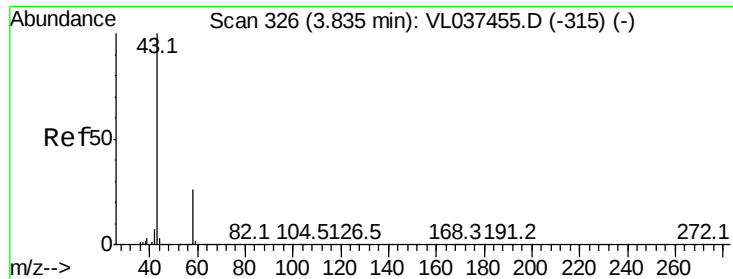
Tgt Ion: 45 Resp: 1053

Ion Ratio Lower Upper

45 100

46 0.0 14.1 56.5#

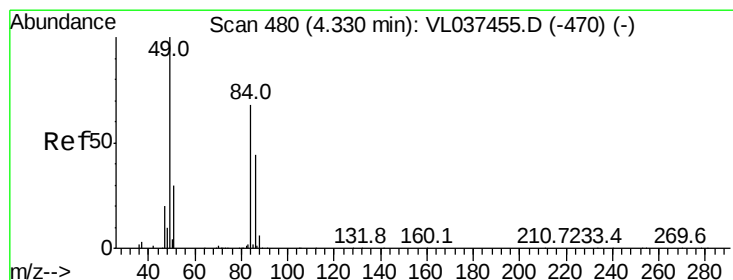
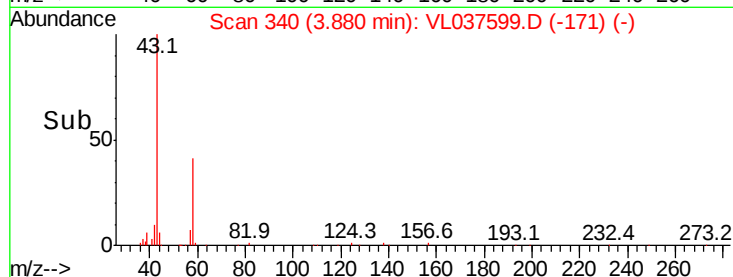
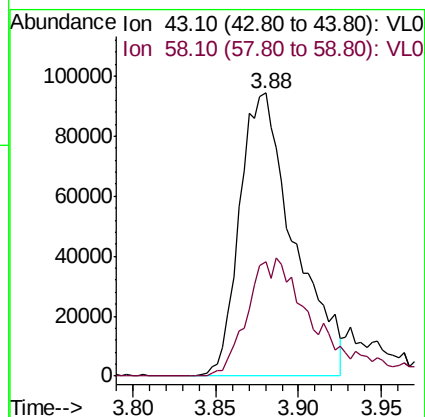
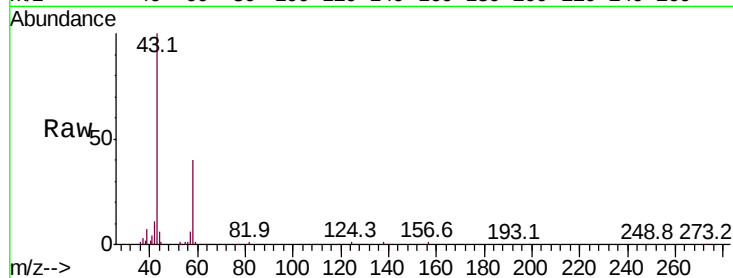




#15
Acetone
Concen: 1.508 ppbv
RT: 3.88 min Scan# 340
Delta R.T. 0.04 min
Lab File: VL037599.D
Acq: 9 Sep 2021 15:20

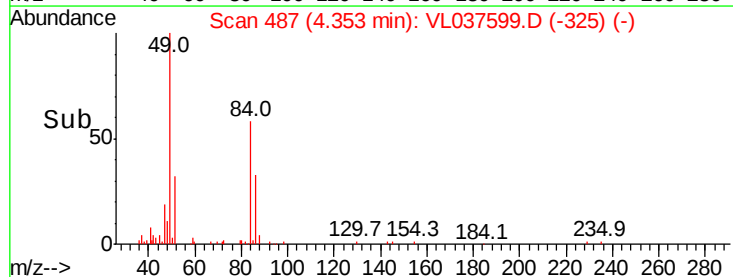
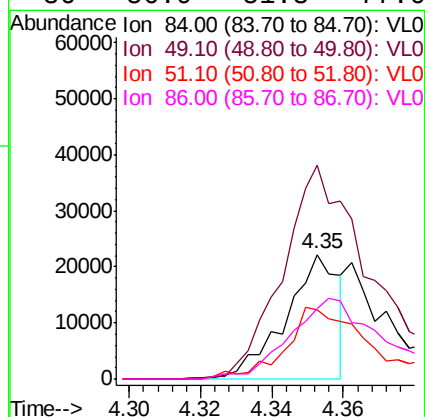
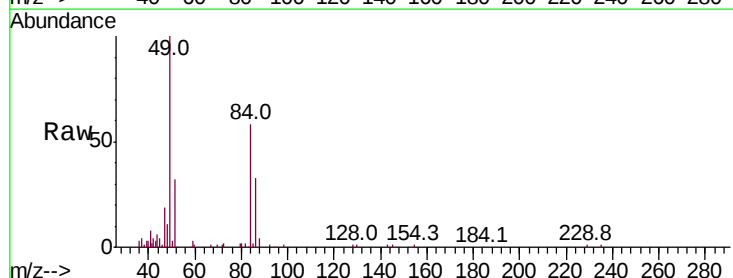
Instrument :
MSVOA_L
ClientSampled :

