

Data File : VL037095.D
Acq On : 2 Jun 2021 7:30
Operator : SY/AP
Sample : M2548-08DL 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-6ADL

Quant Time: Jun 02 10:33:56 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1440570	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4246163	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3854705	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.39 95 2872678 9.92 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 99.20%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.04	85	11668	0.048 ppbv	97
3) Chlorodifluoromethane	2.95	51	64789	0.245 ppbv #	64
4) Chloromethane	3.13	50	5515	0.061 ppbv #	67
9) Propene	3.19	41	96477	1.021 ppbv	96
13) Ethanol	3.59	45	1199536	95.133 ppbv	94
15) Acetone	3.85	43	292642	1.983 ppbv	98
19) Isopropyl Alcohol	3.97	45	96770	1.220 ppbv #	50
20) Methylene Chloride	4.32	84	9104	0.115 ppbv	96
25) Ethyl Acetate	5.67	43	46990	0.133 ppbv #	82
26) Hexane	5.67	57	64890	0.358 ppbv #	48
29) Chloroform	5.73	83	12250	0.048 ppbv	92
34) 2-Butanone	5.23	43	7489	0.048 ppbv #	52
39) 1,2-Dichloropropane	7.16	63	1004709	7.131 ppbv #	27
53) Toluene	9.79	91	176711	0.406 ppbv	98

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

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Instrument :

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ClientSampleId :

IA-6ADL

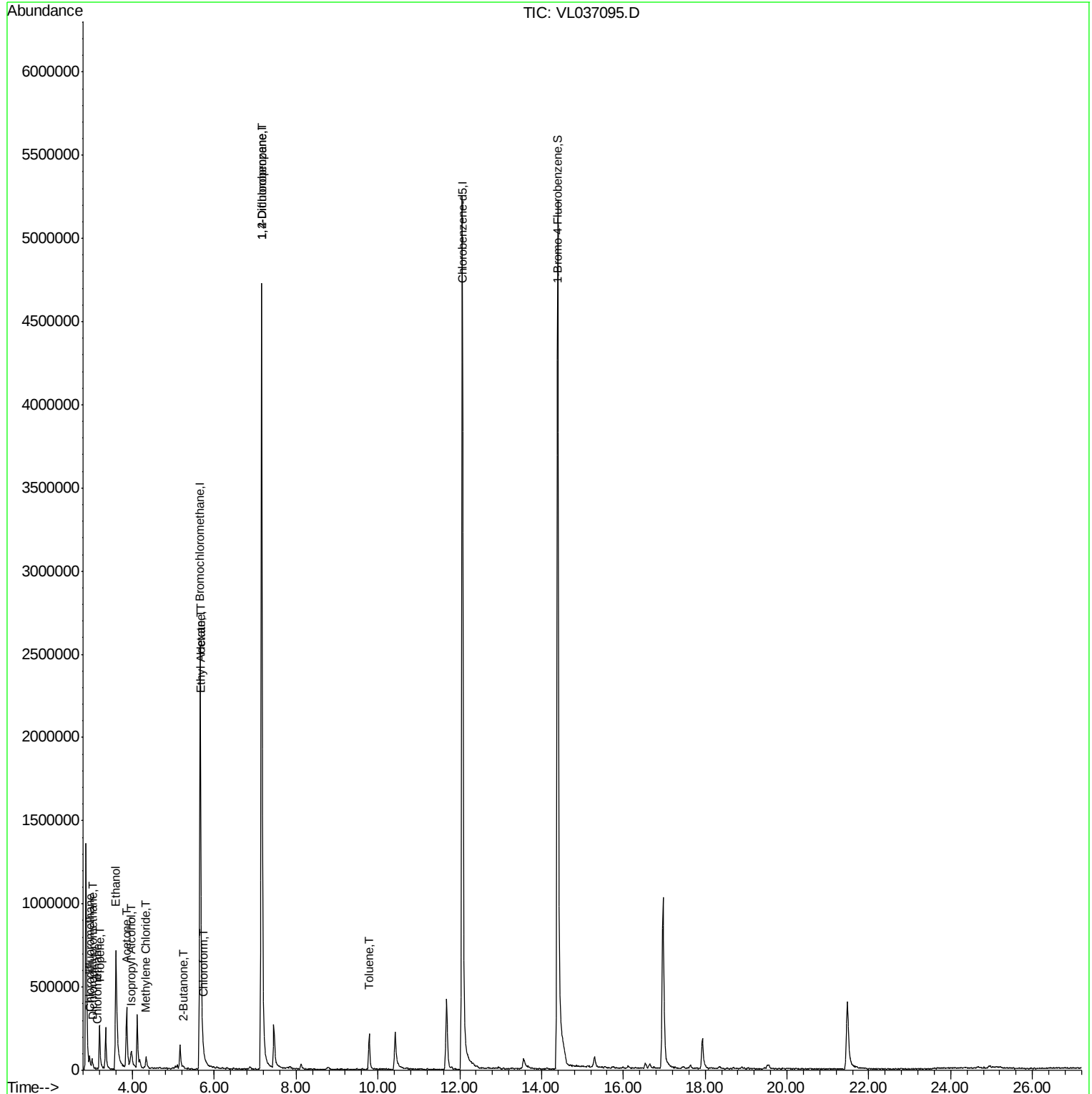
Quant Time: Jun 02 10:33:56 2021

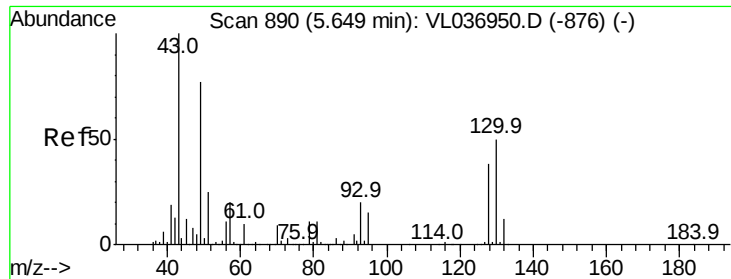
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL051821AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.00 min

Lab File: VL037095.D

Acq: 2 Jun 2021 7:30

Instrument :

MSVOA_L

ClientSampleId :

