

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032921\
 Data File : VL036555.D
 Acq On : 30 Mar 2021 1:43
 Operator : SY/AP
 Sample : M1759-05DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 30 06:45:02 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	5.65	49	1475550	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	3301025	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3006632	10.00	ppbv	-0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.39	95	2250653	9.39	ppbv	-0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.90%	

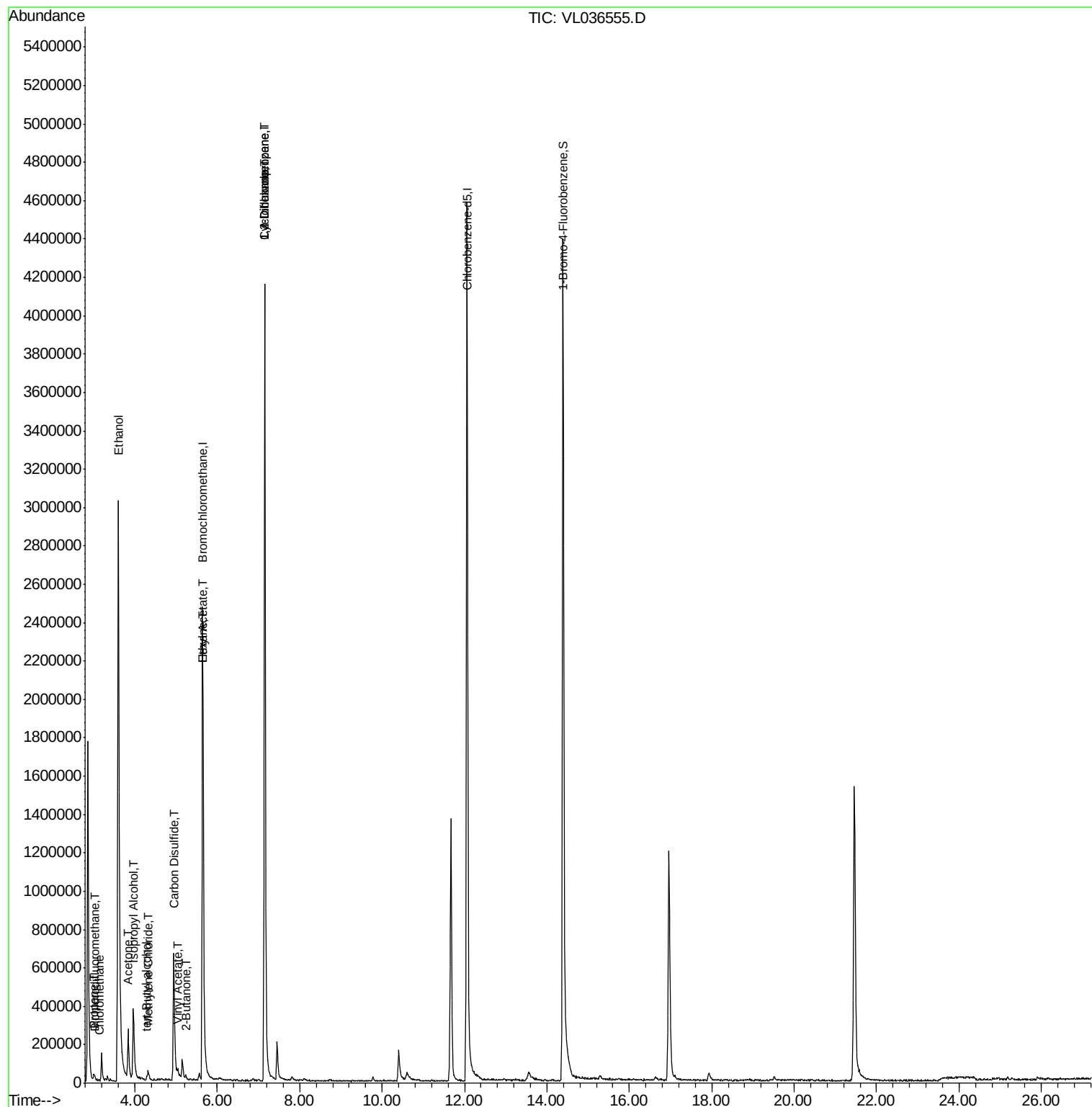
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	7277	0.030	ppbv #	85
4) Chloromethane	3.13	50	4559	0.047	ppbv #	87
9) Propene	3.00	41	9556	0.109	ppbv	97
13) Ethanol	3.59	45	4594343	438.979	ppbv	95
15) Acetone	3.83	43	302693	2.084	ppbv #	86
17) tert-Butyl alcohol	4.29	59	7051	0.056	ppbv #	1
19) Isopropyl Alcohol	3.96	45	493638	6.179	ppbv	99
20) Methylene Chloride	4.32	84	6920	0.102	ppbv #	91
23) Vinyl Acetate	5.04	43	17845	0.072	ppbv #	83
25) Ethyl Acetate	5.66	43	25875	0.075	ppbv #	38
26) Hexane	5.66	57	10822	0.068	ppbv #	1
27) Carbon Disulfide	4.95	76	69125	0.438	ppbv #	77
30) Cyclohexane	7.14	84	9440	0.073	ppbv #	1
34) 2-Butanone	5.23	43	14926	0.093	ppbv #	82
39) 1,2-Dichloropropane	7.15	63	890232	7.209	ppbv #	23

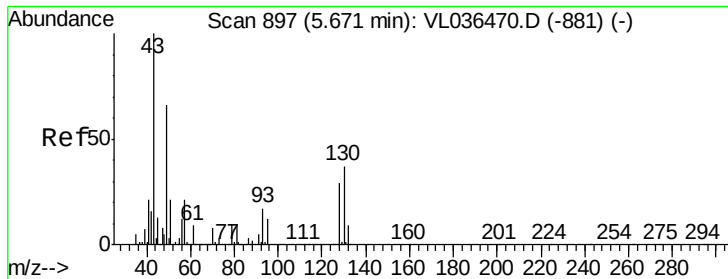
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.03 min

Lab File: VL036555.D

Acq: 30 Mar 2021 1:43

Instrument :
MSVOA_L
ClientSampleId :

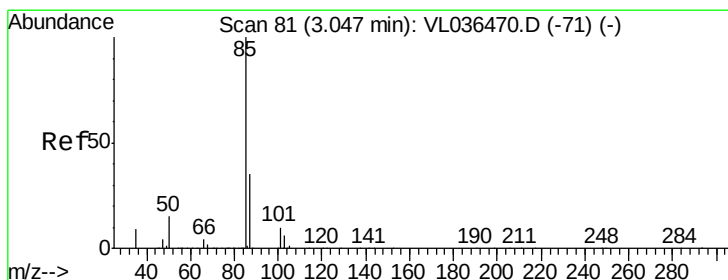
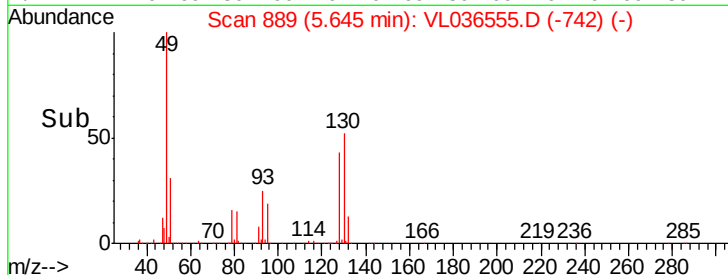
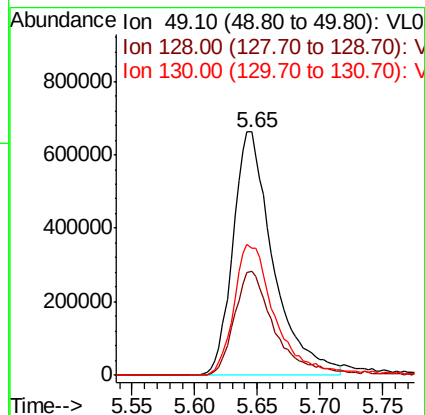
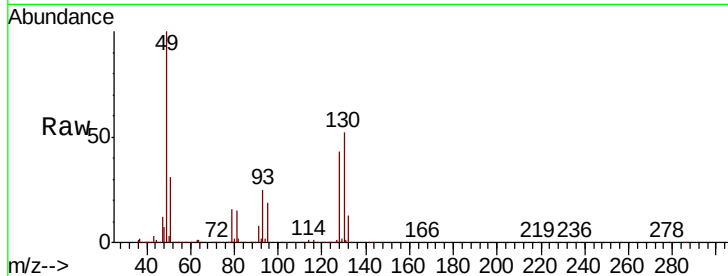
Tot Ion: 49 Resp: 1475550

