

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080320\
 Data File : VL035329.D
 Acq On : 4 Aug 2020 1:28
 Operator : SY/AP
 Sample : L3540-01 60X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LAGCARB-IN-01

Quant Time: Aug 04 05:40:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 04 05:31:29 2020
 QLast Update : Tue Aug 04 05:31:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1124000	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2764825	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2640071	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2133308	9.65	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.50%

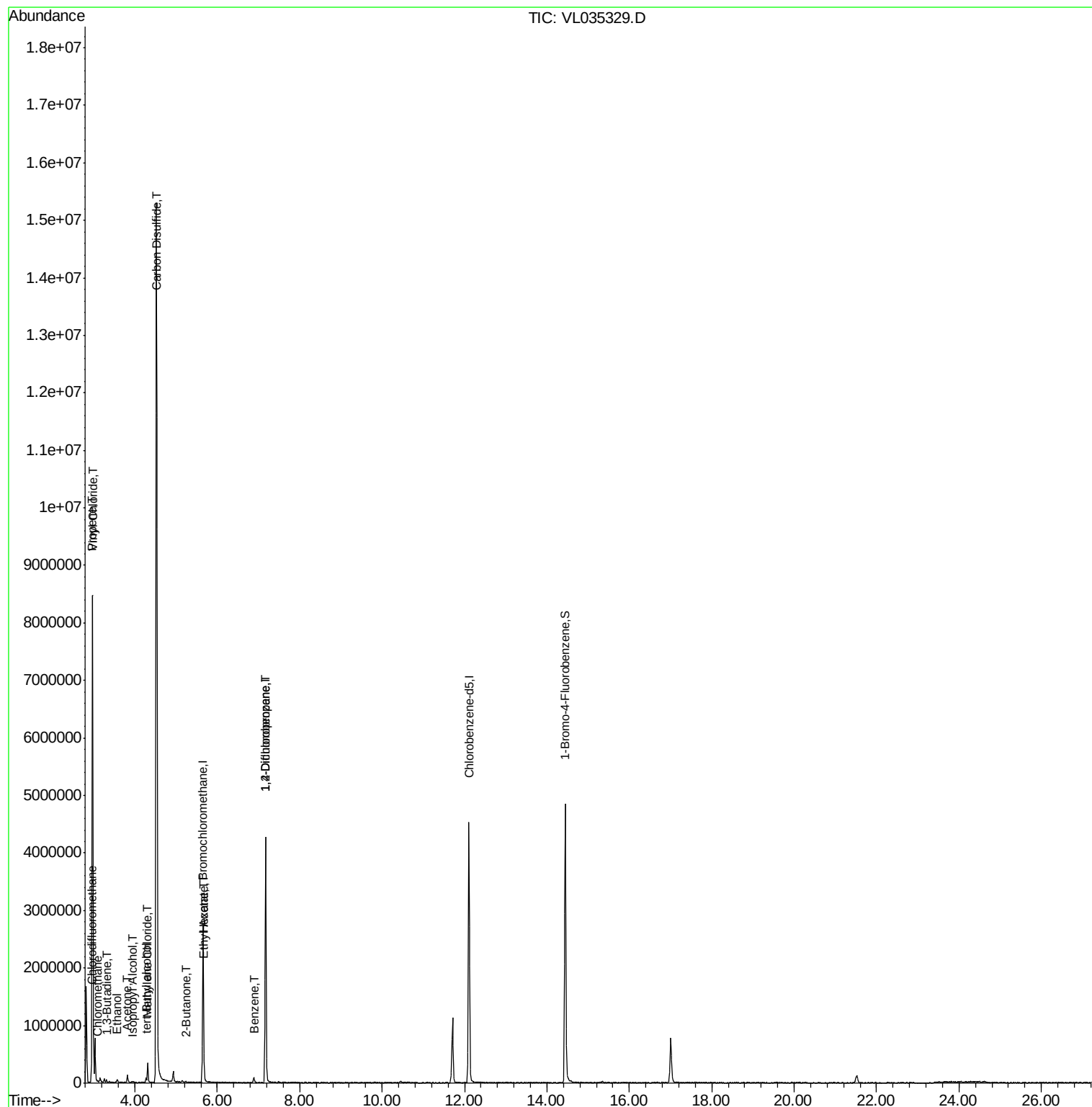
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.94	51	8312	0.064	ppbv 97
4) Chloromethane	3.09	50	2431	0.033	ppbv # 82
5) Vinyl Chloride	2.97	62	1311418	18.260	ppbv # 50
9) Propene	2.96	41	134247	2.876	ppbv 99
13) Ethanol	3.56	45	33134	1.922	ppbv # 62
15) Acetone	3.82	43	117901	0.725	ppbv 92
16) 1,3-Butadiene	3.31	39	7281	0.120	ppbv # 12
17) tert-Butyl alcohol	4.26	59	18940	0.128	ppbv # 71
19) Isopropyl Alcohol	3.94	45	11682	0.114	ppbv # 76
20) Methylene Chloride	4.31	84	103935	1.400	ppbv 97
25) Ethyl Acetate	5.67	43	34069	0.139	ppbv # 84
26) Hexane	5.67	57	44109	0.401	ppbv # 38
27) Carbon Disulfide	4.52	76	16715391	112.936	ppbv # 51
34) 2-Butanone	5.24	43	7815	0.054	ppbv # 89
36) Benzene	6.88	78	41645	0.205	ppbv 99
39) 1,2-Dichloropropane	7.17	63	755245	9.454	ppbv # 24

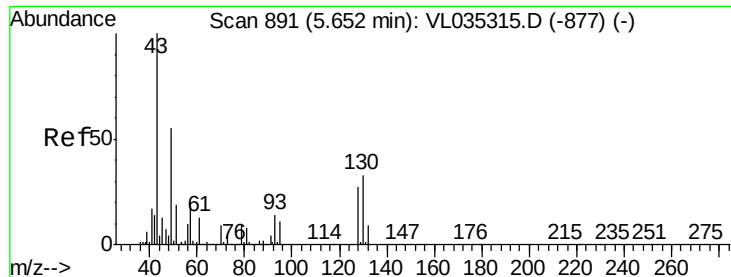
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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LAGCARB-IN-01

Quant Time: Aug 04 05:40:45 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL080320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 04 05:31:29 2020
QLast Update : Tue Aug 04 05:31:29 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.00 min

Lab File: VL035329.D

Acq: 4 Aug 2020 1:28

Instrument :

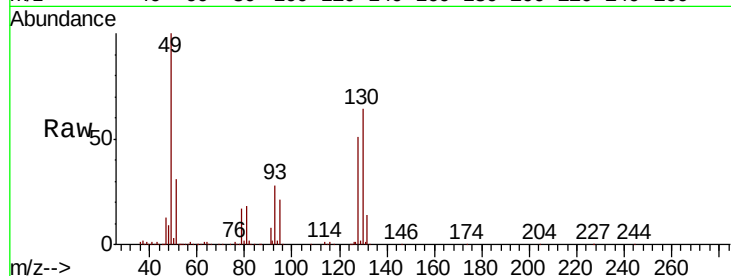
MSVOA_L

ClientSampleId :

