

Data File : VL035108.D
Acq On : 22 Jun 2020 12:53
Operator : SY/AP
Sample : L3075-01DL 20X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
CARBON-01DL

Quant Time: Jun 22 14:31:55 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL061920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Jun 20 02:10:36 2020
QLast Update : Sat Jun 20 02:10:36 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1367543	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3160925	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	3023113	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.45 95 2533761 10.09 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 100.90%

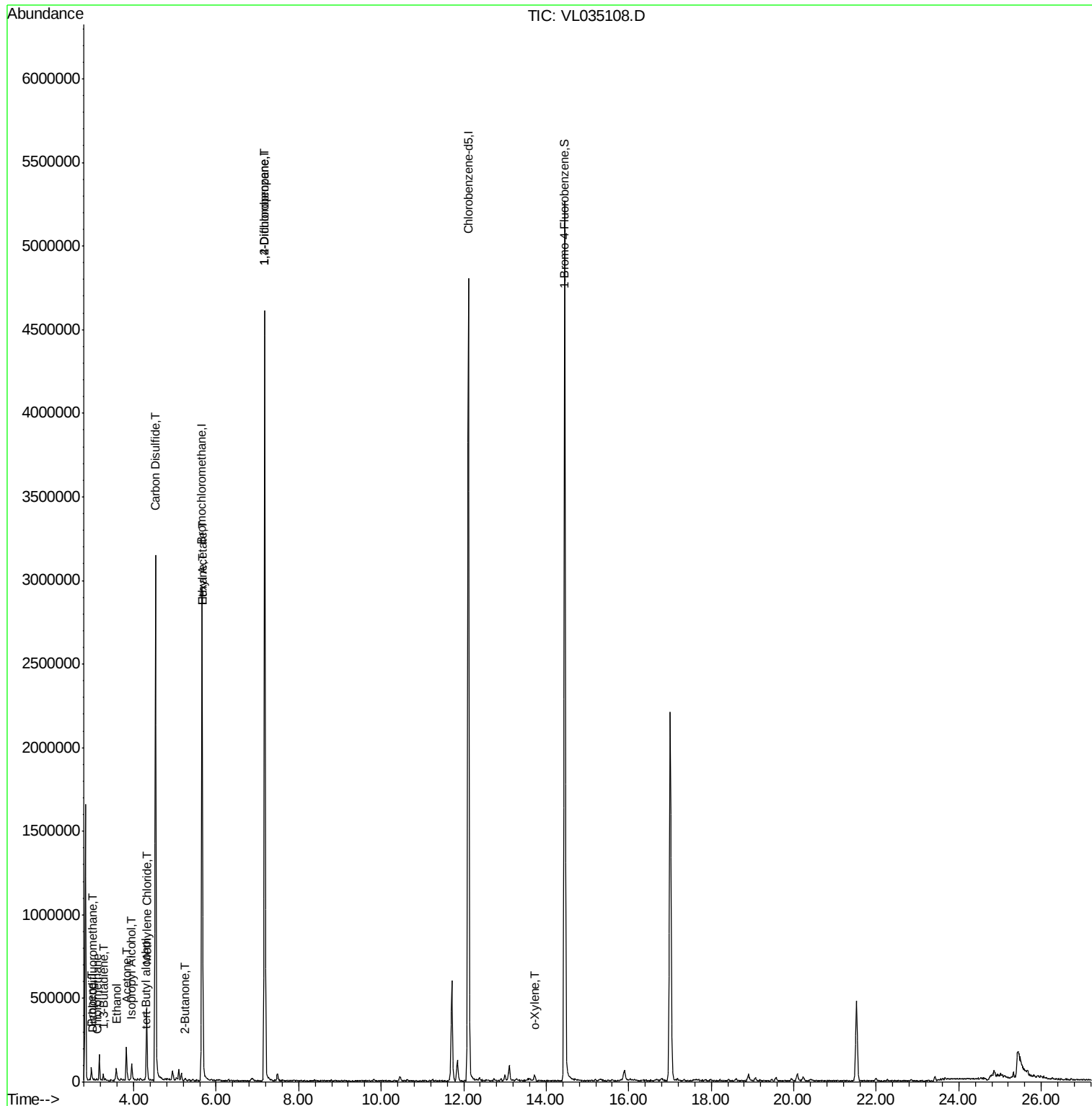
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.01	85	7797	0.042	ppbv	93
4) Chloromethane	3.10	50	5149	0.061	ppbv #	72
9) Propene	2.96	41	2084	0.035	ppbv #	15
13) Ethanol	3.57	45	68671	3.039	ppbv	92
15) Acetone	3.82	43	193760	1.172	ppbv	96
16) 1,3-Butadiene	3.27	39	11078	0.153	ppbv #	15
17) tert-Butyl alcohol	4.29	59	7251	0.049	ppbv #	78
19) Isopropyl Alcohol	3.95	45	96343	0.897	ppbv #	97
20) Methylene Chloride	4.32	84	132234	1.976	ppbv	98
25) Ethyl Acetate	5.67	43	21967	0.074	ppbv #	94
26) Hexane	5.67	57	29927	0.222	ppbv #	32
27) Carbon Disulfide	4.53	76	3647582	26.200	ppbv	99
34) 2-Butanone	5.23	43	5977	0.033	ppbv #	53
39) 1,2-Dichloropropane	7.18	63	856498	8.947	ppbv #	24
60) o-Xylene	13.72	91	23038	0.077	ppbv	93

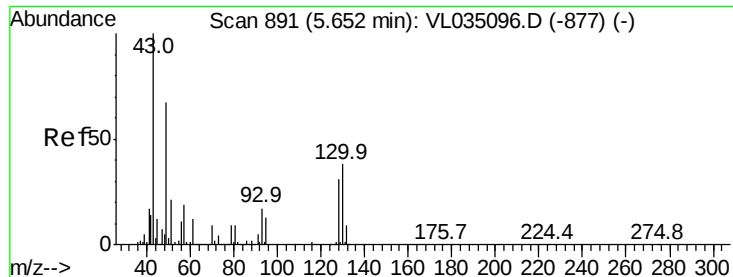
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jun 20 02:10:36 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. 0.00 min

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Instrument :

MSVOA_L

ClientSampleId :