Ion Ratio Lower Upper

49 100

128 43.6 23.5 70.6

130 56.7 29.1 87.4



#2

Dichlorodifluoromethane

Concen: 0.030 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.01 min

Lab File: VL036555.D

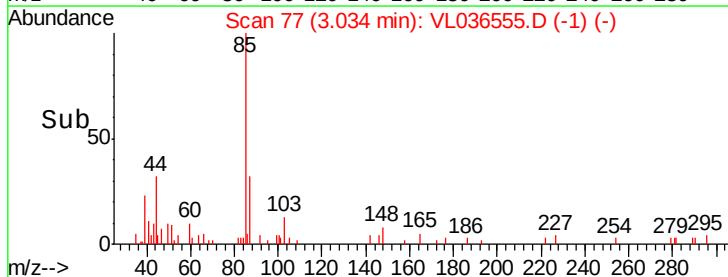
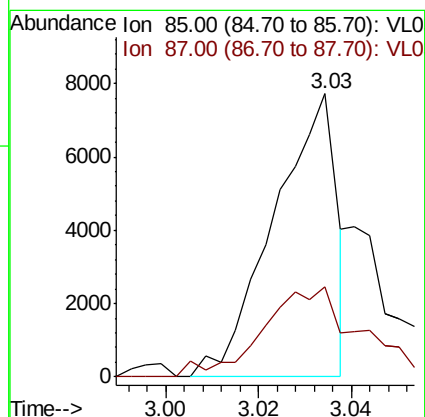
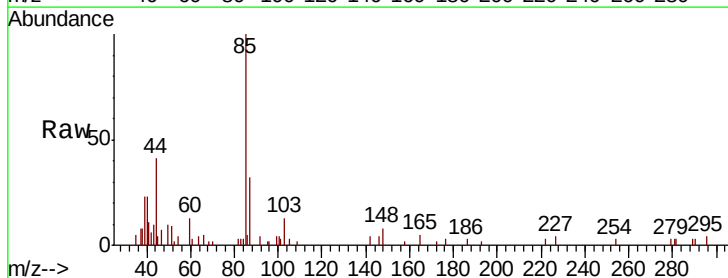
Acq: 30 Mar 2021 1:43

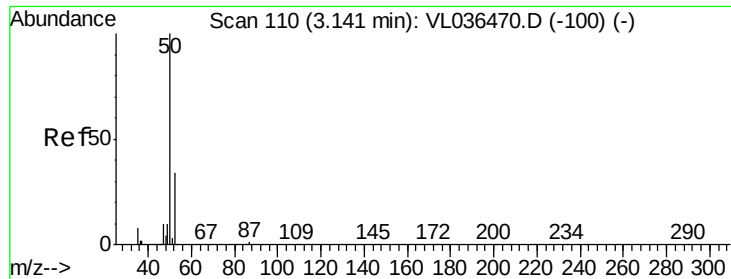
Tgt Ion: 85 Resp: 7277

Ion Ratio Lower Upper

85 100

87 26.0 27.8 41.8#





#4

Chloromethane

Concen: 0.047 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.01 min

Lab File: VL036555.D

Acq: 30 Mar 2021 1:43

Instrument :

MSVOA_L

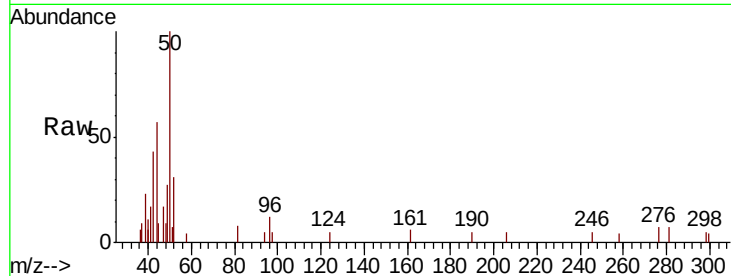
ClientSampleId :

Tot Ion: 50 Resp: 4559

Ion Ratio Lower Upper

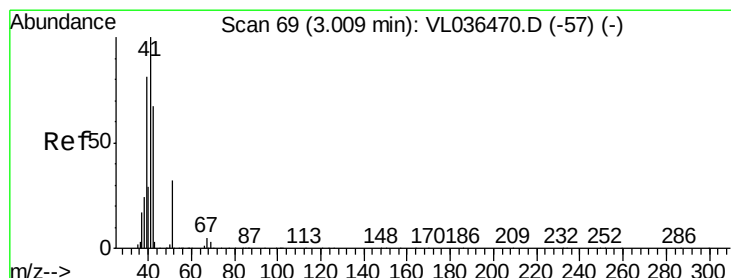
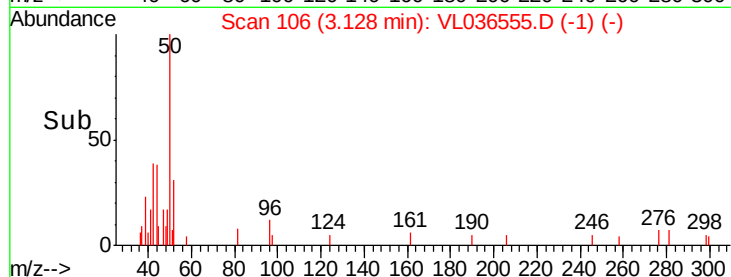
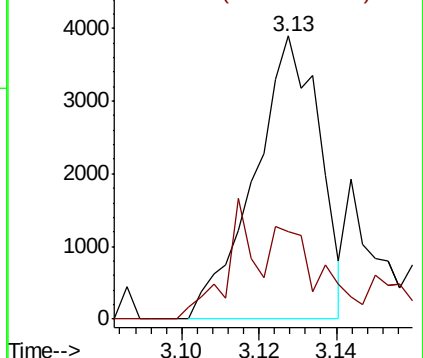
50 100

52 26.6 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: 0.109 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL036555.D

