

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033021\
 Data File : VL036587.D
 Acq On : 31 Mar 2021 2:52
 Operator : SY/AP
 Sample : M1797-10DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 31 05:19:16 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	1259360	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2984108	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	2670473	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2041158	9.59	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.90%

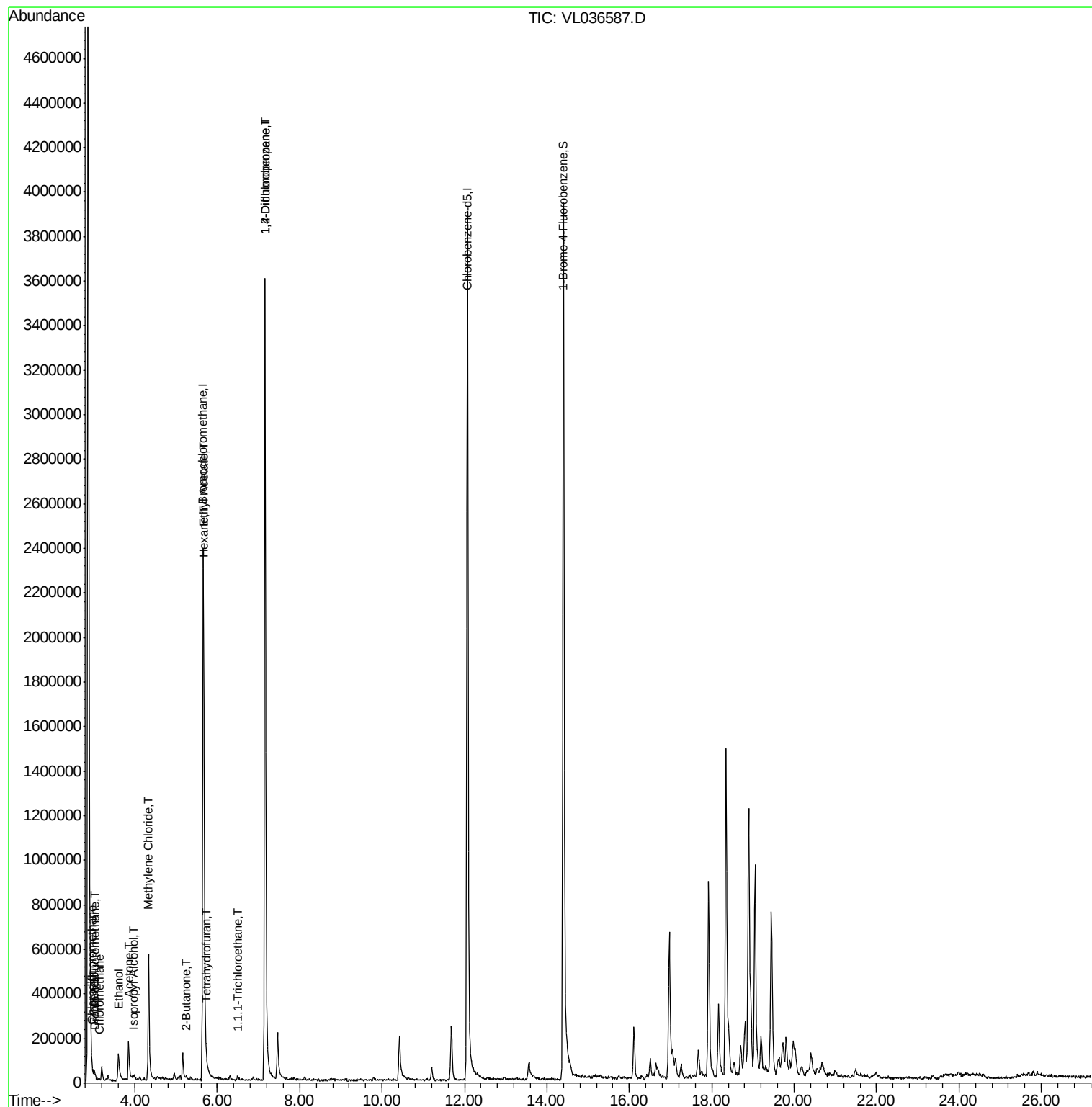
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	10860	0.053 ppbv	95
3) Chlorodifluoromethane	2.98	51	6465	0.027 ppbv	96
4) Chloromethane	3.13	50	1935	0.023 ppbv	98
9) Propene	3.01	41	12194	0.163 ppbv	96
13) Ethanol	3.59	45	52075	5.830 ppbv #	34
15) Acetone	3.84	43	207154	1.671 ppbv #	76
19) Isopropyl Alcohol	3.98	45	3626	0.053 ppbv #	89
20) Methylene Chloride	4.33	84	219235	3.778 ppbv	98
25) Ethyl Acetate	5.67	43	287348	0.975 ppbv #	78
26) Hexane	5.67	57	402679	2.945 ppbv #	47
32) 1,1,1-Trichloroethane	6.49	97	5403	0.025 ppbv #	42
34) 2-Butanone	5.23	43	3605	0.025 ppbv #	1
39) 1,2-Dichloropropane	7.16	63	777451	6.964 ppbv #	24
41) Tetrahydrofuran	5.74	42	1625	0.024 ppbv #	47

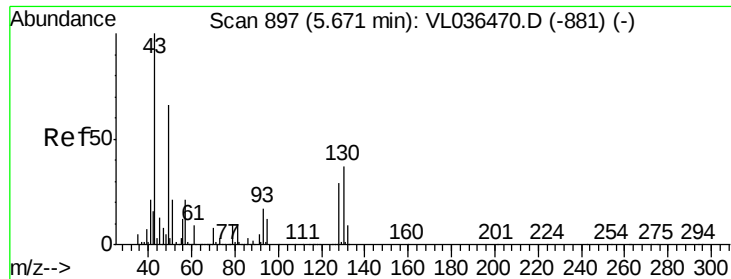
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VL036587.D

Acq: 31 Mar 2021 2:52

Instrument :

MSVOA_L

ClientSampleId :