LAGCARB-IN-01

Tot Ion: 49 Resp: 1124000

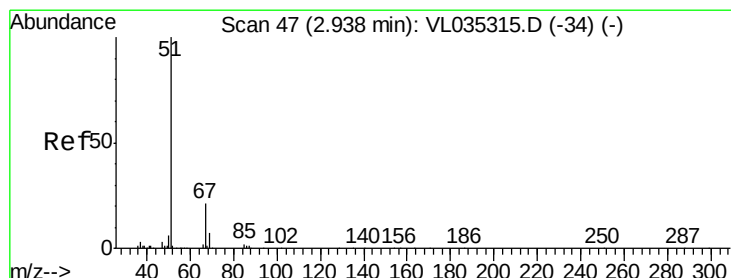
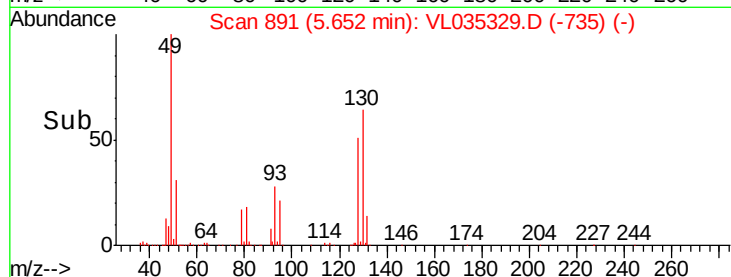
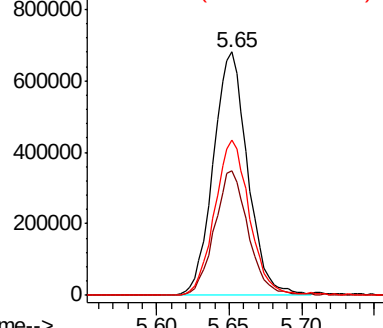
Ion	Ratio	Lower	Upper
49	100		
128	50.3	23.8	71.5
130	65.1	31.4	94.3



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: 0.064 ppbv

RT: 2.94 min Scan# 47

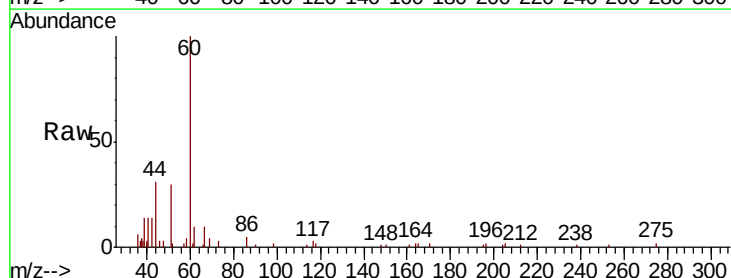
Delta R.T. 0.00 min

Lab File: VL035329.D

Acq: 4 Aug 2020 1:28

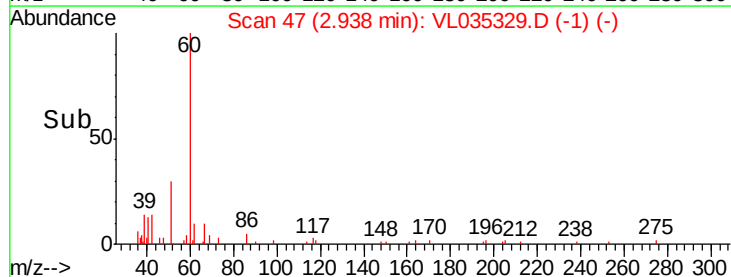
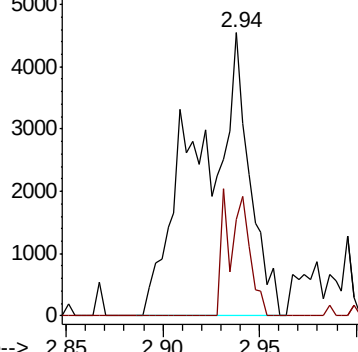
Tgt Ion: 51 Resp: 8312

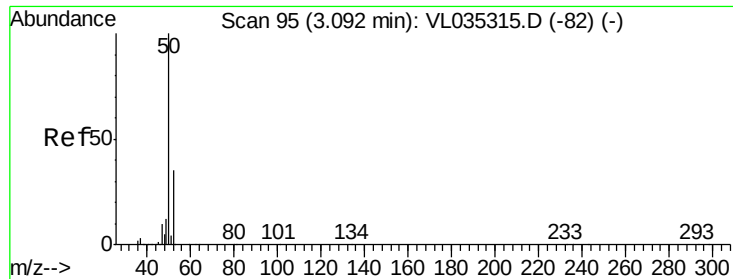
Ion	Ratio	Lower	Upper
51	100		
67	18.9	16.2	24.2



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.033 ppbv

RT: 3.09 min Scan# 95

Delta R.T. 0.00 min

Lab File: VL035329.D

Acq: 4 Aug 2020 1:28

Instrument :

MSVOA_L

ClientSampleId :

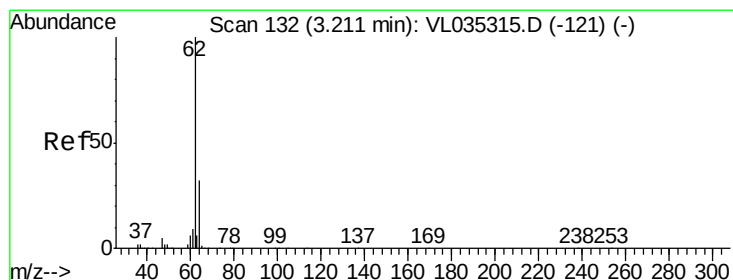
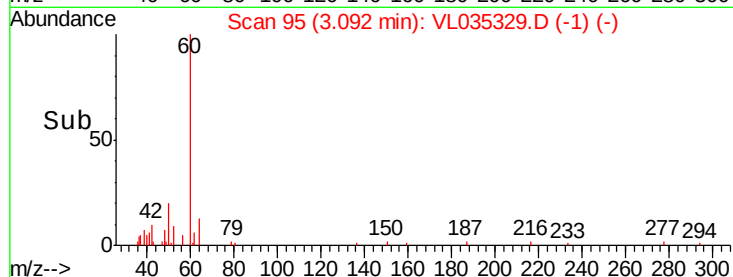
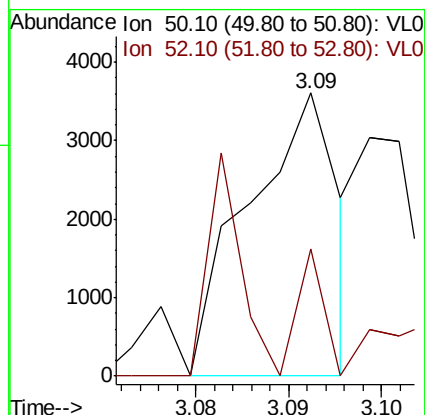
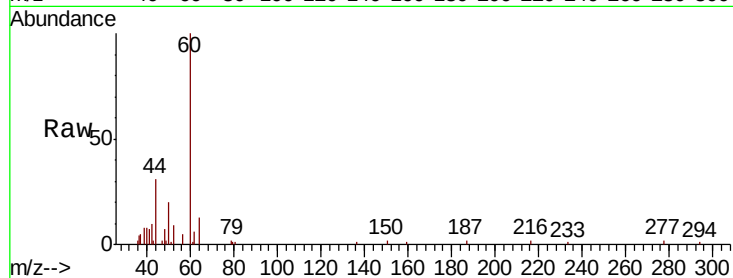
LAGCARB-IN-01

