

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033021\
 Data File : VL036585.D
 Acq On : 31 Mar 2021 1:10
 Operator : SY/AP
 Sample : M1797-09DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 31 05:18:43 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	1296721	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3113251	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	2761859	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2158260	9.80	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.00%

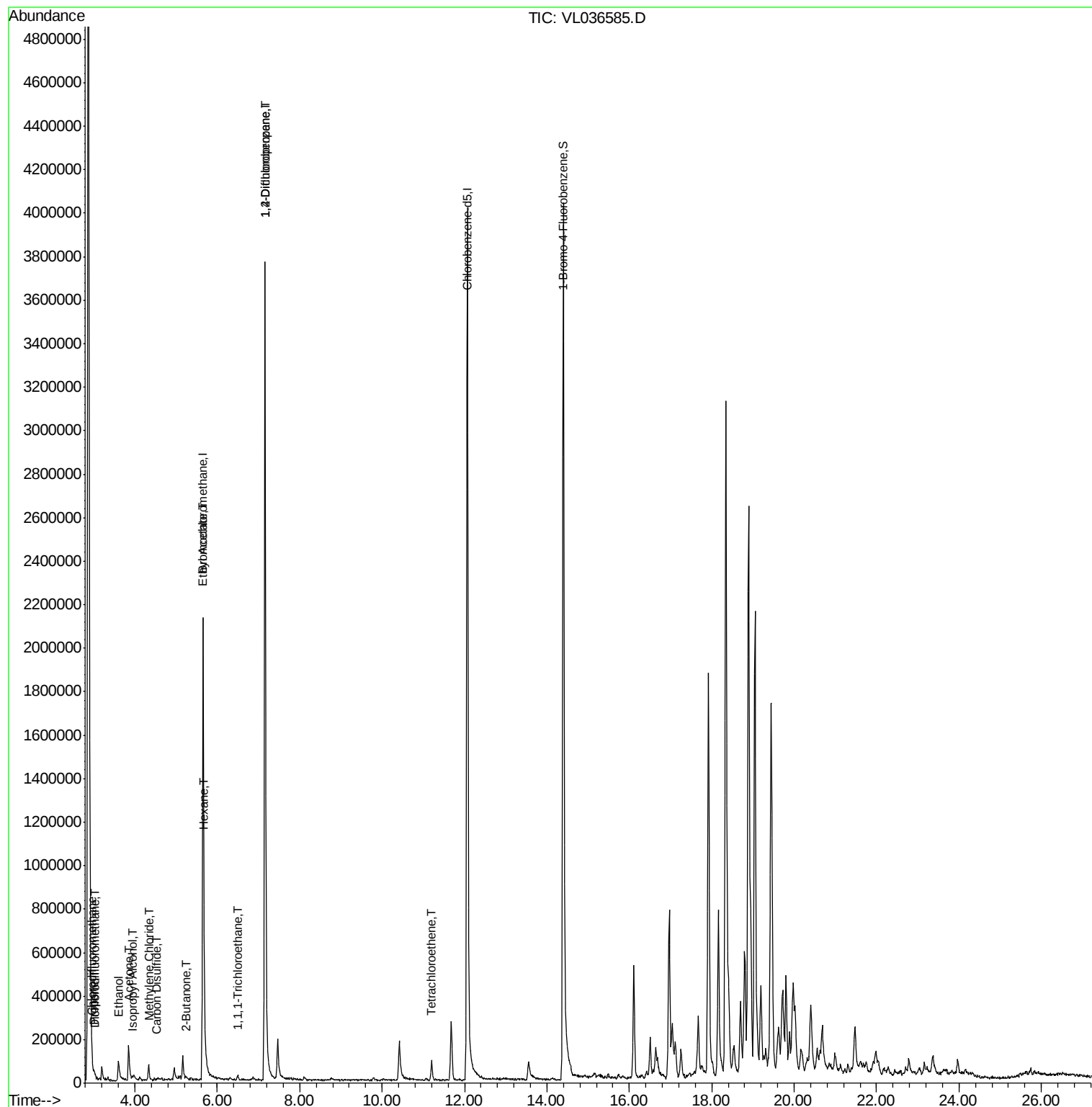
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	11114	0.053 ppbv	96
3) Chlorodifluoromethane	2.98	51	5029	0.021 ppbv #	90
9) Propene	3.00	41	4839	0.063 ppbv #	14
13) Ethanol	3.60	45	110779	12.044 ppbv	94
15) Acetone	3.84	43	184860	1.448 ppbv #	68
19) Isopropyl Alcohol	3.95	45	1476	0.021 ppbv #	89
20) Methylene Chloride	4.33	84	12036	0.201 ppbv	93
25) Ethyl Acetate	5.66	43	9910	0.033 ppbv #	77
26) Hexane	5.68	57	8109	0.058 ppbv #	1
27) Carbon Disulfide	4.54	76	5223	0.038 ppbv #	60
32) 1,1,1-Trichloroethane	6.49	97	9186	0.040 ppbv #	60
34) 2-Butanone	5.24	43	7704	0.051 ppbv #	19
39) 1,2-Dichloropropane	7.16	63	842547	7.234 ppbv #	23
52) Tetrachloroethene	11.19	164	7374	0.070 ppbv #	76

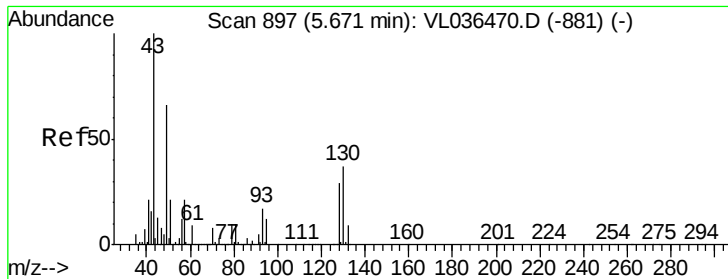
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.02 min

Lab File: VL036585.D

Acq: 31 Mar 2021 1:10

Instrument :

MSVOA_L

ClientSampleId :