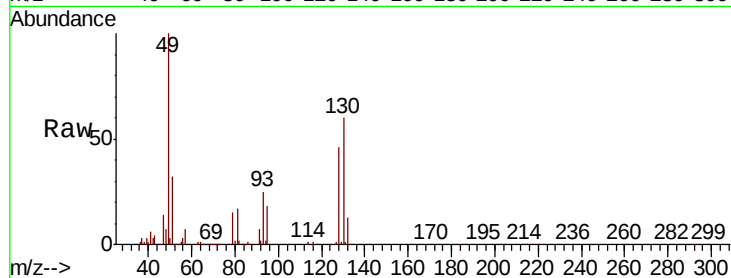
Tot Ion: 49 Resp: 1259360

Ion Ratio Lower Upper

49 100

128 46.8 23.5 70.6

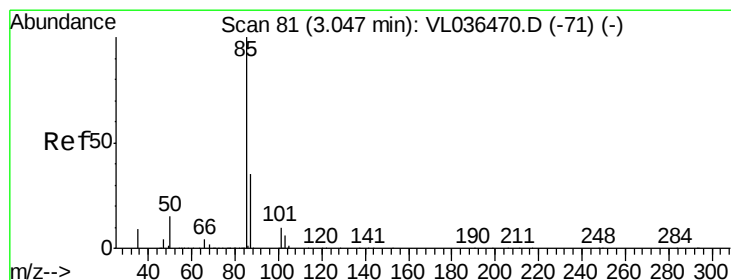
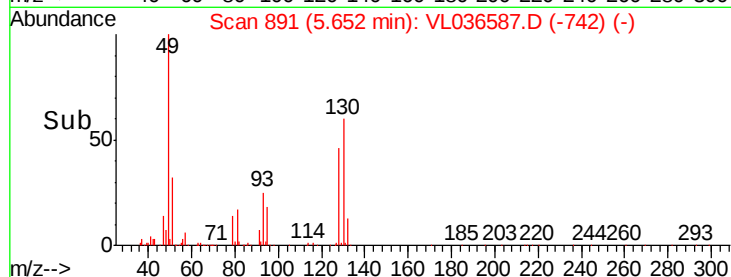
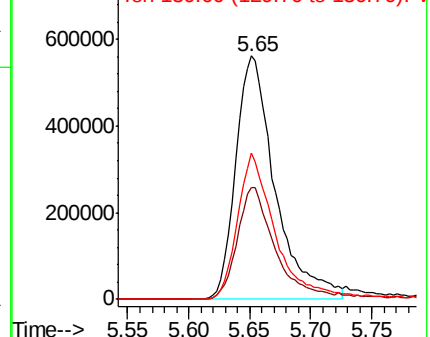
130 59.3 29.1 87.4



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: 3.04 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL036587.D

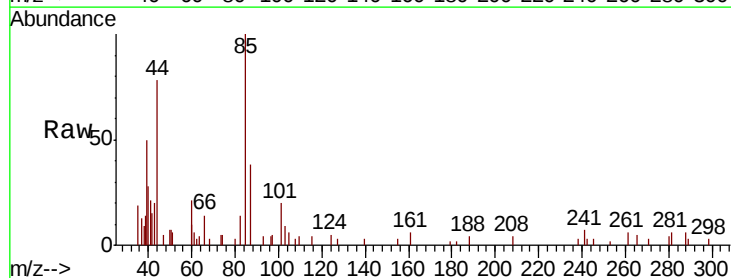
Acq: 31 Mar 2021 2:52

Tgt Ion: 85 Resp: 10860

Ion Ratio Lower Upper

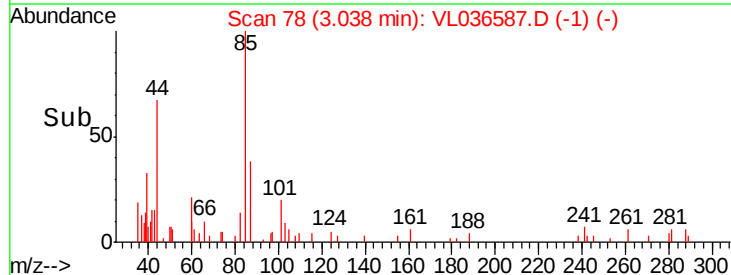
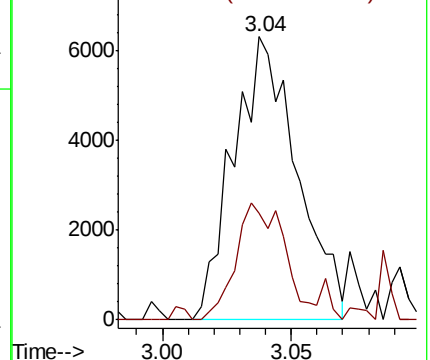
85 100

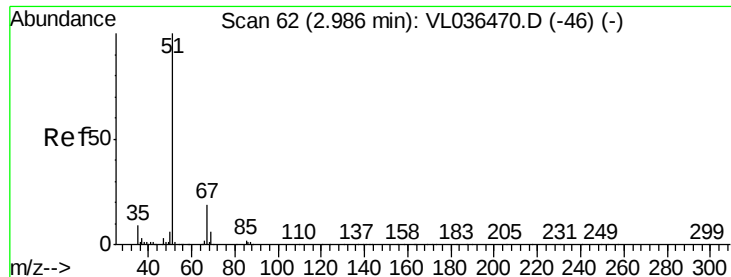
87 37.8 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.027 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.01 min

Lab File: VL036587.D

Acq: 31 Mar 2021 2:52

Instrument :

MSVOA_L

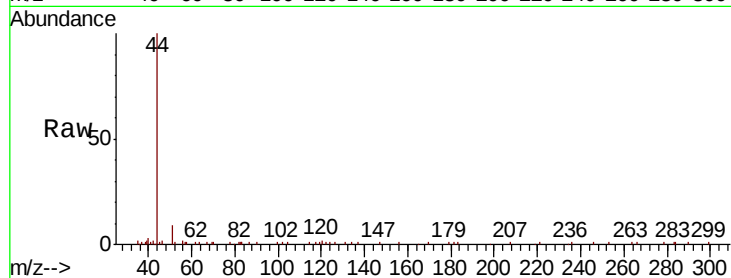
ClientSampleId :

Tot Ion: 51 Resp: 6465

Ion Ratio Lower Upper

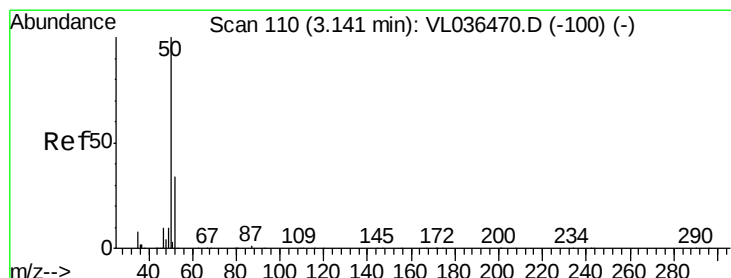
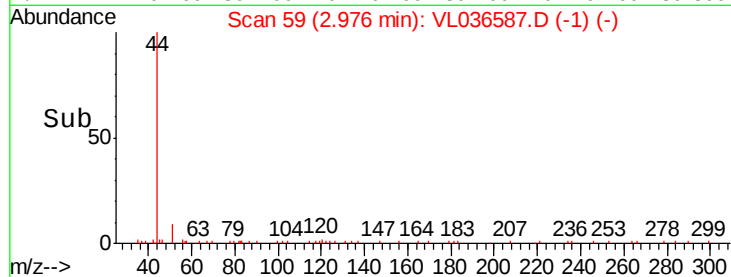
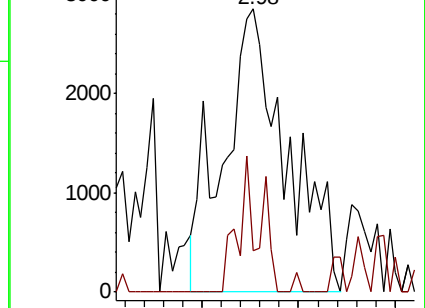
51 100