Tot Ion: 50 Resp: 2431

Ion Ratio Lower Upper

50 100

52 45.0 27.8 41.8#



#5

Vinyl Chloride

Concen: 18.260 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.24 min

Lab File: VL035329.D

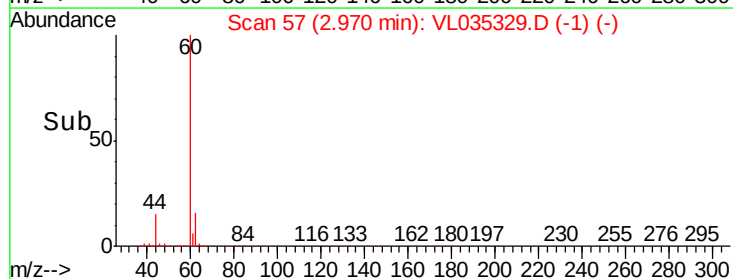
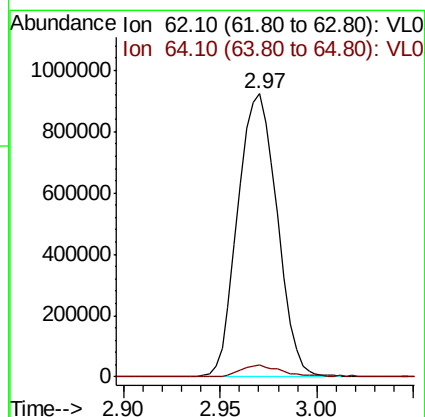
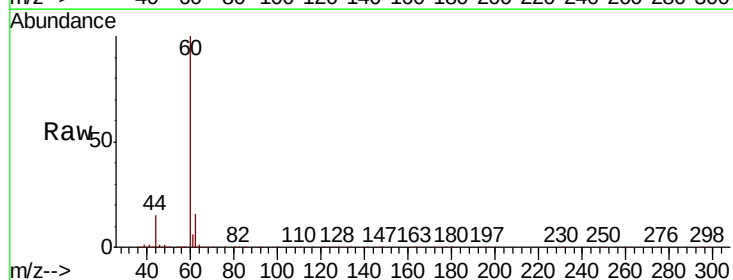
Acq: 4 Aug 2020 1:28

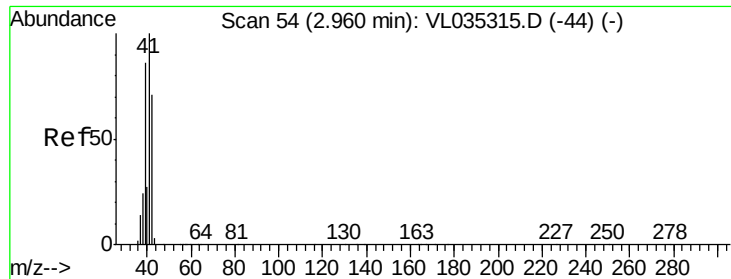
Tgt Ion: 62 Resp: 1311418

Ion Ratio Lower Upper

62 100

64 4.5 25.9 38.9#





#9

Propene

Concen: 2.876 ppbv

RT: 2.96 min Scan# 53

Delta R.T. -0.00 min

Lab File: VL035329.D

Acq: 4 Aug 2020 1:28

Instrument :

MSVOA_L

ClientSampleId :

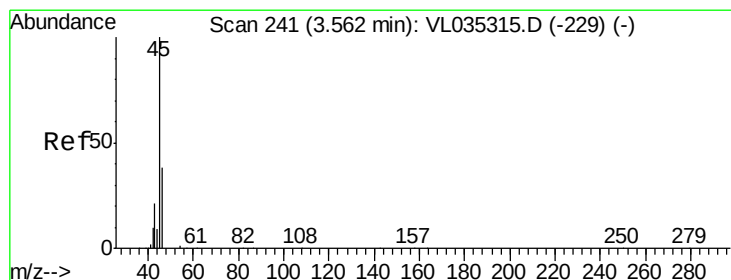
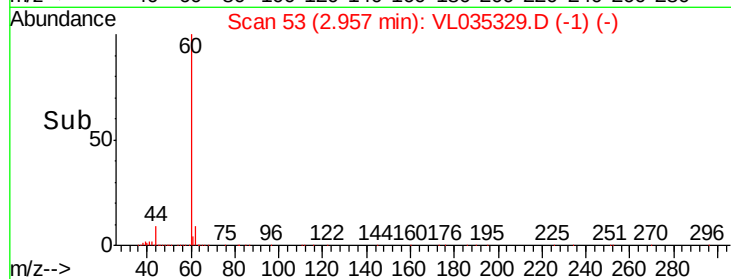
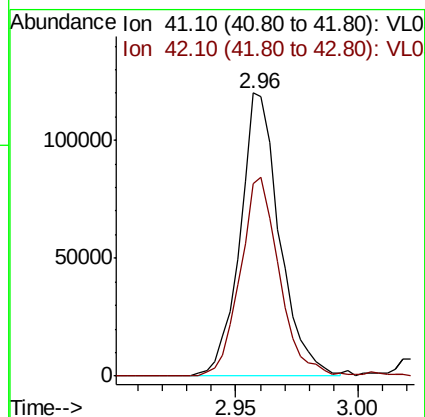
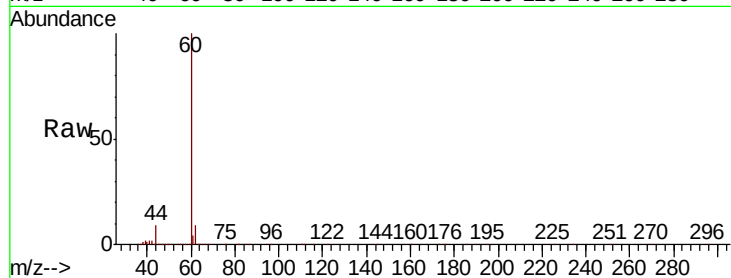
LAGCARB-IN-01

Tot Ion: 41 Resp: 134247

Ion Ratio Lower Upper

41 100

42 70.2 56.8 85.2



#13

Ethanol

Concen: 1.922 ppbv

RT: 3.56 min Scan# 241

Delta R.T. 0.00 min

Lab File: VL035329.D

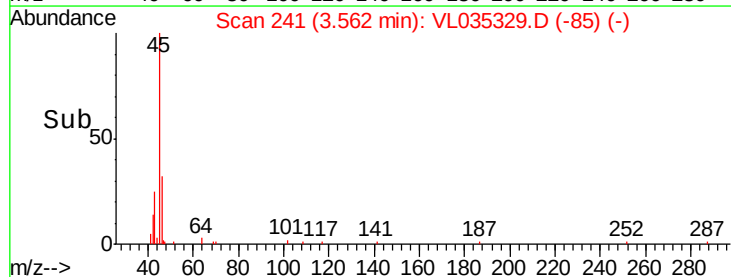
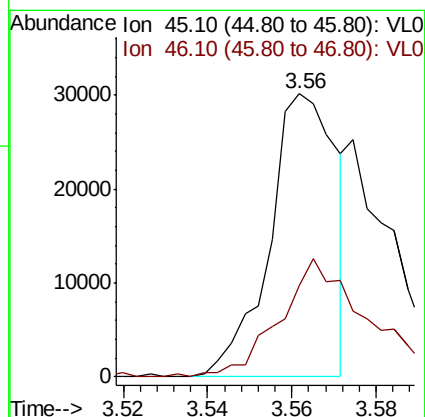
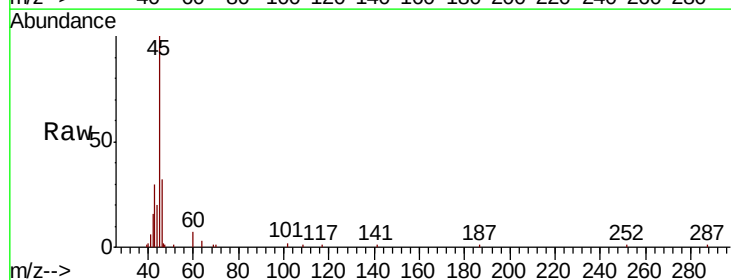
Acq: 4 Aug 2020 1:28