IA-6ADL

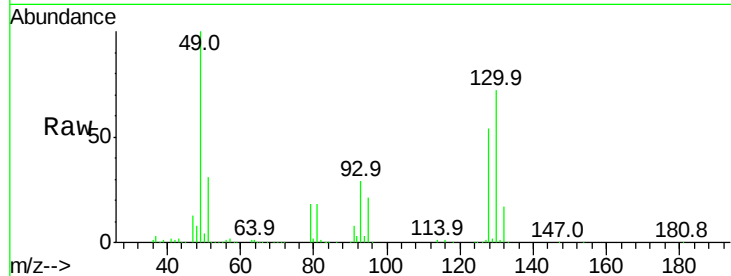
Tgt Ion: 49 Resp: 1440570

Ion Ratio Lower Upper

49 100

128 57.5 26.9 80.7

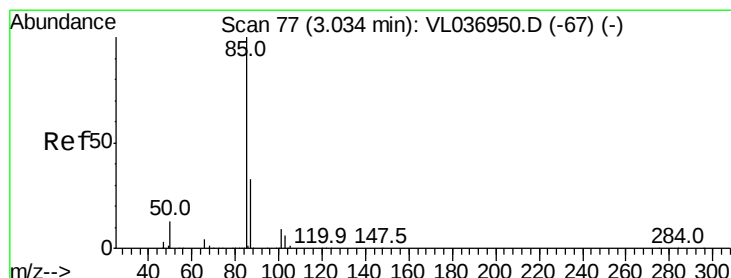
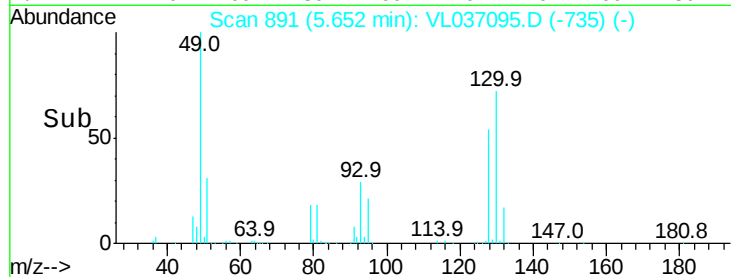
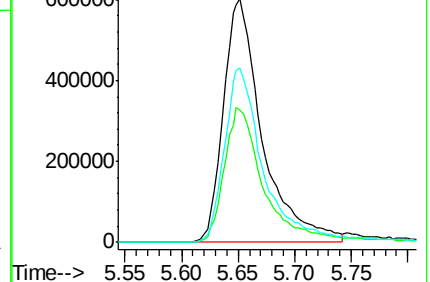
130 73.8 33.8 101.4



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: 0.048 ppbv

RT: 3.04 min Scan# 79

Delta R.T. 0.01 min

Lab File: VL037095.D

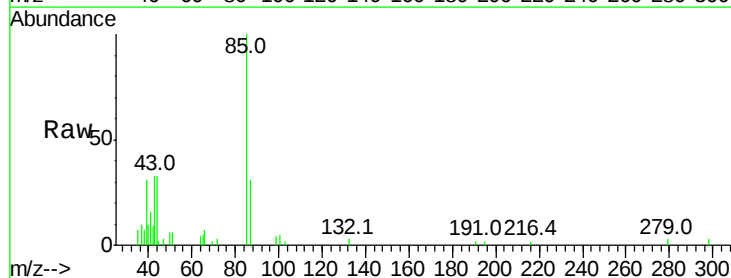
Acq: 2 Jun 2021 7:30

Tgt Ion: 85 Resp: 11668

Ion Ratio Lower Upper

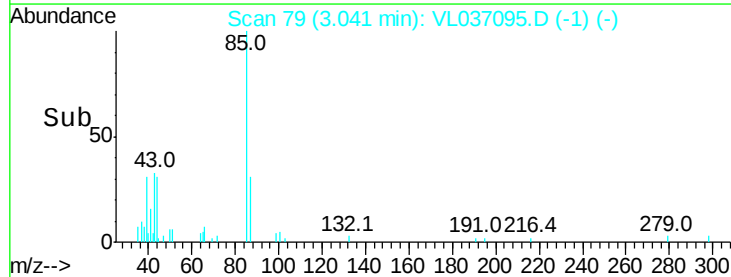
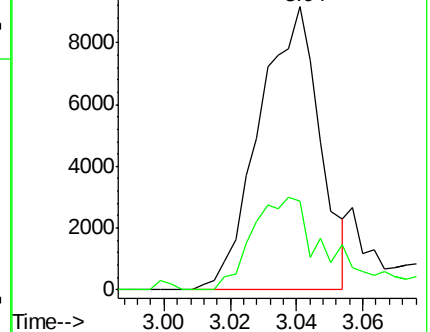
85 100

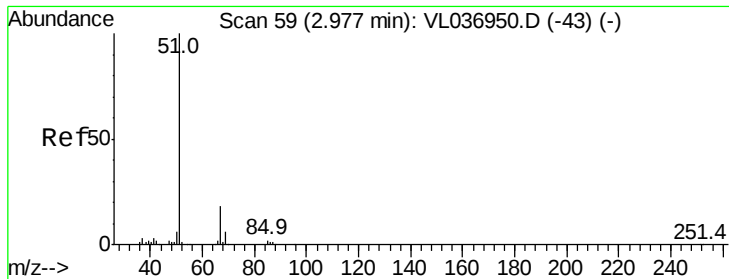
87 31.5 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.245 ppbv

RT: 2.95 min Scan# 52

Delta R.T. -0.02 min

Lab File: VL037095.D

Acq: 2 Jun 2021 7:30

Instrument :

MSVOA_L

ClientSampleId :

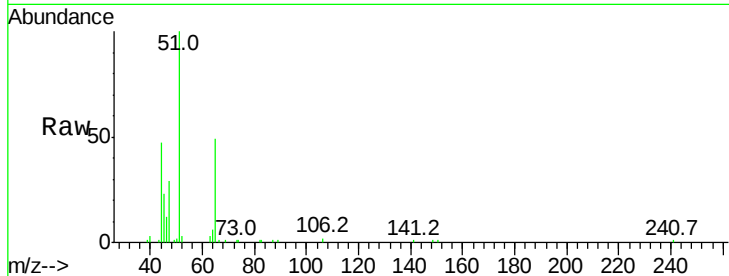
IA-6ADL

Tgt Ion: 51 Resp: 64789

Ion Ratio Lower Upper

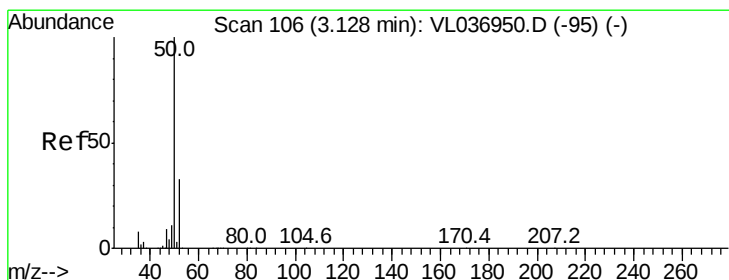
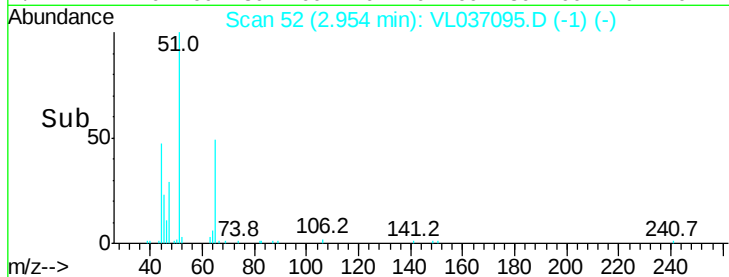
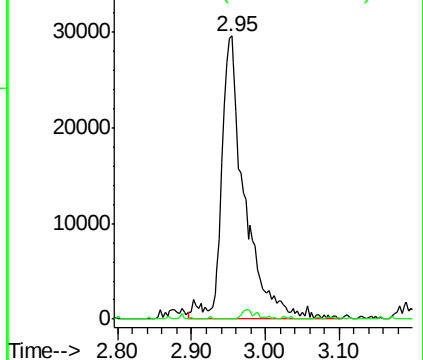
51 100