67 16.7 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.023 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.01 min

Lab File: VL036587.D

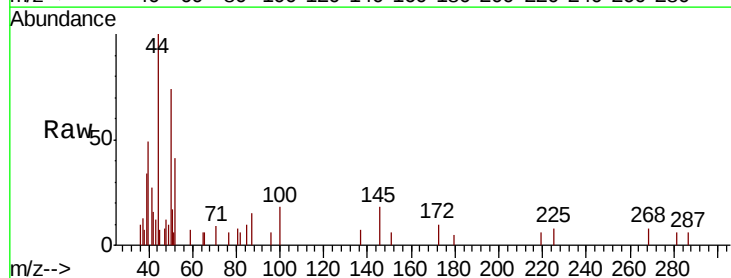
Acq: 31 Mar 2021 2:52

Tgt Ion: 50 Resp: 1935

Ion Ratio Lower Upper

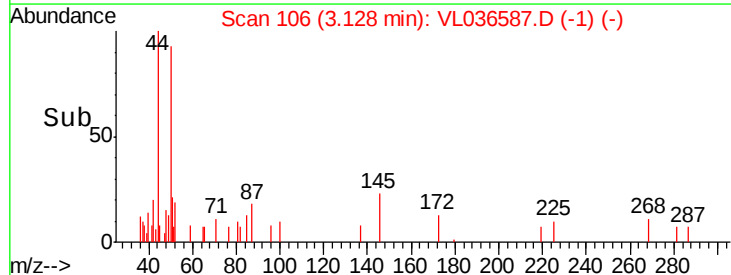
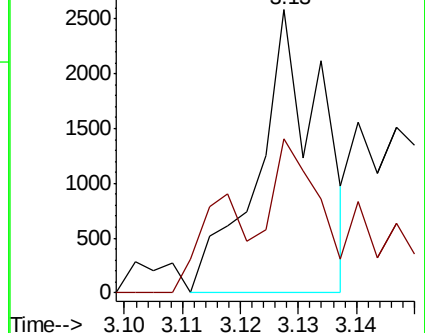
50 100

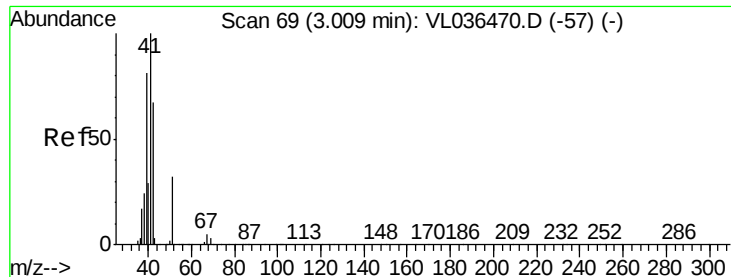
52 34.8 27.0 40.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.163 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL036587.D

Acq: 31 Mar 2021 2:52

Instrument :

MSVOA_L

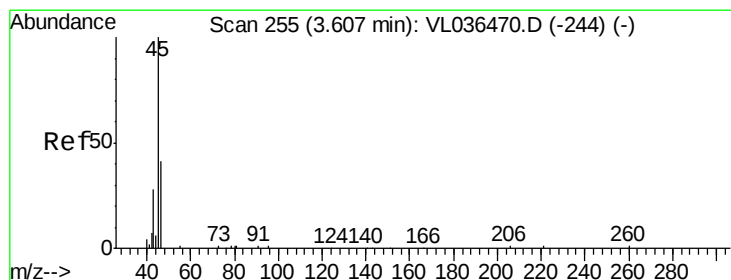
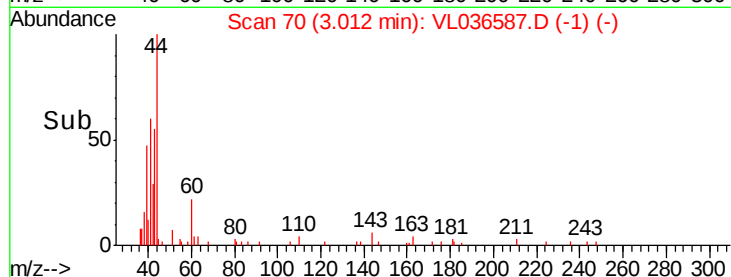
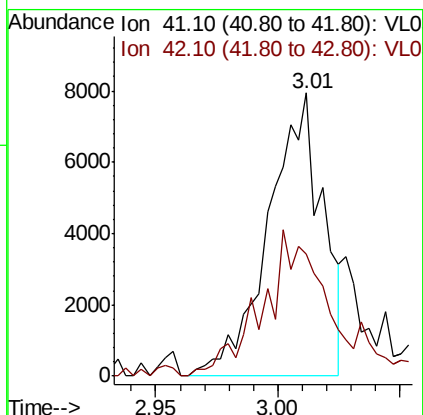
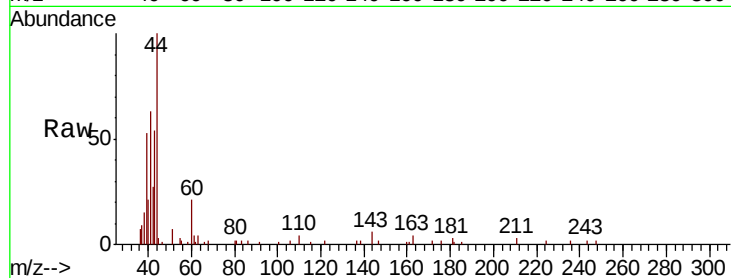
ClientSampleId :

Tot Ion: 41 Resp: 12194

Ion Ratio Lower Upper

41 100

42 68.0 57.0 85.4



#13

Ethanol

Concen: 5.830 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.02 min

Lab File: VL036587.D

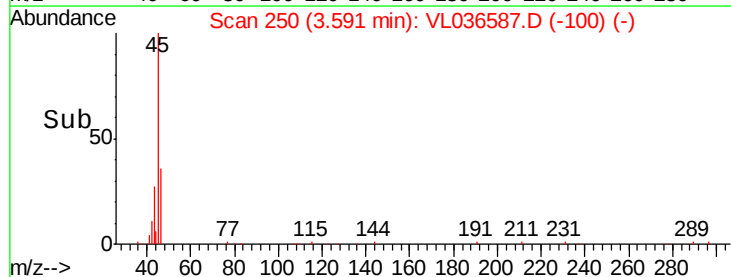
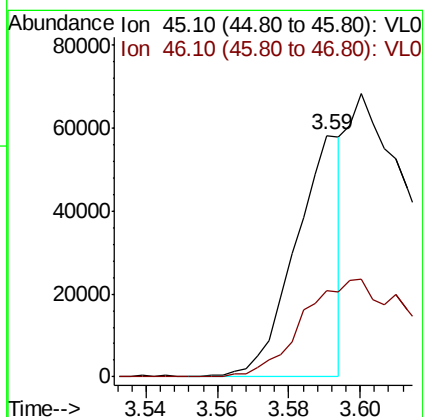
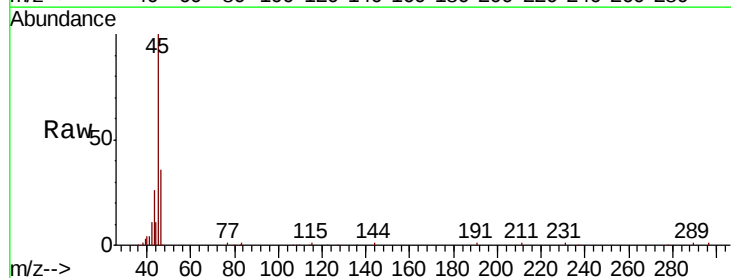
Acq: 31 Mar 2021 2:52