CARBON-01DL

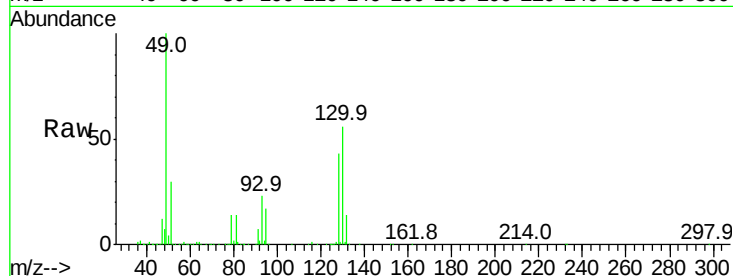
Tgt Ion: 49 Resp: 1367543

Ion Ratio Lower Upper

49 100

128 46.6 22.9 68.5

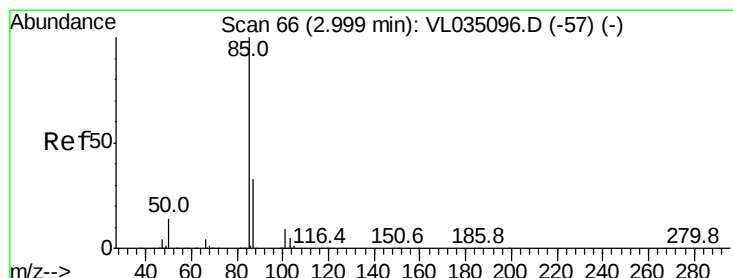
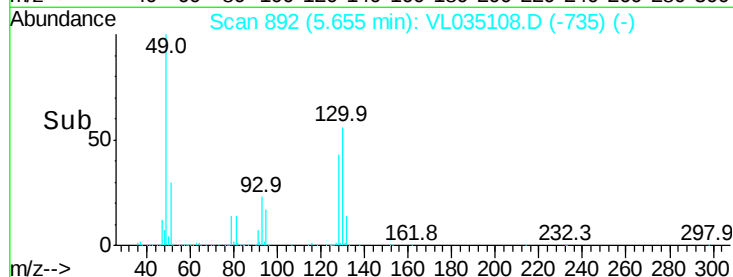
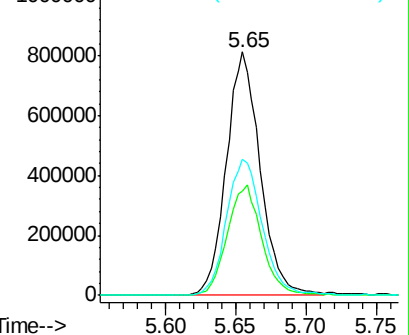
130 59.8 29.0 87.0



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: 0.042 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL035108.D

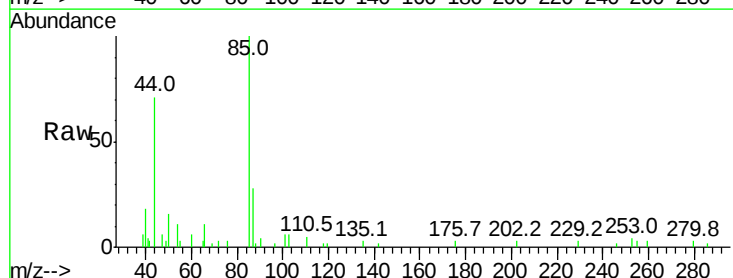
Acq: 22 Jun 2020 12:53

Tgt Ion: 85 Resp: 7797

Ion Ratio Lower Upper

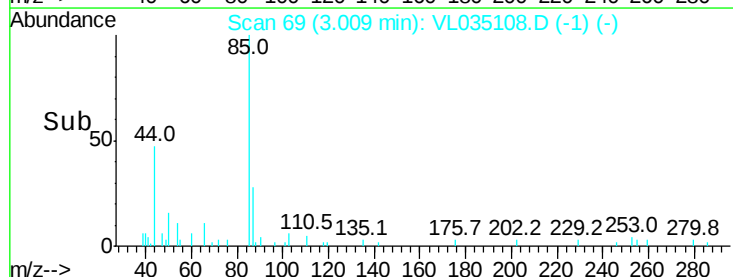
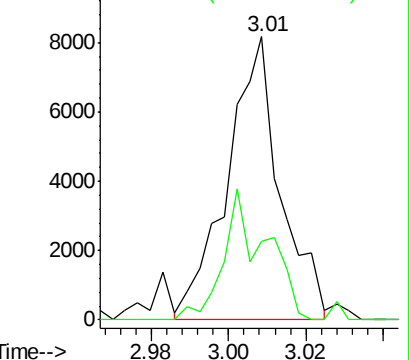
85 100

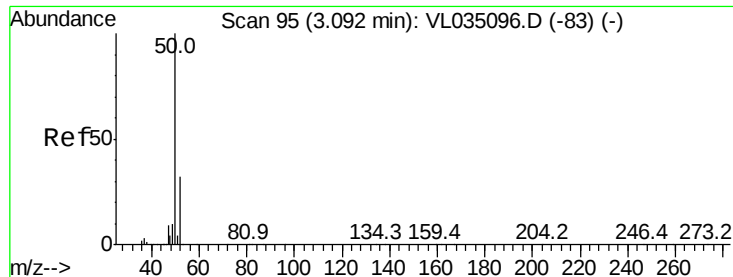
87 28.6 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.061 ppbv

RT: 3.10 min Scan# 97

Delta R.T. 0.01 min

Lab File: VL035108.D

Acq: 22 Jun 2020 12:53

Instrument :

MSVOA_L

ClientSampleId :

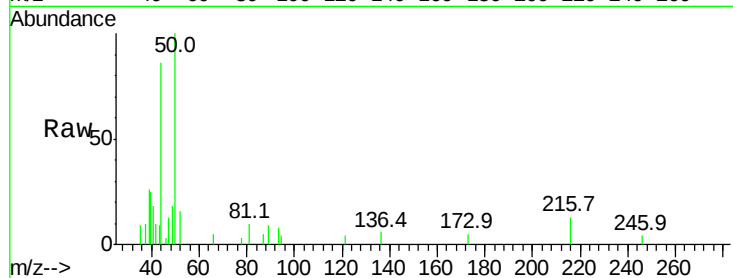
CARBON-01DL

Tgt Ion: 50 Resp: 5149

Ion Ratio Lower Upper

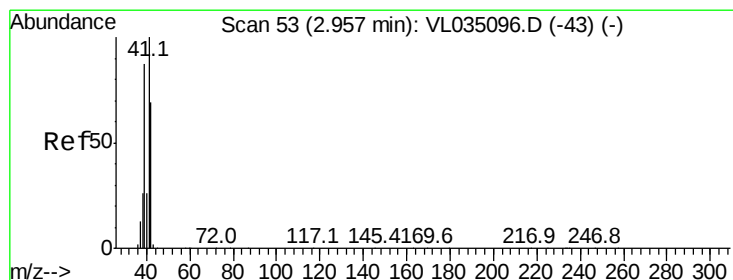
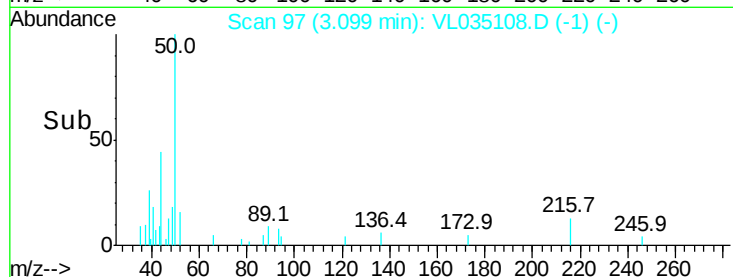
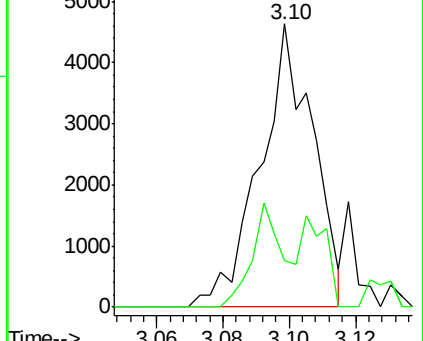
50 100