67 2.3 14.6 21.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.061 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.01 min

Lab File: VL037095.D

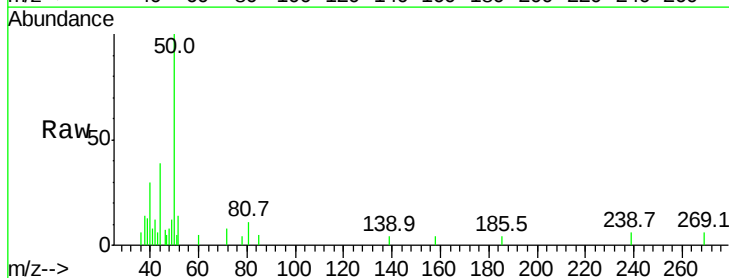
Acq: 2 Jun 2021 7:30

Tgt Ion: 50 Resp: 5515

Ion Ratio Lower Upper

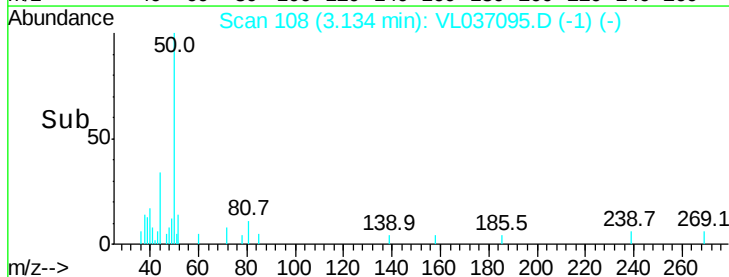
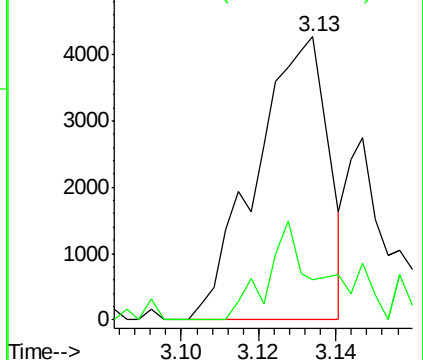
50 100

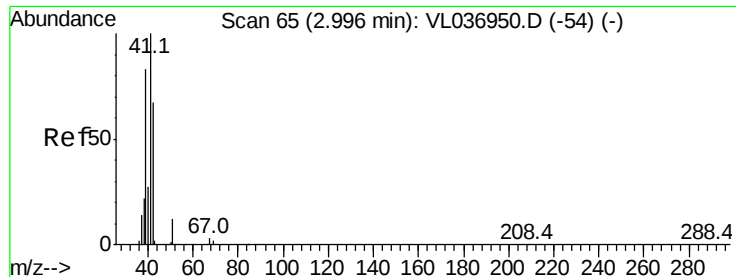
52 14.3 26.1 39.1#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.021 ppbv

RT: 3.19 min Scan# 125

Delta R.T. 0.19 min

Lab File: VL037095.D

Acq: 2 Jun 2021 7:30

Instrument :

MSVOA_L

ClientSampleId :

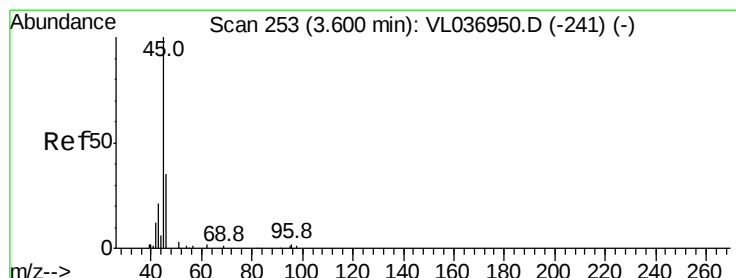
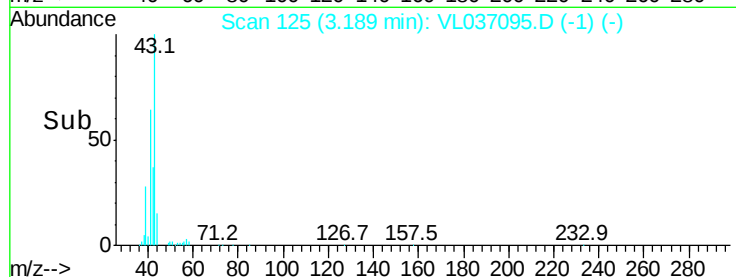
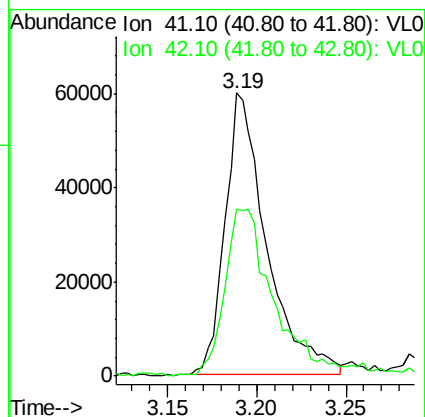
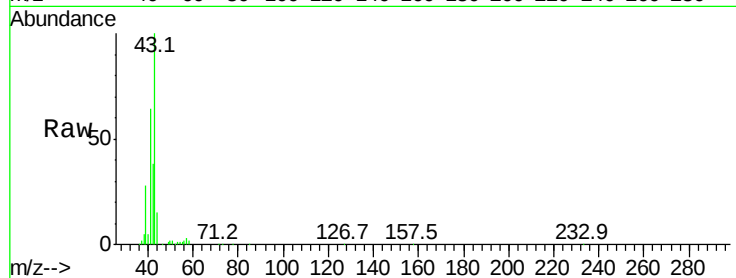
IA-6ADL