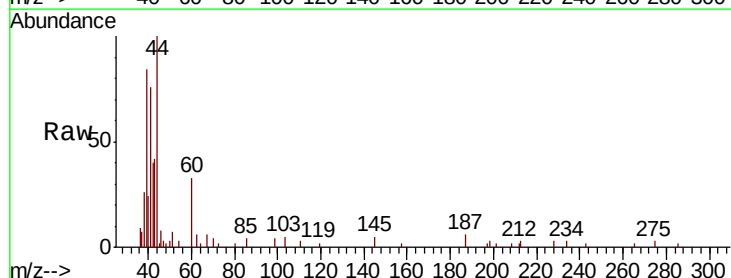
Acq: 30 Mar 2021 1:43

Tgt Ion: 41 Resp: 9556

Ion Ratio Lower Upper

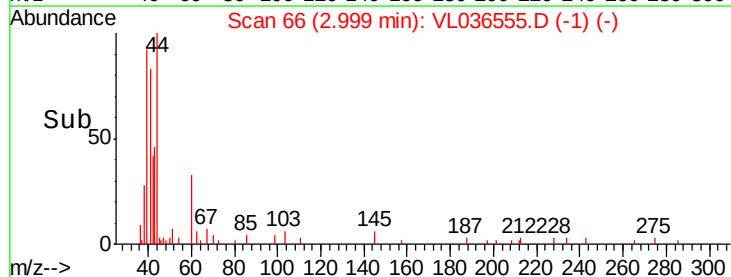
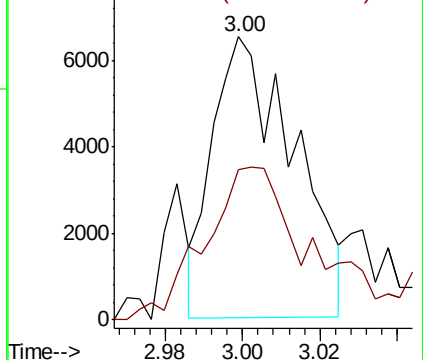
41 100

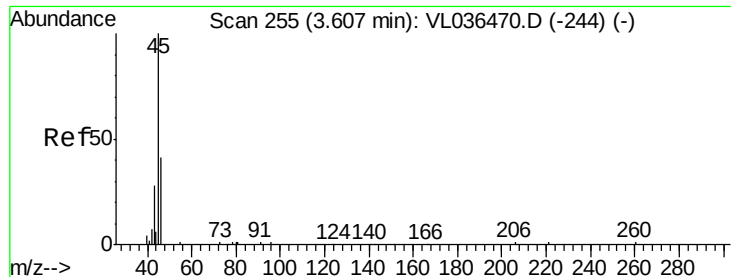
42 73.5 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

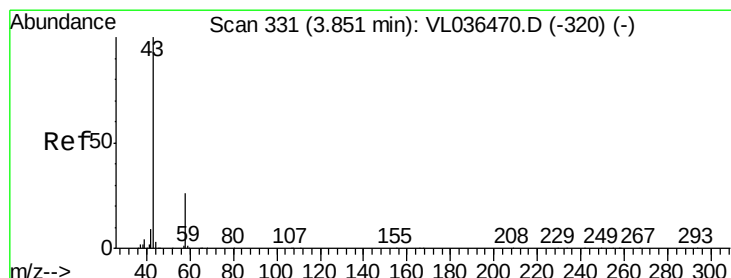
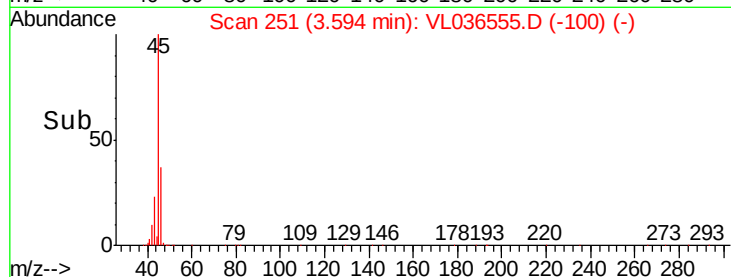
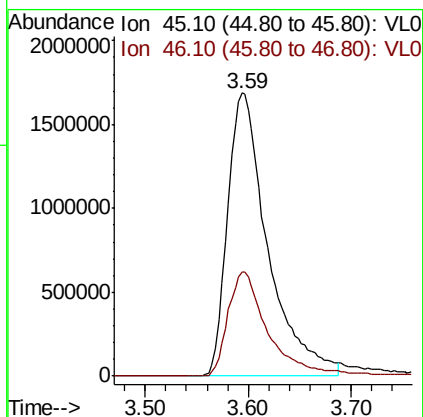
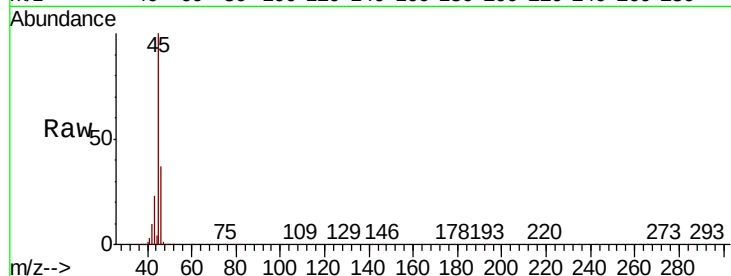




#13
Ethanol
Concen: 438.979 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.01 min
Lab File: VL036555.D
Acq: 30 Mar 2021 1:43

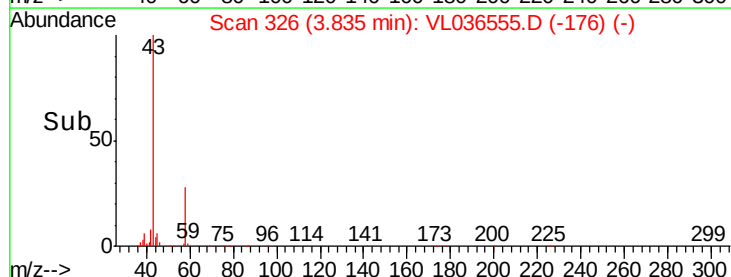
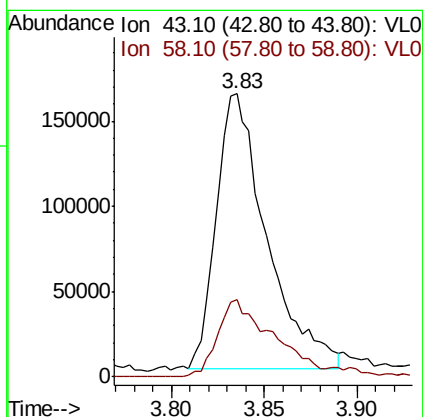
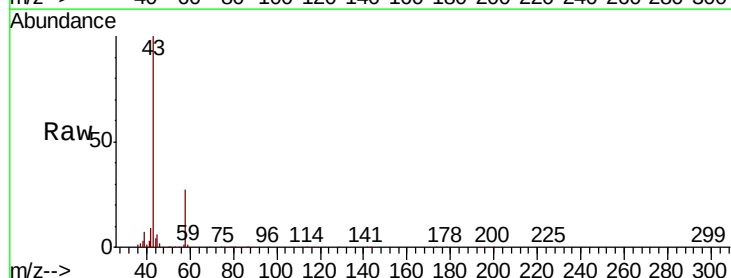
Instrument :
MSVOA_L
ClientSampleId :