52 16.3 25.4 38.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.035 ppbv

RT: 2.96 min Scan# 54

Delta R.T. 0.00 min

Lab File: VL035108.D

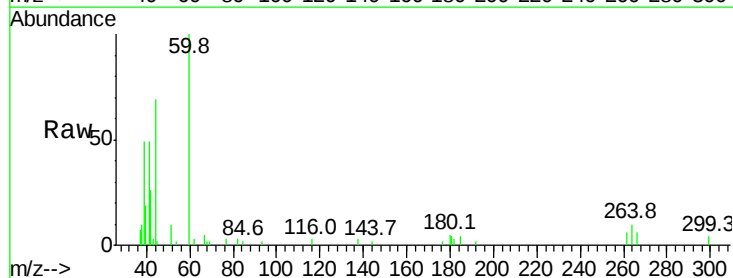
Acq: 22 Jun 2020 12:53

Tgt Ion: 41 Resp: 2084

Ion Ratio Lower Upper

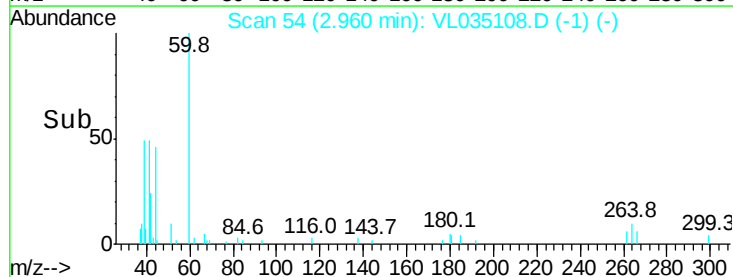
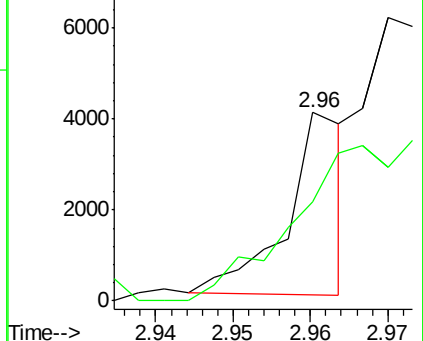
41 100

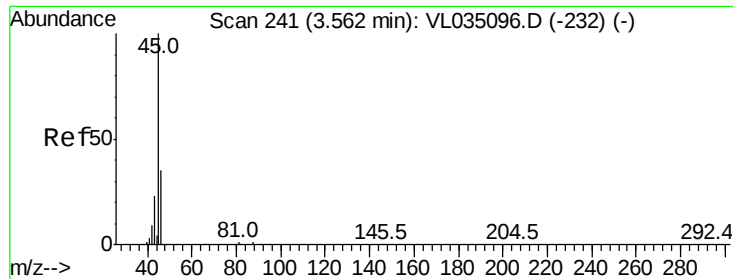
42 0.0 55.8 83.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

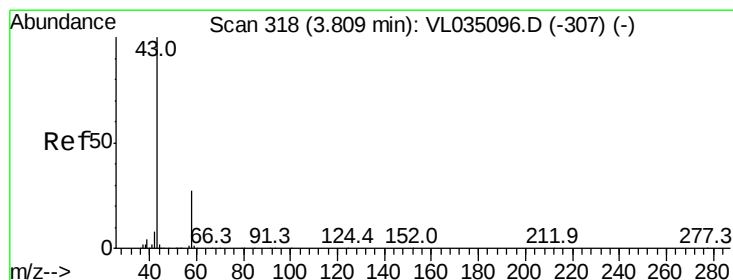
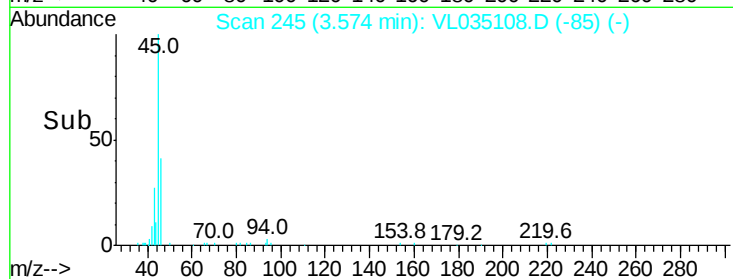
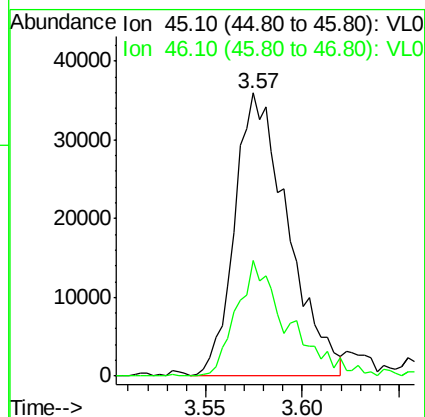
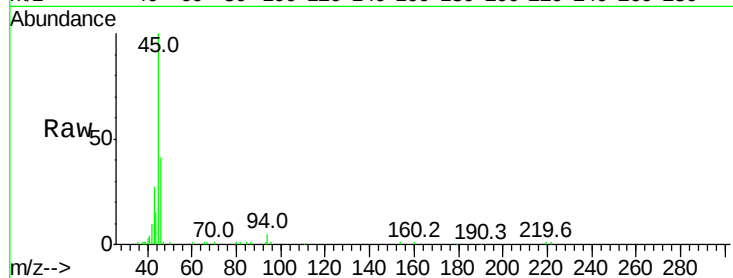




#13
Ethanol
Concen: 3.039 ppbv
RT: 3.57 min Scan# 245
Delta R.T. 0.01 min
Lab File: VL035108.D
Acq: 22 Jun 2020 12:53

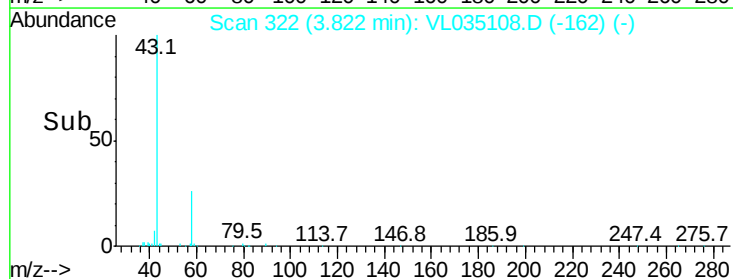
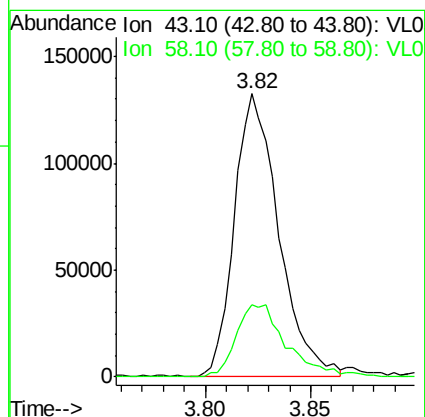
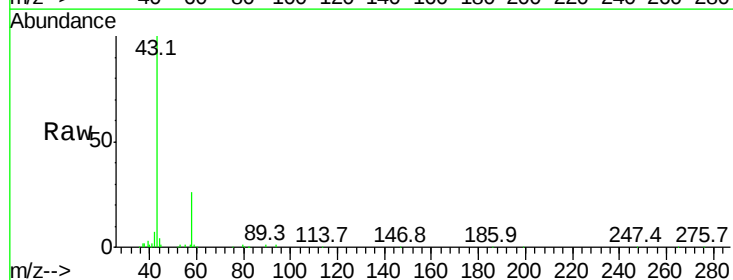
Instrument :
MSVOA_L
ClientSampleId :
CARBON-01DL

