

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040621\
 Data File : VL036704.D
 Acq On : 6 Apr 2021 19:10
 Operator : SY/AP
 Sample : M1929-05 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FS-OA-04DL

Quant Time: Apr 07 04:27:20 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1266384	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3045812	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2673362	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2044397	9.59	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.90%

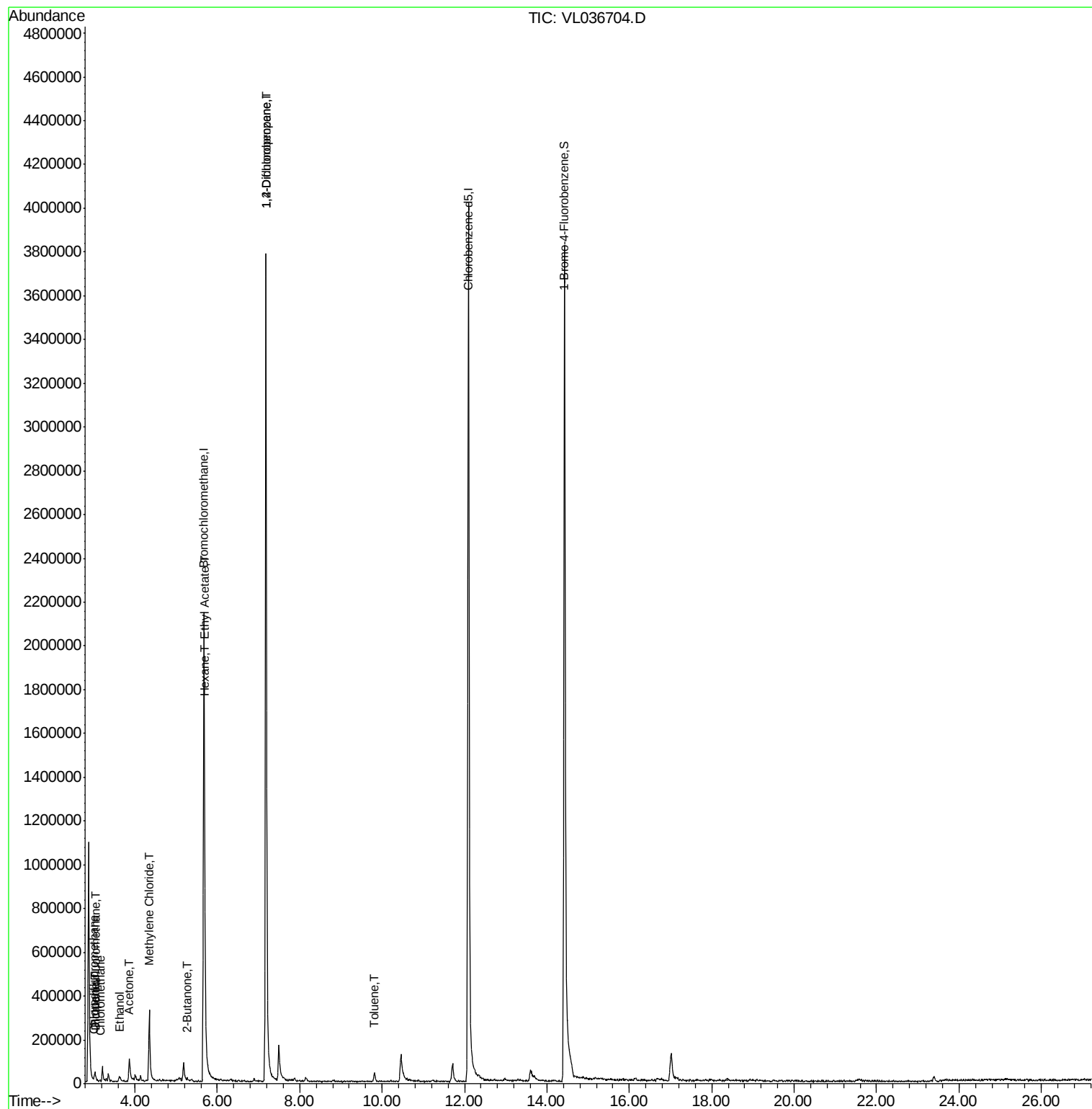
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	6673	0.032	ppbv	93
3) Chlorodifluoromethane	2.99	51	10168	0.043	ppbv	97
4) Chloromethane	3.14	50	3279	0.039	ppbv #	76
9) Propene	3.02	41	11344	0.150	ppbv	90
13) Ethanol	3.62	45	16473	1.834	ppbv #	27
15) Acetone	3.86	43	121885	0.978	ppbv #	63
20) Methylene Chloride	4.35	84	62444	1.070	ppbv	96
25) Ethyl Acetate	5.69	43	79536	0.268	ppbv #	81
26) Hexane	5.69	57	98848	0.719	ppbv #	45
34) 2-Butanone	5.26	43	4593	0.031	ppbv #	55
39) 1,2-Dichloropropane	7.18	63	797665	7.000	ppbv #	25
53) Toluene	9.82	91	30661	0.102	ppbv	92

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL036704.D

Acq: 6 Apr 2021 19:10

Instrument :

MSVOA_L

ClientSampleId :