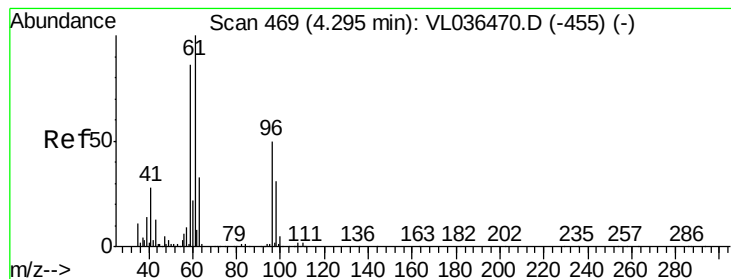
Tot Ion: 45 Resp: 4594343
Ion Ratio Lower Upper
45 100
46 38.0 16.6 66.2



#15
Acetone
Concen: 2.084 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.02 min
Lab File: VL036555.D
Acq: 30 Mar 2021 1:43

Tgt Ion: 43 Resp: 302693
Ion Ratio Lower Upper
43 100
58 33.7 21.2 31.8#



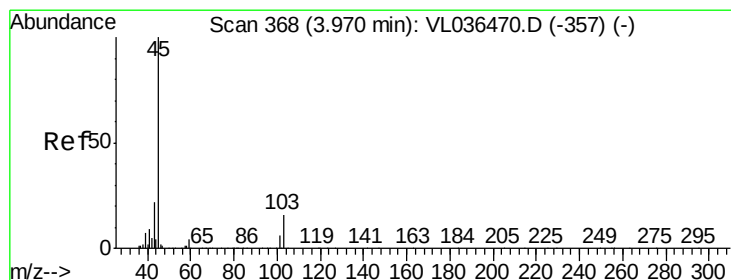
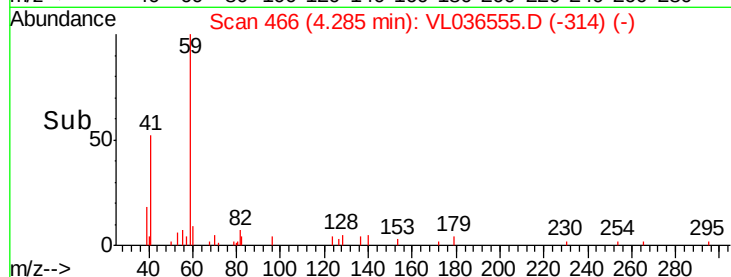
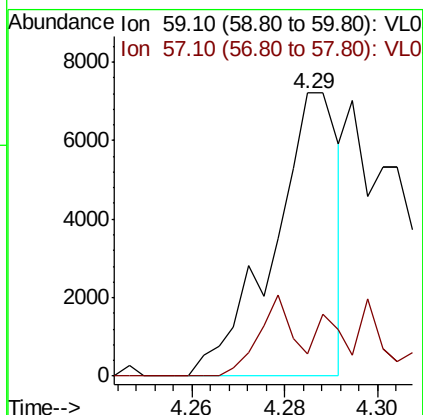
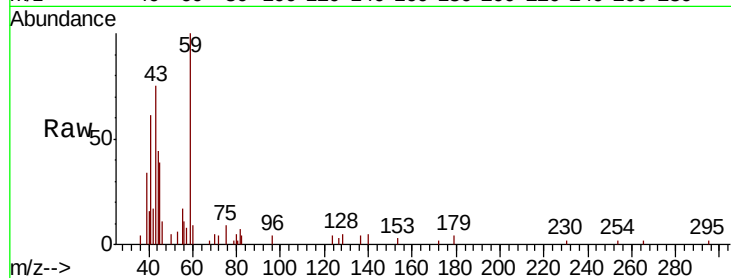


#17

tert-Butyl alcohol
Concen: 0.056 ppbv
RT: 4.29 min Scan# 466
Delta R.T. -0.01 min
Lab File: VL036555.D
Acq: 30 Mar 2021 1:43

Instrument :
MSVOA_L
ClientSampled :

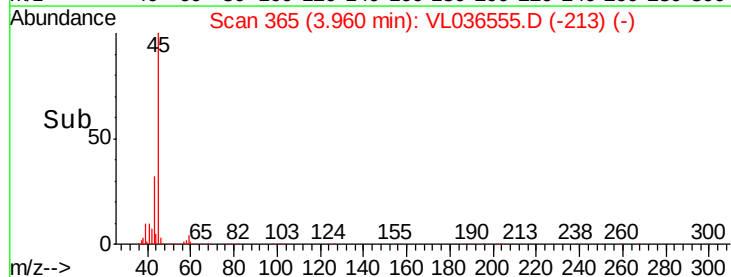
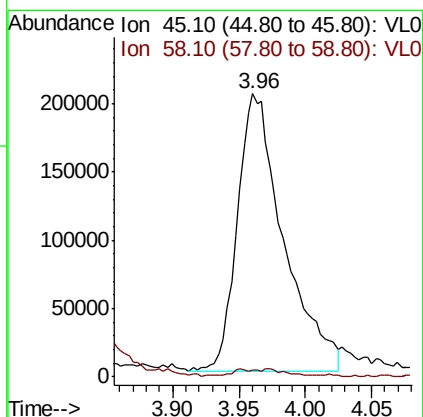
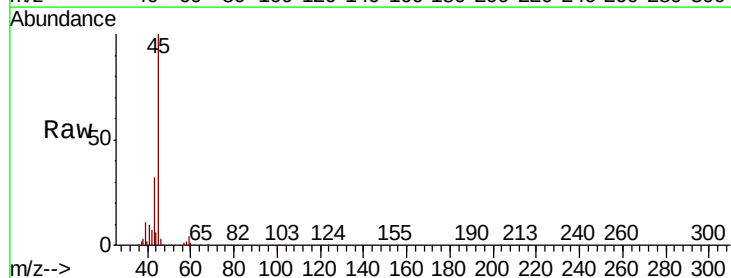
Tot Ion: 59 Resp: 7051
Ion Ratio Lower Upper
59 100
57 48.7 8.6 12.8#

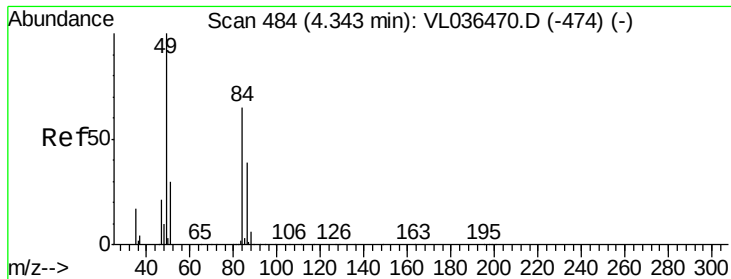


#19

Isopropyl Alcohol
Concen: 6.179 ppbv
RT: 3.96 min Scan# 365
Delta R.T. -0.01 min
Lab File: VL036555.D
Acq: 30 Mar 2021 1:43