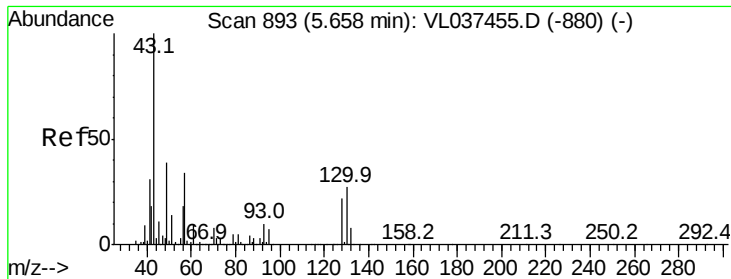
Tot Ion: 43 Resp: 216340
Ion Ratio Lower Upper
43 100
58 51.9 24.8 37.2#



#20
Methylene Chloride
Concen: 0.321 ppbv
RT: 4.35 min Scan# 487
Delta R.T. 0.02 min
Lab File: VL037599.D
Acq: 9 Sep 2021 15:20

Tgt Ion: 84 Resp: 23041
Ion Ratio Lower Upper
84 100
49 170.0 118.2 177.2
51 55.3 36.6 55.0#
86 56.9 51.8 77.6

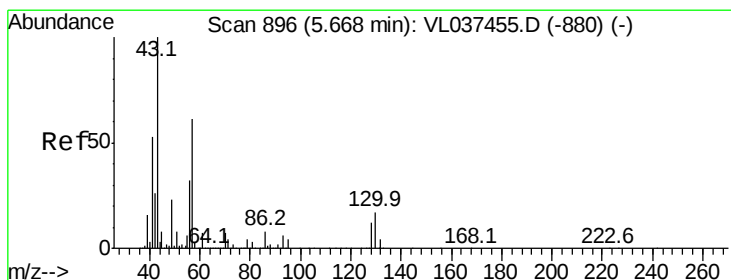
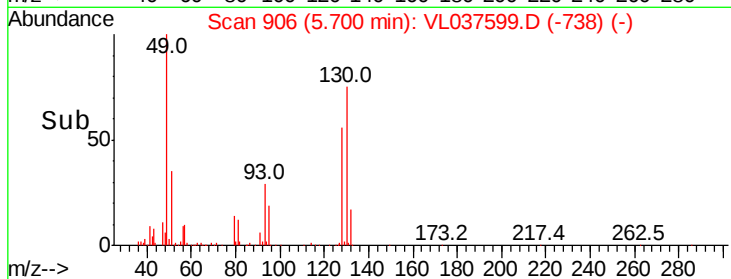
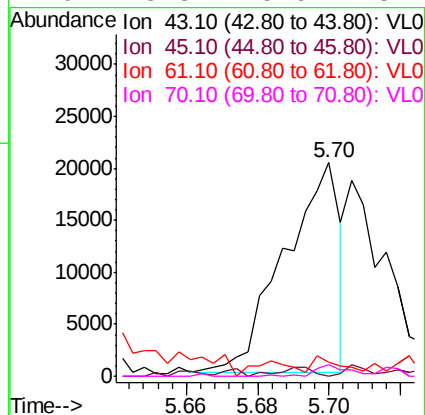
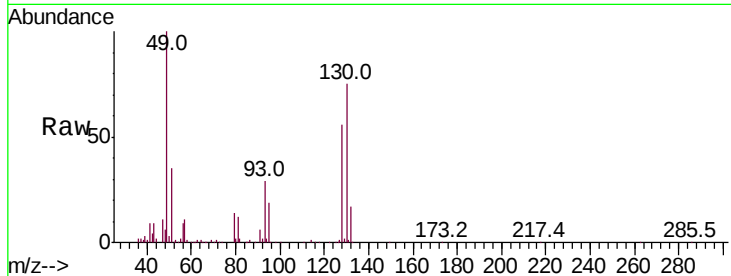




#25
Ethyl Acetate
Concen: 0.059 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.04 min
Lab File: VL037599.D
Acq: 9 Sep 2021 15:20