Tgt Ion: 41 Resp: 96477

Ion Ratio Lower Upper

41 100

42 70.8 53.9 80.9



#13

Ethanol

Concen: 95.133 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.01 min

Lab File: VL037095.D

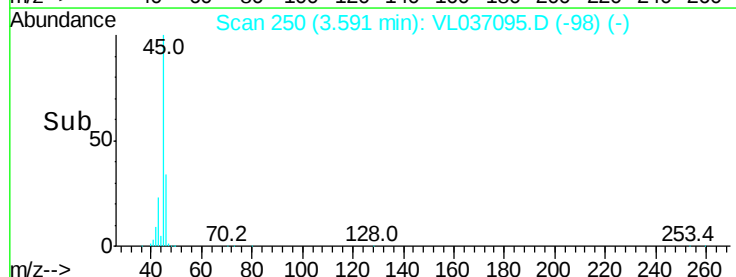
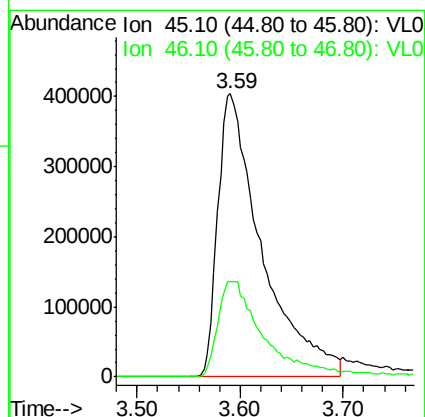
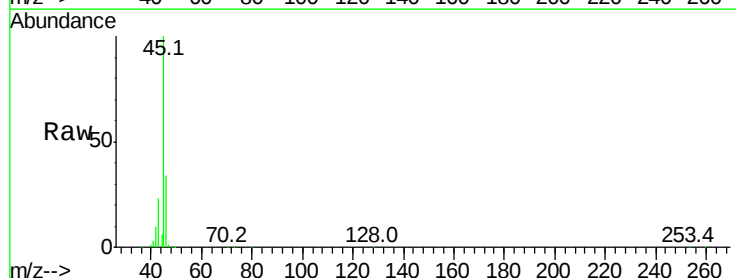
Acq: 2 Jun 2021 7:30

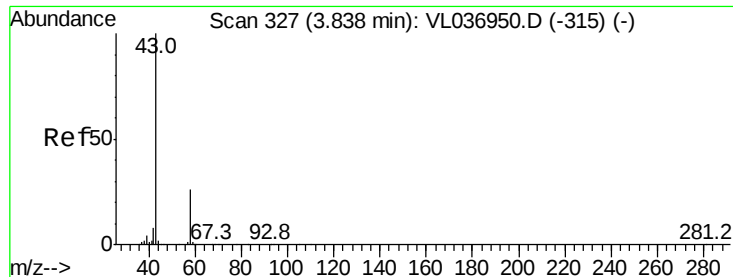
Tgt Ion: 45 Resp: 1199536

Ion Ratio Lower Upper

45 100

46 36.8 16.3 65.3





#15

Acetone

Concen: 1.983 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.01 min

Lab File: VL037095.D

Acq: 2 Jun 2021 7:30

Instrument :

MSVOA_L

ClientSampleId :

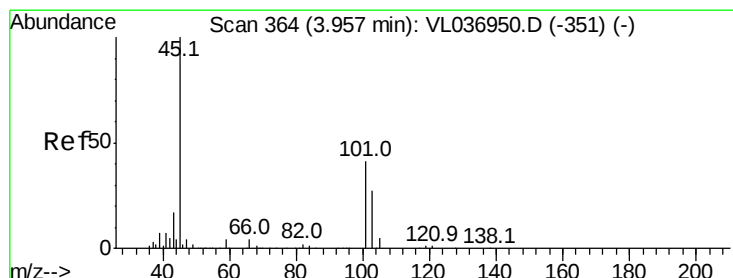
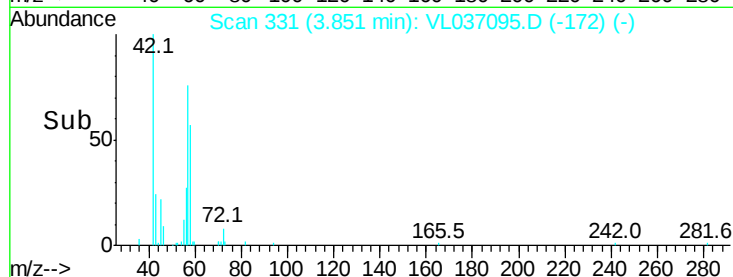
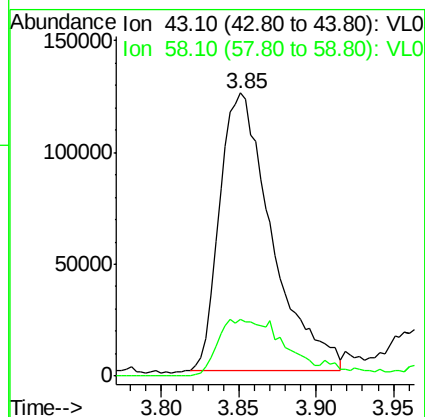
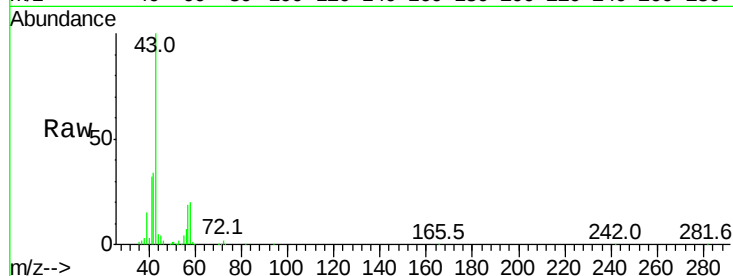
IA-6ADL

Tgt Ion: 43 Resp: 292642

Ion Ratio Lower Upper

43 100

58 28.9 24.0 36.0



#19

Isopropyl Alcohol

Concen: 1.220 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.01 min

Lab File: VL037095.D

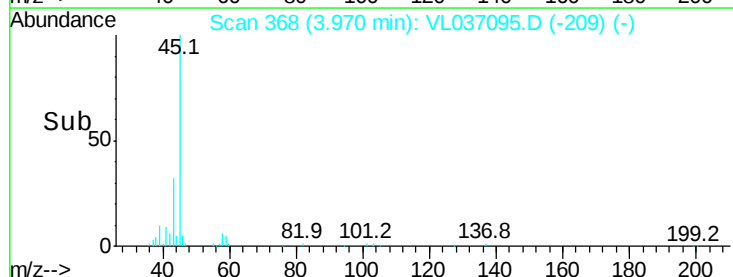
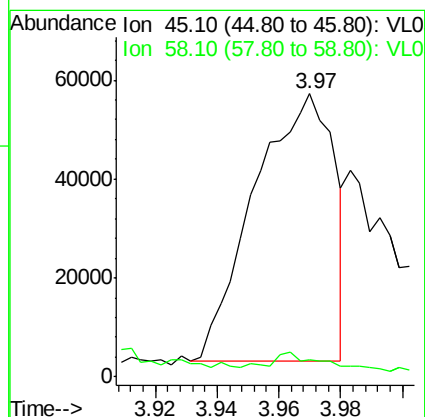
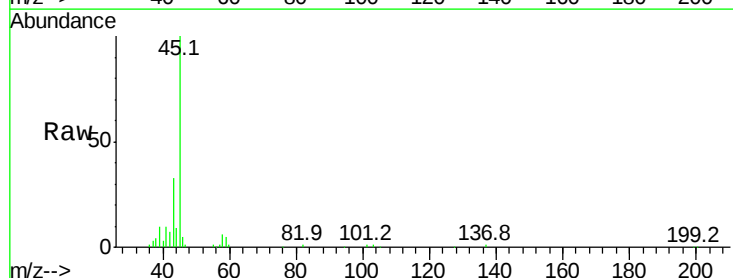
Acq: 2 Jun 2021 7:30