Tgt Ion: 45 Resp: 493638
Ion Ratio Lower Upper
45 100
58 3.1 2.9 4.3

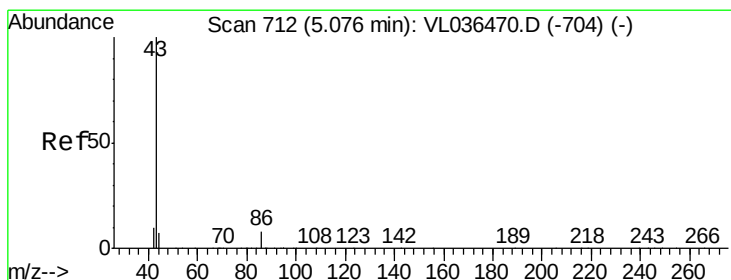
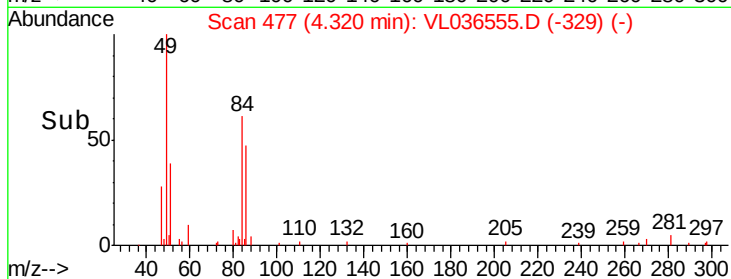
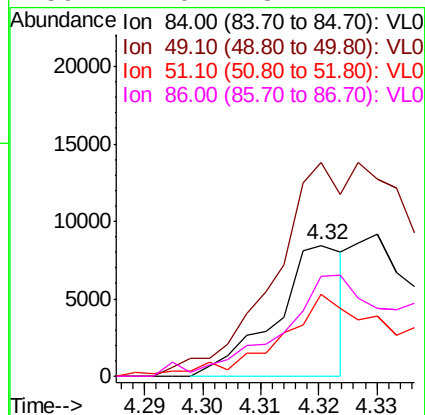
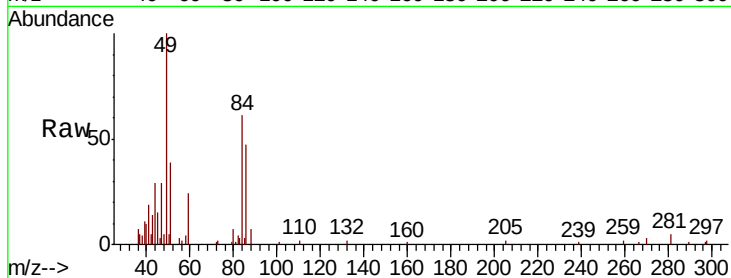




#20
Methylene Chloride
Concen: 0.102 ppbv
RT: 4.32 min Scan# 477
Delta R.T. -0.02 min
Lab File: VL036555.D
Acq: 30 Mar 2021 1:43

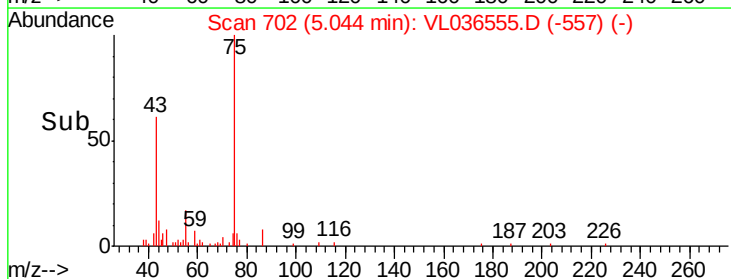
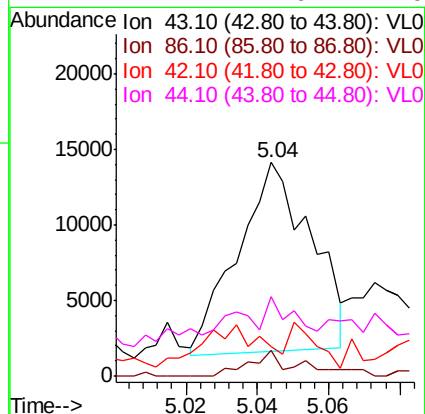
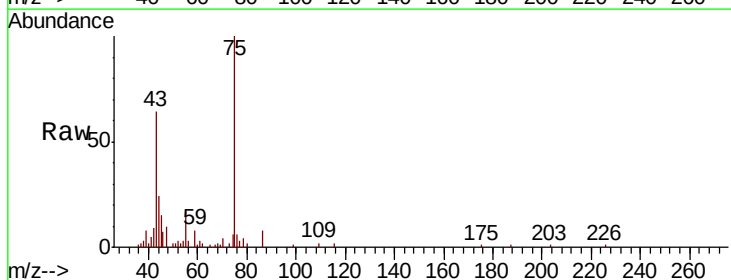
Instrument :
MSVOA_L
ClientSampled :

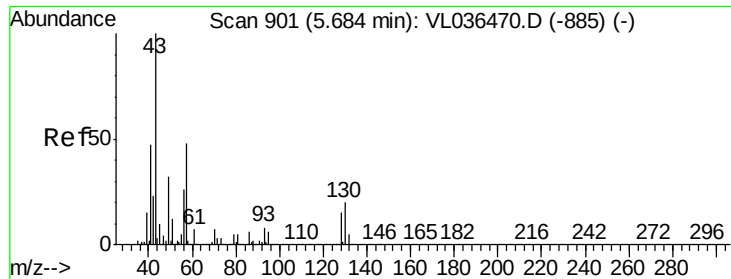
Tot Ion: 84 Resp: 6920
Ion Ratio Lower Upper
84 100
49 150.0 122.9 184.3
51 59.4 36.9 55.3#
86 74.0 48.2 72.4#



#23
Vinyl Acetate
Concen: 0.072 ppbv
RT: 5.04 min Scan# 702
Delta R.T. -0.03 min
Lab File: VL036555.D
Acq: 30 Mar 2021 1:43

Tgt Ion: 43 Resp: 17845
Ion Ratio Lower Upper
43 100
86 14.1 5.4 8.0#
42 11.9 8.5 12.7
44 17.4 4.6 7.0#

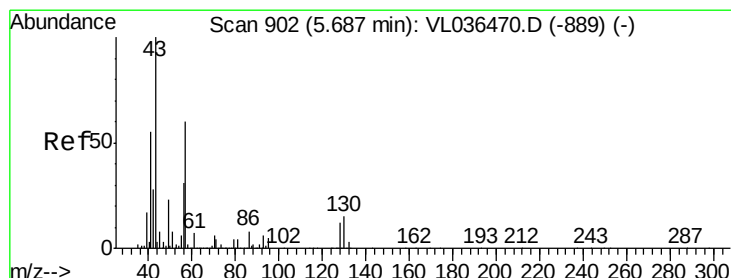
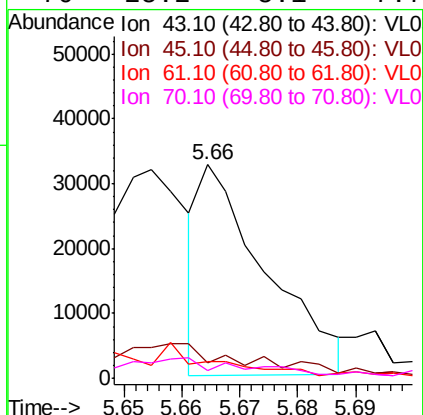
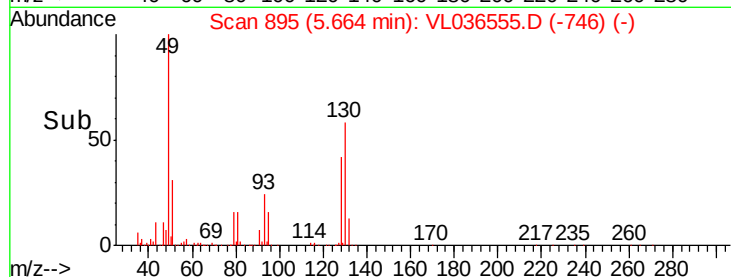
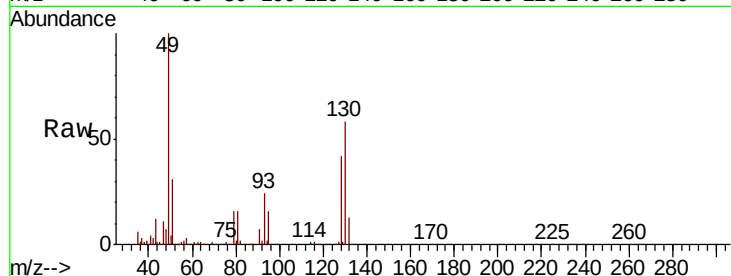