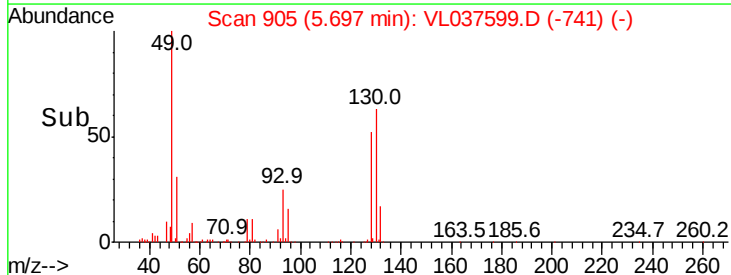
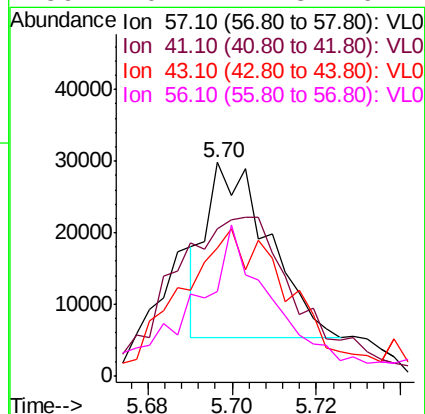
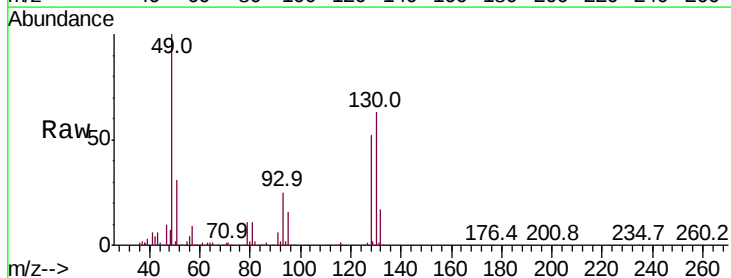
Instrument :
MSVOA_L
ClientSampleId :

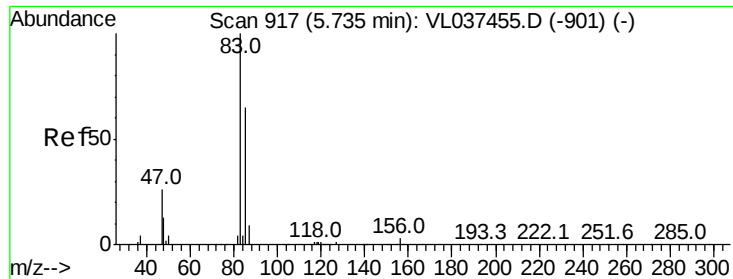
Tot Ion:	43	Resp:	21659
Ion	Ratio	Lower	Upper
43	100		
45	4.5	8.0	12.0#
61	0.0	8.0	12.0#
70	5.3	5.6	8.4#



#26
Hexane
Concen: 0.140 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.03 min
Lab File: VL037599.D
Acq: 9 Sep 2021 15:20

Tgt Ion:	57	Resp:	24986
Ion	Ratio	Lower	Upper
57	100		
41	183.6	72.3	108.5#
43	168.3	172.3	258.5#
56	126.2	42.8	64.2#

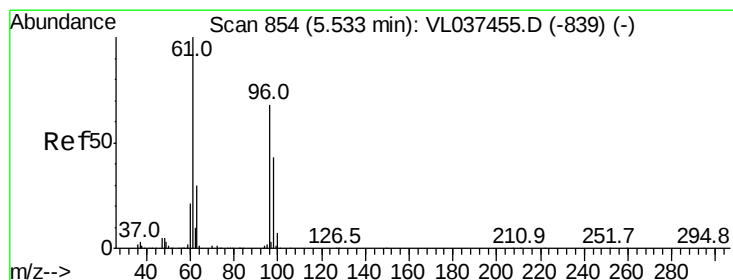
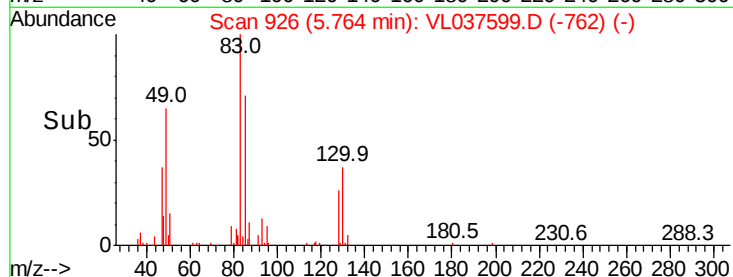
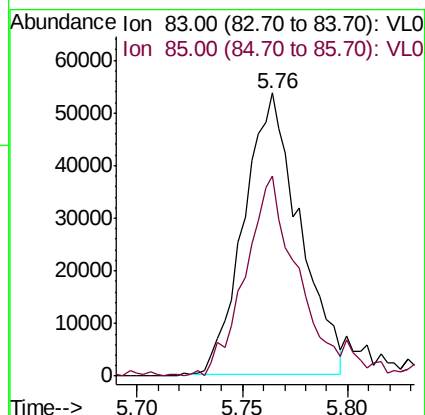
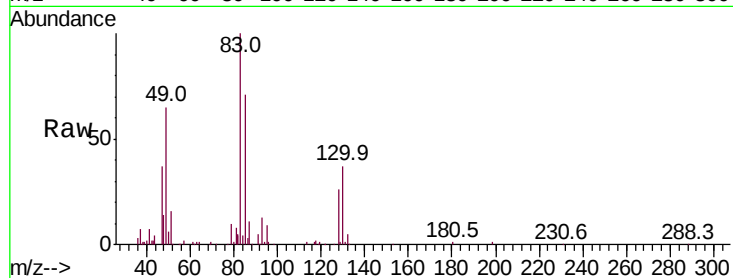