FS-OA-04DL

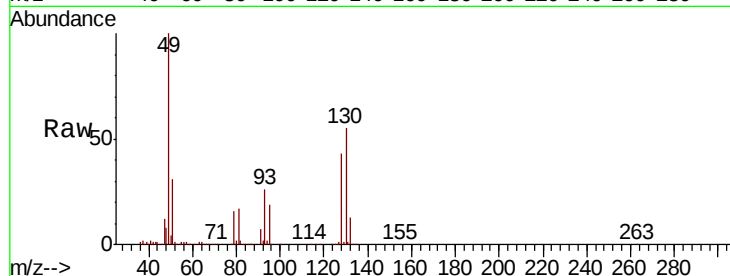
Tot Ion: 49 Resp: 1266384

Ion Ratio Lower Upper

49 100

128 46.6 23.5 70.6

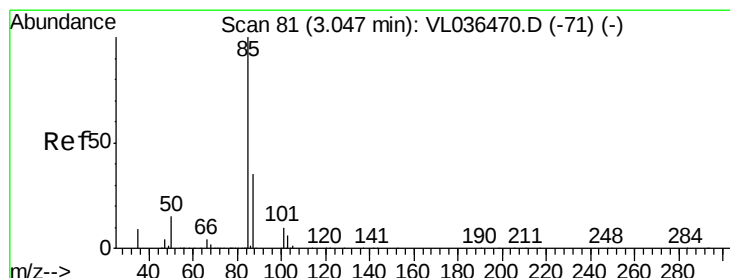
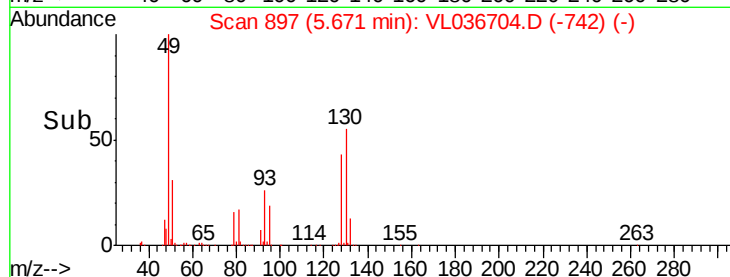
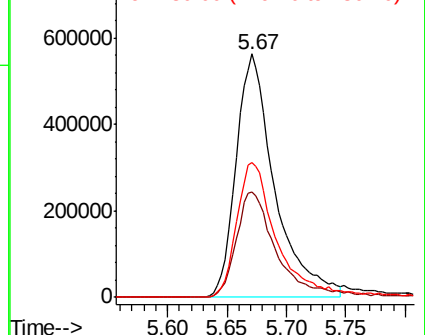
130 60.1 29.1 87.4



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: 0.032 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL036704.D

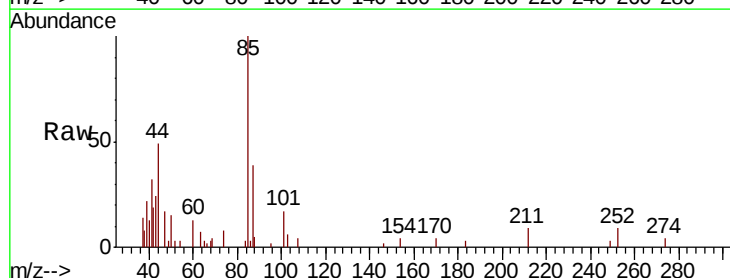
Acq: 6 Apr 2021 19:10

Tgt Ion: 85 Resp: 6673

Ion Ratio Lower Upper

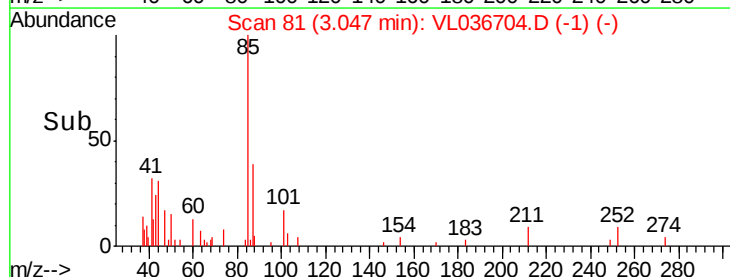
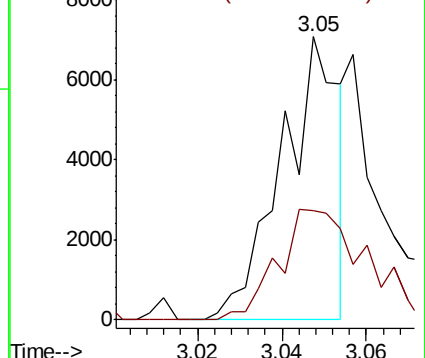
85 100

87 38.8 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.043 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL036704.D

Acq: 6 Apr 2021 19:10

Instrument :

MSVOA_L

ClientSampleId :

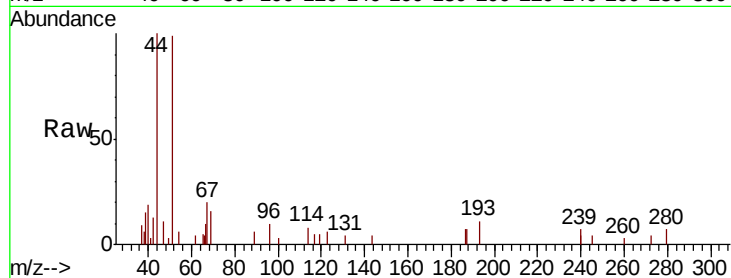
FS-OA-04DL

Tot Ion: 51 Resp: 10168

Ion Ratio Lower Upper

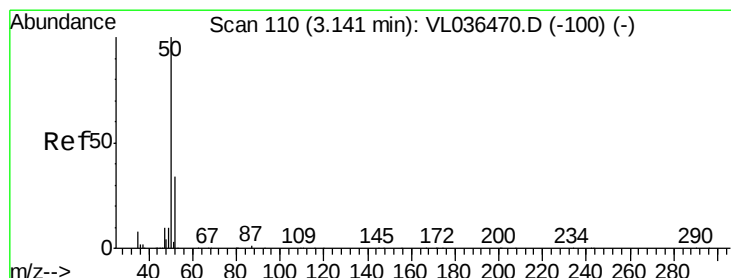
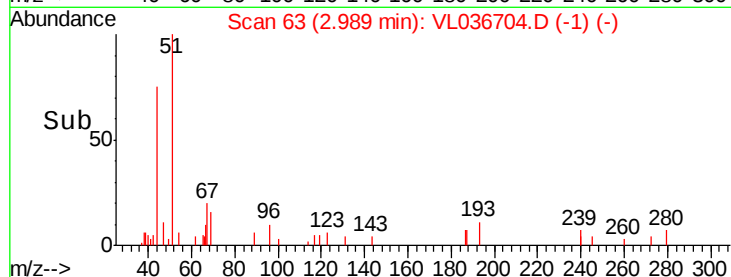
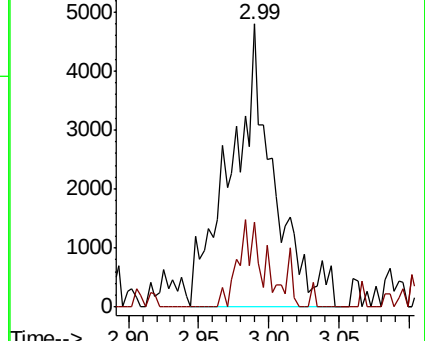
51 100