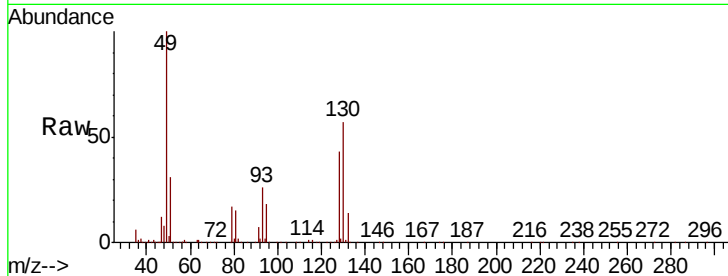
Tot Ion: 49 Resp: 1296721

Ion Ratio Lower Upper

49 100

128 46.8 23.5 70.6

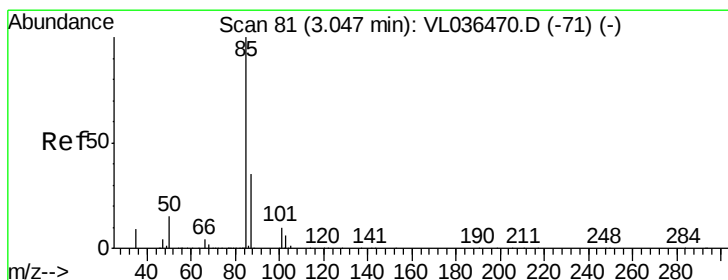
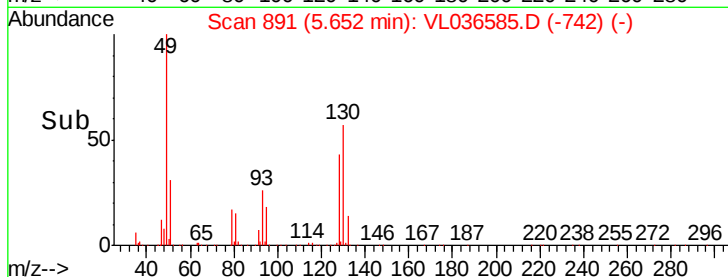
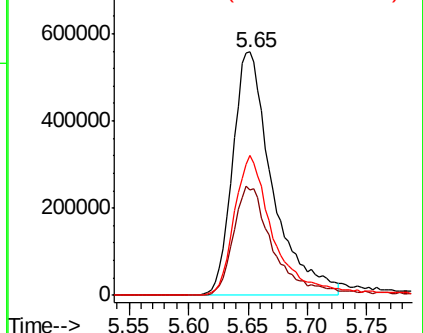
130 58.0 29.1 87.4



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: 0.053 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.01 min

Lab File: VL036585.D

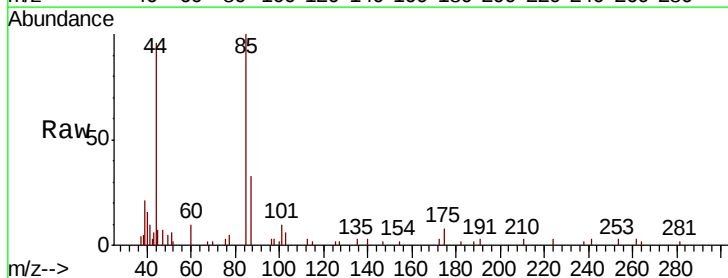
Acq: 31 Mar 2021 1:10

Tgt Ion: 85 Resp: 11114

Ion Ratio Lower Upper

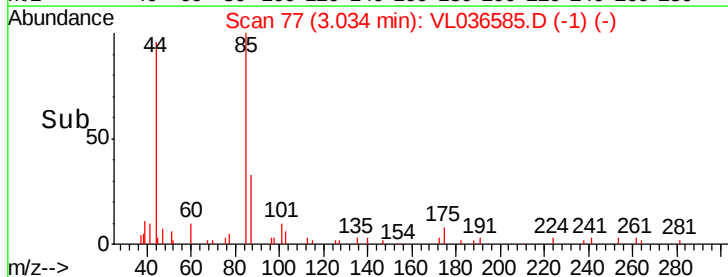
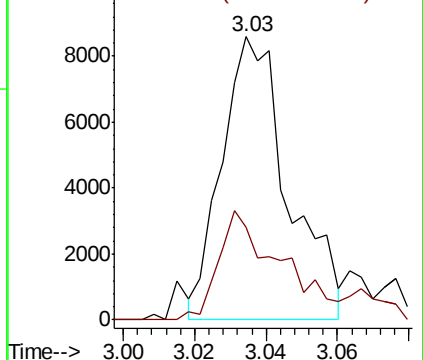
85 100

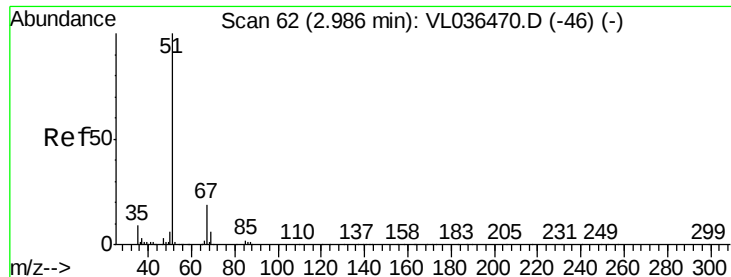
87 32.4 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

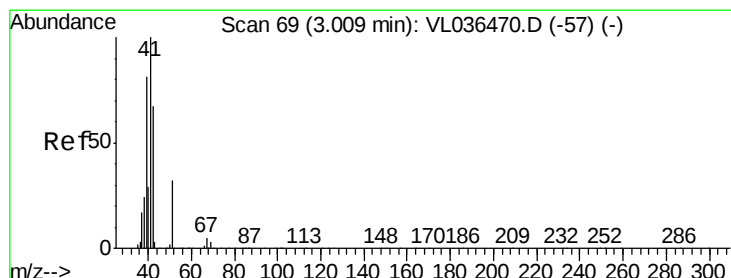
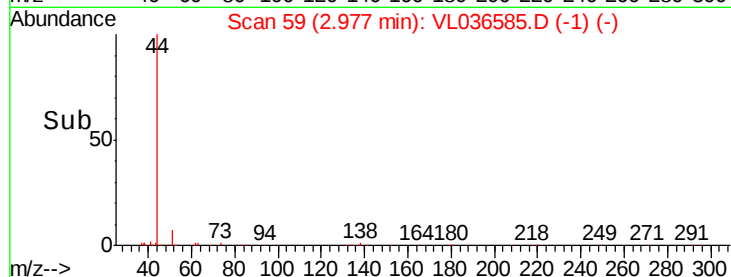
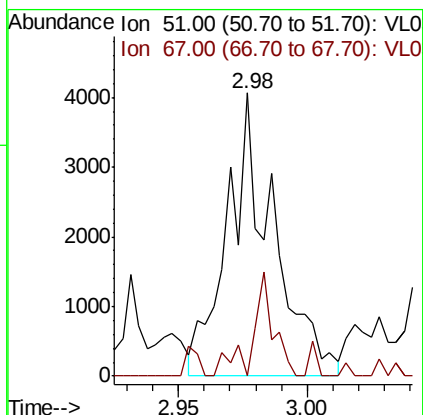
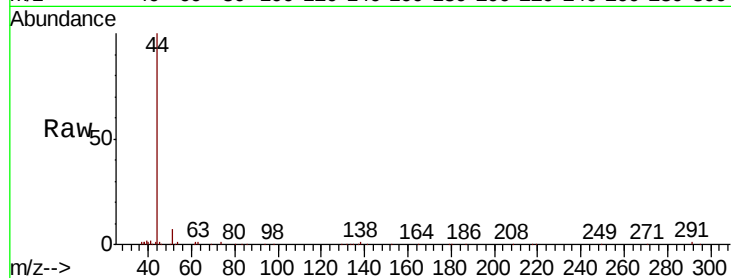