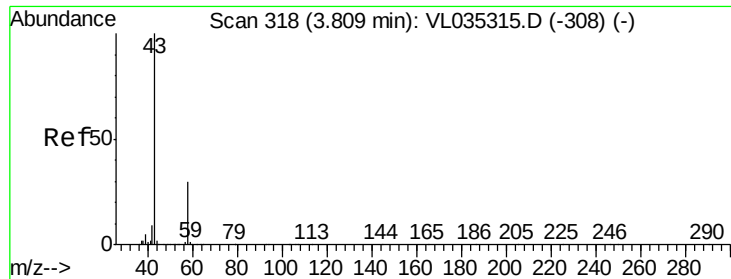
Tgt Ion: 45 Resp: 33134

Ion Ratio Lower Upper

45 100

46 58.9 14.5 57.9#





#15

Acetone

Concen: 0.725 ppbv

RT: 3.82 min Scan# 321

Delta R.T. 0.01 min

Lab File: VL035329.D

Acq: 4 Aug 2020 1:28

Instrument :

MSVOA_L

ClientSampleId :

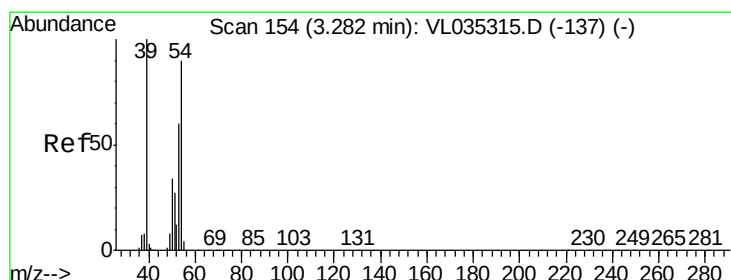
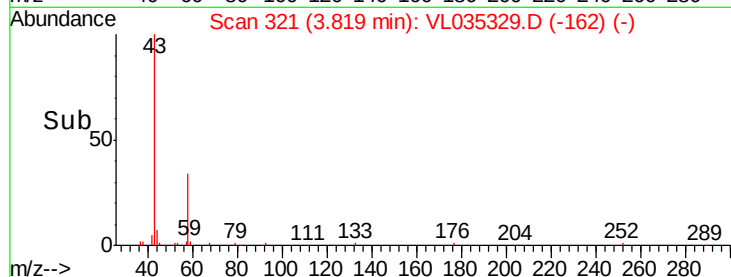
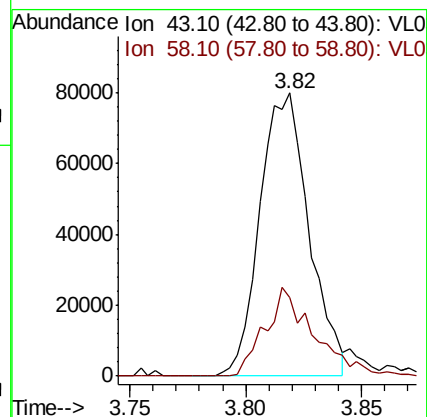
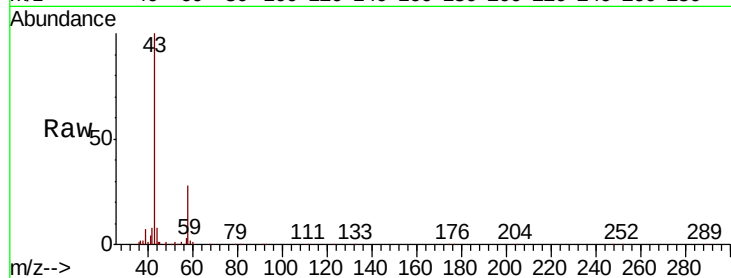
LAGCARB-IN-01

Tot Ion: 43 Resp: 117901

Ion Ratio Lower Upper

43 100

58 31.5 22.1 33.1



#16

1,3-Butadiene

Concen: 0.120 ppbv

RT: 3.31 min Scan# 162

Delta R.T. 0.03 min

Lab File: VL035329.D

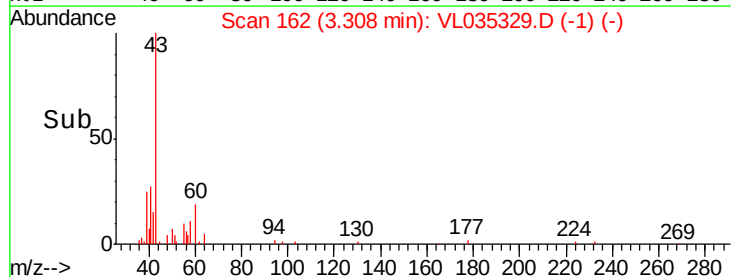
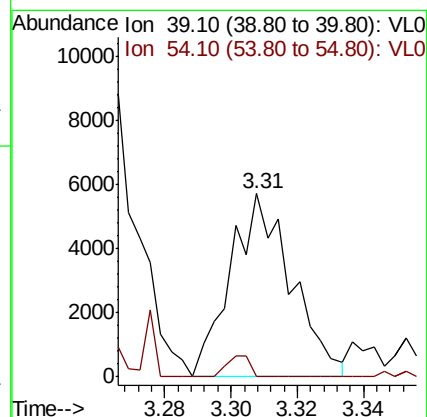
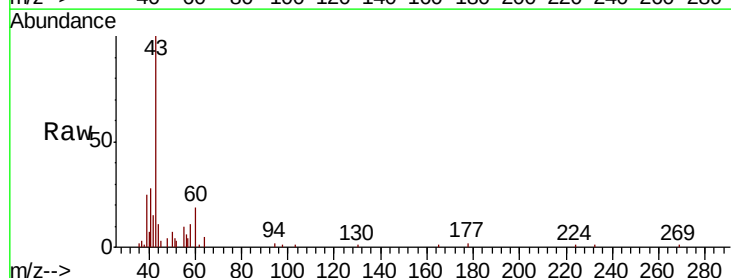
Acq: 4 Aug 2020 1:28

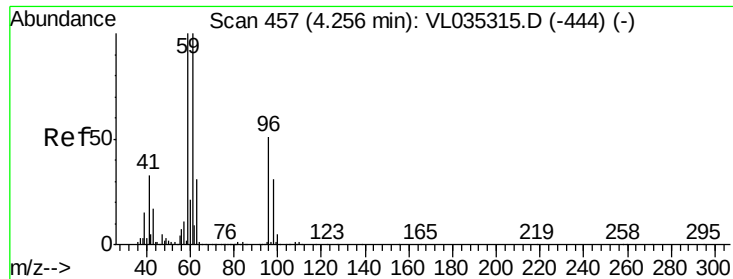
Tgt Ion: 39 Resp: 7281

Ion Ratio Lower Upper

39 100

54 4.4 68.0 102.0#





#17

tert-Butyl alcohol

Concen: 0.128 ppbv

RT: 4.26 min Scan# 459

Delta R.T. 0.01 min

Lab File: VL035329.D

Acq: 4 Aug 2020 1:28

Instrument :

MSVOA_L

ClientSampleId :