#29
Chloroform
Concen: 0.389 ppbv
RT: 5.76 min Scan# 926
Delta R.T. 0.03 min
Lab File: VL037599.D
Acq: 9 Sep 2021 15:20

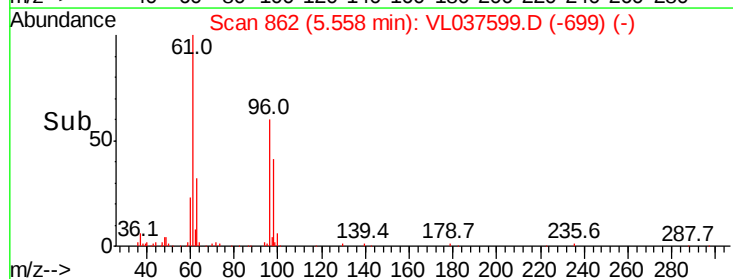
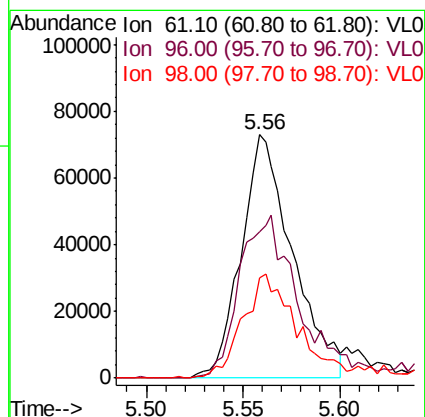
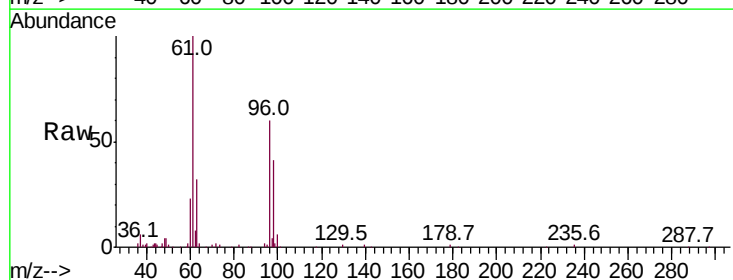
Instrument :
MSVOA_L
ClientSampled :

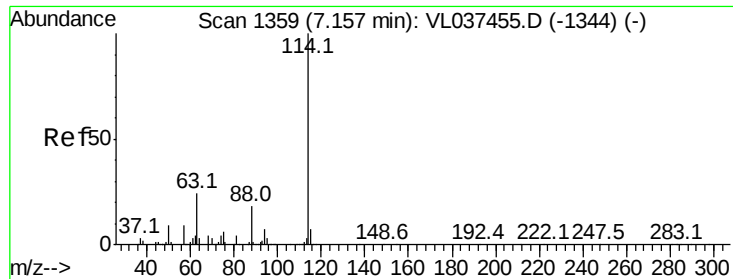
Tot Ion: 83 Resp: 98094
Ion Ratio Lower Upper
83 100
85 70.4 52.3 78.5



#31
cis-1,2-Dichloroethene
Concen: 0.837 ppbv
RT: 5.56 min Scan# 862
Delta R.T. 0.03 min
Lab File: VL037599.D
Acq: 9 Sep 2021 15:20

Tgt Ion: 61 Resp: 134880
Ion Ratio Lower Upper
61 100
96 60.2 54.8 82.2
98 41.2 34.2 51.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. 0.03 min