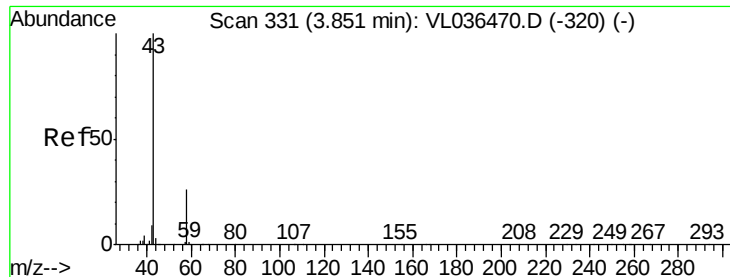
Tgt Ion: 45 Resp: 52075

Ion Ratio Lower Upper

45 100

46 0.0 16.6 66.2#

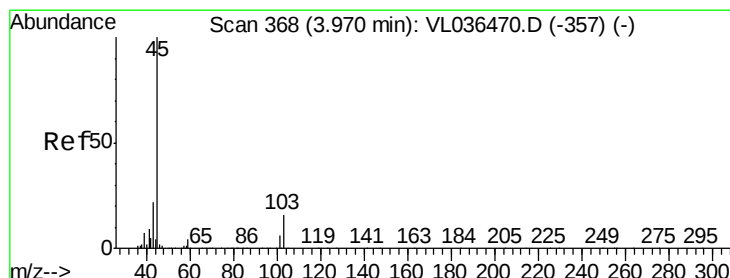
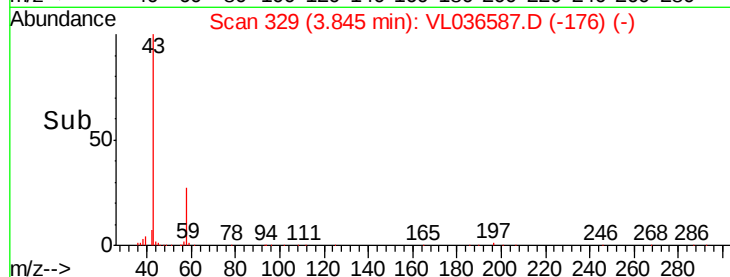
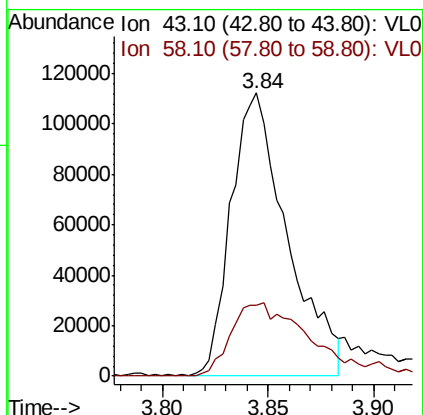
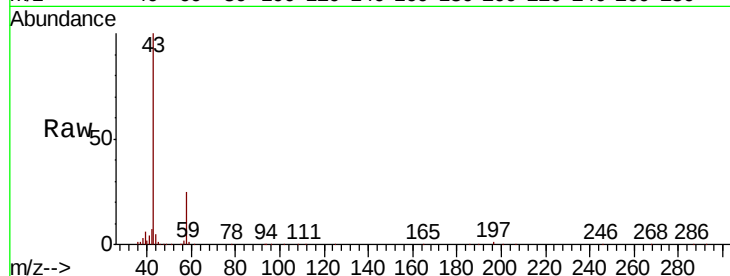




#15
Acetone
Concen: 1.671 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL036587.D
Acq: 31 Mar 2021 2:52

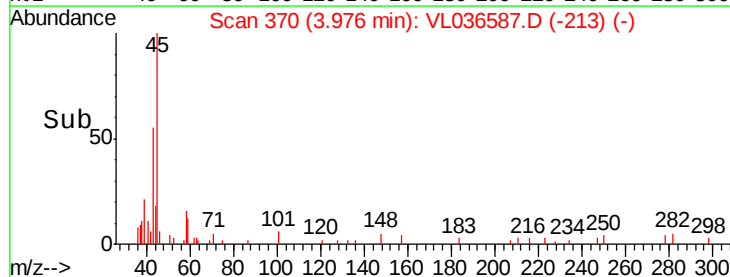
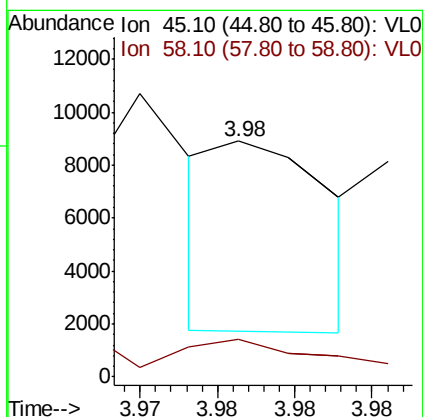
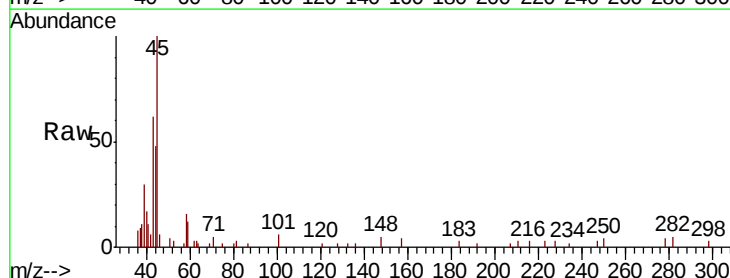
Instrument :
MSVOA_L
ClientSampleId :