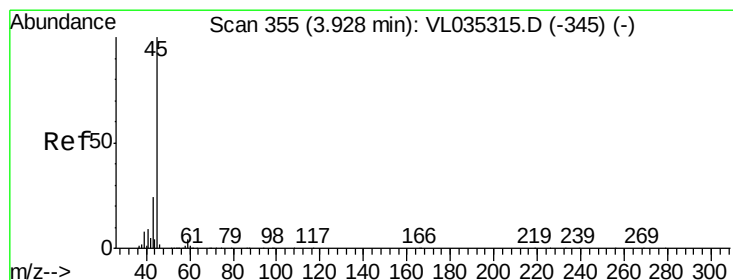
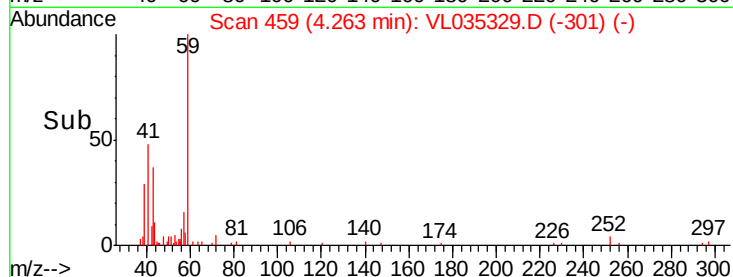
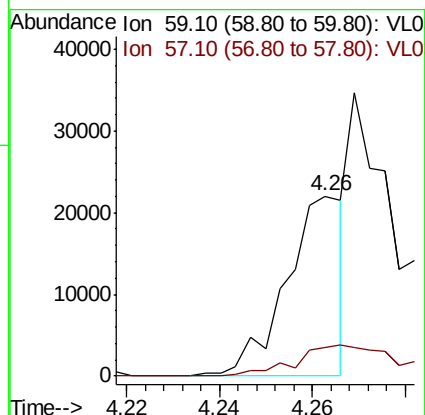
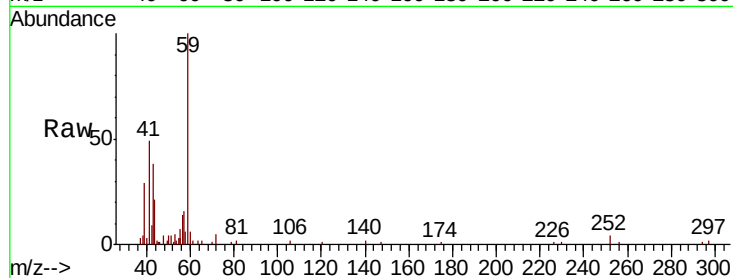
LAGCARB-IN-01

Tot Ion: 59 Resp: 18940

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



#19

Isopropyl Alcohol

Concen: 0.114 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.02 min

Lab File: VL035329.D

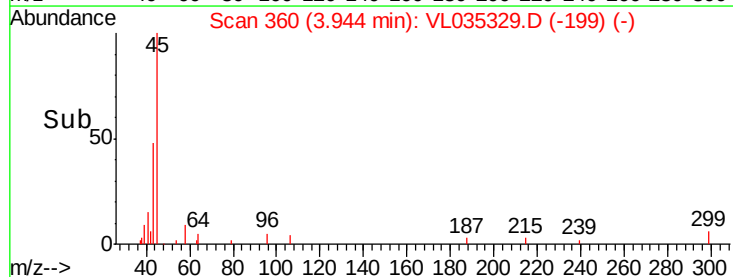
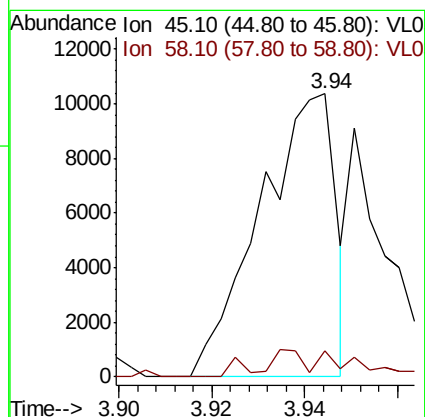
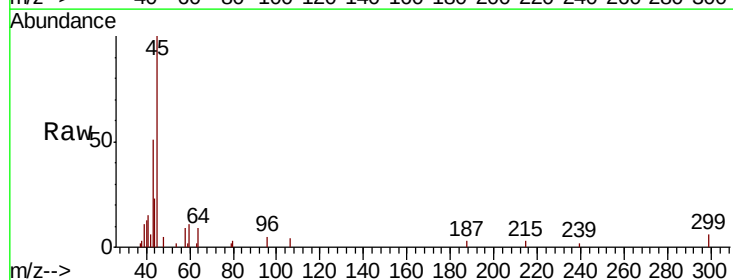
Acq: 4 Aug 2020 1:28

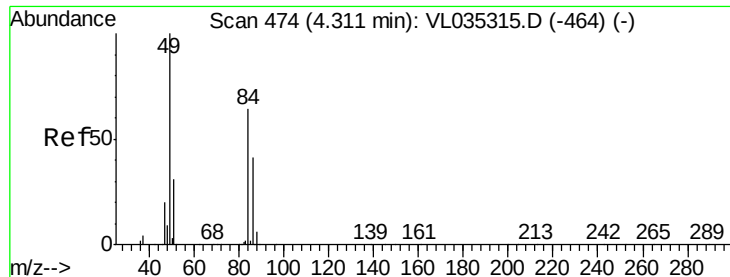
Tgt Ion: 45 Resp: 11682

Ion Ratio Lower Upper

45 100

58 10.3 1.5 2.3#

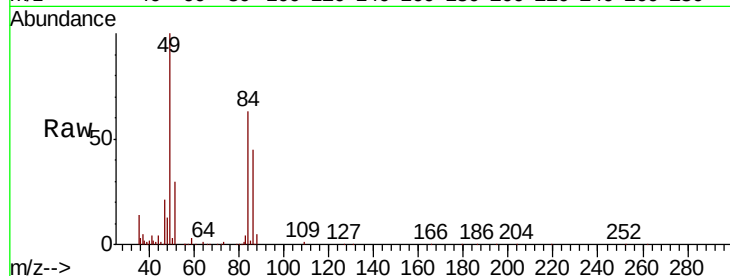




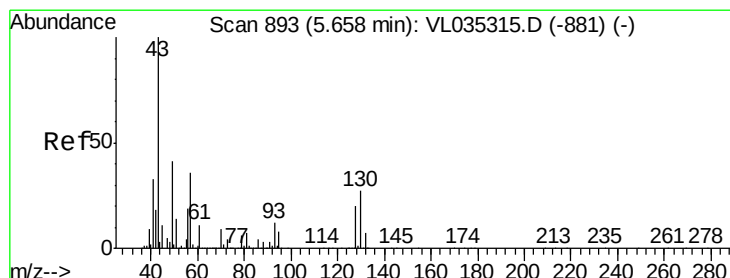
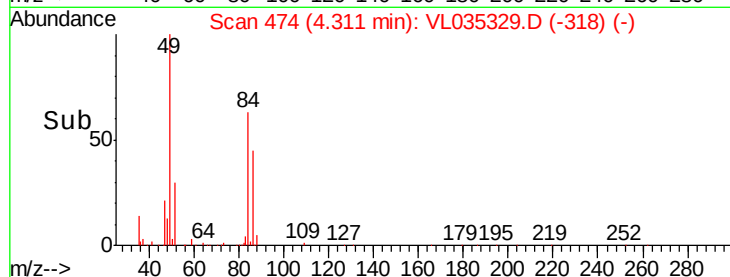
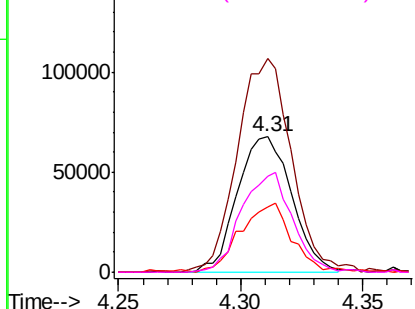
#20
Methylene Chloride
Concen: 1.400 ppbv
RT: 4.31 min Scan# 474
Delta R.T. 0.00 min
Lab File: VL035329.D
Acq: 4 Aug 2020 1:28

Instrument :
MSVOA_L
ClientSampleId :
LAGCARB-IN-01

Tot Ion:	84	Resp:	103935
Ion	Ratio	Lower	Upper
84	100		
49	155.4	124.2	186.2
51	47.0	38.6	58.0
86	71.3	51.0	76.4