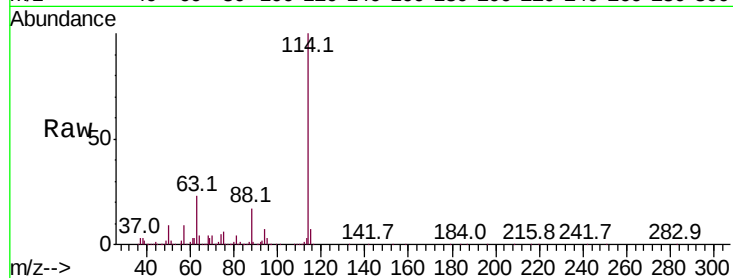
Lab File: VL037599.D

Acq: 9 Sep 2021 15:20

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:114 Resp: 4277614

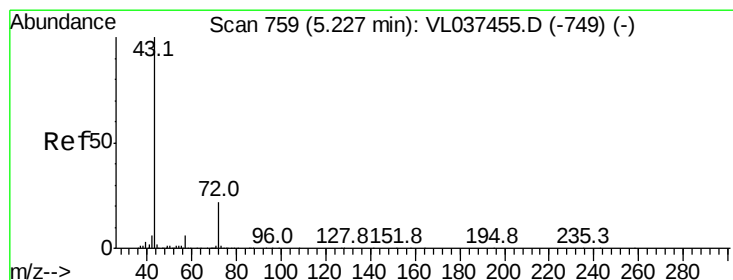
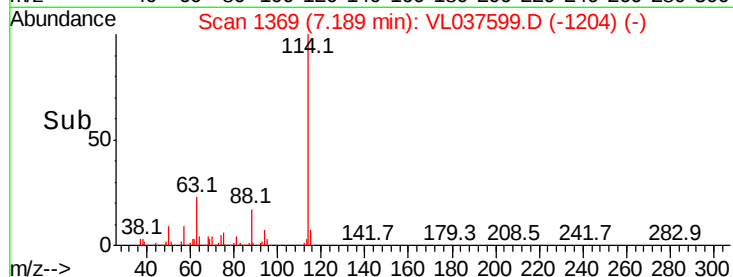
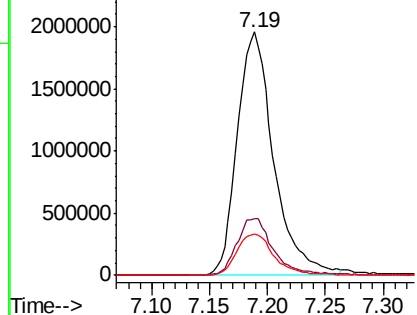
Ion	Ratio	Lower	Upper
114	100		
63	23.7	19.3	28.9
88	17.8	14.2	21.4



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.030 ppbv

RT: 5.24 min Scan# 762

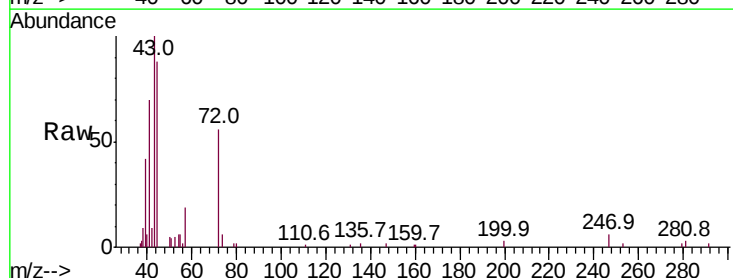
Delta R.T. 0.01 min

Lab File: VL037599.D

Acq: 9 Sep 2021 15:20

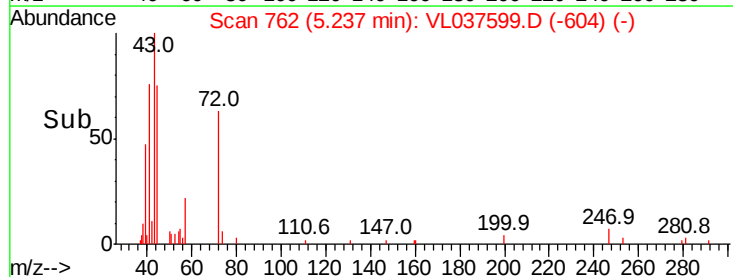
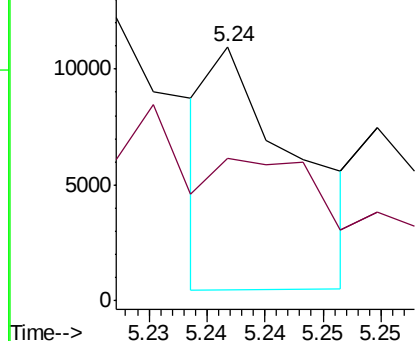
Tgt Ion: 43 Resp: 5319

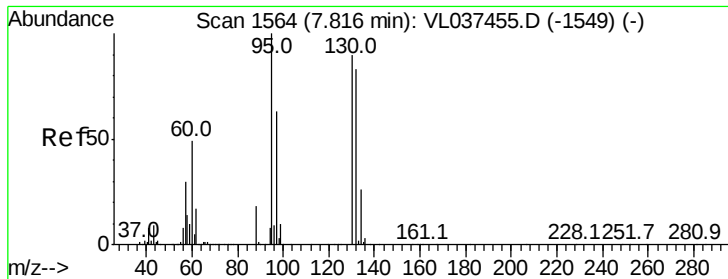
Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.4	26.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#38