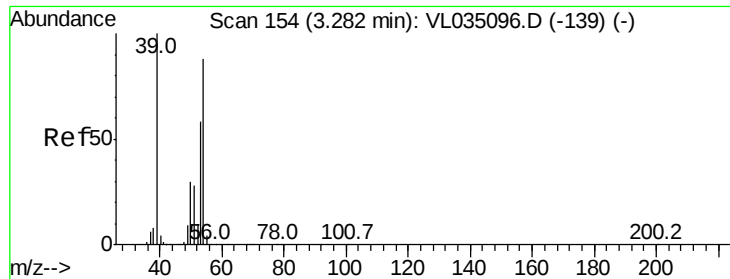
Tgt Ion: 45 Resp: 68671
Ion Ratio Lower Upper
45 100
46 40.3 14.2 57.0



#15
Acetone
Concen: 1.172 ppbv
RT: 3.82 min Scan# 322
Delta R.T. 0.01 min
Lab File: VL035108.D
Acq: 22 Jun 2020 12:53

Tgt Ion: 43 Resp: 193760
Ion Ratio Lower Upper
43 100
58 29.2 21.8 32.6

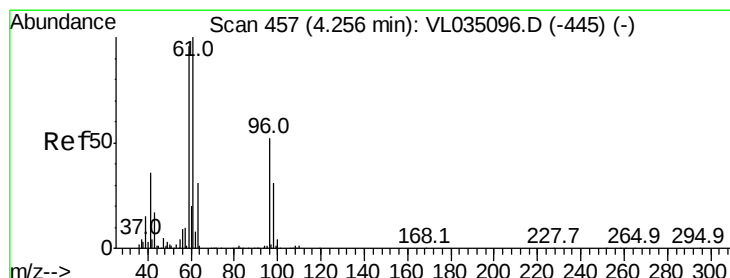
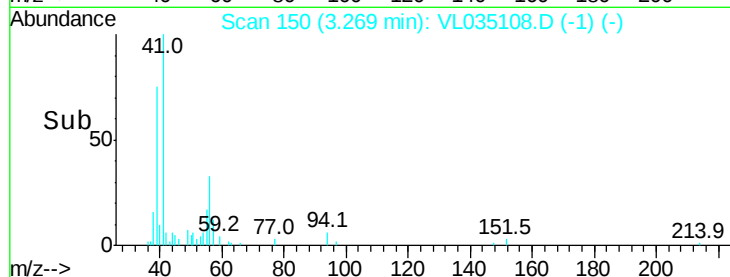
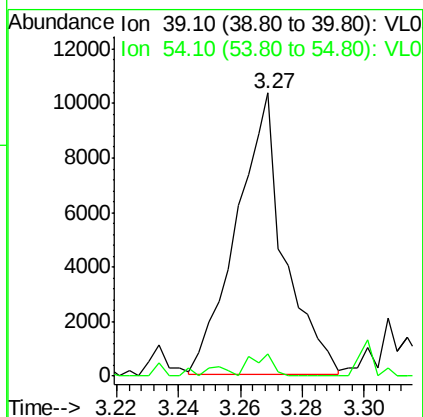
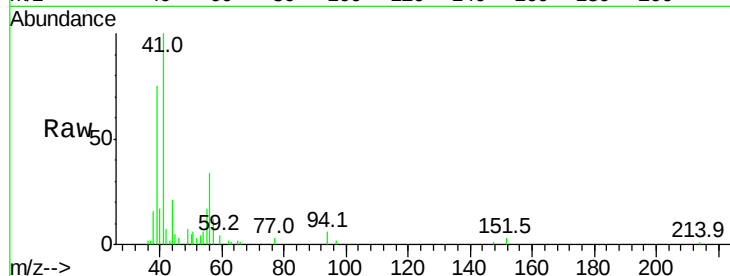




#16
1,3-Butadiene
Concen: 0.153 ppbv
RT: 3.27 min Scan# 150
Delta R.T. -0.01 min
Lab File: VL035108.D
Acq: 22 Jun 2020 12:53

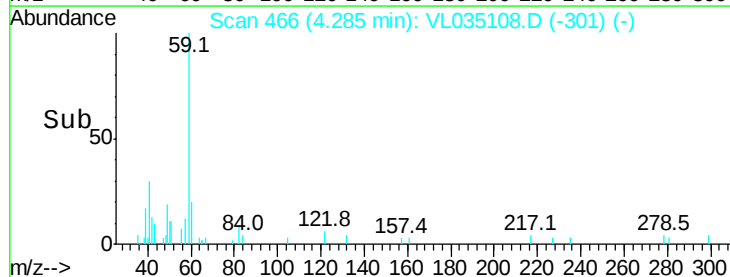
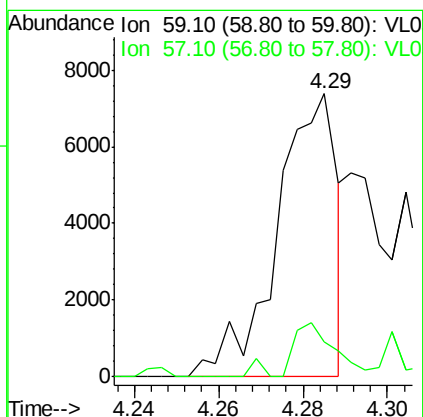
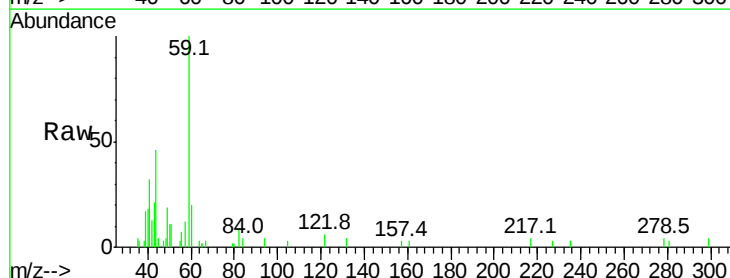
Instrument :
MSVOA_L
ClientSampleId :
CARBON-01DL

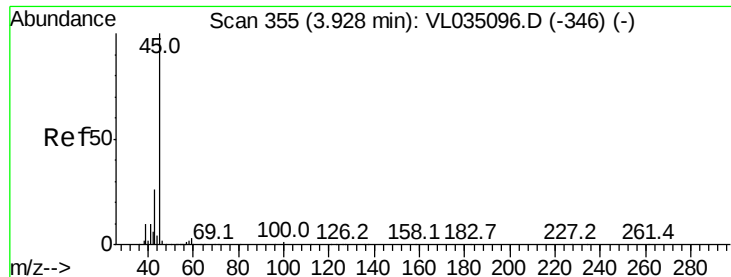
Tgt Ion: 39 Resp: 11078
Ion Ratio Lower Upper
39 100
54 6.7 67.0 100.4#



#17
tert-Butyl alcohol
Concen: 0.049 ppbv
RT: 4.29 min Scan# 466
Delta R.T. 0.03 min
Lab File: VL035108.D
Acq: 22 Jun 2020 12:53

Tgt Ion: 59 Resp: 7251
Ion Ratio Lower Upper
59 100
57 18.9 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 0.897 ppbv

RT: 3.95 min Scan# 361

Delta R.T. 0.02 min

Lab File: VL035108.D

Acq: 22 Jun 2020 12:53

Instrument :

MSVOA_L

ClientSampleId :