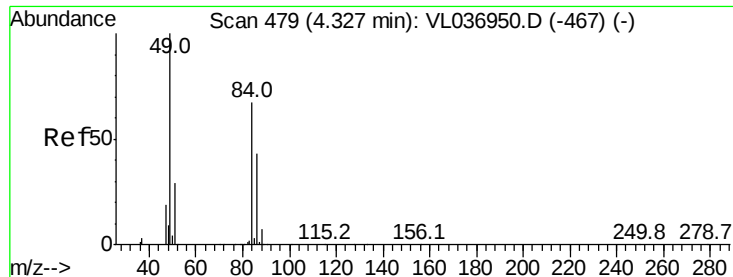
Tgt Ion: 45 Resp: 96770

Ion Ratio Lower Upper

45 100

58 13.5 37.2 55.8#

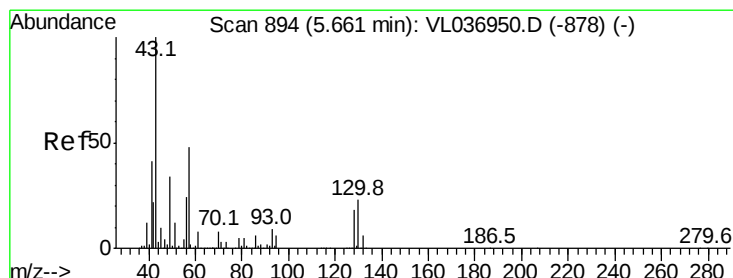
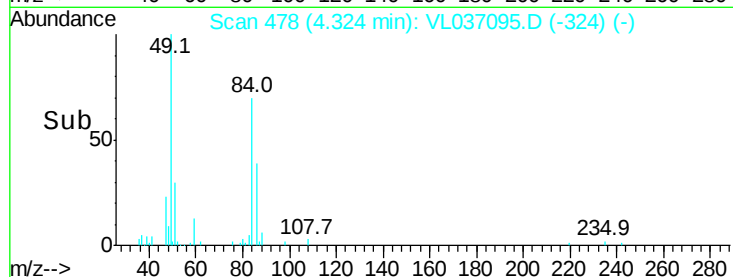
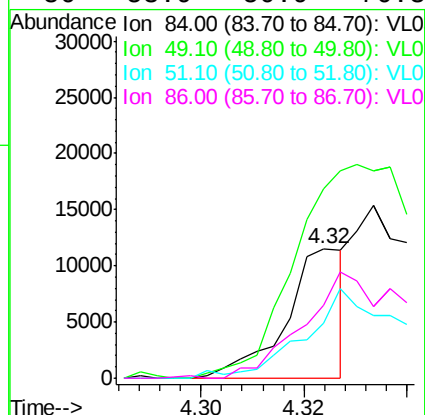
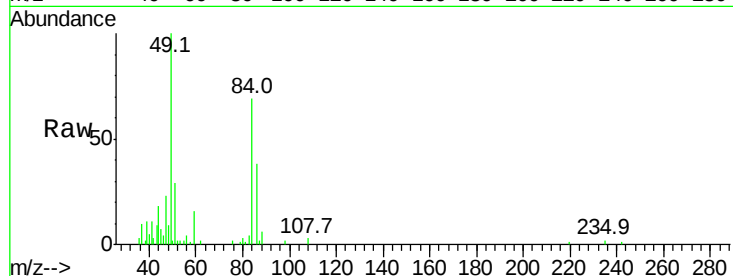




#20
Methylene Chloride
Concen: 0.115 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.00 min
Lab File: VL037095.D
Acq: 2 Jun 2021 7:30

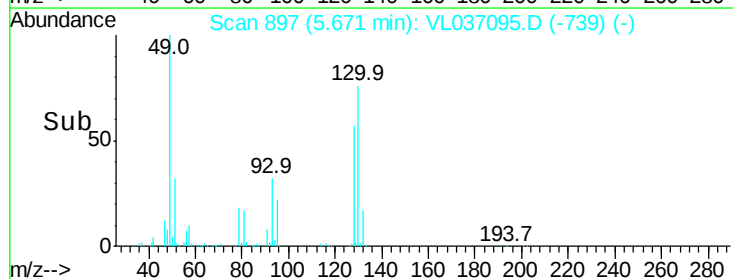
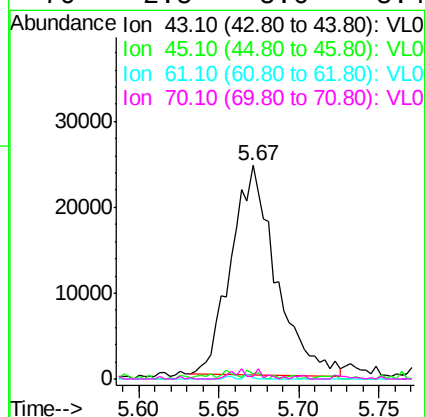
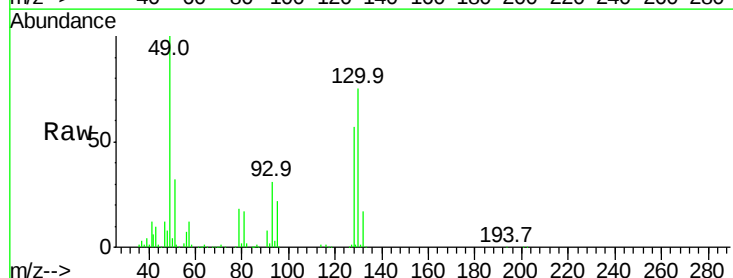
Instrument :
MSVOA_L
ClientSampleId :
IA-6ADL

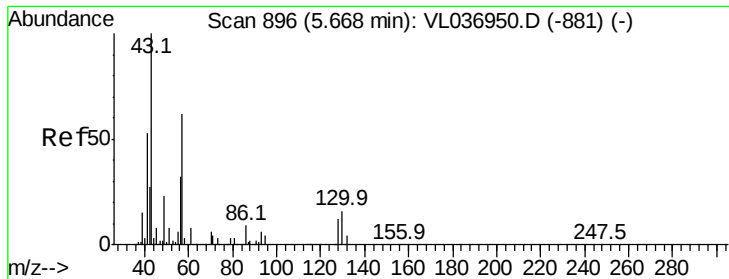
Tgt Ion:	84	Resp:	9104
Ion	Ratio	Lower	Upper
84	100		
49	149.3	119.8	179.6
51	45.1	35.1	52.7
86	53.9	50.9	76.3



#25
Ethyl Acetate
Concen: 0.133 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.01 min
Lab File: VL037095.D
Acq: 2 Jun 2021 7:30

Tgt Ion:	43	Resp:	46990
Ion	Ratio	Lower	Upper
43	100		
45	4.2	7.8	11.8#
61	0.5	7.8	11.8#
70	2.5	5.6	8.4#





#26

Hexane

Concen: 0.358 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

Lab File: VL037095.D

Acq: 2 Jun 2021 7:30

Instrument :

MSVOA_L

ClientSampleId :