Trichloroethene

Concen: 0.519 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. 0.03 min

Lab File: VL037599.D

Acq: 9 Sep 2021 15:20

Instrument :

MSVOA_L

ClientSampled :

Tot Ion:130 Resp: 76566

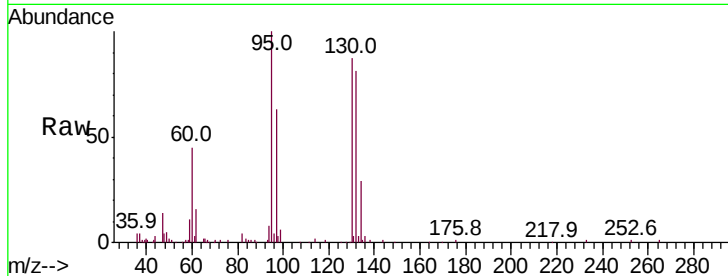
Ion Ratio Lower Upper

130 100

95 112.5 89.2 133.8

132 90.8 74.0 111.0

97 71.0 56.6 84.8

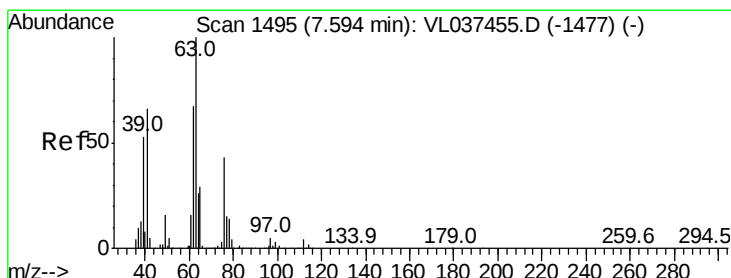
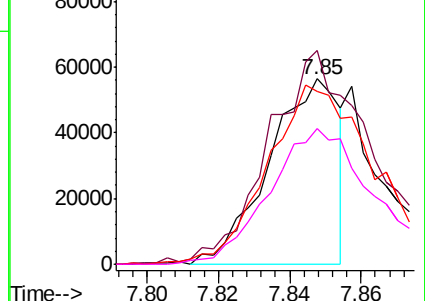
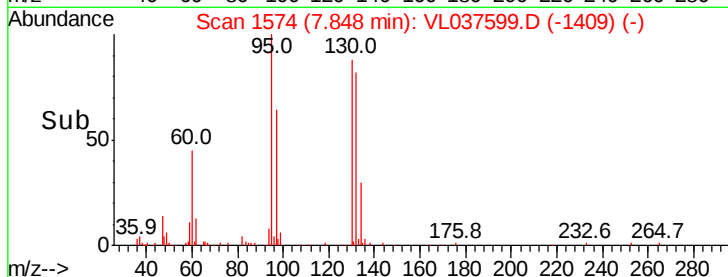


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.162 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.41 min

Lab File: VL037599.D

Acq: 9 Sep 2021 15:20

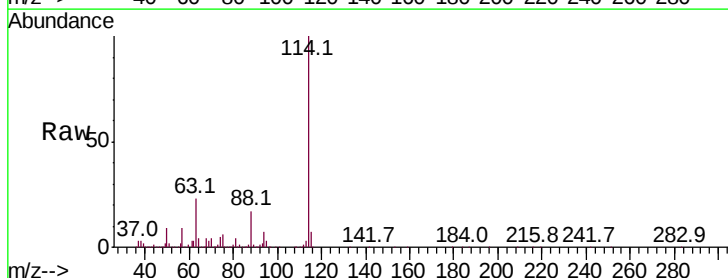
Tgt Ion: 63 Resp: 989575

Ion Ratio Lower Upper

63 100

41 0.2 52.4 78.6#

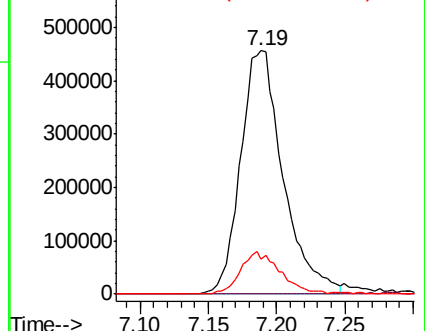
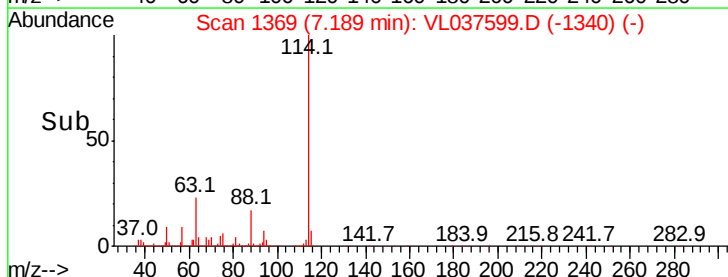
62 14.5 53.6 80.4#