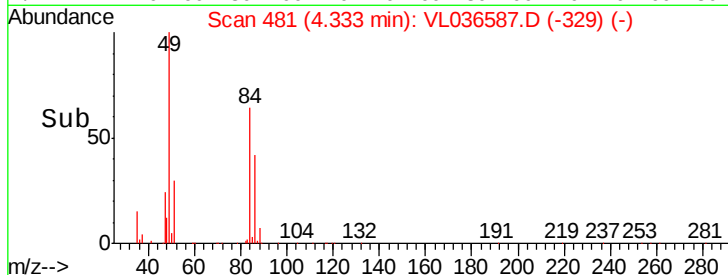
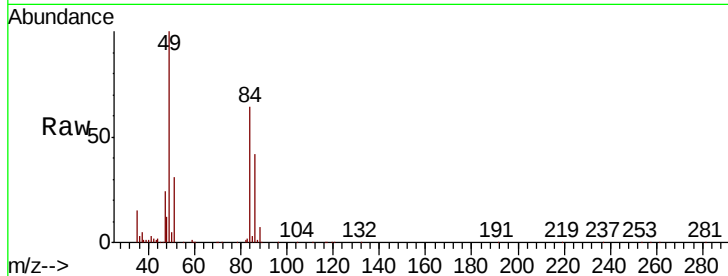
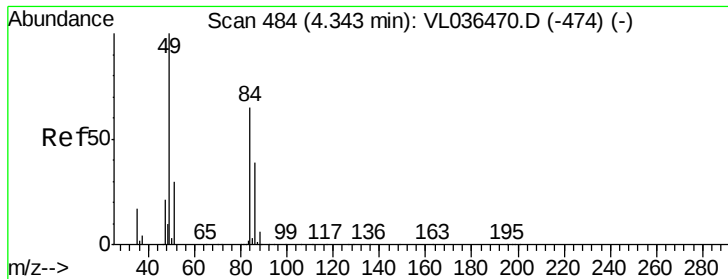
Tot Ion: 43 Resp: 207154
Ion Ratio Lower Upper
43 100
58 38.6 21.2 31.8#



#19
Isopropyl Alcohol
Concen: 0.053 ppbv
RT: 3.98 min Scan# 370
Delta R.T. 0.01 min
Lab File: VL036587.D
Acq: 31 Mar 2021 2:52

Tgt Ion: 45 Resp: 3626
Ion Ratio Lower Upper
45 100
58 0.0 2.9 4.3#

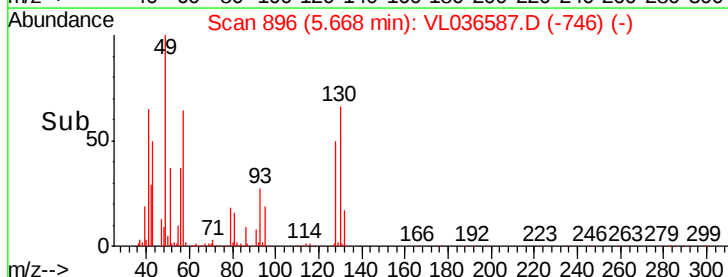
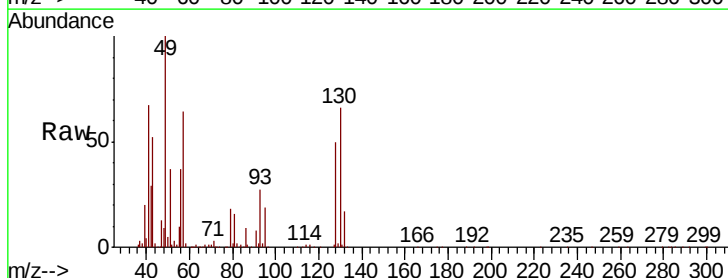
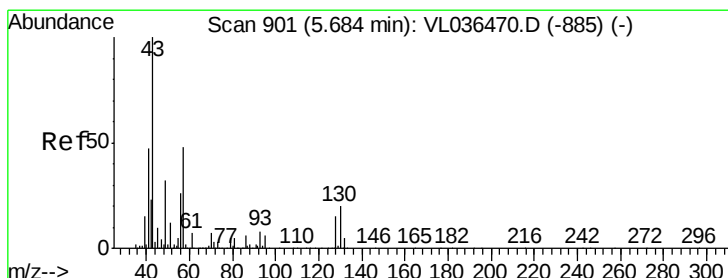
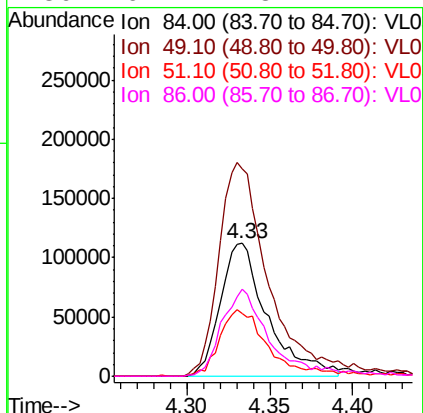




#20
Methvlene Chloride
Concen: 3.778 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.01 min
Lab File: VL036587.D
Acq: 31 Mar 2021 2:52

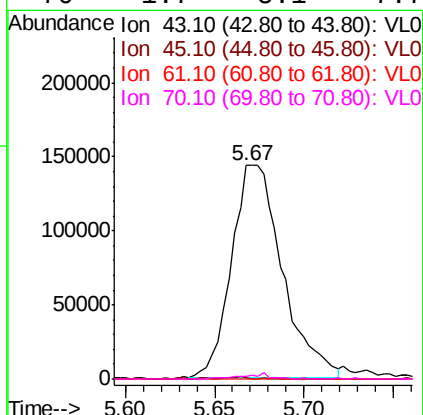
Instrument :
MSVOA_L
ClientSampled :

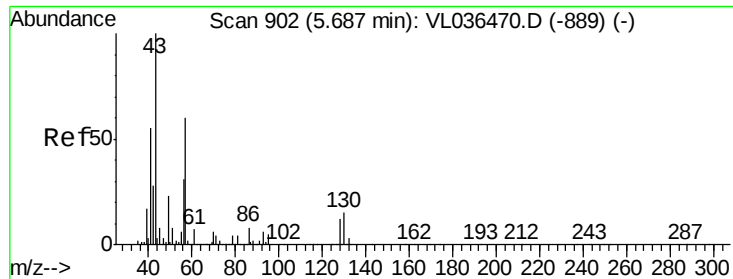
Tot Ion:	84	Resp:	219235
Ion	Ratio	Lower	Upper
84	100		
49	154.3	122.9	184.3
51	46.7	36.9	55.3
86	64.1	48.2	72.4



#25
Ethyl Acetate
Concen: 0.975 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL036587.D
Acq: 31 Mar 2021 2:52

Tgt Ion:	43	Resp:	287348
Ion	Ratio	Lower	Upper
43	100		
45	0.6	7.9	11.9#
61	0.3	7.4	11.2#
70	1.7	5.1	7.7#