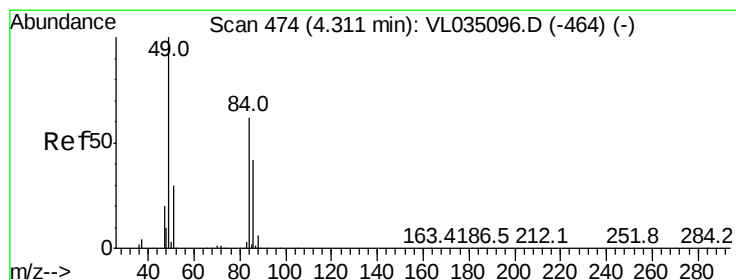
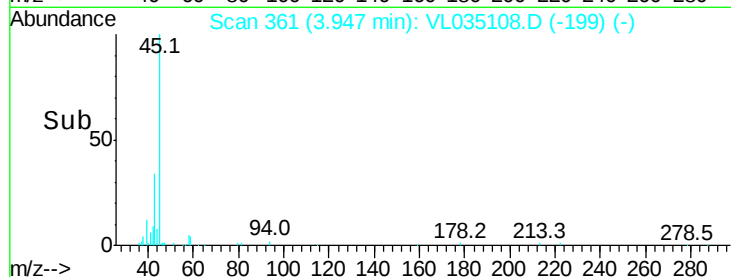
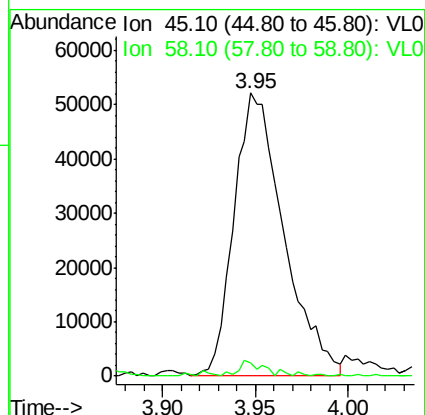
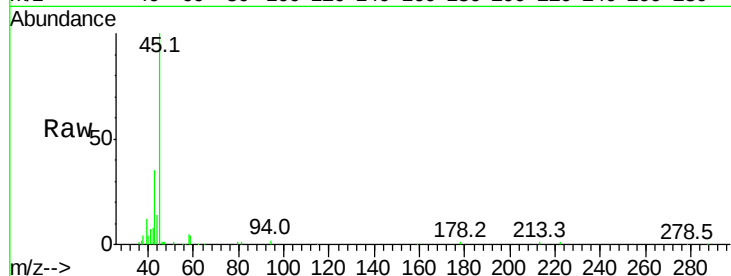
CARBON-01DL

Tgt Ion: 45 Resp: 96343

Ion Ratio Lower Upper

45 100

58 3.3 1.8 2.8#



#20

Methylene Chloride

Concen: 1.976 ppbv

RT: 4.32 min Scan# 476

Delta R.T. 0.01 min

Lab File: VL035108.D

Acq: 22 Jun 2020 12:53

Tgt Ion: 84 Resp: 132234

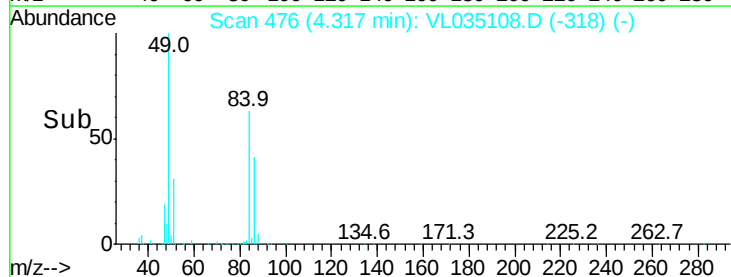
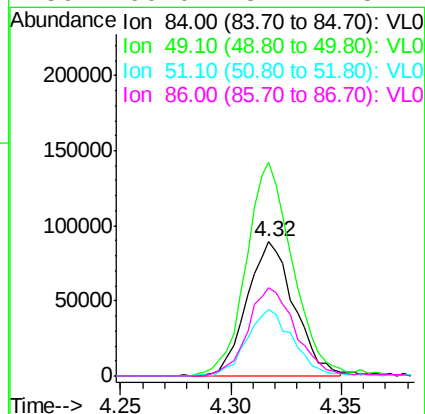
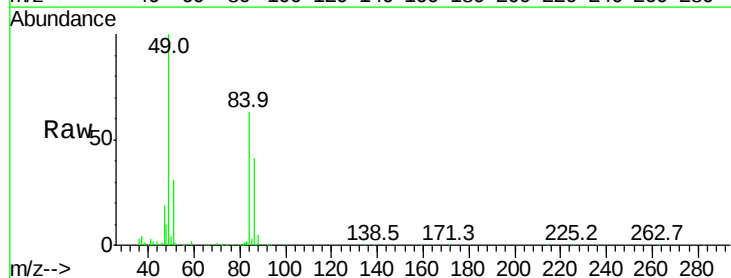
Ion Ratio Lower Upper

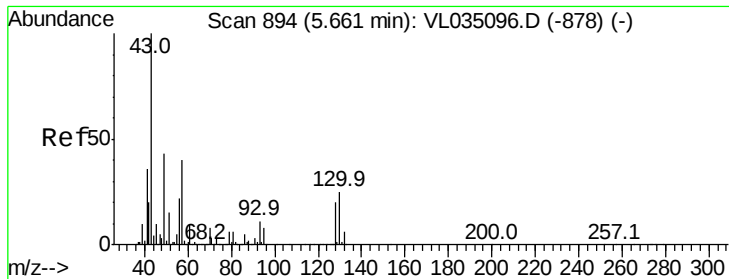
84 100

49 159.8 128.8 193.2

51 50.9 38.7 58.1

86 66.0 54.1 81.1





#25

Ethyl Acetate

Concen: 0.074 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL035108.D

Acq: 22 Jun 2020 12:53

Instrument :

MSVOA_L

ClientSampleId :

CARBON-01DL

Tgt Ion: 43 Resp: 21967

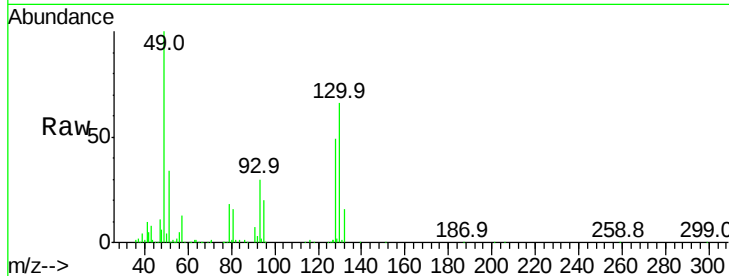
Ion Ratio Lower Upper

43 100

45 11.0 8.4 12.6

61 5.7 8.0 12.0#

70 5.5 6.3 9.5#

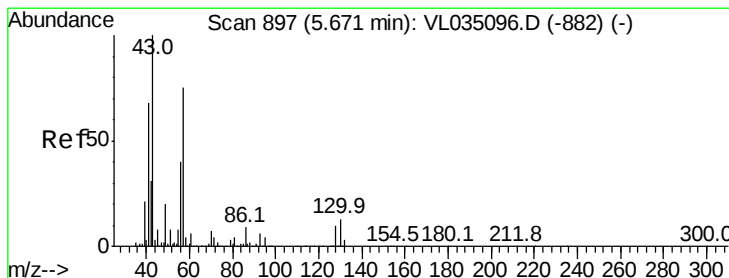
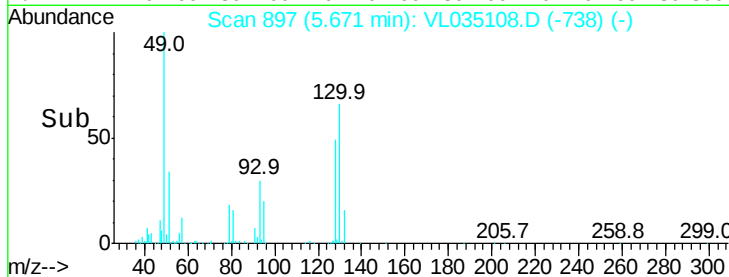
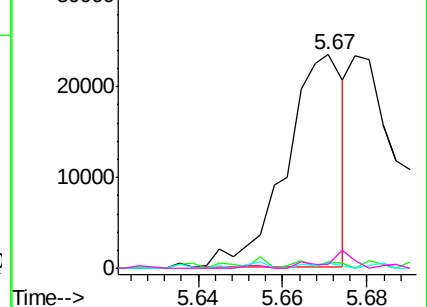