#3
 Chlorodifluoromethane
 Concen: 0.021 ppbv
 RT: 2.98 min Scan# 59
 Delta R.T. -0.01 min
 Lab File: VL036585.D
 Acq: 31 Mar 2021 1:10

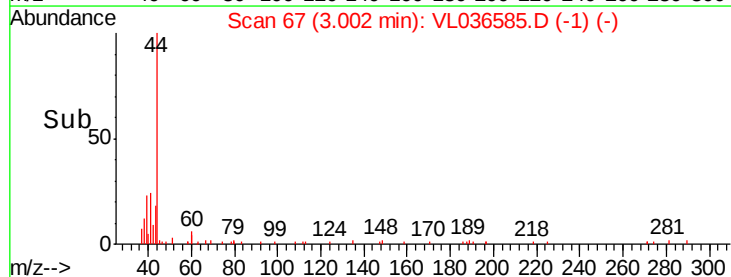
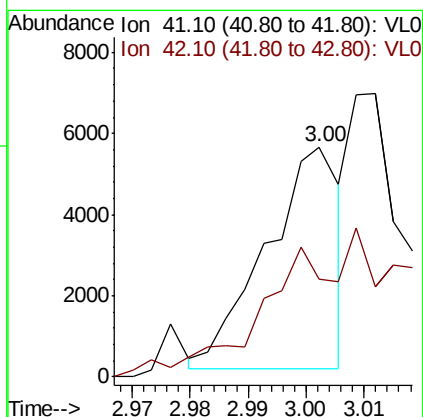
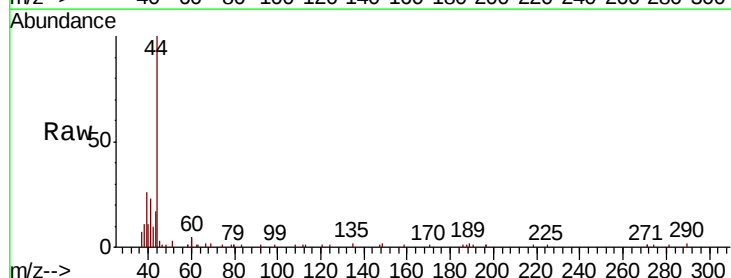
Instrument :
 MSVOA_L
 ClientSampleId :

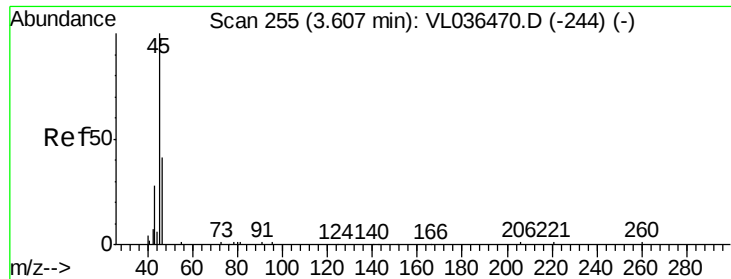
Tot Ion: 51 Resp: 5029
 Ion Ratio Lower Upper
 51 100
 67 22.8 14.7 22.1#



#9
 Propene
 Concen: 0.063 ppbv
 RT: 3.00 min Scan# 67
 Delta R.T. -0.01 min
 Lab File: VL036585.D
 Acq: 31 Mar 2021 1:10

Tgt Ion: 41 Resp: 4839
 Ion Ratio Lower Upper
 41 100
 42 0.0 57.0 85.4#





#13

Ethanol

Concen: 12.044 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL036585.D

Acq: 31 Mar 2021 1:10

Instrument :

MSVOA_L

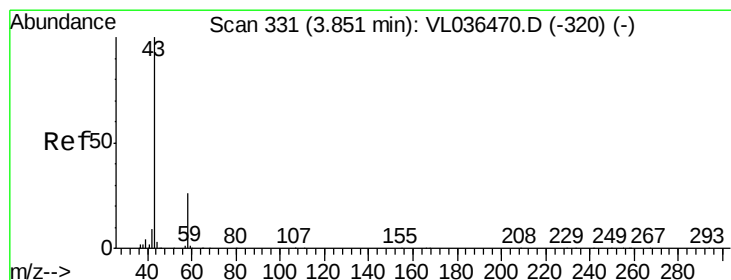
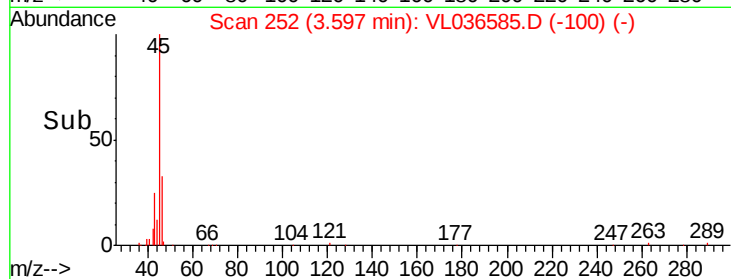
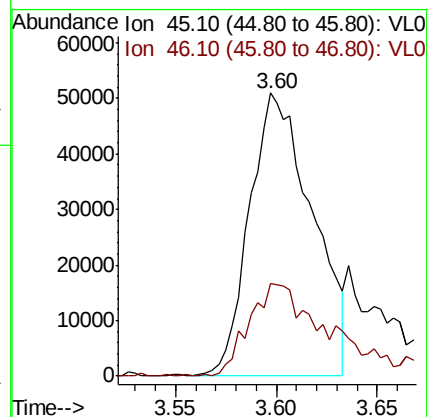
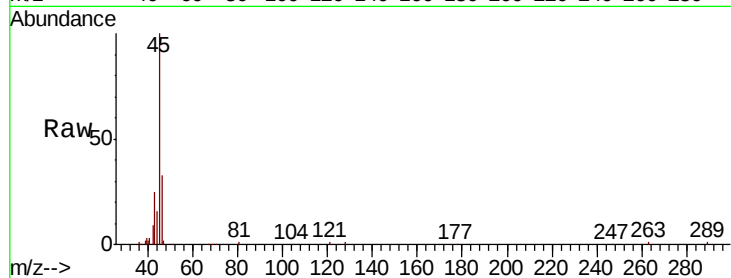
ClientSampled :