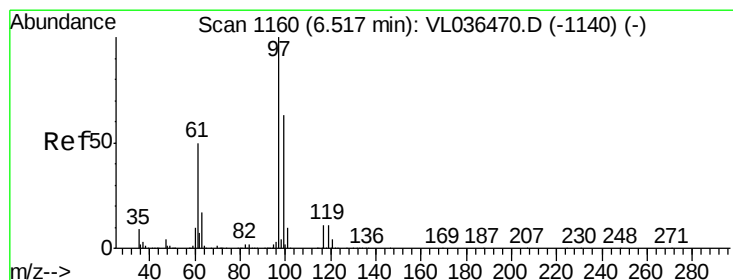
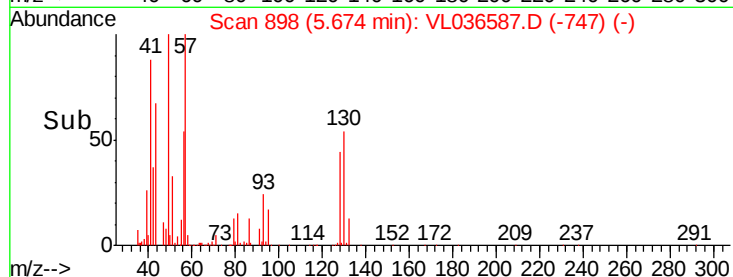
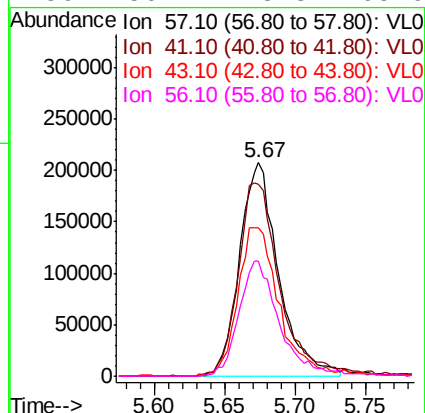
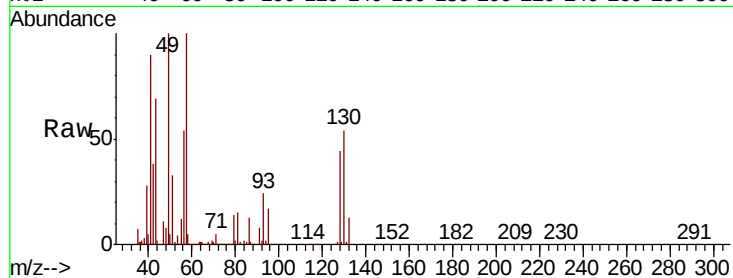




#26
Hexane
Concen: 2.945 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL036587.D
Acq: 31 Mar 2021 2:52

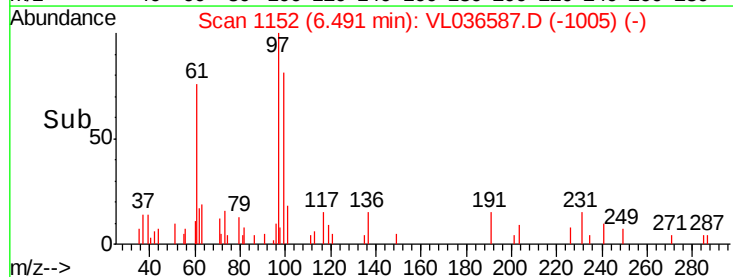
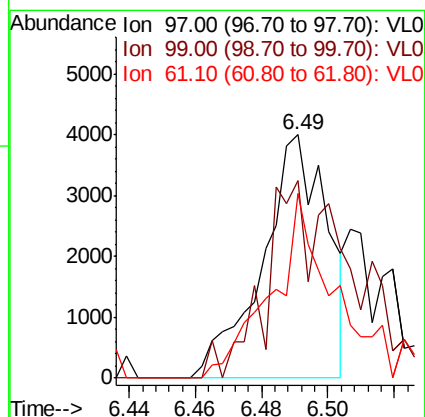
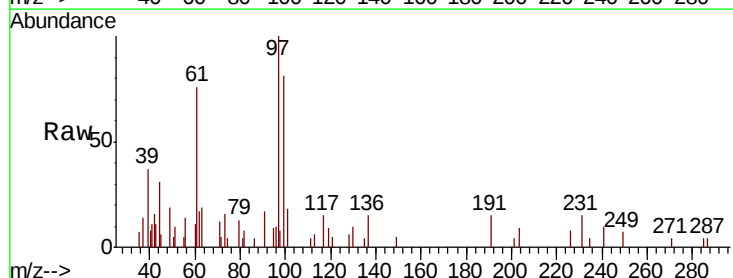
Instrument :
MSVOA_L
ClientSampleId :

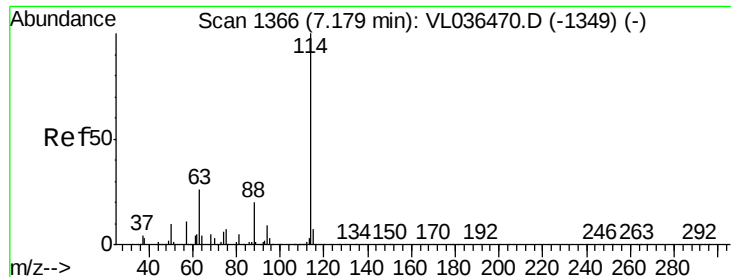
Tot Ion:	57	Resp:	402679
Ion	Ratio	Lower	Upper
57	100		
41	98.2	77.2	115.8
43	76.2	173.8	260.6#
56	56.7	43.8	65.6



#32
1,1,1-Trichloroethane
Concen: 0.025 ppbv
RT: 6.49 min Scan# 1152
Delta R.T. -0.03 min
Lab File: VL036587.D
Acq: 31 Mar 2021 2:52

Tgt Ion:	97	Resp:	5403
Ion	Ratio	Lower	Upper
97	100		
99	115.8	51.4	77.0#
61	84.5	40.6	60.8#

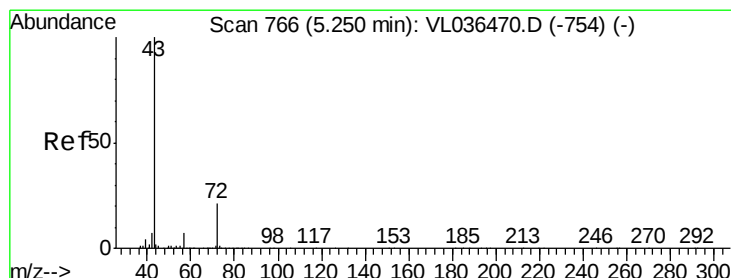
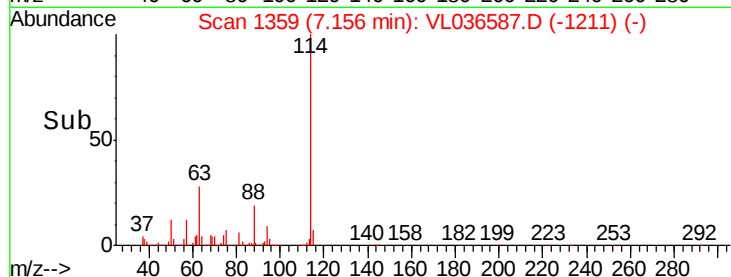
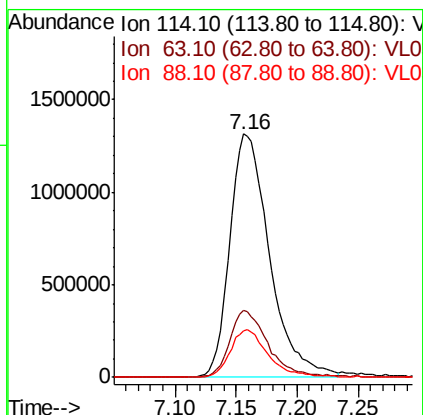
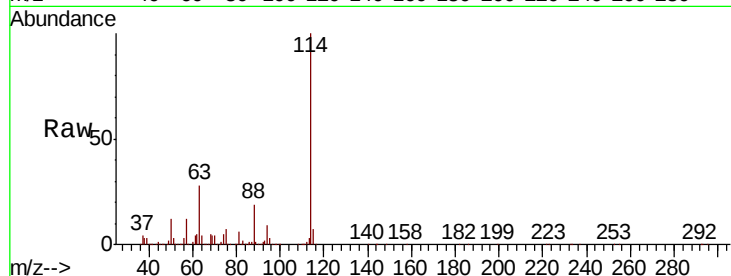