#25
Ethyl Acetate
Concen: 0.075 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL036555.D
Acq: 30 Mar 2021 1:43

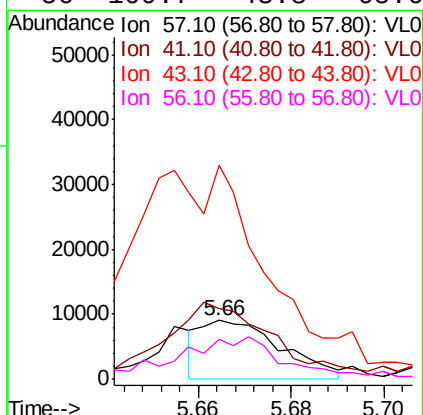
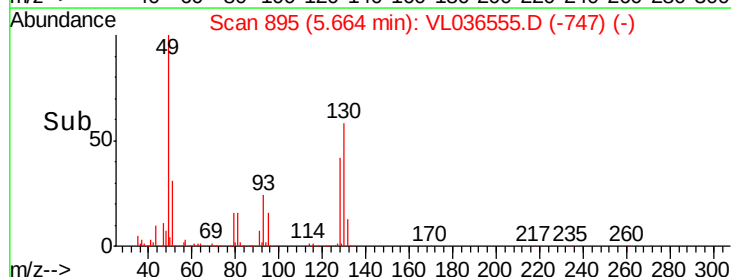
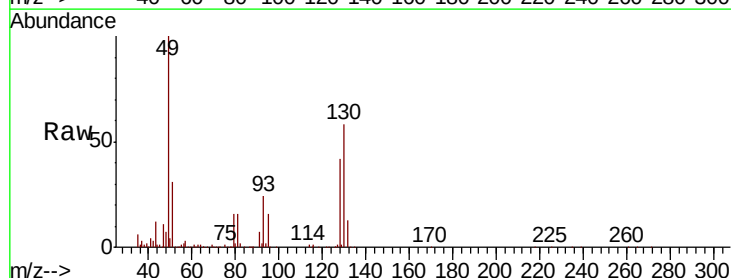
Instrument :
MSVOA_L
ClientSampleId :

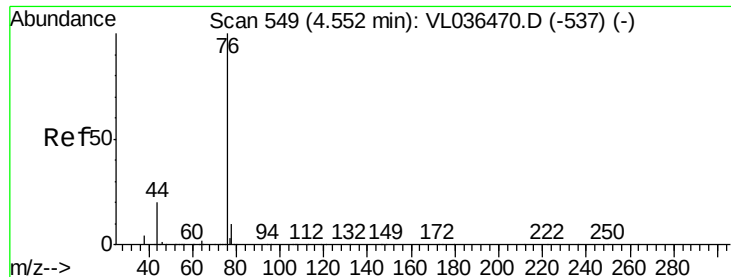
Tot Ion:	43	Resp:	25875
Ion	Ratio	Lower	Upper
43	100		
45	36.6	7.9	11.9#
61	30.0	7.4	11.2#
70	25.2	5.1	7.7#



#26
Hexane
Concen: 0.068 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL036555.D
Acq: 30 Mar 2021 1:43

Tgt Ion:	57	Resp:	10822
Ion	Ratio	Lower	Upper
57	100		
41	212.4	77.2	115.8#
43	657.7	173.8	260.6#
56	109.7	43.8	65.6#





#27

Carbon Disulfide

Concen: 0.438 ppbv

RT: 4.95 min Scan# 672

Delta R.T. 0.40 min

Lab File: VL036555.D

Acq: 30 Mar 2021 1:43

Instrument :

MSVOA_L

ClientSampleId :

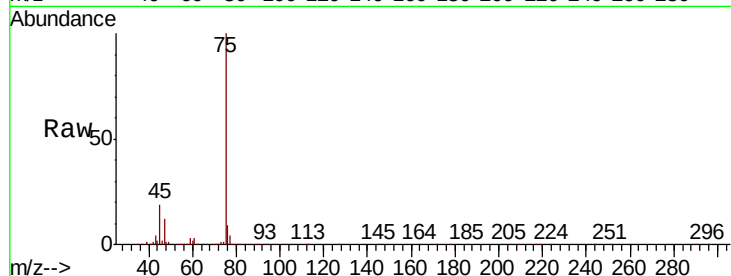
Tot Ion: 76 Resp: 69125

Ion Ratio Lower Upper

76 100

44 12.5 17.5 26.3#

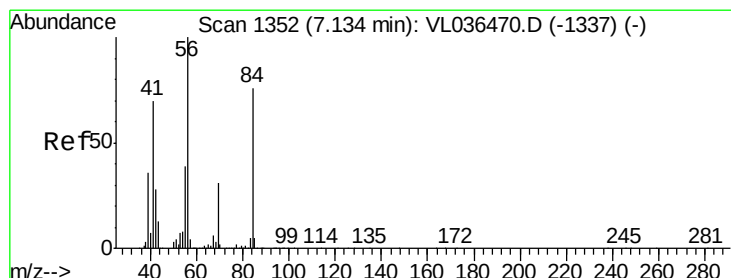
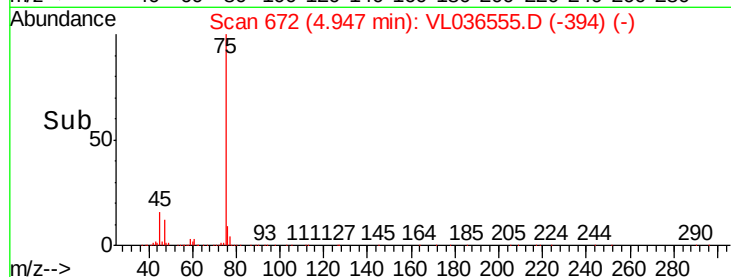
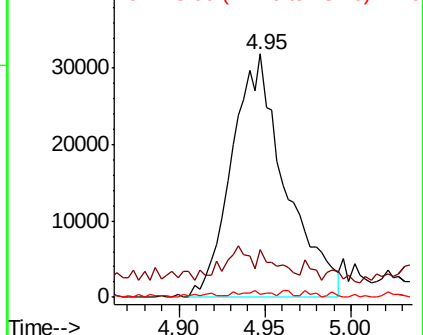
78 0.0 8.6 13.0#