IA-6ADL

Tgt Ion: 57 Resp: 64890

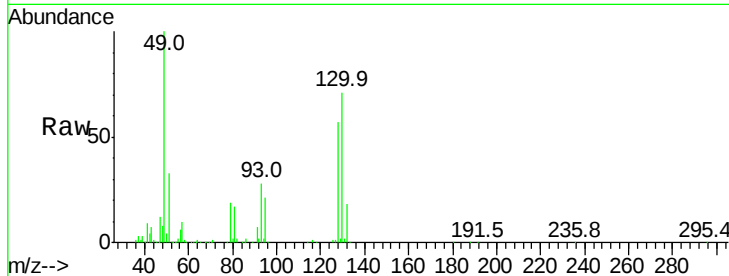
Ion Ratio Lower Upper

57 100

41 97.8 70.5 105.7

43 81.7 165.8 248.8#

56 56.9 42.2 63.4

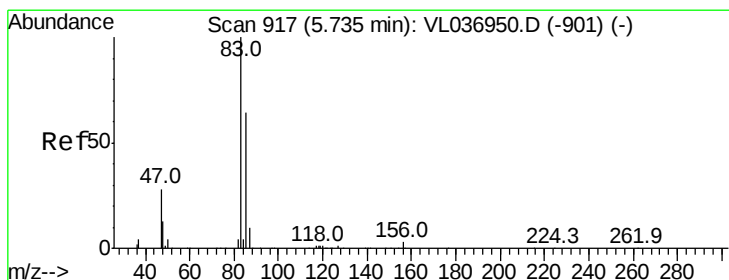
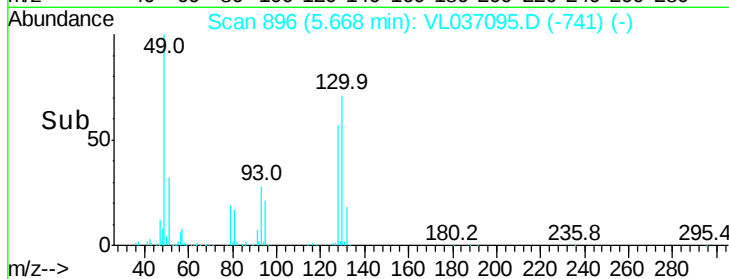
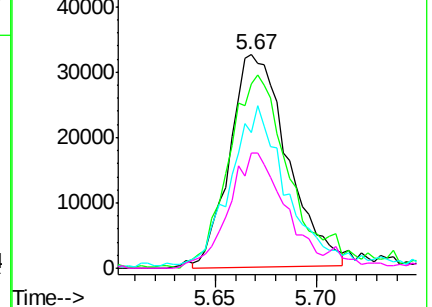


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#29

Chloroform

Concen: 0.048 ppbv

RT: 5.73 min Scan# 916

Delta R.T. -0.00 min

Lab File: VL037095.D

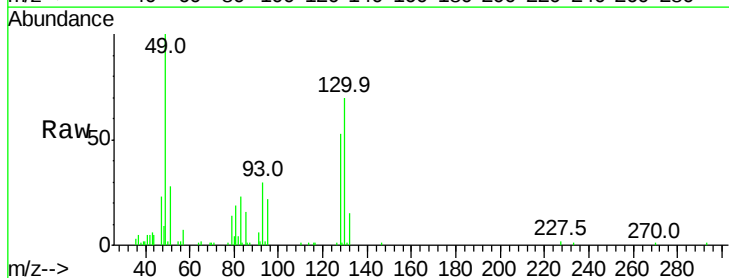
Acq: 2 Jun 2021 7:30

Tgt Ion: 83 Resp: 12250

Ion Ratio Lower Upper

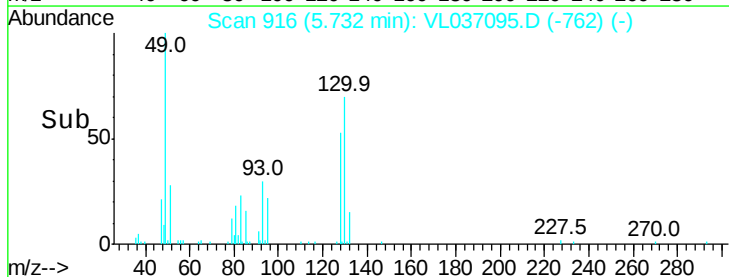
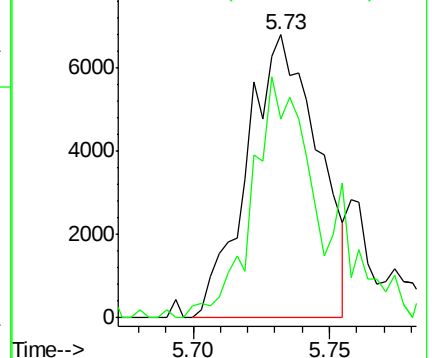
83 100

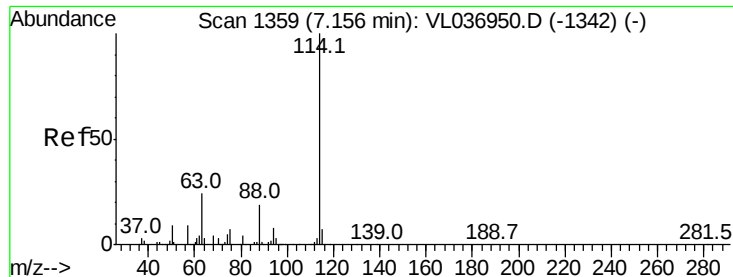
85 70.5 51.1 76.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.00 min

Lab File: VL037095.D

Acq: 2 Jun 2021 7:30

Instrument :

MSVOA_L

ClientSampleId :