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.02 min
 Lab File: VL036587.D
 Acq: 31 Mar 2021 2:52

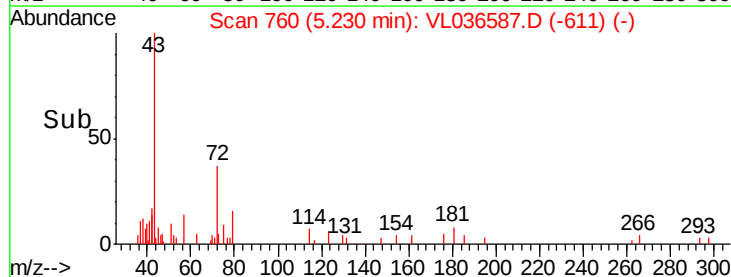
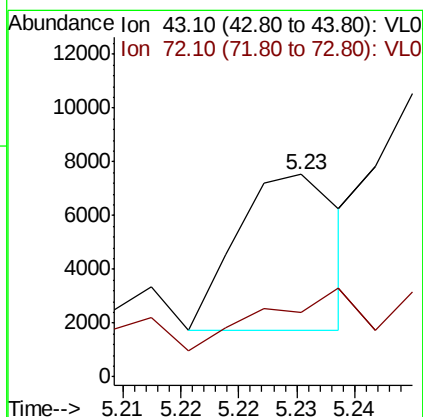
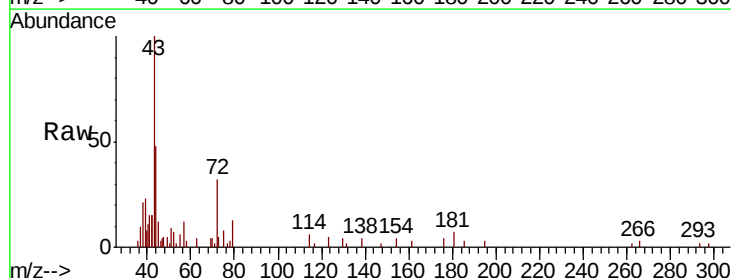
Instrument :
 MSVOA_L
 ClientSampleId :

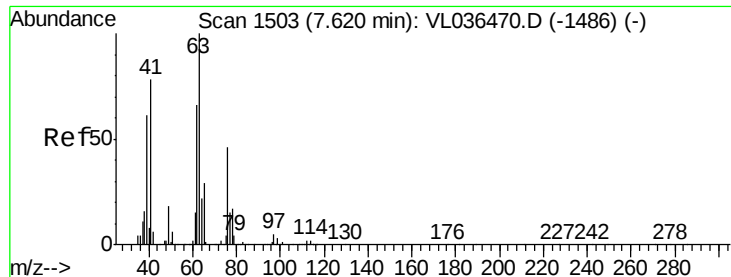
Tot Ion:114 Resp: 2984108
 Ion Ratio Lower Upper
 114 100
 63 27.2 22.4 33.6
 88 18.9 15.4 23.0



#34
 2-Butanone
 Concen: 0.025 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.02 min
 Lab File: VL036587.D
 Acq: 31 Mar 2021 2:52

Tgt Ion: 43 Resp: 3605
 Ion Ratio Lower Upper
 43 100
 72 130.0 17.0 25.6#





#39

1,2-Dichloropropane

Concen: 6.964 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.46 min

Lab File: VL036587.D

Acq: 31 Mar 2021 2:52

Instrument :

MSVOA_L

ClientSampleId :

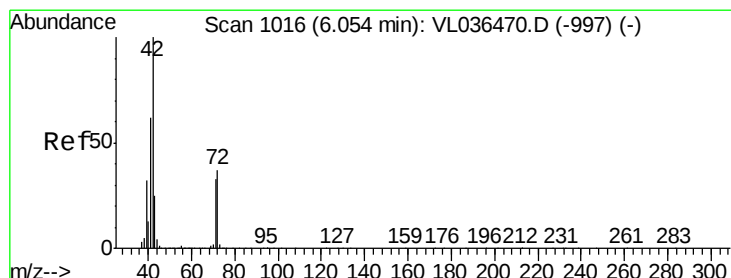
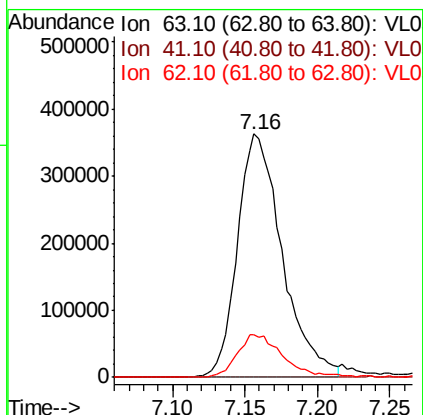
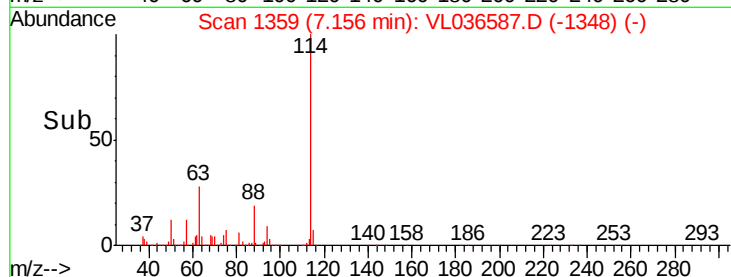
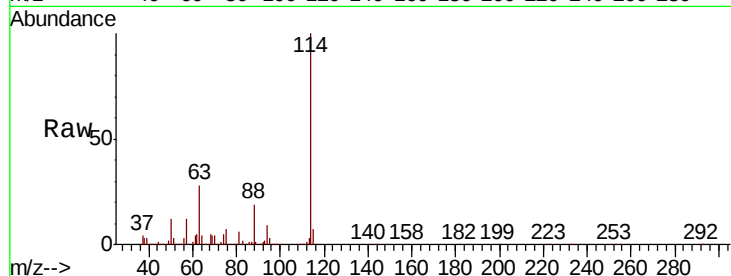
Tot Ion: 63 Resp: 777451