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



#30

Cyclohexane

Concen: 0.073 ppbv

RT: 7.14 min Scan# 1354

Delta R.T. 0.01 min

Lab File: VL036555.D

Acq: 30 Mar 2021 1:43

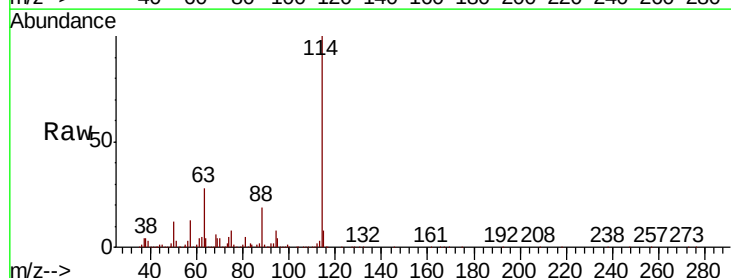
Tgt Ion: 84 Resp: 9440

Ion Ratio Lower Upper

84 100

56 0.0 114.6 171.8#

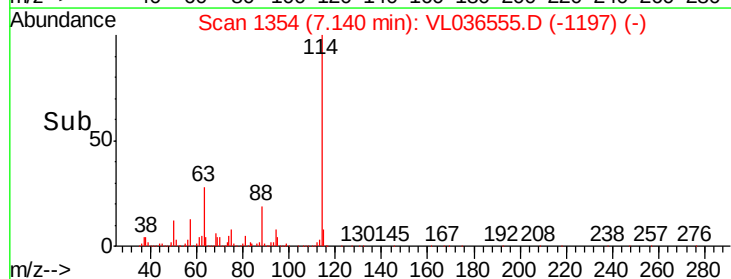
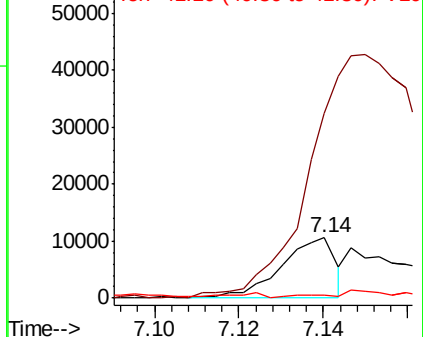
41 0.0 75.3 112.9#

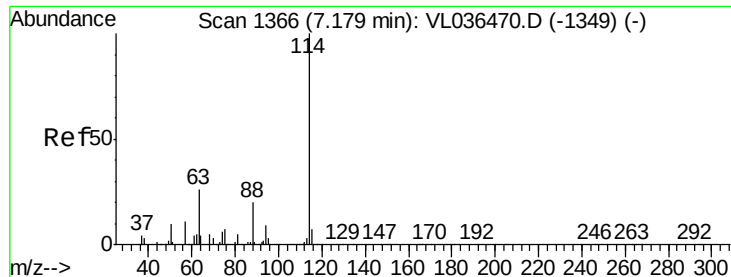


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

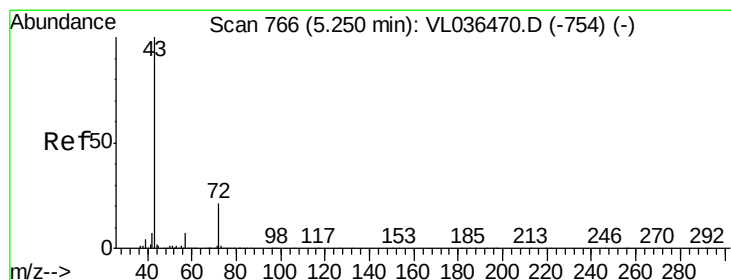
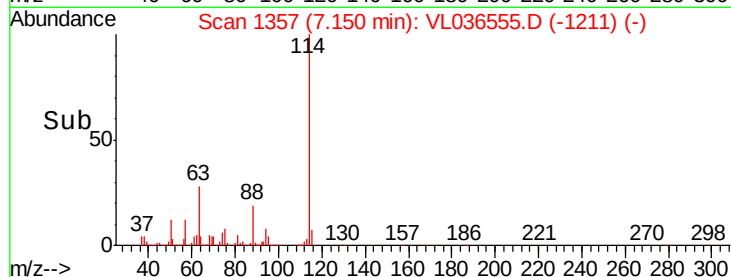
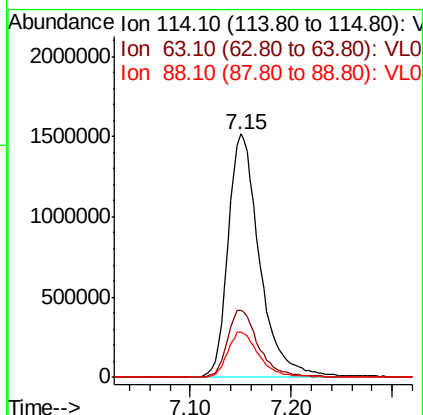
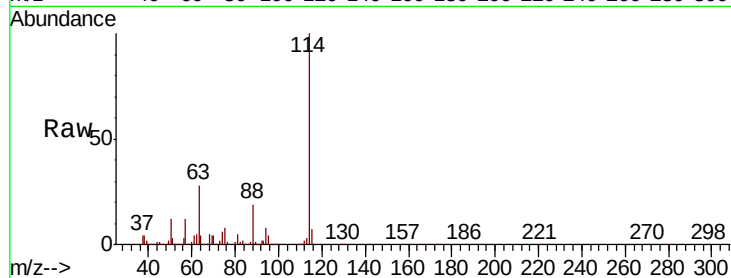




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.03 min
 Lab File: VL036555.D
 Acq: 30 Mar 2021 1:43

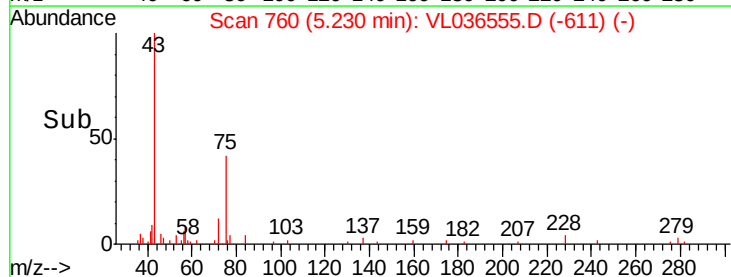
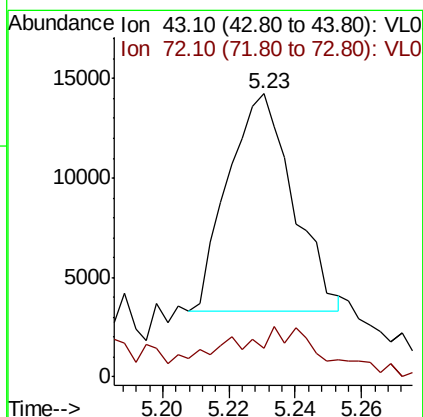
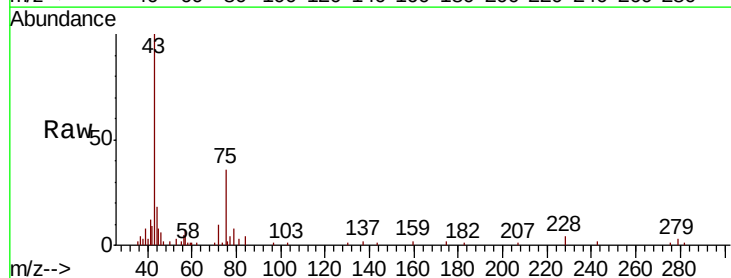
Instrument :
 MSVOA_L
 ClientSampleId :