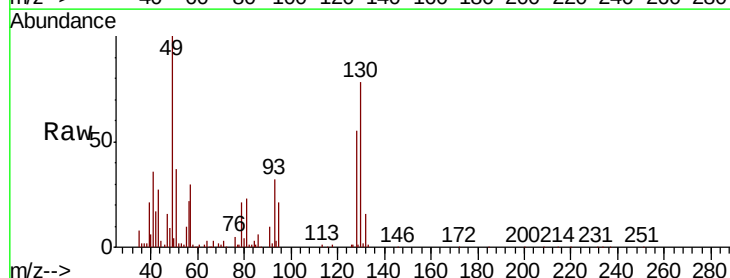


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

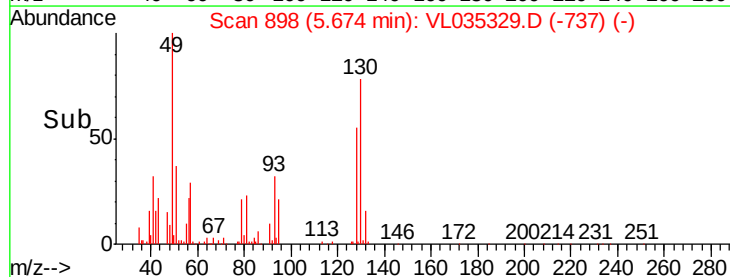
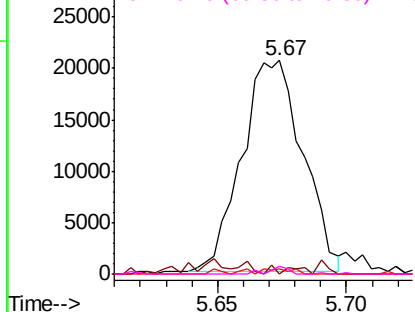


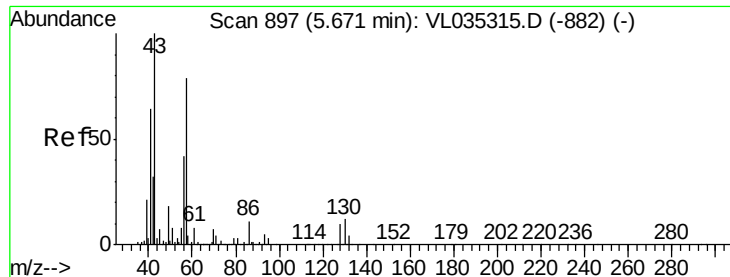
#25
Ethyl Acetate
Concen: 0.139 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.02 min
Lab File: VL035329.D
Acq: 4 Aug 2020 1:28

Tgt Ion:	43	Resp:	34069
Ion	Ratio	Lower	Upper
43	100		
45	7.8	8.6	12.8#
61	2.0	8.1	12.1#
70	1.3	6.5	9.7#



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: 0.401 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.00 min

Lab File: VL035329.D

Acq: 4 Aug 2020 1:28

Instrument :

MSVOA_L

ClientSampleId :

LAGCARB-IN-01

Tot Ion: 57 Resp: 44109

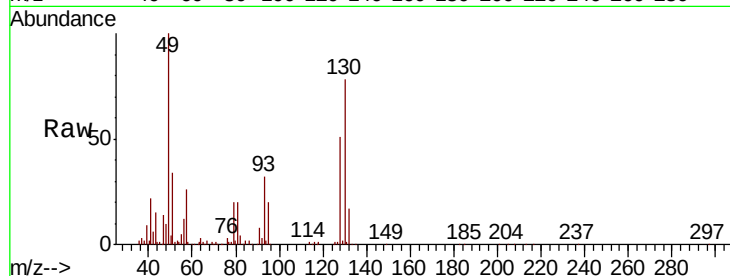
Ion Ratio Lower Upper

57 100

41 116.9 72.1 108.1#

43 83.5 179.0 268.6#

56 64.5 42.7 64.1#

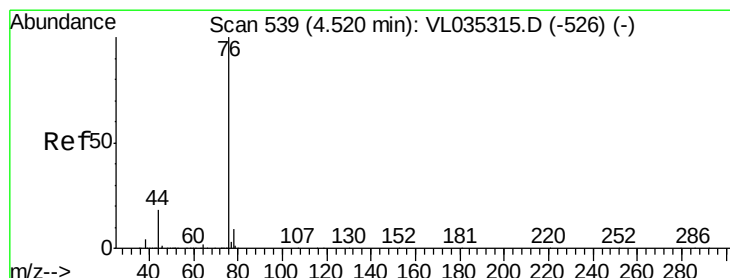
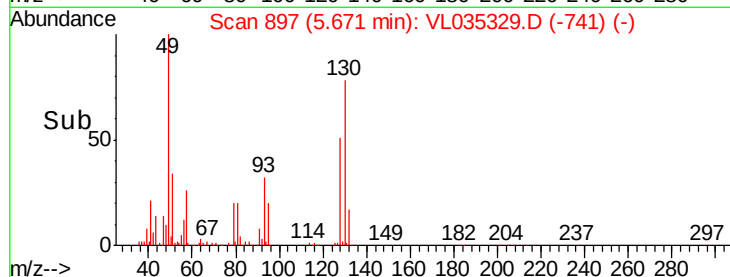
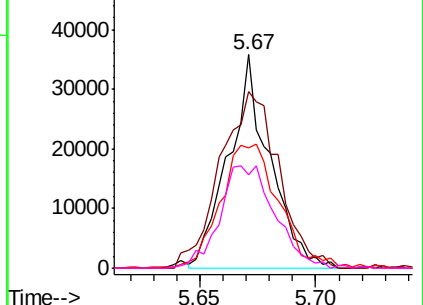


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 112.936 ppbv

RT: 4.52 min Scan# 539

Delta R.T. 0.00 min

Lab File: VL035329.D

Acq: 4 Aug 2020 1:28

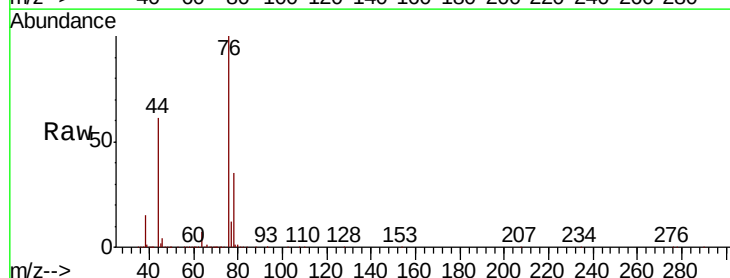
Tgt Ion: 76 Resp:16715391

Ion Ratio Lower Upper

76 100

44 43.0 14.8 22.2#

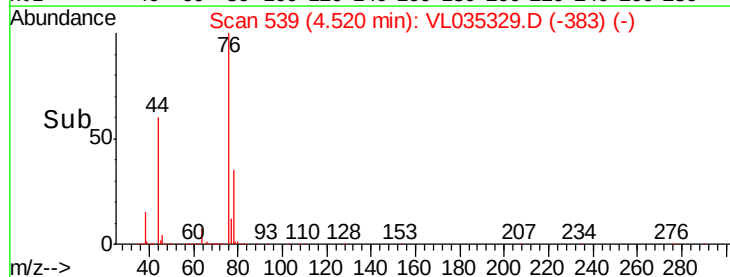
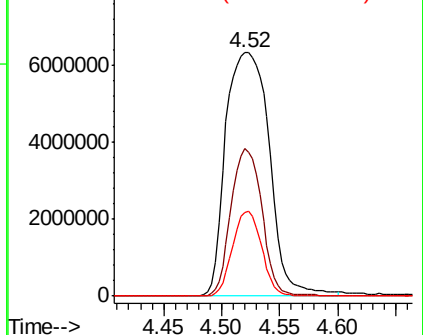
78 23.4 7.8 11.8#