67 19.8 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.039 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL036704.D

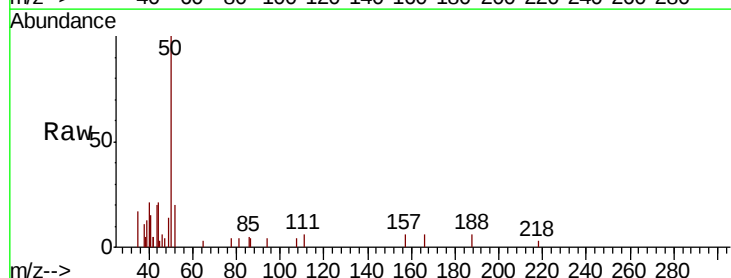
Acq: 6 Apr 2021 19:10

Tgt Ion: 50 Resp: 3279

Ion Ratio Lower Upper

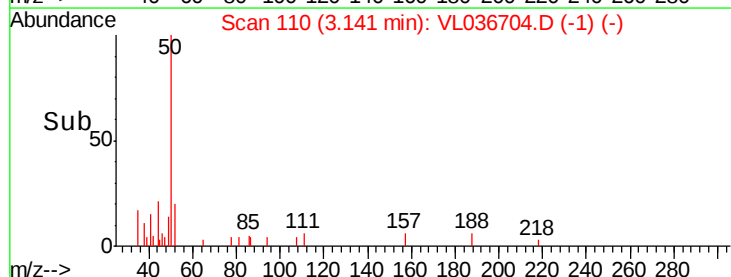
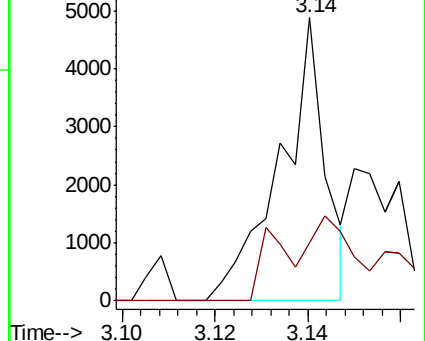
50 100

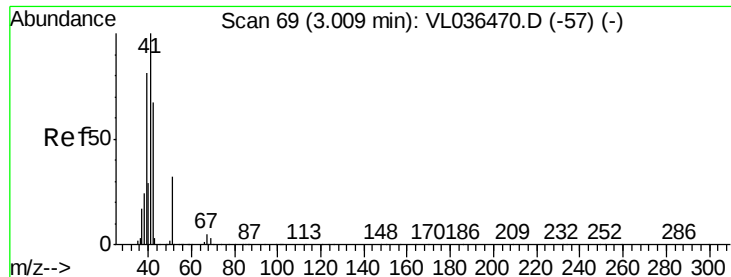
52 20.4 27.0 40.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.150 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL036704.D

Acq: 6 Apr 2021 19:10

Instrument :

MSVOA_L

ClientSampleId :

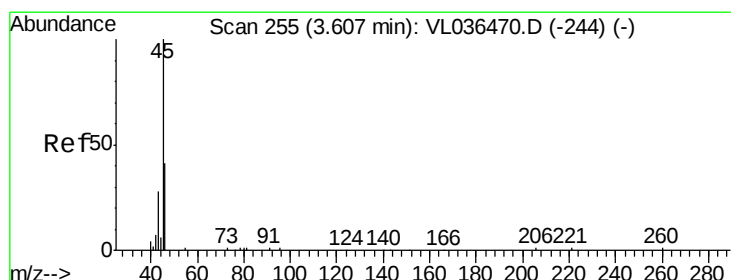
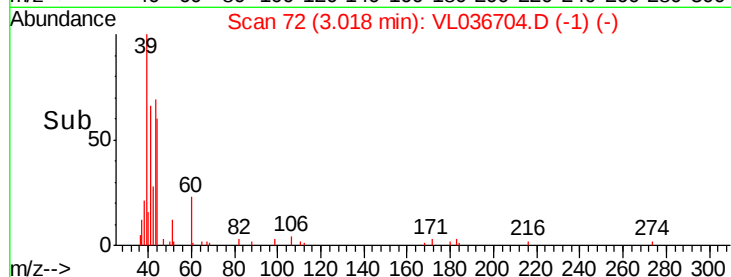
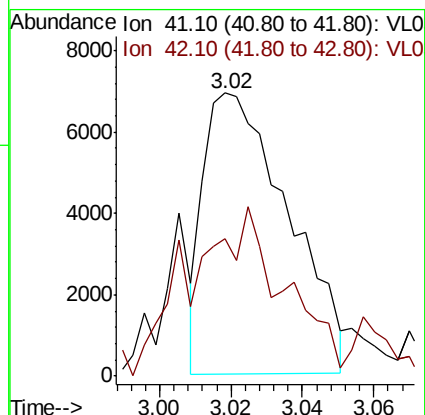
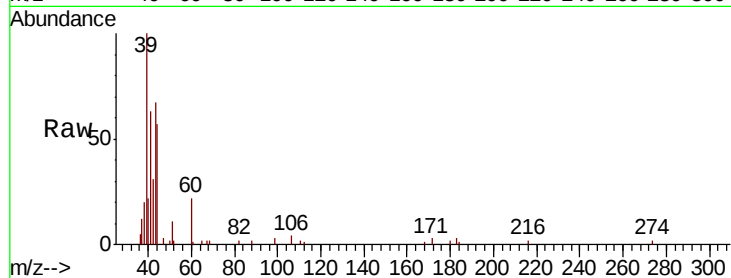
FS-OA-04DL