Ion Ratio Lower Upper

63 100

41 0.1 62.4 93.6#

62 17.6 52.8 79.2#



#41

Tetrahydrofuran

Concen: 0.024 ppbv

RT: 5.74 min Scan# 917

Delta R.T. -0.32 min

Lab File: VL036587.D

Acq: 31 Mar 2021 2:52

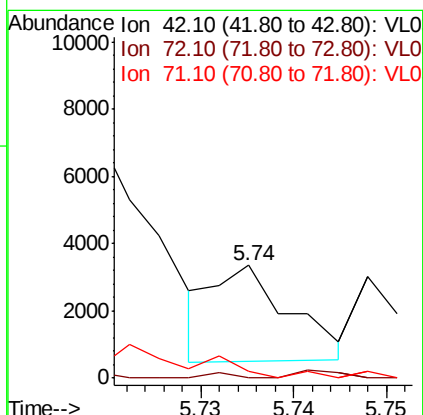
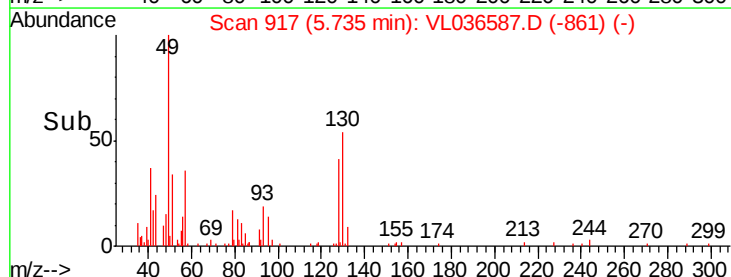
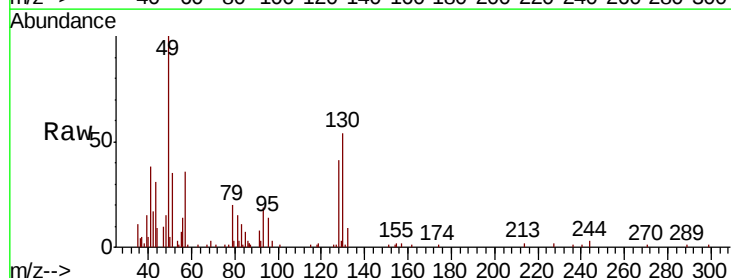
Tgt Ion: 42 Resp: 1625

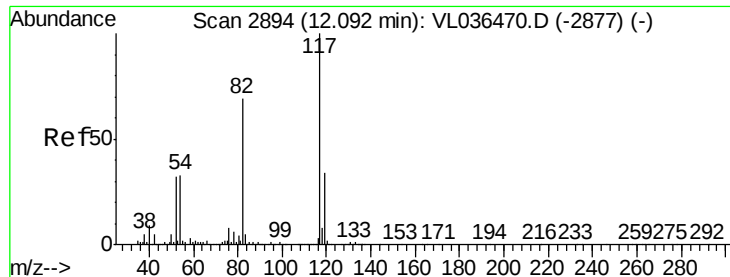
Ion Ratio Lower Upper

42 100

72 7.5 27.6 41.4#

71 0.0 27.0 40.4#

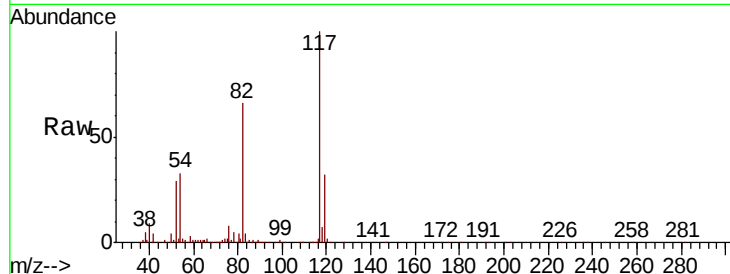




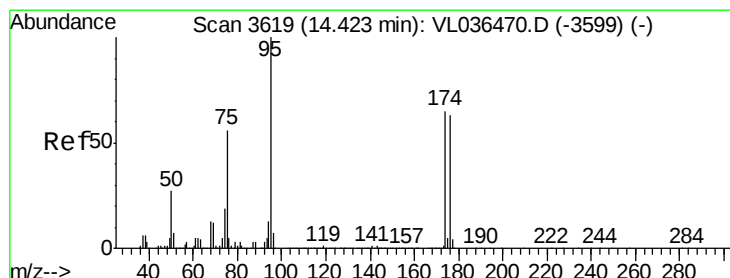
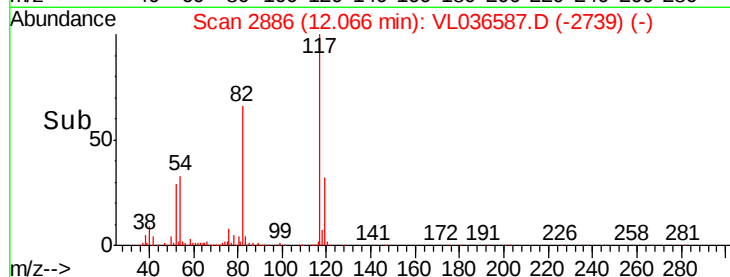
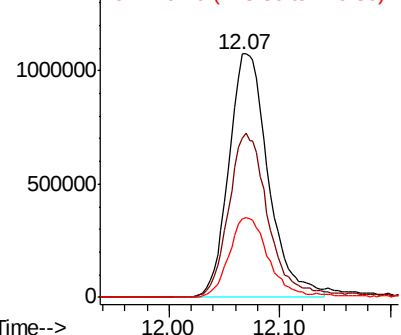
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. -0.03 min
Lab File: VL036587.D
Acq: 31 Mar 2021 2:52

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 2670473
Ion Ratio Lower Upper
117 100
82 70.0 57.4 86.0
119 33.6 47.4 71.0#

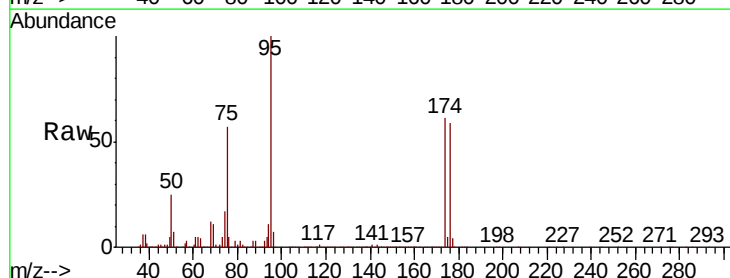


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 9.590 ppbv
RT: 14.40 min Scan# 3613
Delta R.T. -0.02 min
Lab File: VL036587.D
Acq: 31 Mar 2021 2:52

Tgt Ion: 95 Resp: 2041158
Ion Ratio Lower Upper
95 100
174 68.4 51.0 76.6
175 5.2 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