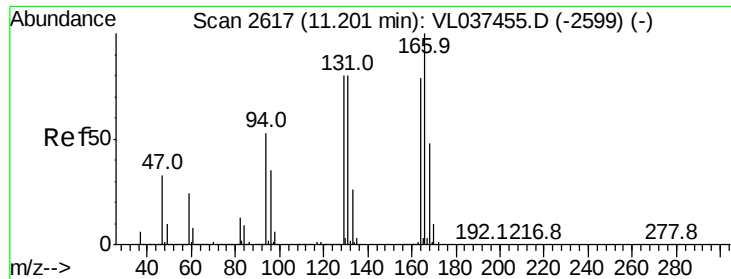


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 11.459 ppbv

RT: 11.24 min Scan# 2628

Delta R.T. 0.04 min

Lab File: VL037599.D

Acq: 9 Sep 2021 15:20

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 1688585

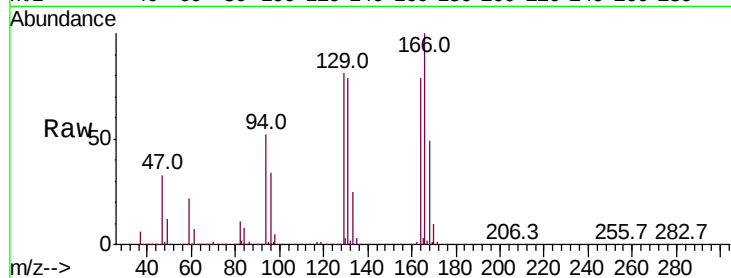
Ion Ratio Lower Upper

164 100

166 127.3 100.7 151.1

129 103.0 80.9 121.3

131 100.6 80.2 120.4

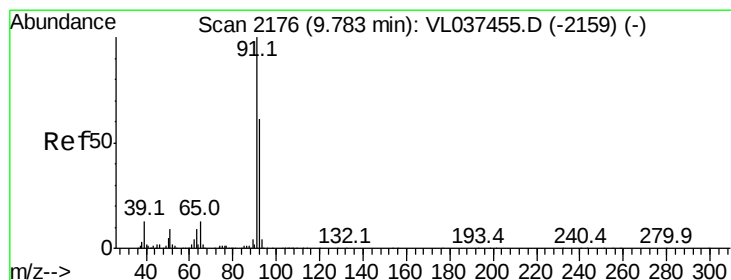
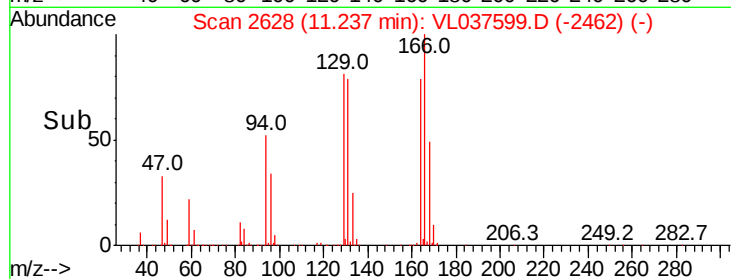
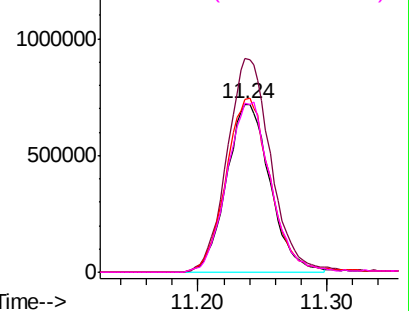


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.066 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. 0.04 min