Tot Ion: 45 Resp: 110779

Ion Ratio Lower Upper

45 100

46 45.0 16.6 66.2



#15

Acetone

Concen: 1.448 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL036585.D

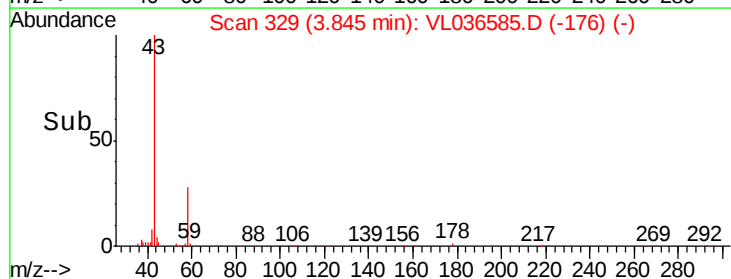
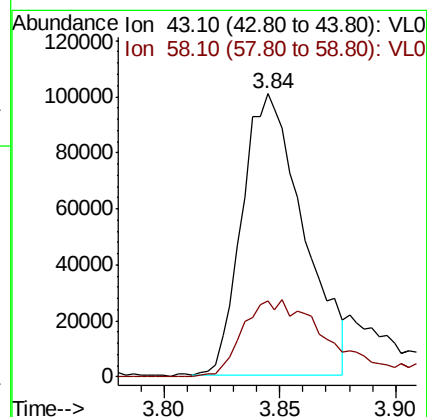
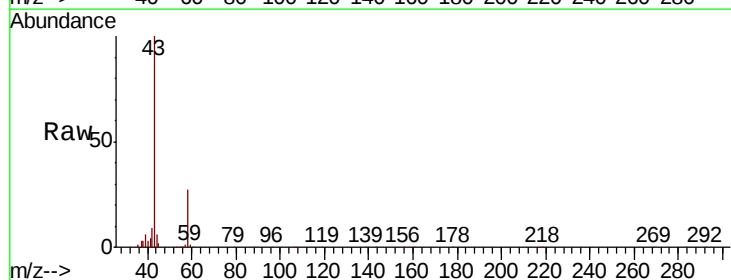
Acq: 31 Mar 2021 1:10

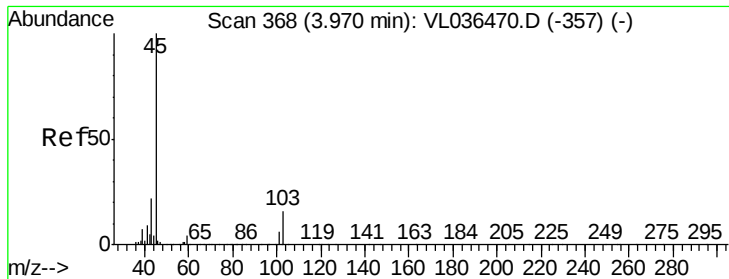
Tgt Ion: 43 Resp: 184860

Ion Ratio Lower Upper

43 100

58 43.1 21.2 31.8#





#19

Isopropyl Alcohol

Concen: 0.021 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.02 min

Lab File: VL036585.D

Acq: 31 Mar 2021 1:10

Instrument :

MSVOA_L

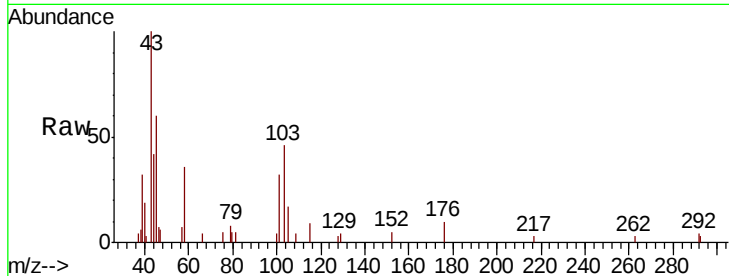
ClientSampleId :

Tot Ion: 45 Resp: 1476

Ion Ratio Lower Upper

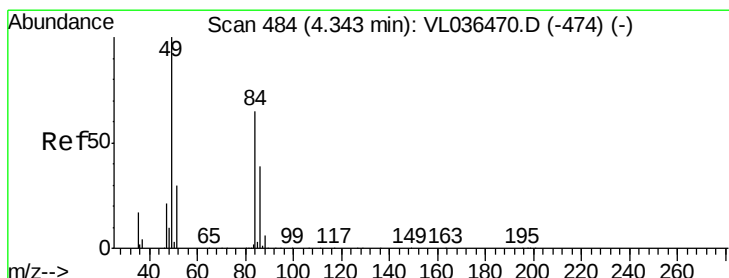
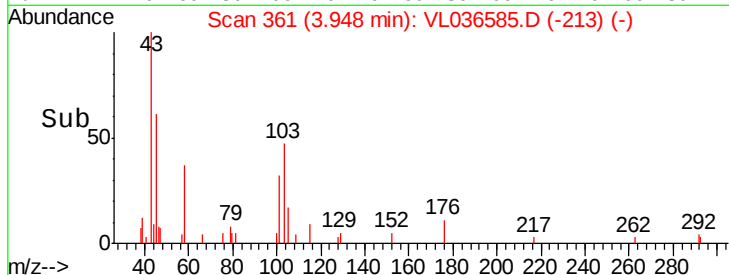
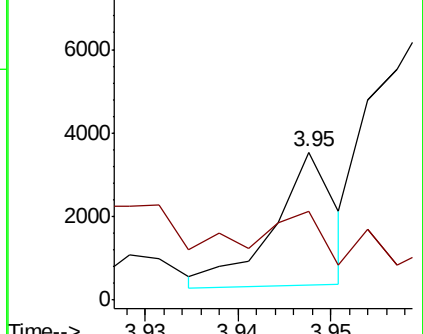
45 100

58 0.0 2.9 4.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.201 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.01 min

Lab File: VL036585.D

Acq: 31 Mar 2021 1:10

Tgt Ion: 84 Resp: 12036

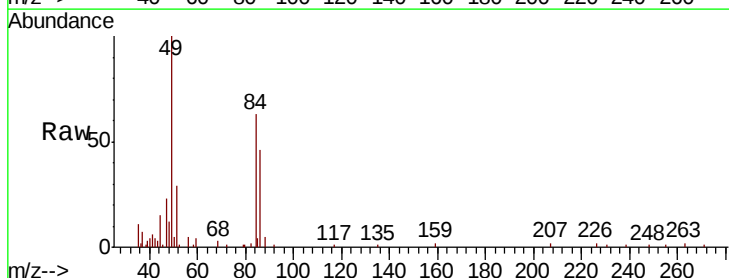
Ion Ratio Lower Upper

84 100

49 163.6 122.9 184.3

51 46.9 36.9 55.3

86 67.5 48.2 72.4

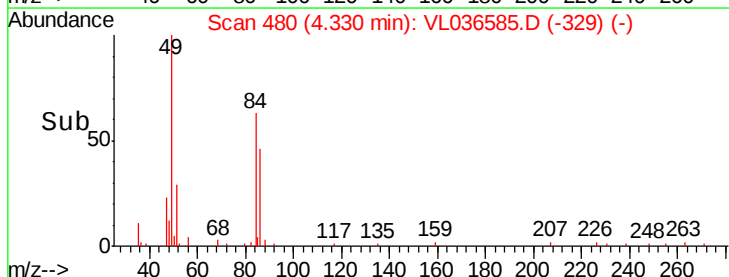
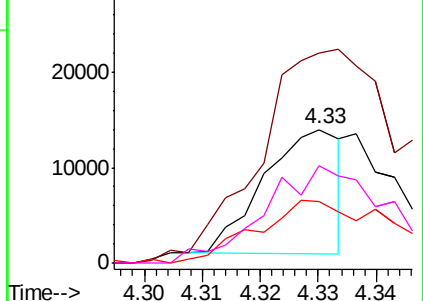