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.222 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.00 min

Lab File: VL035108.D

Acq: 22 Jun 2020 12:53

Tgt Ion: 57 Resp: 29927

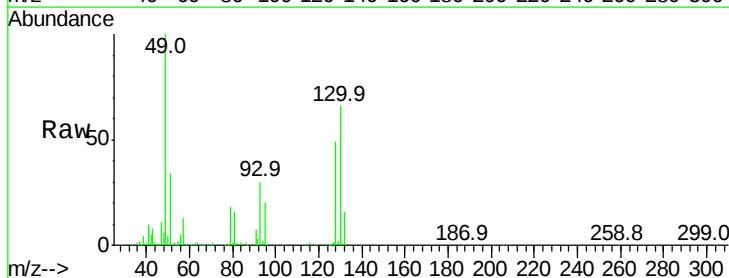
Ion Ratio Lower Upper

57 100

41 194.3 72.9 109.3#

43 142.8 181.3 271.9#

56 104.5 43.1 64.7#

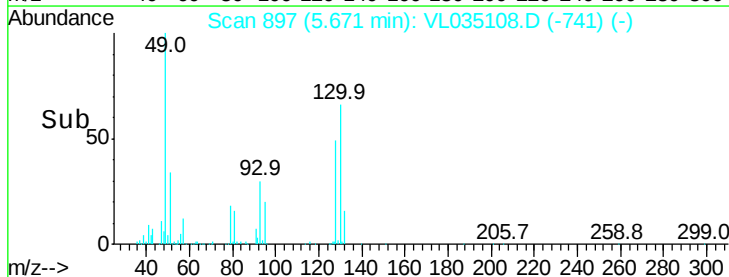
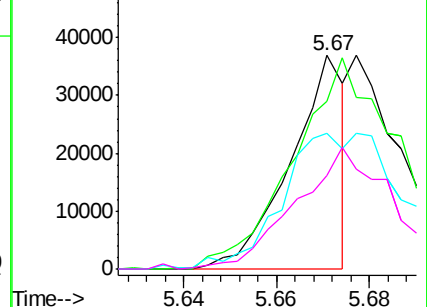


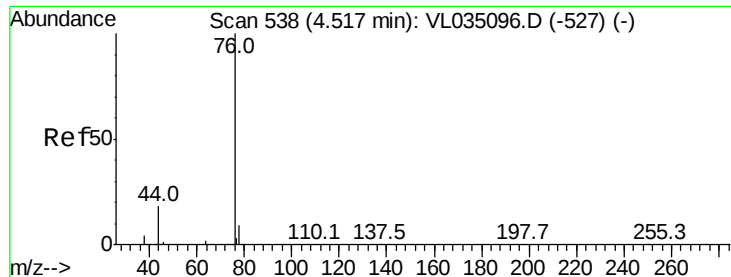
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#27

Carbon Disulfide

Concen: 26.200 ppbv

RT: 4.53 min Scan# 541

Delta R.T. 0.01 min

Lab File: VL035108.D

Acq: 22 Jun 2020 12:53

Instrument :

MSVOA_L

ClientSampleId :

CARBON-01DL

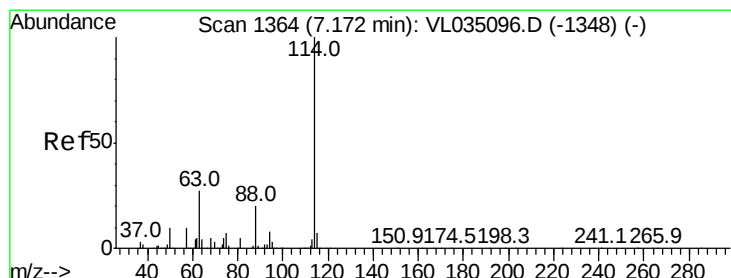
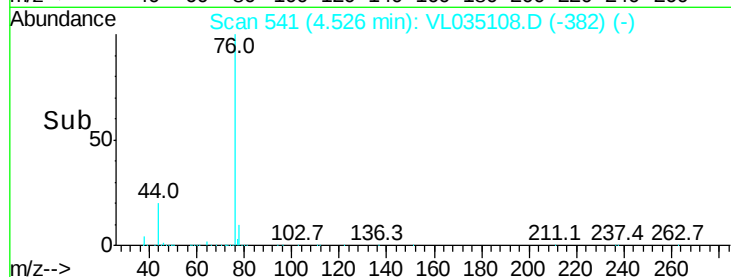
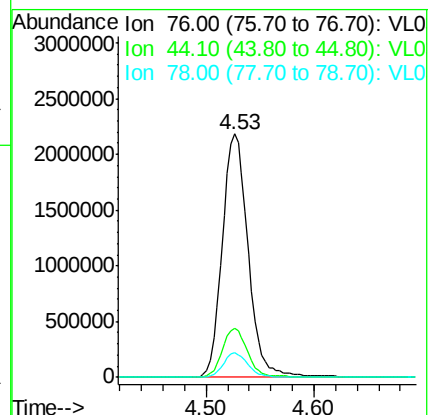
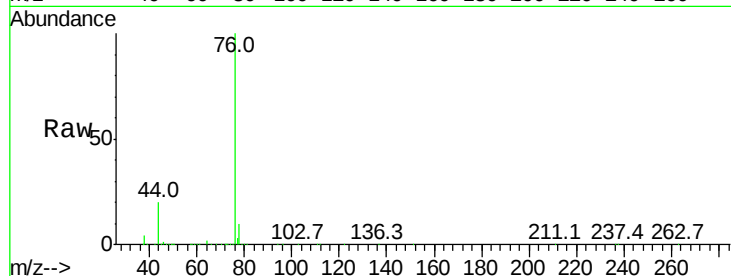
Tgt Ion: 76 Resp: 3647582