IA-6ADL

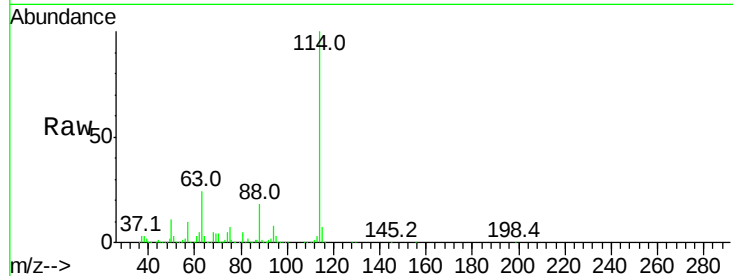
Tgt Ion:114 Resp: 4246163

Ion Ratio Lower Upper

114 100

63 24.4 19.6 29.4

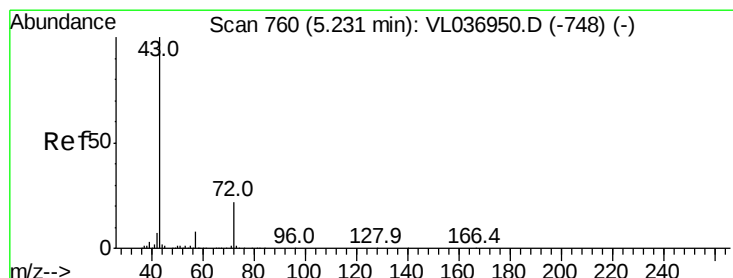
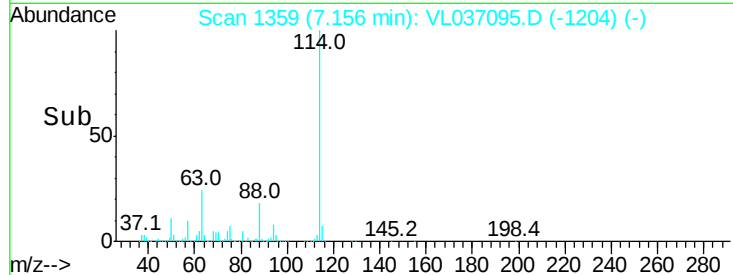
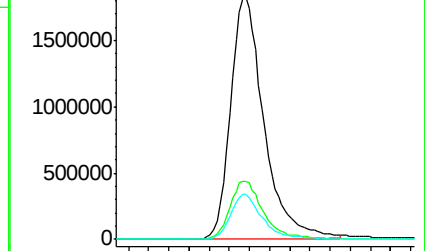
88 18.0 14.6 21.8



Abundance Ion 114.10 (113.80 to 114.80): VL036950.D (-1342) (-)

Ion 63.10 (62.80 to 63.80): VL036950.D (-1342) (-)

Ion 88.10 (87.80 to 88.80): VL036950.D (-1342) (-)



#34

2-Butanone

Concen: 0.048 ppbv

RT: 5.23 min Scan# 760

Delta R.T. -0.00 min

Lab File: VL037095.D

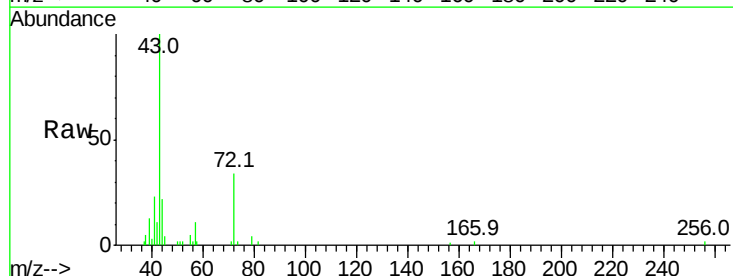
Acq: 2 Jun 2021 7:30

Tgt Ion: 43 Resp: 7489

Ion Ratio Lower Upper

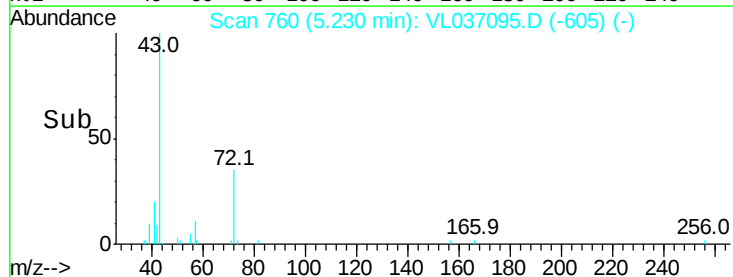
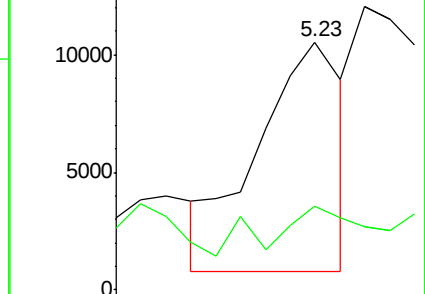
43 100

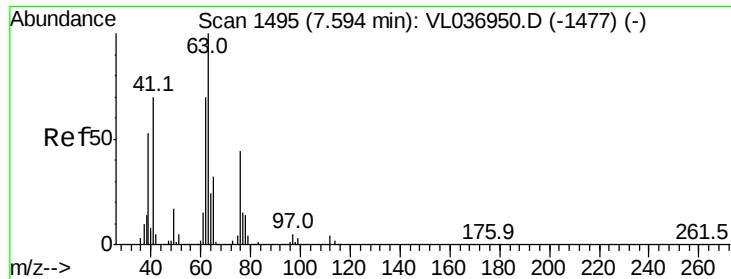
72 0.0 19.0 28.4#



Abundance Ion 43.10 (42.80 to 43.80): VL036950.D (-748) (-)

Ion 72.10 (71.80 to 72.80): VL036950.D (-748) (-)

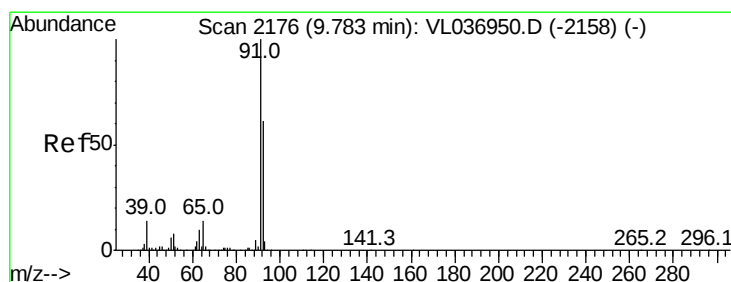
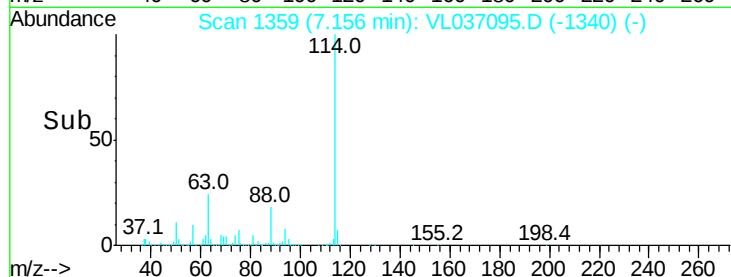
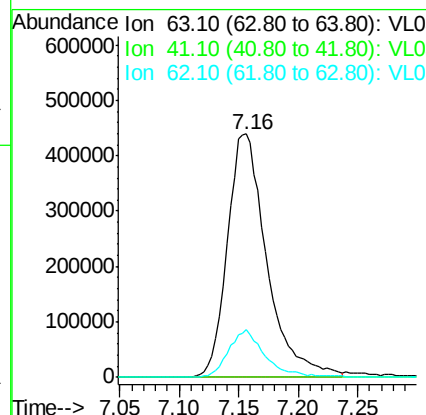
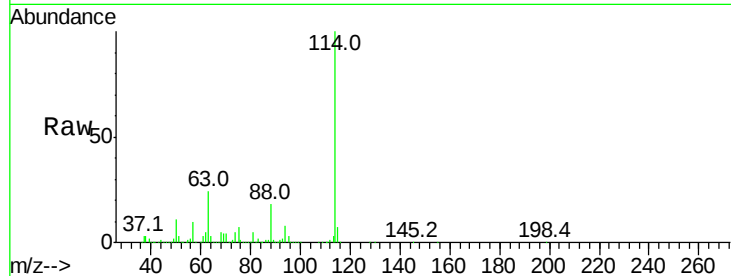