Lab File: VL037599.D

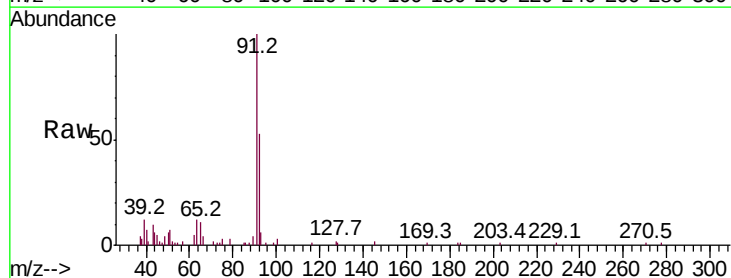
Acq: 9 Sep 2021 15:20

Tgt Ion: 91 Resp: 27233

Ion Ratio Lower Upper

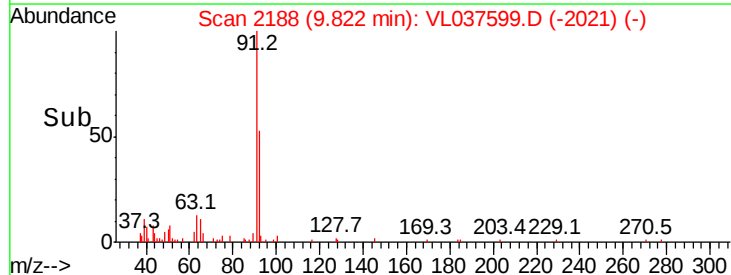
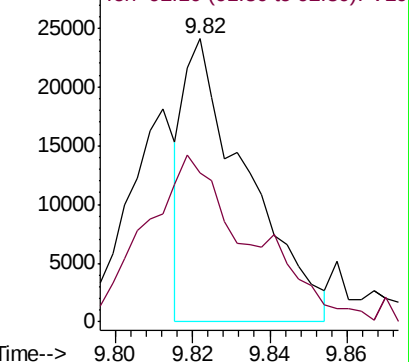
91 100

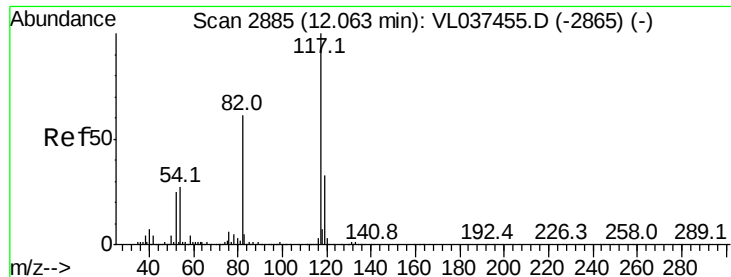
92 103.3 48.8 73.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

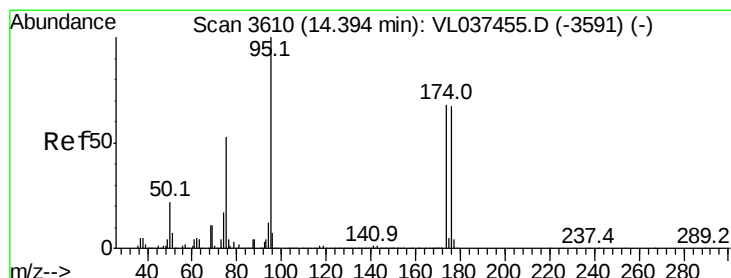
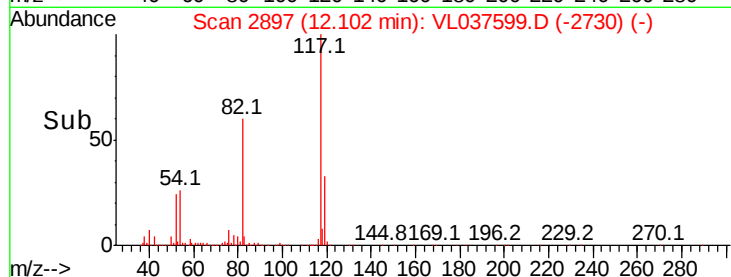
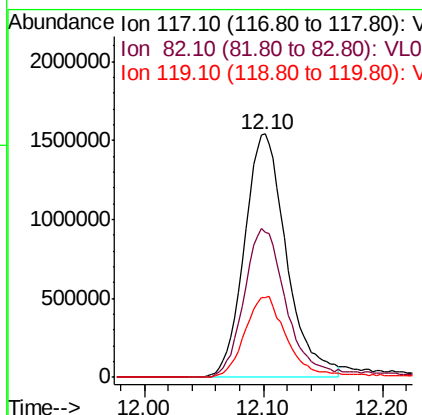
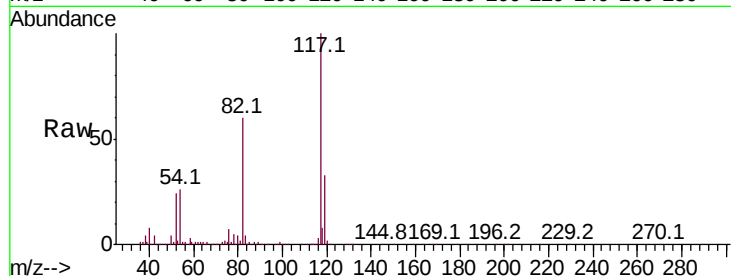




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. 0.04 min
Lab File: VL037599.D
Acq: 9 Sep 2021 15:20

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3762047
Ion Ratio Lower Upper
117 100
82 65.2 52.9 79.3
119 35.3 24.8 37.2



#68
1-Bromo-4-Fluorobenzene
Concen: 9.962 ppbv
RT: 14.43 min Scan# 3621
Delta R.T. 0.04 min
Lab File: VL037599.D
Acq: 9 Sep 2021 15:20

Tgt Ion: 95 Resp: 2662655
Ion Ratio Lower Upper
95 100
174 78.1 59.6 89.4
175 5.4 4.6 7.0