Ion	Ratio	Lower	Upper
76	100		
44	19.4	15.8	23.8
78	9.9	7.6	11.4

76 100

44 19.4 15.8 23.8

78 9.9 7.6 11.4



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. 0.00 min

Lab File: VL035108.D

Acq: 22 Jun 2020 12:53

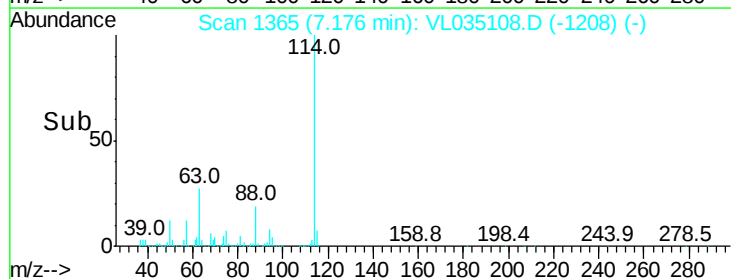
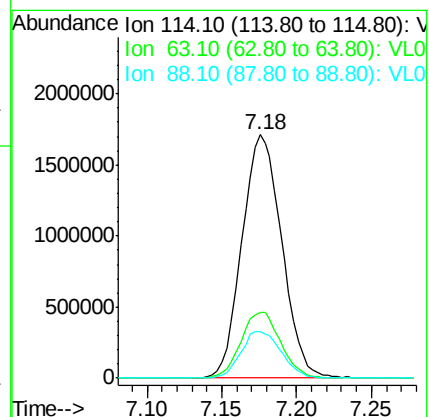
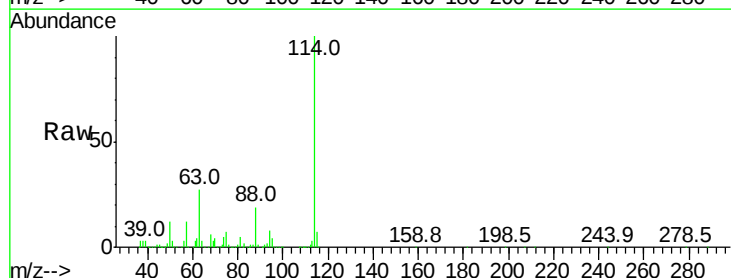
Tgt Ion: 114 Resp: 3160925

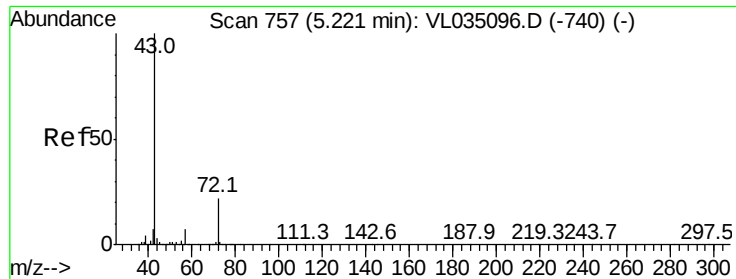
Ion	Ratio	Lower	Upper
114	100		
63	27.3	21.9	32.9
88	19.5	15.6	23.4

114 100

63 27.3 21.9 32.9

88 19.5 15.6 23.4

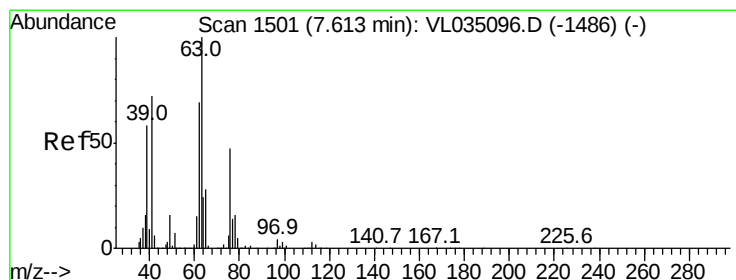
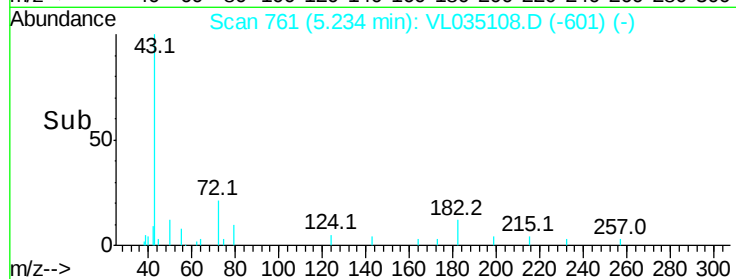
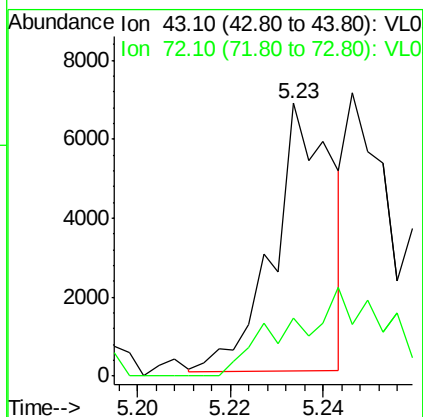
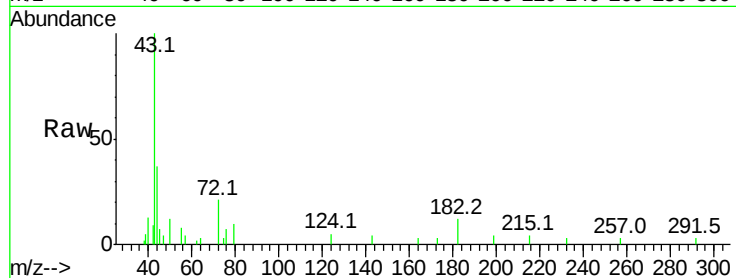




#34
 2-Butanone
 Concen: 0.033 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. 0.01 min
 Lab File: VL035108.D
 Acq: 22 Jun 2020 12:53

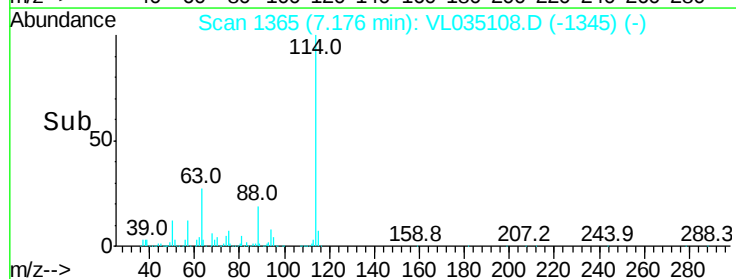
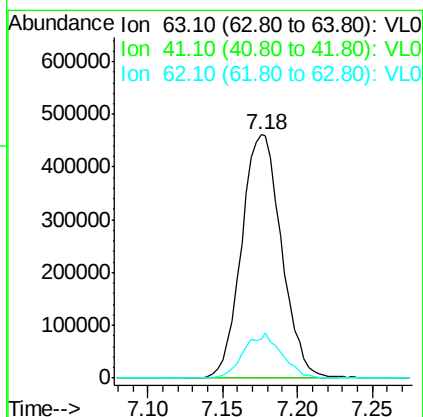
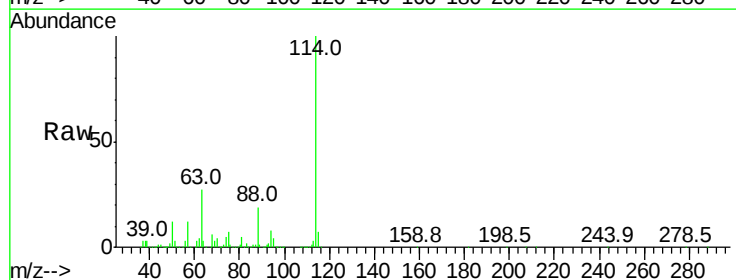
Instrument :
 MSVOA_L
 ClientSampleId :
 CARBON-01DL