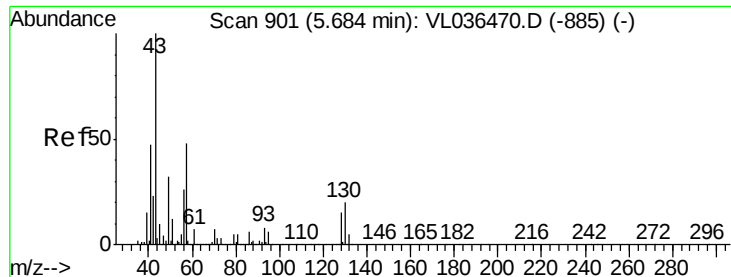
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

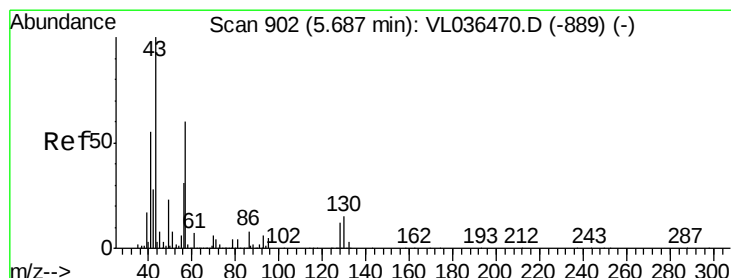
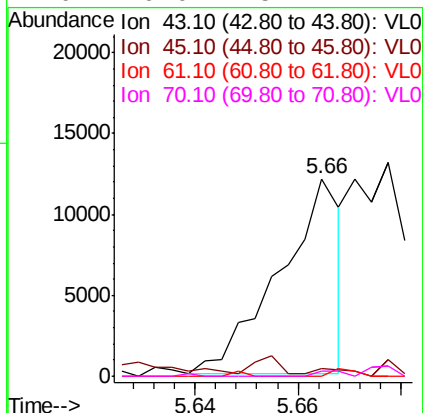
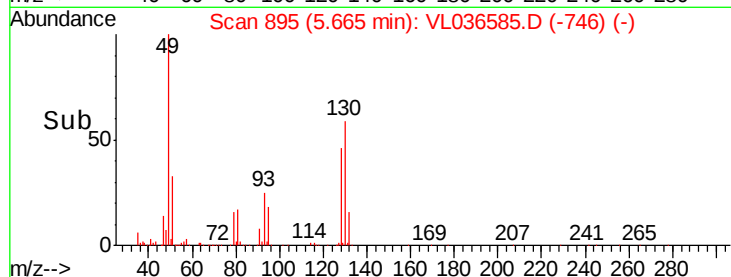
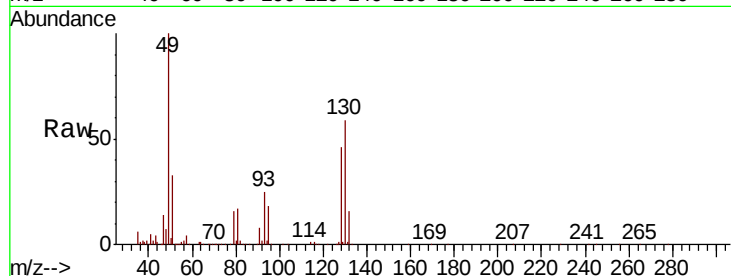




#25
Ethyl Acetate
Concen: 0.033 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL036585.D
Acq: 31 Mar 2021 1:10

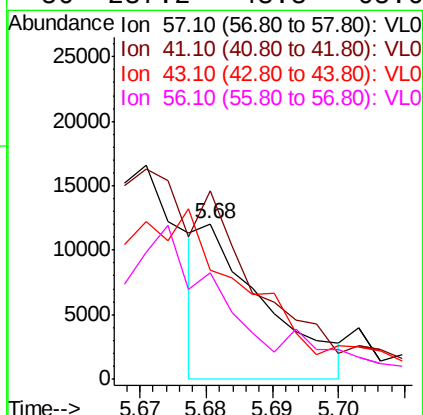
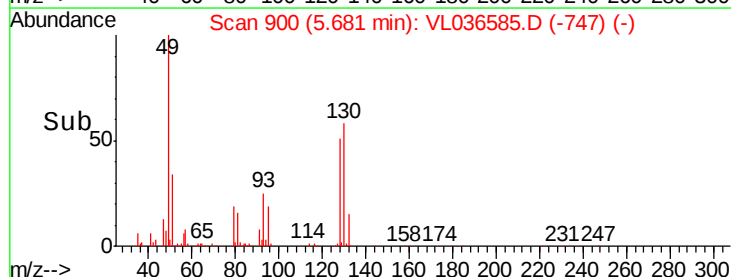
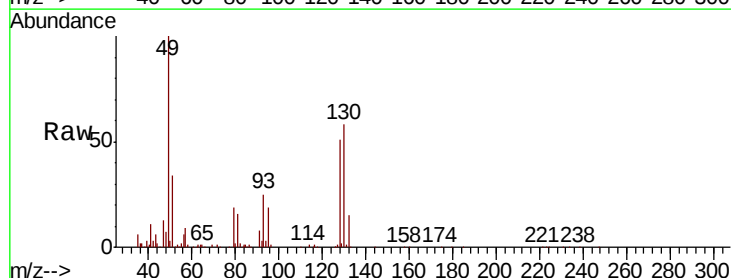
Instrument :
MSVOA_L
ClientSampled :

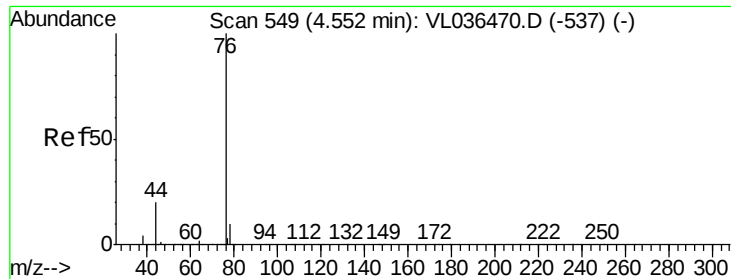
Tot Ion:	43	Resp:	9910
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.9	11.9#
61	1.7	7.4	11.2#
70	0.0	5.1	7.7#