#39
 1,2-Dichloropropane
 Concen: 7.131 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.44 min
 Lab File: VL037095.D
 Acq: 2 Jun 2021 7:30

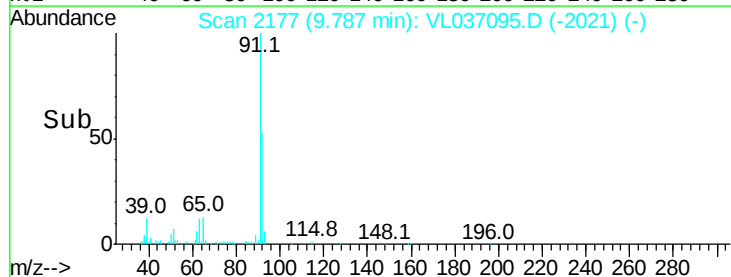
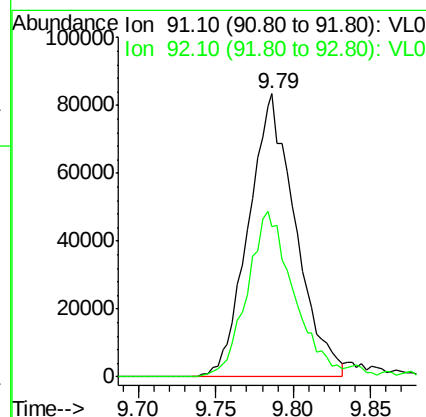
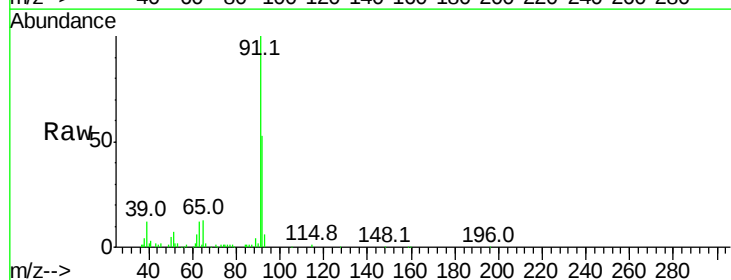
Instrument :
 MSVOA_L
 ClientSampled :
 IA-6ADL

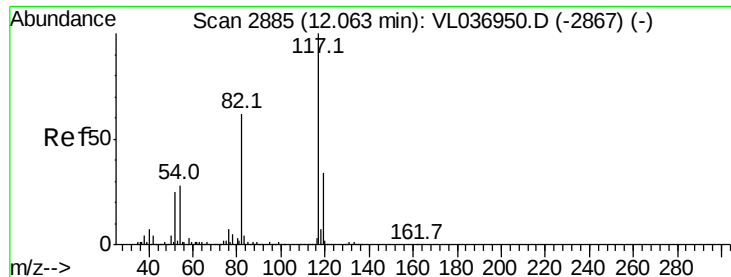
Tgt Ion: 63 Resp: 1004709
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.7 83.5#
 62 19.4 56.2 84.4#



#53
 Toluene
 Concen: 0.406 ppbv
 RT: 9.79 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VL037095.D
 Acq: 2 Jun 2021 7:30

Tgt Ion: 91 Resp: 176711
 Ion Ratio Lower Upper
 91 100
 92 60.2 49.5 74.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.00 min

Lab File: VL037095.D

Acq: 2 Jun 2021 7:30

Instrument :

MSVOA_L

ClientSampleId :

IA-6ADL

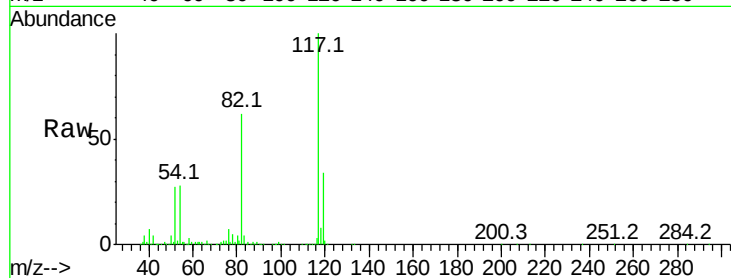
Tgt Ion:117 Resp: 3854705

Ion Ratio Lower Upper

117 100

82 64.3 52.6 79.0

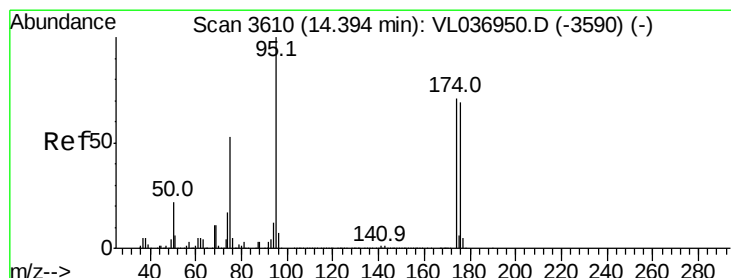
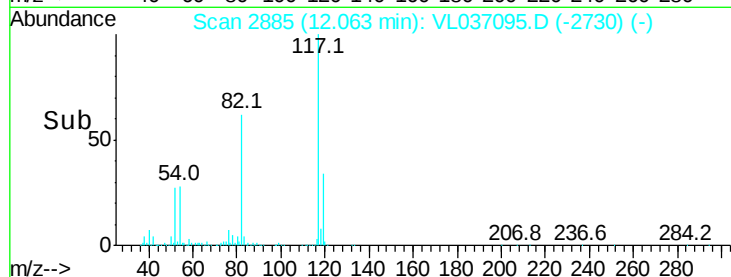
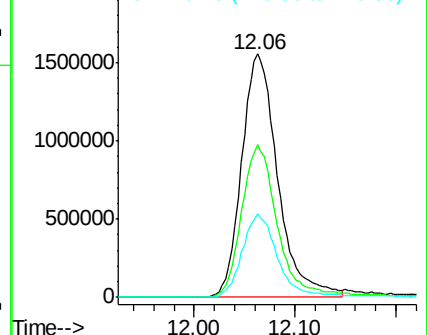
119 34.6 46.6 70.0#



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: 9.920 ppbv

RT: 14.39 min Scan# 3610

Delta R.T. -0.00 min

Lab File: VL037095.D

Acq: 2 Jun 2021 7:30

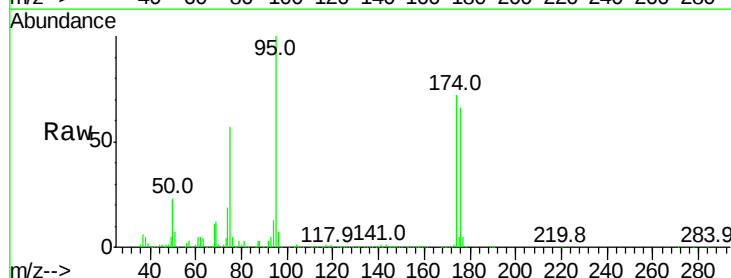
Tgt Ion: 95 Resp: 2872678

Ion Ratio Lower Upper

95 100

174 75.0 58.4 87.6

175 5.6 4.4 6.6



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