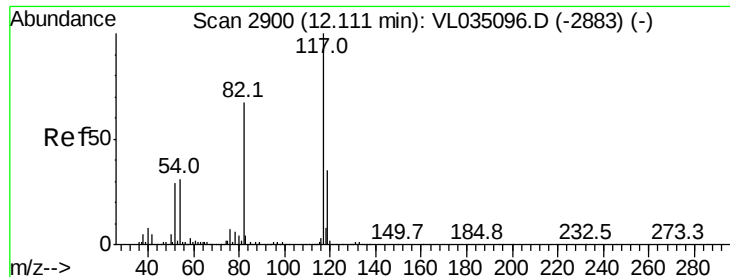
Tgt Ion: 43 Resp: 5977
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.3 27.5#



#39
 1,2-Dichloropropane
 Concen: 8.947 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.44 min
 Lab File: VL035108.D
 Acq: 22 Jun 2020 12:53

Tgt Ion: 63 Resp: 856498
 Ion Ratio Lower Upper
 63 100
 41 0.1 58.0 87.0#
 62 16.2 55.4 83.0#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. 0.00 min

Lab File: VL035108.D

Acq: 22 Jun 2020 12:53

Instrument :

MSVOA_L

ClientSampleId :

CARBON-01DL

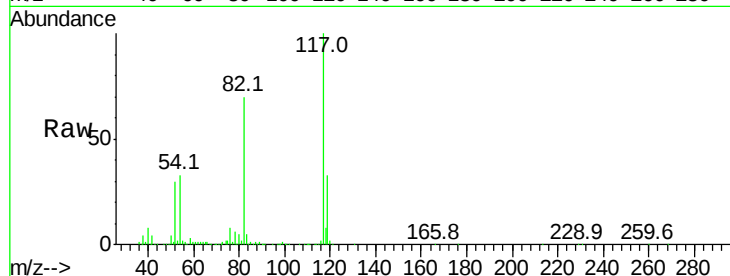
Tgt Ion:117 Resp: 3023113

Ion Ratio Lower Upper

117 100

82 70.0 50.4 75.6

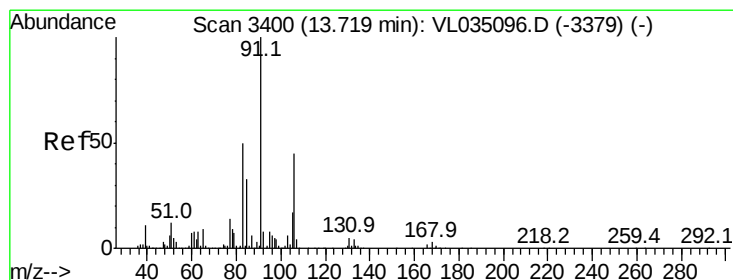
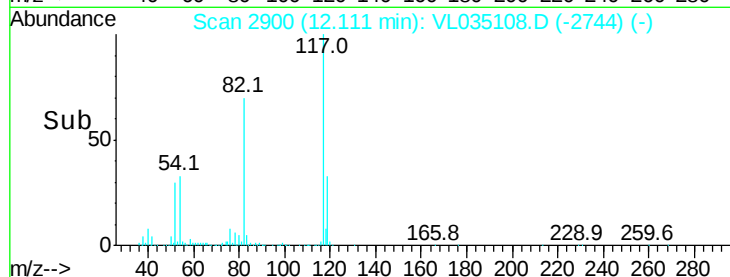
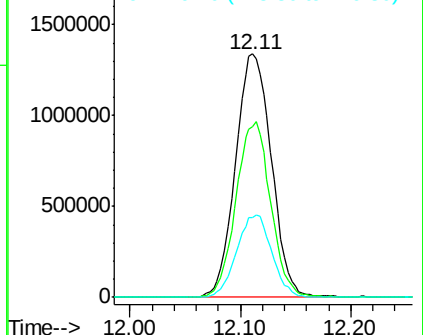
119 33.0 25.4 38.0



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



#60

o-Xylene

Concen: 0.077 ppbv

RT: 13.72 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VL035108.D

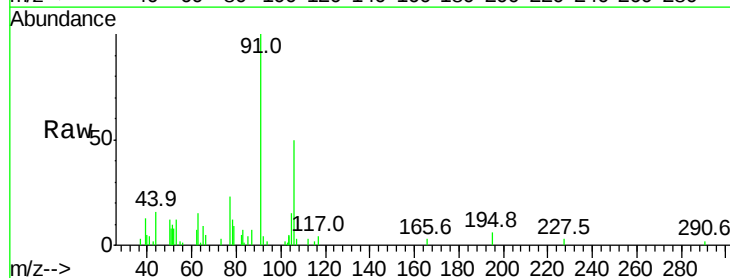
Acq: 22 Jun 2020 12:53

Tgt Ion: 91 Resp: 23038

Ion Ratio Lower Upper

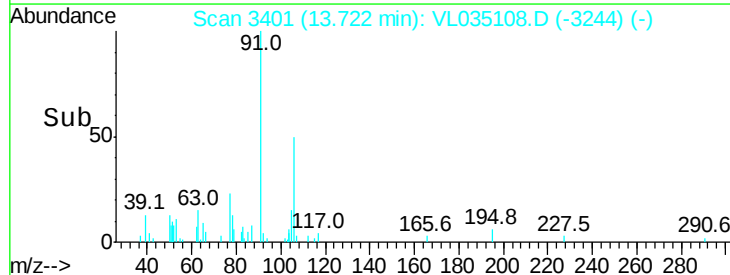
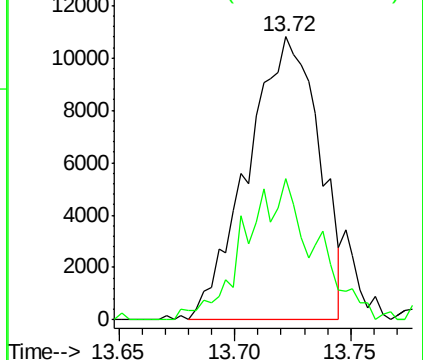
91 100

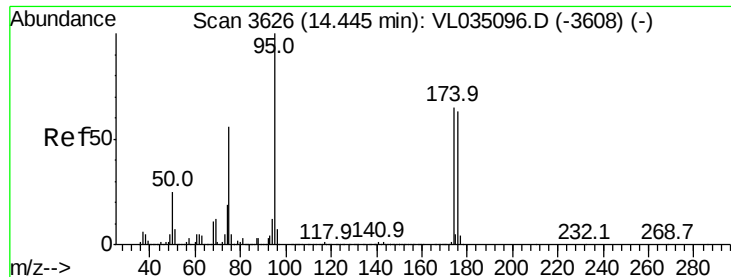
106 49.1 22.1 66.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.089 ppbv

RT: 14.45 min Scan# 3627

Delta R.T. 0.00 min

Lab File: VL035108.D

Acq: 22 Jun 2020 12:53

Instrument :

MSVOA_L

ClientSampleId :

CARBON-01DL

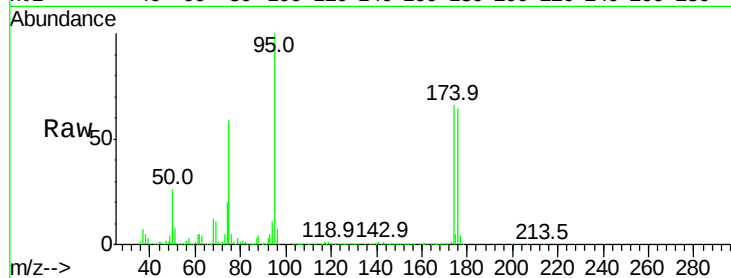
Tgt Ion: 95 Resp: 2533761

Ion Ratio Lower Upper

95 100

174 65.4 52.2 78.2

175 4.9 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