Tot Ion: 41 Resp: 11344

Ion Ratio Lower Upper

41 100

42 79.7 57.0 85.4



#13

Ethanol

Concen: 1.834 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL036704.D

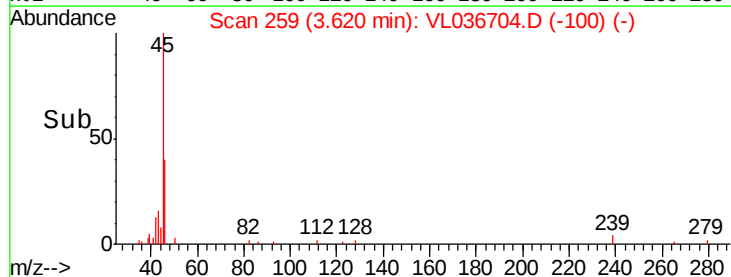
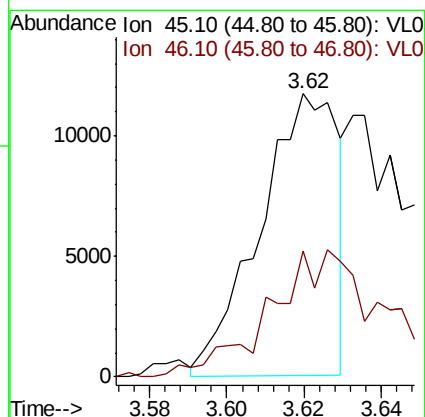
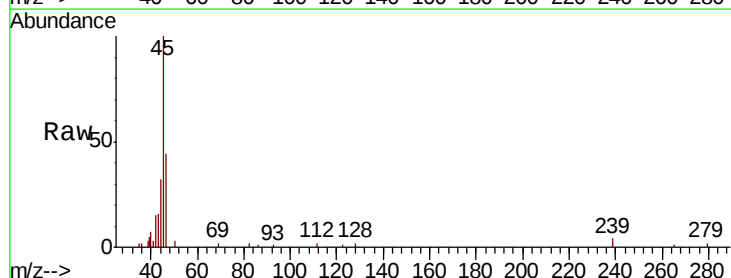
Acq: 6 Apr 2021 19:10

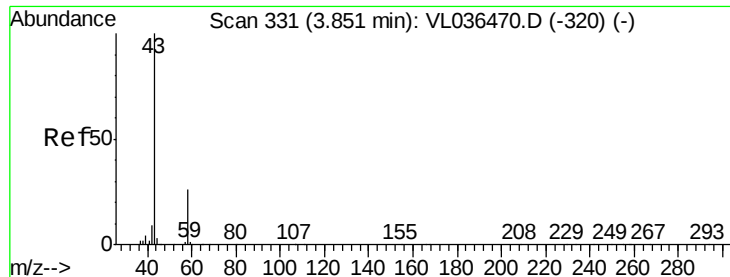
Tgt Ion: 45 Resp: 16473

Ion Ratio Lower Upper

45 100

46 87.5 16.6 66.2#

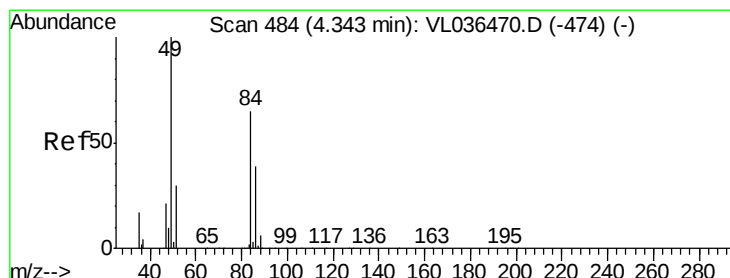
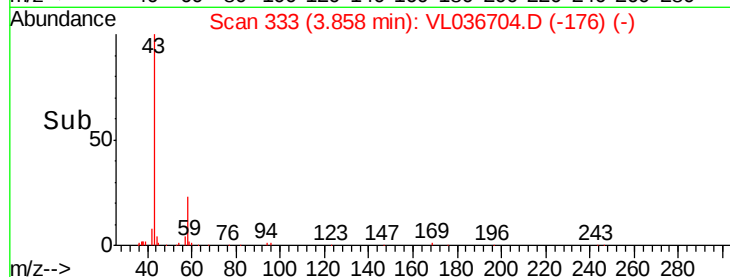
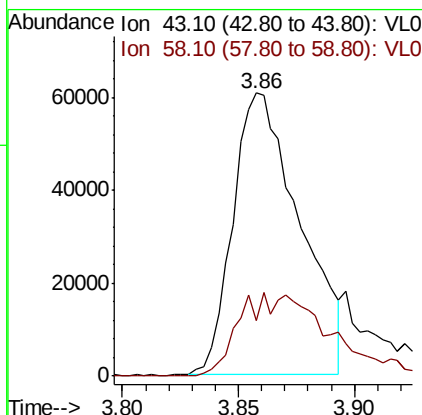
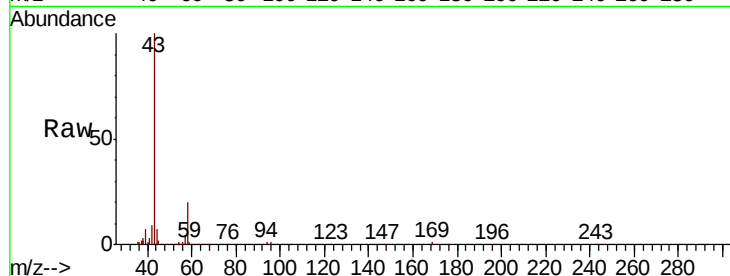




#15
Acetone
Concen: 0.978 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.01 min
Lab File: VL036704.D
Acq: 6 Apr 2021 19:10