#26
Hexane
Concen: 0.058 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL036585.D
Acq: 31 Mar 2021 1:10

Tgt Ion:	57	Resp:	8109
Ion	Ratio	Lower	Upper
57	100		
41	0.0	77.2	115.8#
43	362.4	173.8	260.6#
56	237.2	43.8	65.6#





#27

Carbon Disulfide

Concen: 0.038 ppbv

RT: 4.54 min Scan# 544

Delta R.T. -0.02 min

Lab File: VL036585.D

Acq: 31 Mar 2021 1:10

Instrument :

MSVOA_L

ClientSampleId :

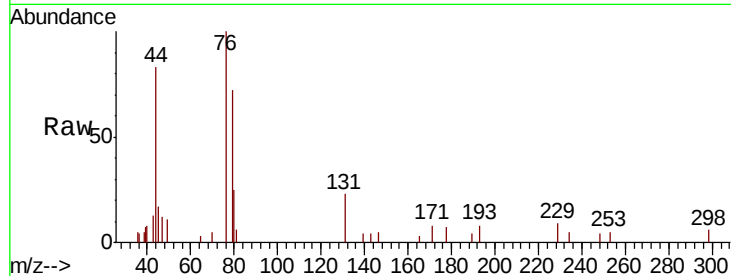
Tot Ion: 76 Resp: 5223

Ion Ratio Lower Upper

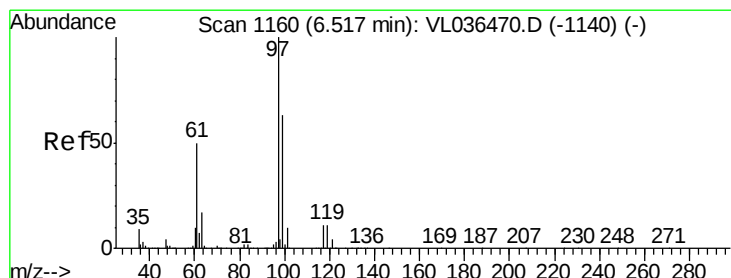
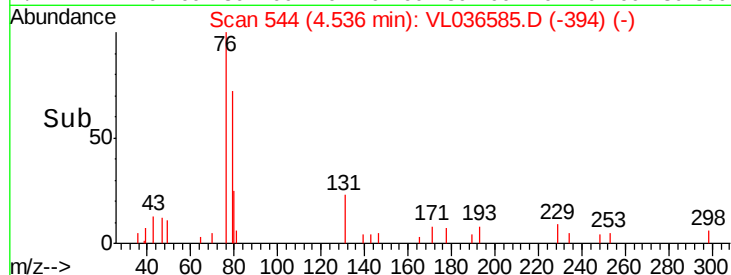
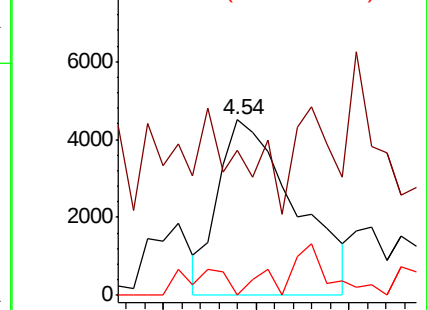
76 100

44 0.0 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



#32

1,1,1-Trichloroethane

Concen: 0.040 ppbv

RT: 6.49 min Scan# 1153

Delta R.T. -0.02 min

Lab File: VL036585.D

Acq: 31 Mar 2021 1:10

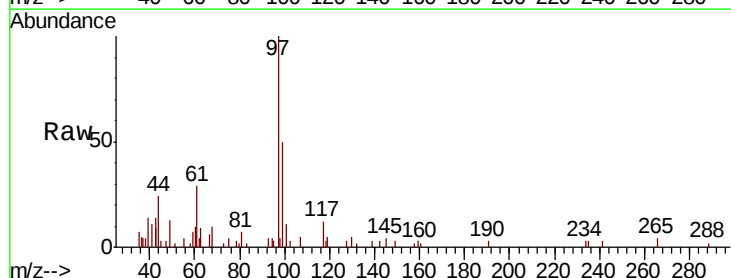
Tgt Ion: 97 Resp: 9186

Ion Ratio Lower Upper

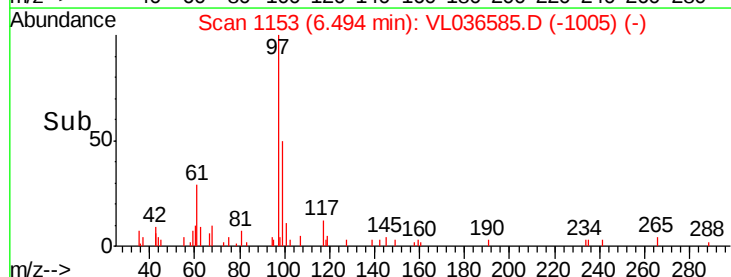
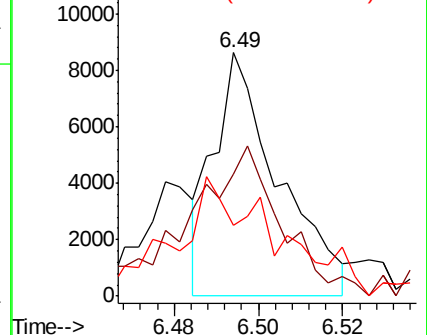
97 100