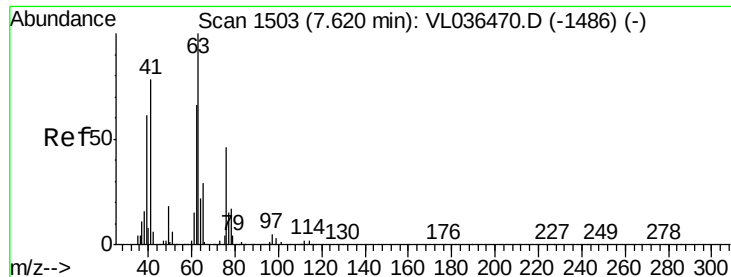
Tot Ion:114 Resp: 3301025
 Ion Ratio Lower Upper
 114 100
 63 27.7 22.4 33.6
 88 18.9 15.4 23.0



#34
 2-Butanone
 Concen: 0.093 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.02 min
 Lab File: VL036555.D
 Acq: 30 Mar 2021 1:43

Tgt Ion: 43 Resp: 14926
 Ion Ratio Lower Upper
 43 100
 72 29.9 17.0 25.6#





#39

1,2-Dichloropropane

Concen: 7.209 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. -0.47 min

Lab File: VL036555.D

Acq: 30 Mar 2021 1:43

Instrument :

MSVOA_L

ClientSampleId :

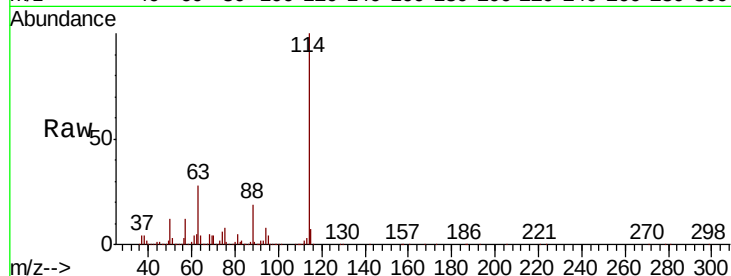
Tot Ion: 63 Resp: 890232

Ion Ratio Lower Upper

63 100

41 0.1 62.4 93.6#

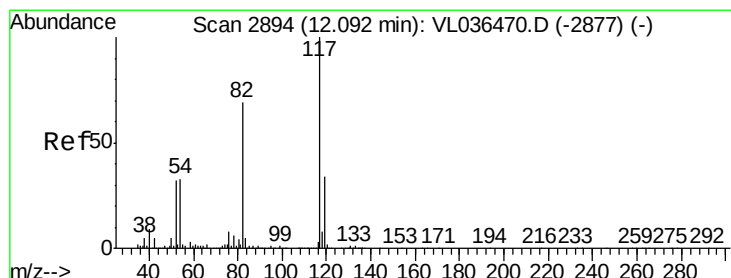
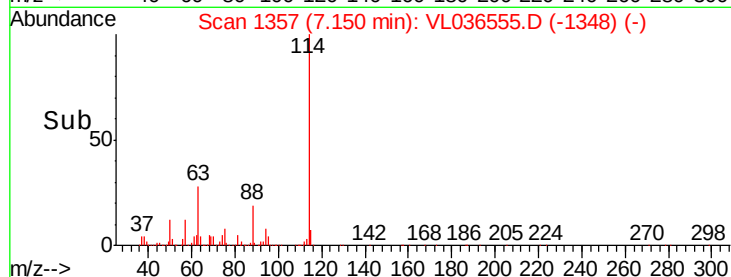
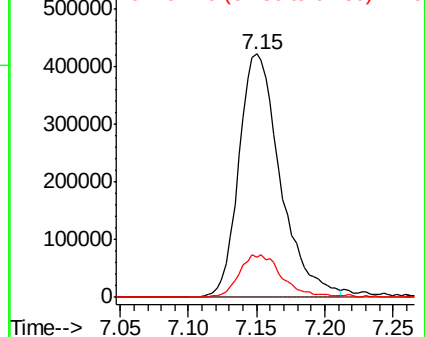
62 16.7 52.8 79.2#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.03 min

Lab File: VL036555.D

Acq: 30 Mar 2021 1:43

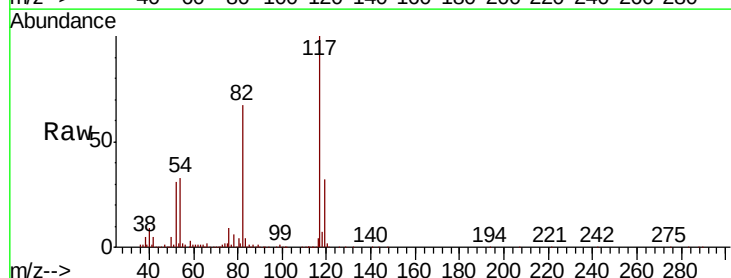
Tgt Ion: 117 Resp: 3006632

Ion Ratio Lower Upper

117 100

82 71.1 57.4 86.0

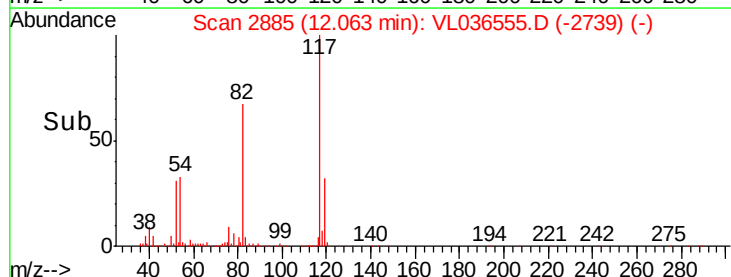
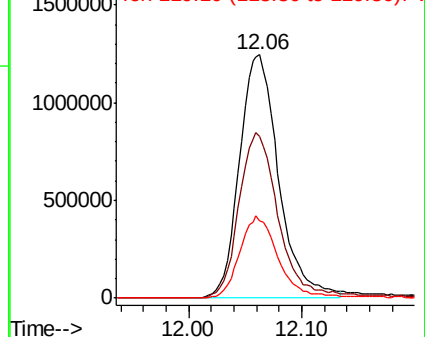
119 33.8 47.4 71.0#

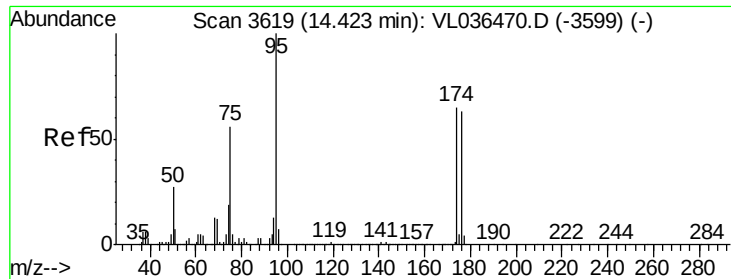


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.392 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.03 min

Lab File: VL036555.D

Acq: 30 Mar 2021 1:43

Instrument :

MSVOA_L

ClientSampleId :

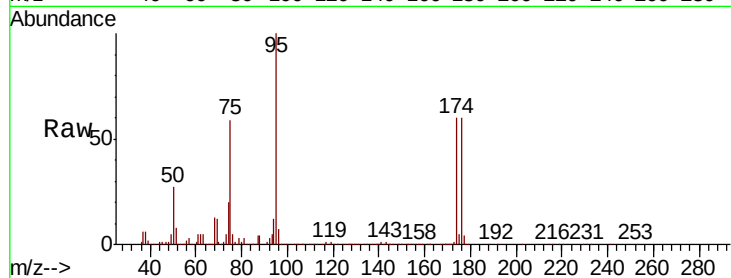
Tot Ion: 95 Resp: 2250653

Ion Ratio Lower Upper

95 100

174 67.5 51.0 76.6

175 4.7 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