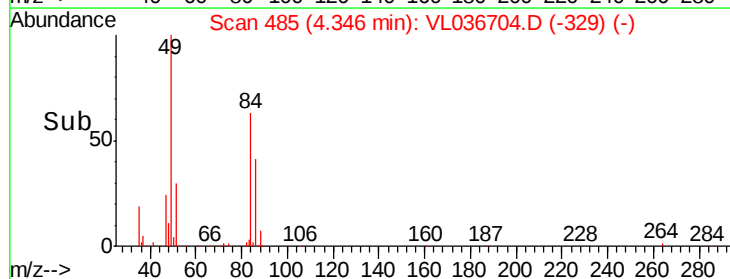
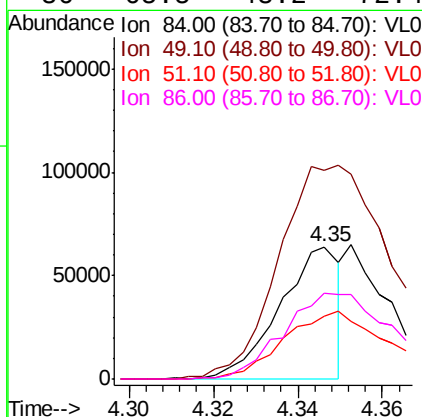
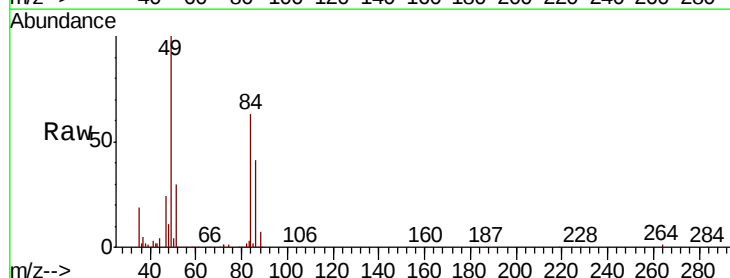
Instrument :
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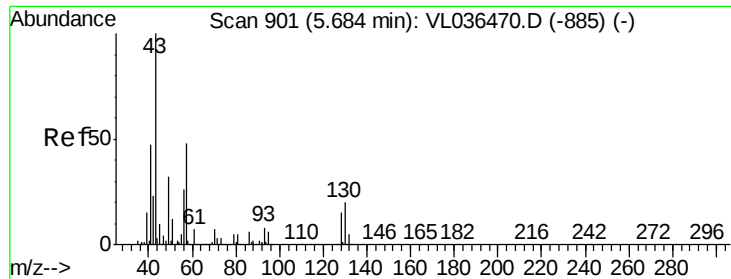
Tot Ion: 43 Resp: 121885
Ion Ratio Lower Upper
43 100
58 45.7 21.2 31.8#



#20
Methylene Chloride
Concen: 1.070 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.00 min
Lab File: VL036704.D
Acq: 6 Apr 2021 19:10

Tgt Ion: 84 Resp: 62444
Ion Ratio Lower Upper
84 100
49 156.8 122.9 184.3
51 48.3 36.9 55.3
86 65.5 48.2 72.4

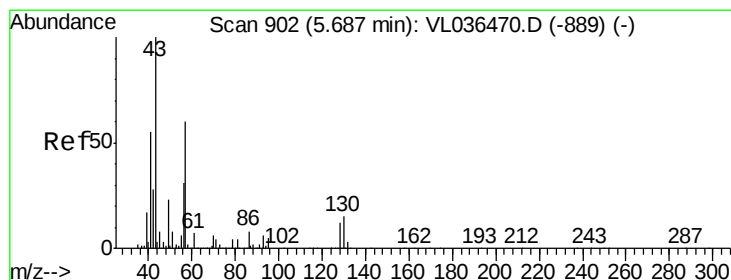
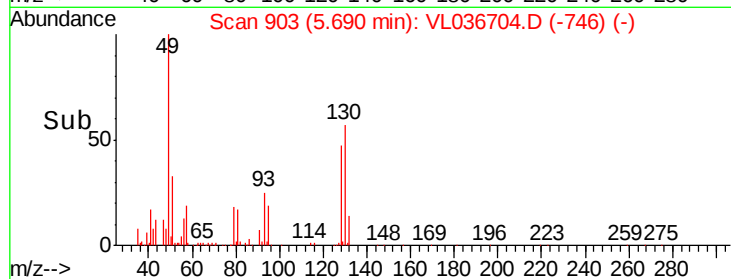
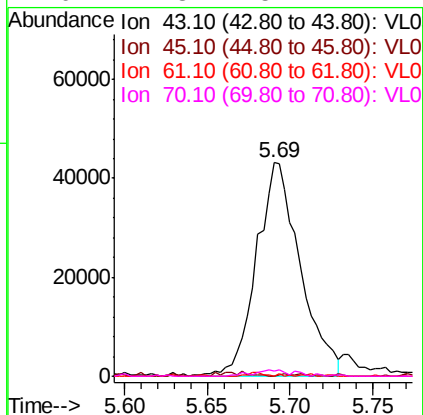
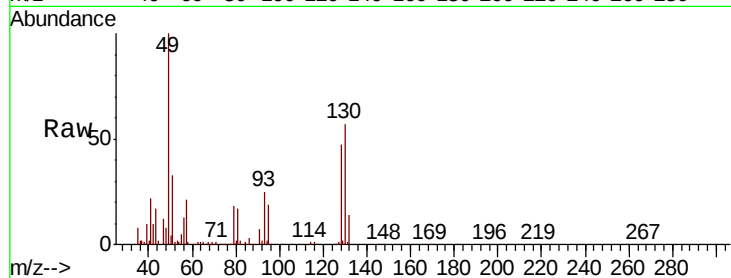




#25
Ethyl Acetate
Concen: 0.268 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL036704.D
Acq: 6 Apr 2021 19:10