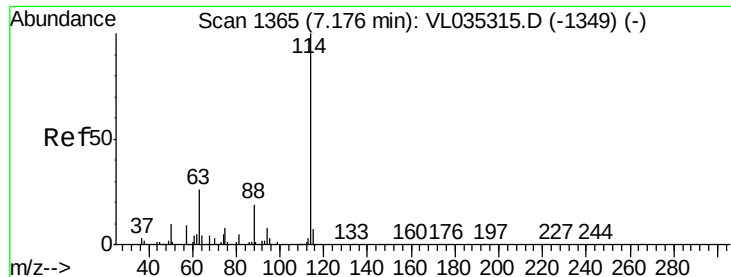


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

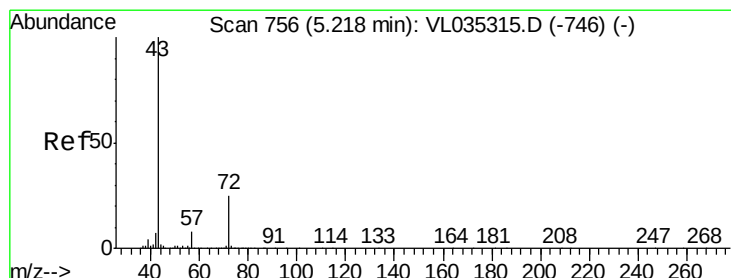
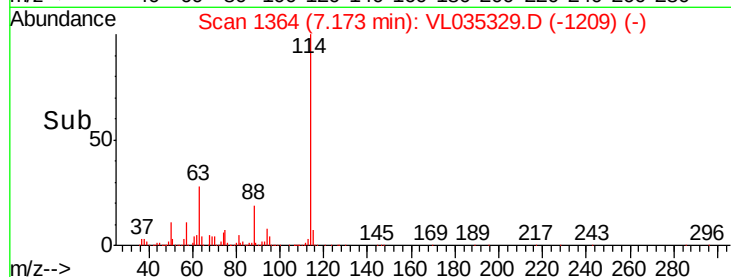
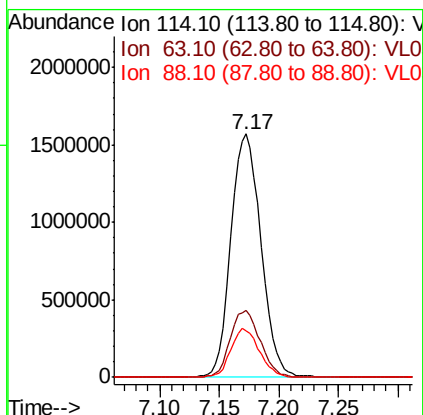
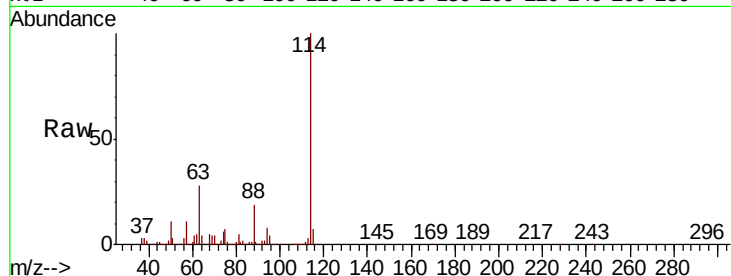




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.00 min
 Lab File: VL035329.D
 Acq: 4 Aug 2020 1:28

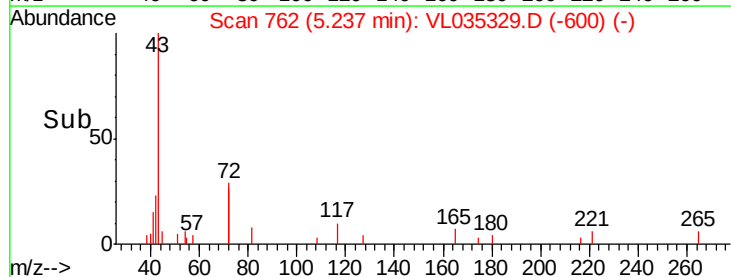
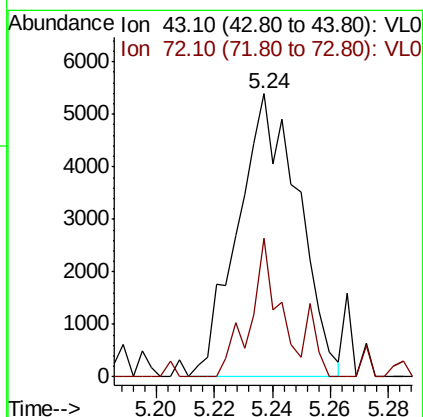
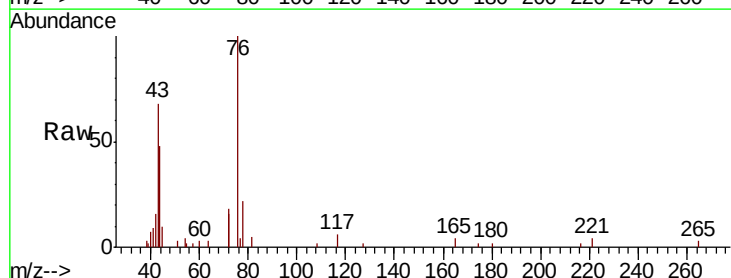
Instrument :
 MSVOA_L
 ClientSampleId :
 LAGCARB-IN-01

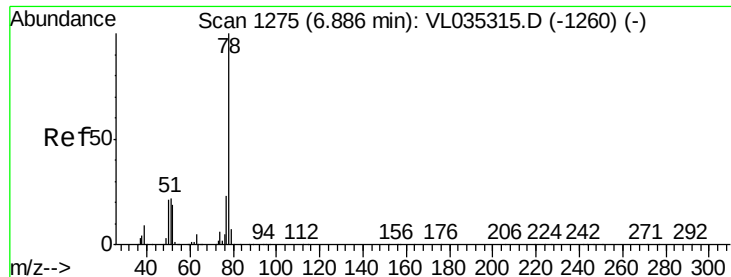
Tot Ion:114 Resp: 2764825
 Ion Ratio Lower Upper
 114 100
 63 27.3 21.5 32.3
 88 19.0 15.3 22.9



#34
 2-Butanone
 Concen: 0.054 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. 0.02 min
 Lab File: VL035329.D
 Acq: 4 Aug 2020 1:28

Tgt Ion: 43 Resp: 7815
 Ion Ratio Lower Upper
 43 100
 72 29.4 19.2 28.8#





#36

Benzene

Concen: 0.205 ppbv

RT: 6.88 min Scan# 1274

Delta R.T. -0.00 min

Lab File: VL035329.D

Acq: 4 Aug 2020 1:28

Instrument :

MSVOA_L

ClientSampleId :