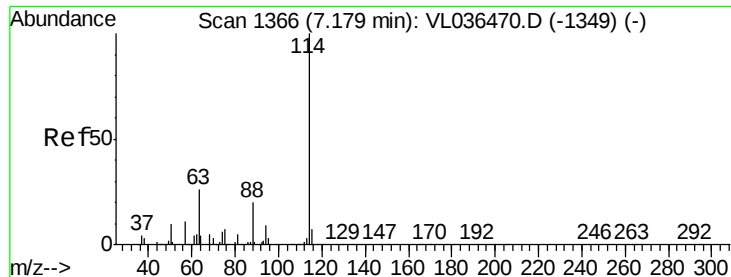
99 91.0 51.4 77.0#

61 83.8 40.6 60.8#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.02 min

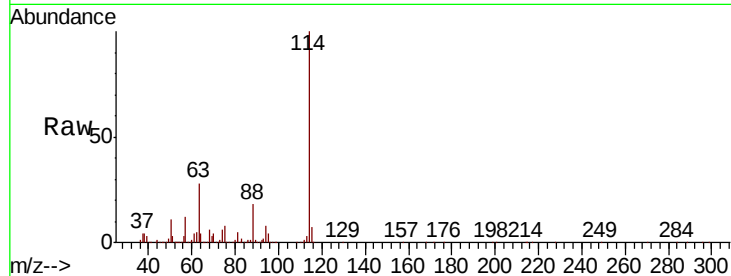
Lab File: VL036585.D

Acq: 31 Mar 2021 1:10

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:114 Resp: 3113251

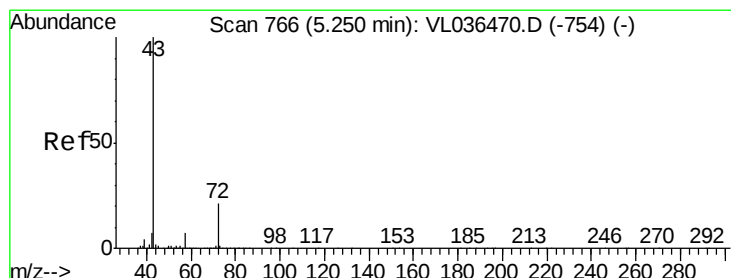
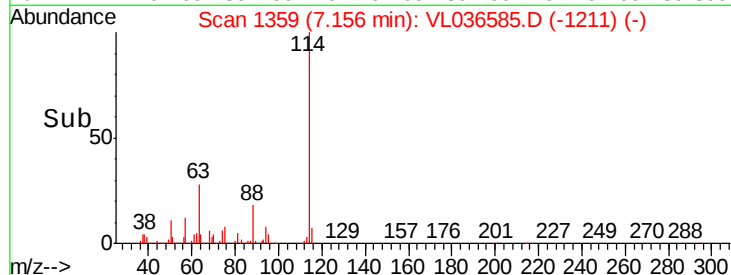
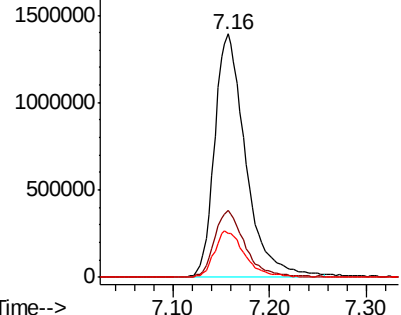
Ion	Ratio	Lower	Upper
114	100		
63	27.5	22.4	33.6
88	18.9	15.4	23.0



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.051 ppbv

RT: 5.24 min Scan# 763

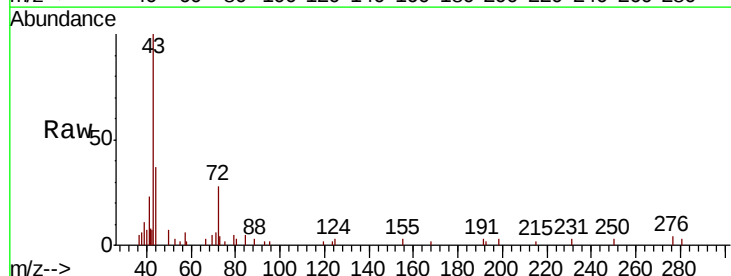
Delta R.T. -0.01 min

Lab File: VL036585.D

Acq: 31 Mar 2021 1:10

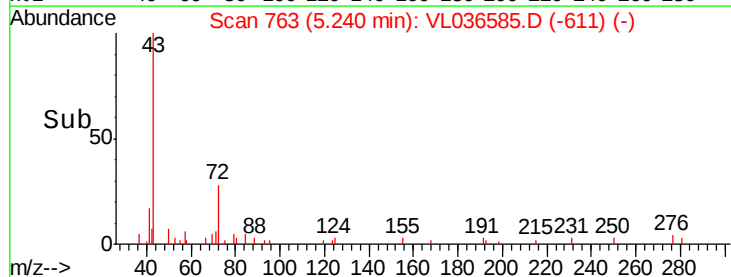
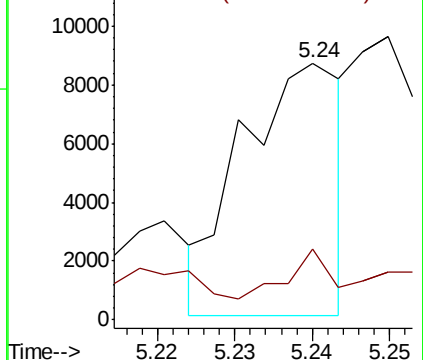
Tgt Ion: 43 Resp: 7704

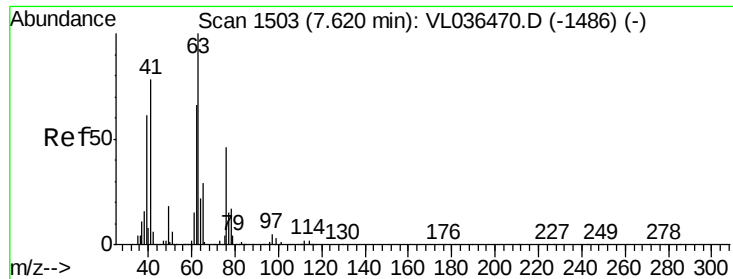
Ion	Ratio	Lower	Upper
43	100		
72	59.3	17.0	25.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 7.234 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.46 min

Lab File: VL036585.D

Acq: 31 Mar 2021 1:10

Instrument :

MSVOA_L

ClientSampleId :

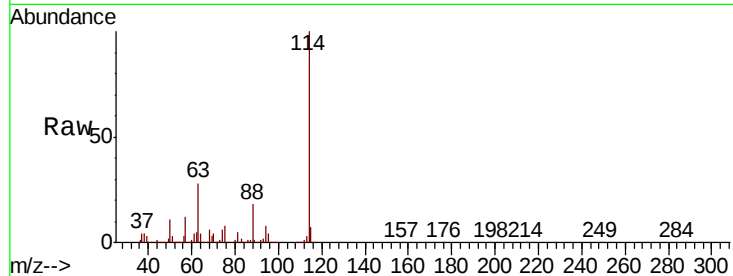
Tot Ion: 63 Resp: 842547

Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

62 16.3 52.8 79.2#

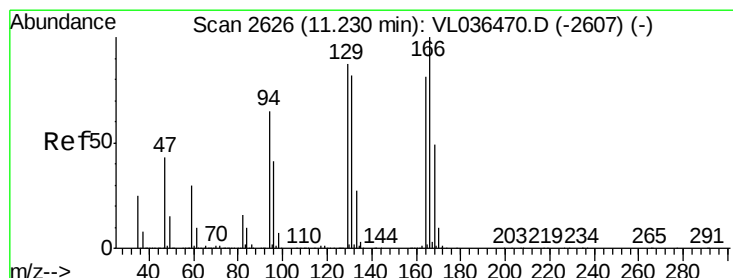
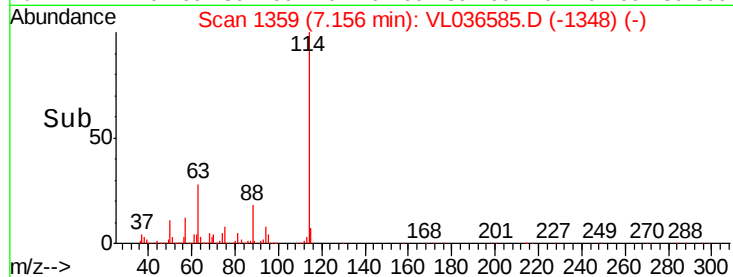
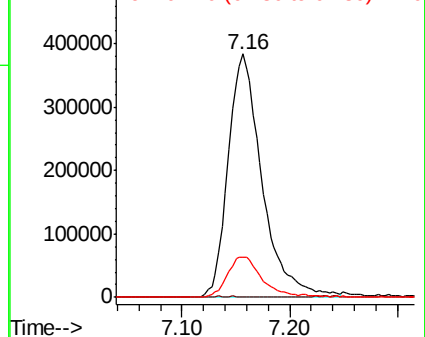