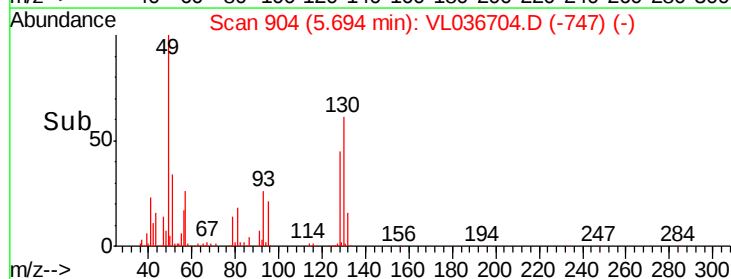
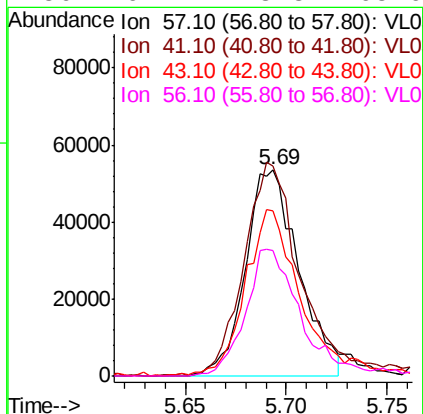
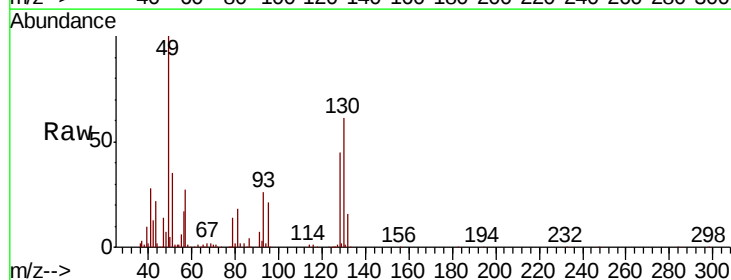
Instrument :
MSVOA_L
ClientSampleId :
FS-OA-04DL

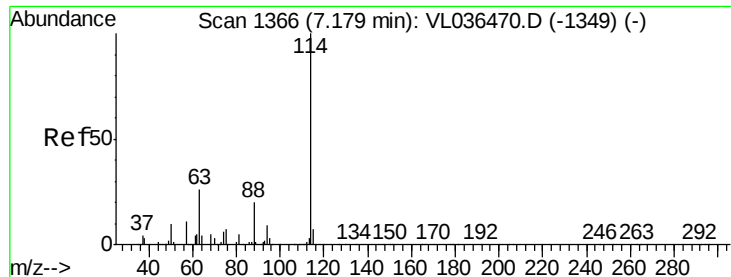
Tot Ion:	43	Resp:	79536
Ion	Ratio	Lower	Upper
43	100		
45	2.1	7.9	11.9#
61	0.8	7.4	11.2#
70	2.8	5.1	7.7#



#26
Hexane
Concen: 0.719 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL036704.D
Acq: 6 Apr 2021 19:10

Tgt Ion:	57	Resp:	98848
Ion	Ratio	Lower	Upper
57	100		
41	115.2	77.2	115.8
43	87.7	173.8	260.6#
56	64.7	43.8	65.6

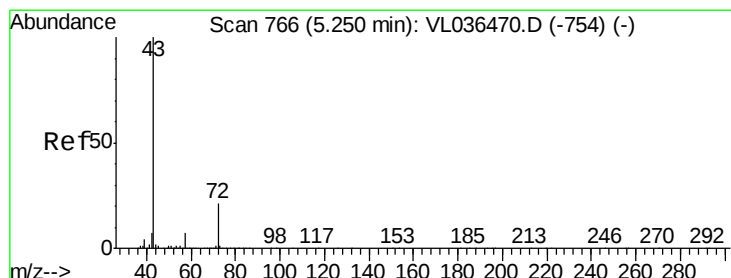
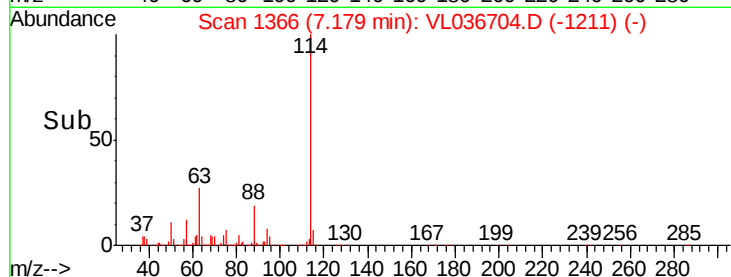
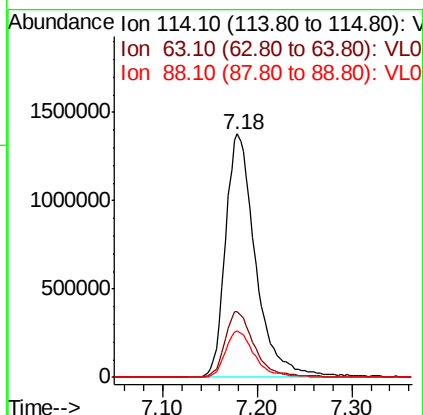
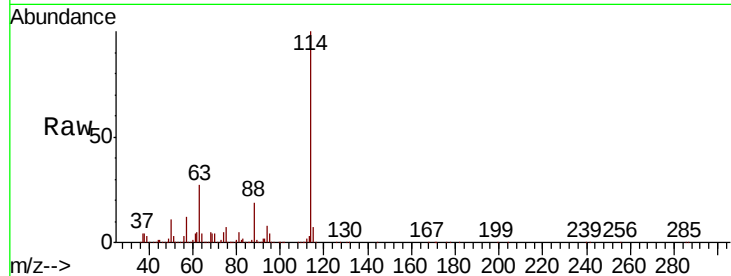




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.00 min
 Lab File: VL036704.D
 Acq: 6 Apr 2021 19:10