LAGCARB-IN-01

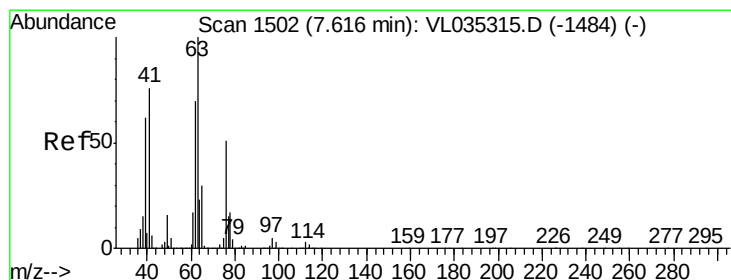
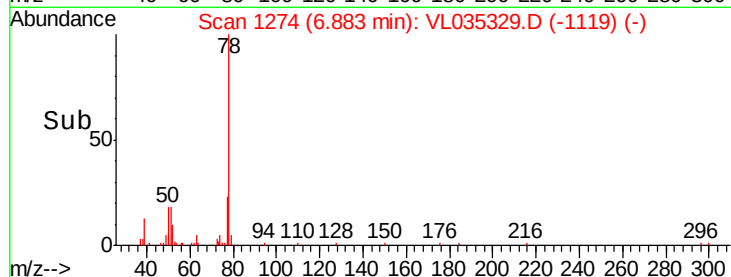
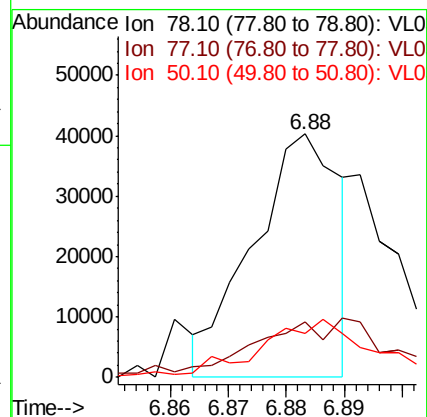
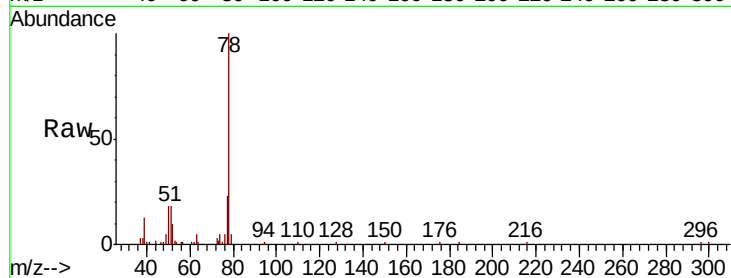
Tot Ion: 78 Resp: 41645

Ion Ratio Lower Upper

78 100

77 22.2 18.4 27.6

50 20.3 16.6 25.0



#39

1,2-Dichloropropane

Concen: 9.454 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.44 min

Lab File: VL035329.D

Acq: 4 Aug 2020 1:28

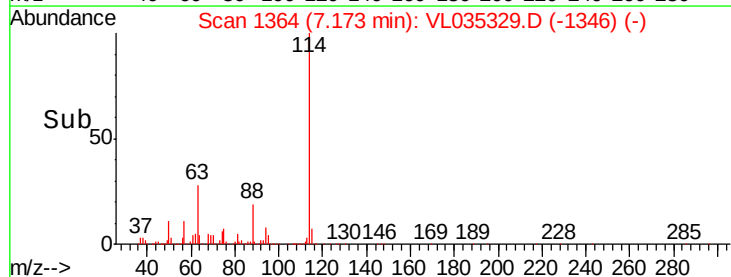
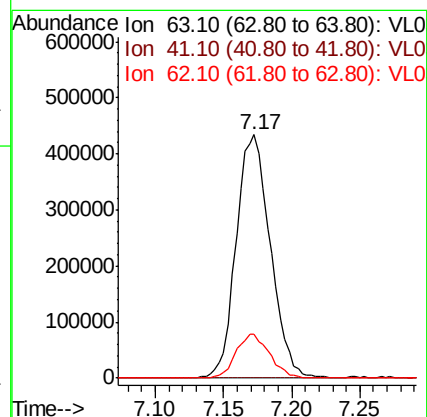
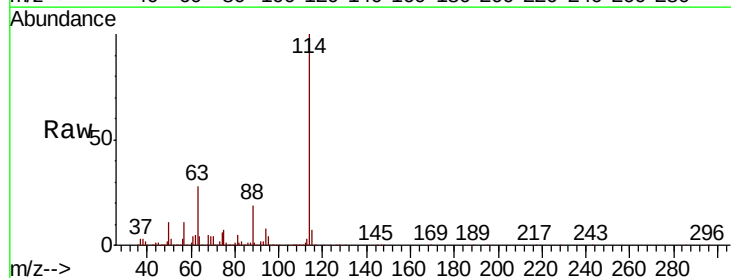
Tgt Ion: 63 Resp: 755245

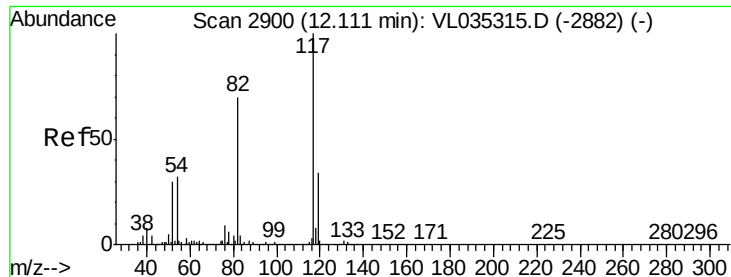
Ion Ratio Lower Upper

63 100

41 0.0 61.0 91.4#

62 18.1 55.8 83.8#

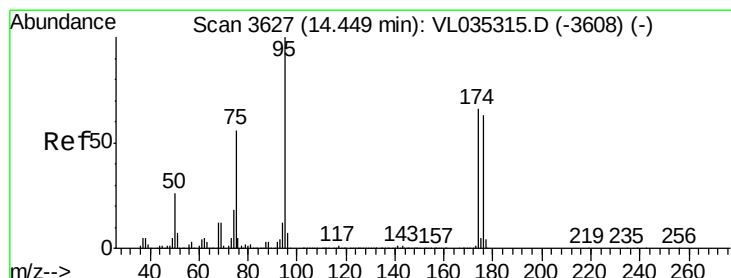
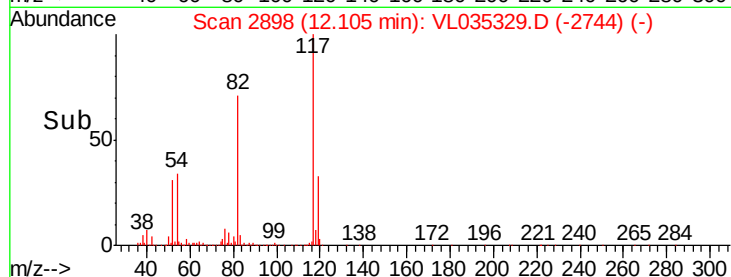
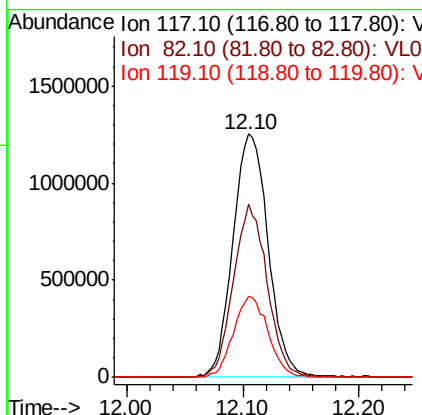
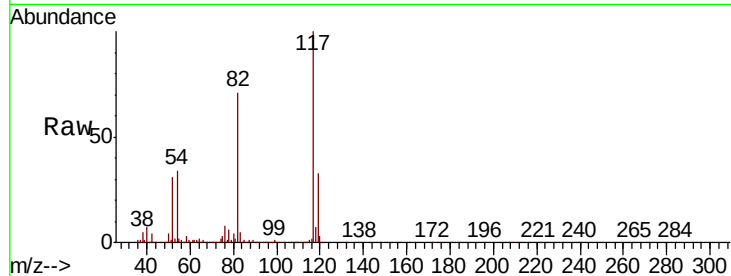




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. -0.01 min
Lab File: VL035329.D
Acq: 4 Aug 2020 1:28

Instrument :
MSVOA_L
ClientSampleId :
LAGCARB-IN-01

Tot Ion:117 Resp: 2640071
Ion Ratio Lower Upper
117 100
82 68.5 50.6 76.0
119 33.0 24.1 36.1



#68
1-Bromo-4-Fluorobenzene
Concen: 9.647 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. -0.01 min
Lab File: VL035329.D
Acq: 4 Aug 2020 1:28

Tgt Ion: 95 Resp: 2133308
Ion Ratio Lower Upper
95 100
174 66.4 52.5 78.7
175 5.1 3.9 5.9