Abundance

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



#52

Tetrachloroethene

Concen: 0.070 ppbv

RT: 11.19 min Scan# 2614

Delta R.T. -0.04 min

Lab File: VL036585.D

Acq: 31 Mar 2021 1:10

Tgt Ion:164 Resp: 7374

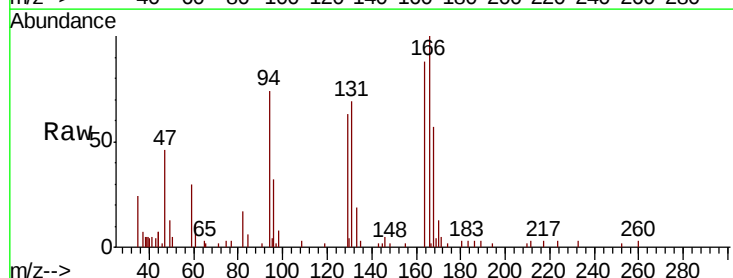
Ion Ratio Lower Upper

164 100

166 114.1 98.3 147.5

129 69.4 85.8 128.8#

131 71.4 80.9 121.3#



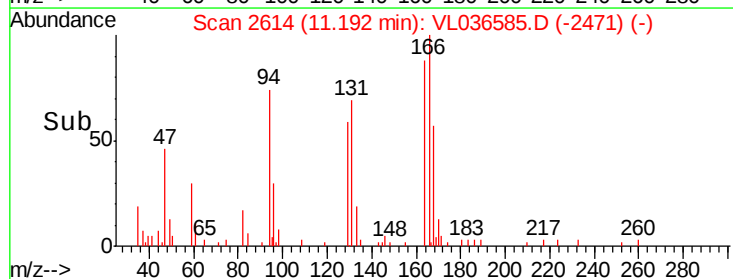
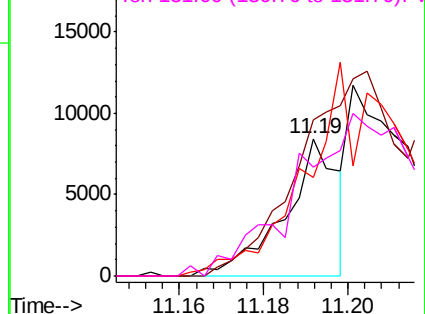
Abundance

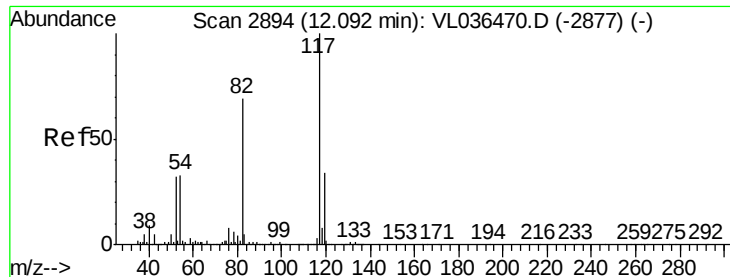
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

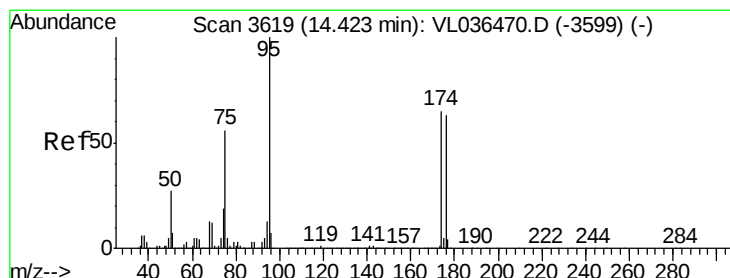
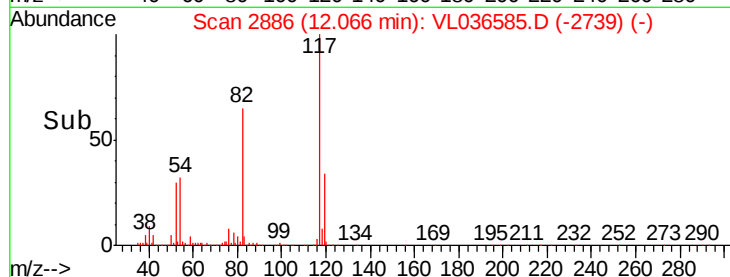
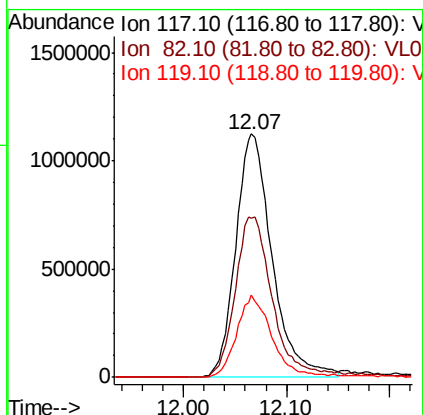
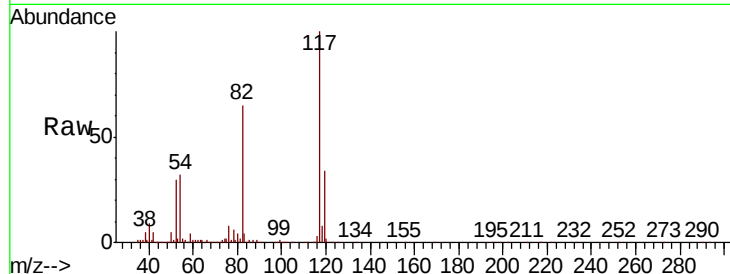




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. -0.03 min
Lab File: VL036585.D
Acq: 31 Mar 2021 1:10

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:117 Resp: 2761859
Ion Ratio Lower Upper
117 100
82 69.9 57.4 86.0
119 33.9 47.4 71.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.805 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. -0.03 min
Lab File: VL036585.D
Acq: 31 Mar 2021 1:10

Tgt Ion: 95 Resp: 2158260
Ion Ratio Lower Upper
95 100
174 66.4 51.0 76.6
175 4.8 3.9 5.9