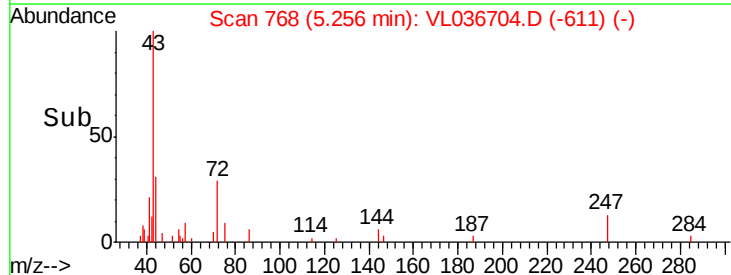
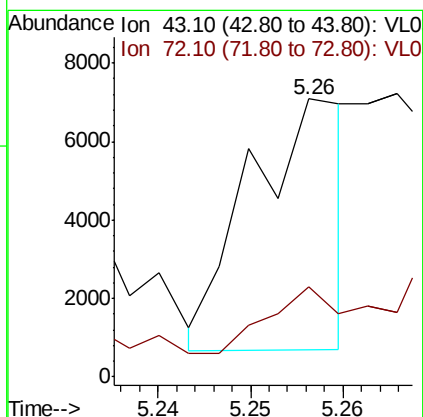
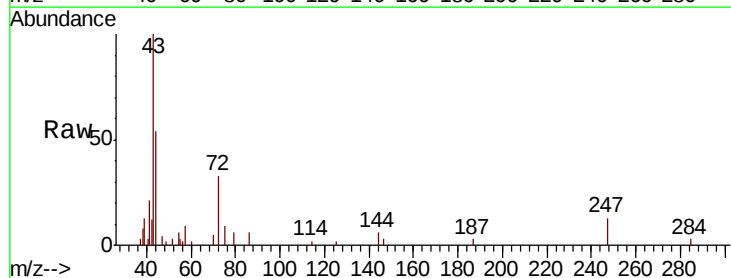
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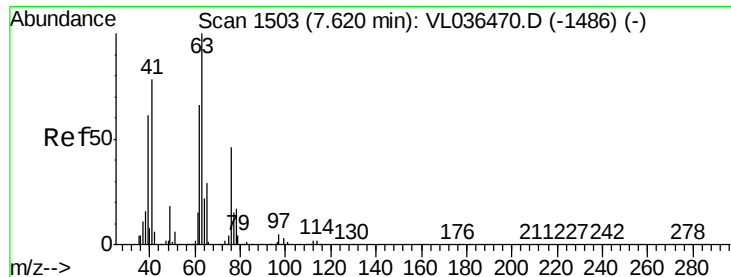
Tot Ion:114 Resp: 3045812
 Ion Ratio Lower Upper
 114 100
 63 26.9 22.4 33.6
 88 18.9 15.4 23.0



#34
 2-Butanone
 Concen: 0.031 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.01 min
 Lab File: VL036704.D
 Acq: 6 Apr 2021 19:10

Tgt Ion: 43 Resp: 4593
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.0 25.6#





#39

1,2-Dichloropropane

Concen: 7.000 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.44 min

Lab File: VL036704.D

Acq: 6 Apr 2021 19:10

Instrument :

MSVOA_L

ClientSampleId :

FS-OA-04DL

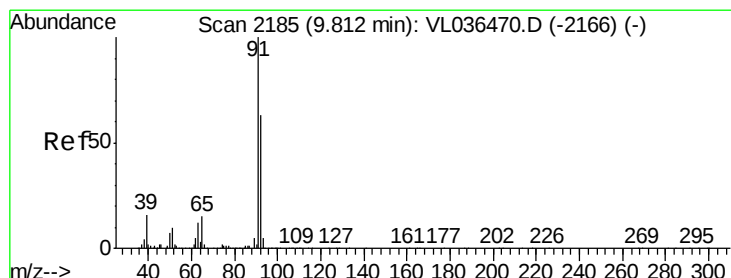
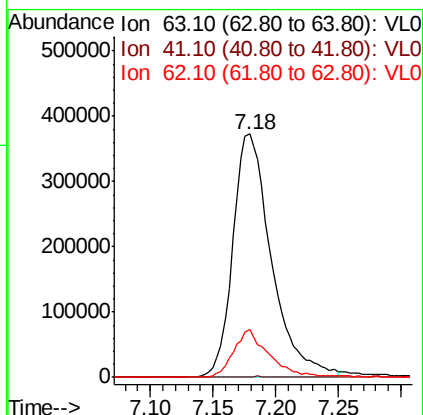
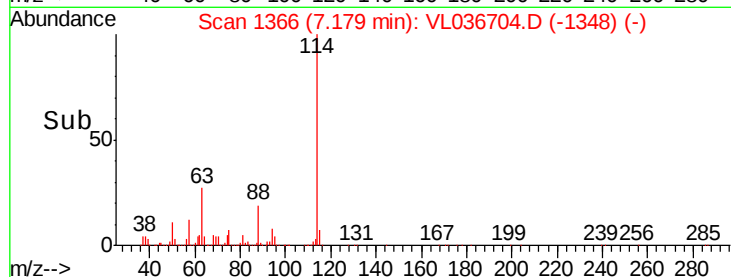
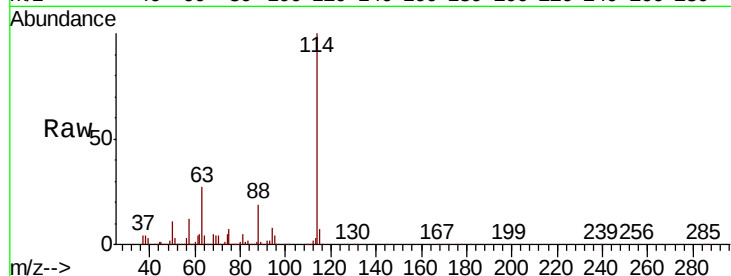
Tot Ion: 63 Resp: 797665

Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

62 19.4 52.8 79.2#



#53

Toluene

Concen: 0.102 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VL036704.D

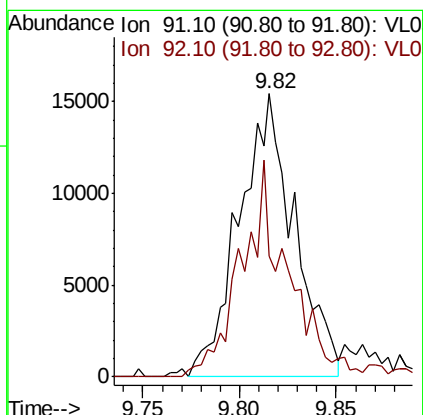
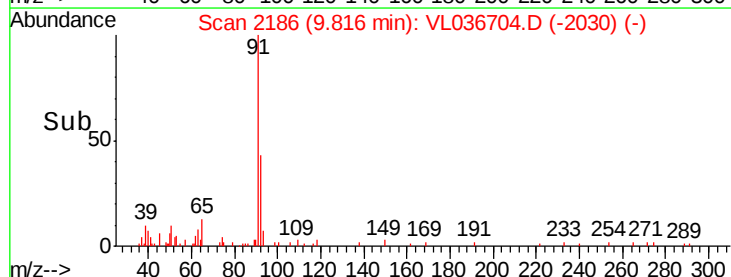
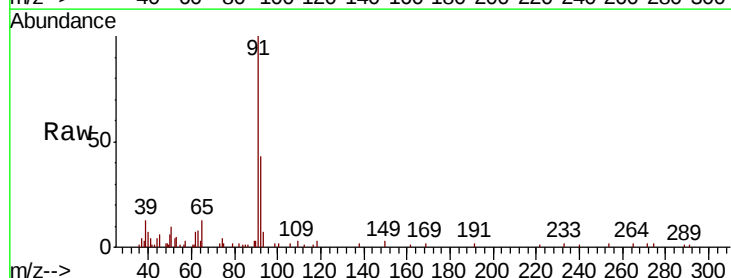
Acq: 6 Apr 2021 19:10

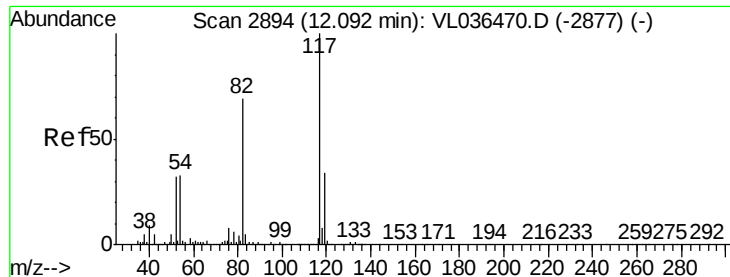
Tgt Ion: 91 Resp: 30661

Ion Ratio Lower Upper

91 100

92 67.0 48.8 73.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. 0.00 min

Lab File: VL036704.D

Acq: 6 Apr 2021 19:10

Instrument :

MSVOA_L

ClientSampleId :

FS-OA-04DL

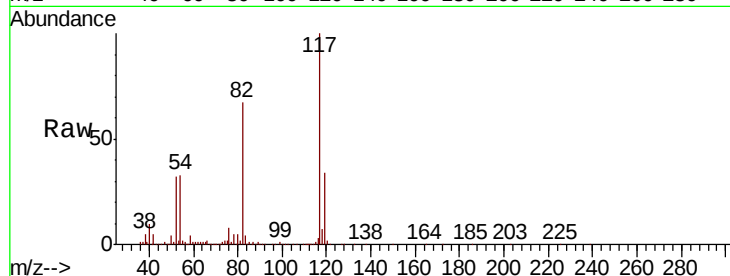
Tot Ion:117 Resp: 2673362

Ion Ratio Lower Upper

117 100

82 71.1 57.4 86.0

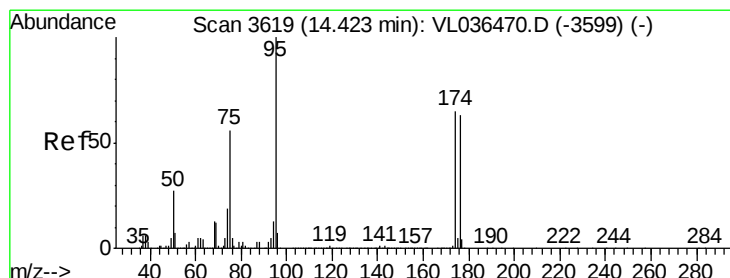
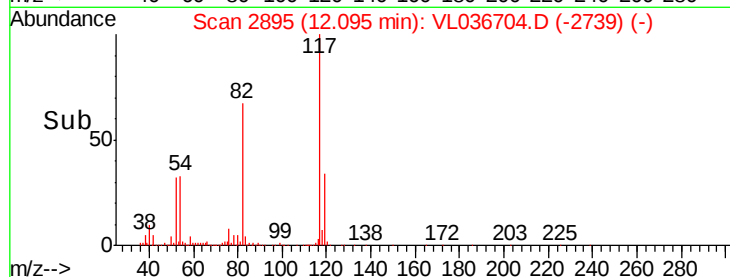
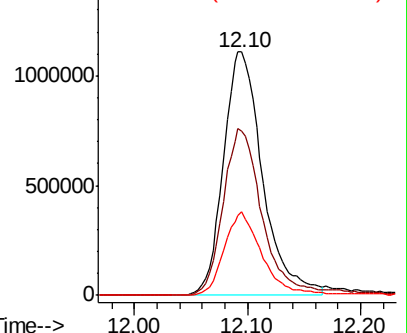
119 34.3 47.4 71.0#



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: 9.595 ppbv

RT: 14.43 min Scan# 3620

Delta R.T. 0.00 min

Lab File: VL036704.D

Acq: 6 Apr 2021 19:10

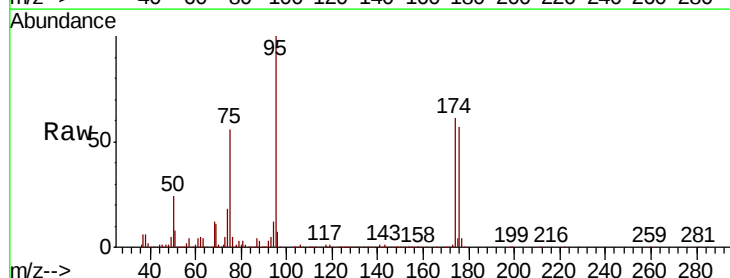
Tgt Ion: 95 Resp: 2044397

Ion Ratio Lower Upper

95 100

174 68.7 51.0 76.6

175 5.0 3.9 5.9



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

