

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040621\
 Data File : VL036712.D
 Acq On : 7 Apr 2021 00:26
 Operator : SY/AP
 Sample : M1977-08 2X
 Misc : 400mL/MSVOA L
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 UP-SG-5(2021)DL

Quant Time: Apr 07 04:29:52 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	5.67	49	1233601	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3114097	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2751931	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2043697	9.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.20%

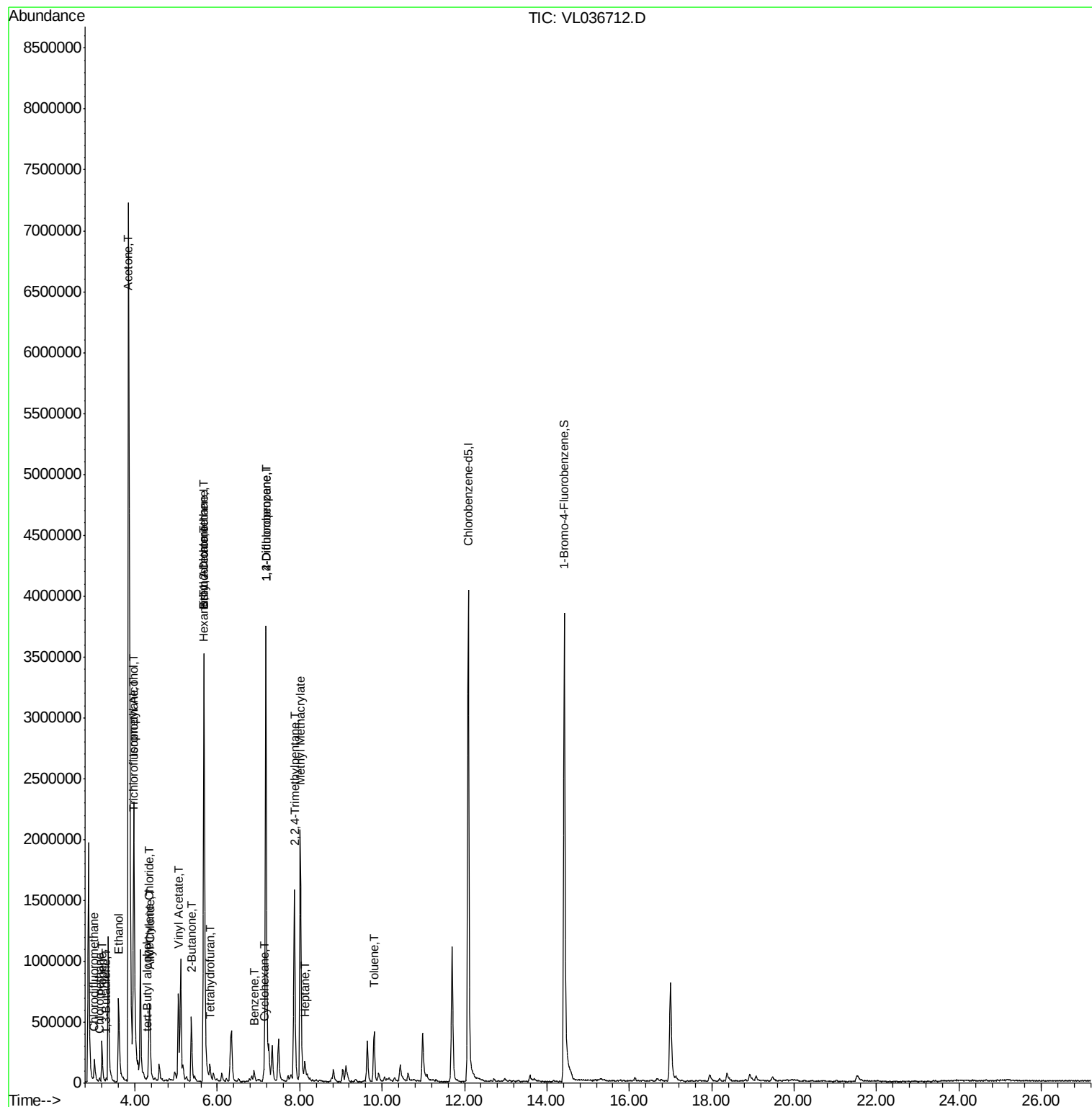
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.99	51	36856	0.160 ppbv	94
4) Chloromethane	3.14	50	26647	0.327 ppbv	93
9) Propene	3.20	41	98896	1.346 ppbv	94
10) Heptane	8.13	43	26703	0.143 ppbv #	28
11) Trichlorofluoromethane	3.95	101	18908	0.092 ppbv	90
13) Ethanol	3.60	45	896710	102.483 ppbv	92
15) Acetone	3.84	43	10996386	90.568 ppbv	99
16) 1,3-Butadiene	3.30	39	8253	0.098 ppbv #	17
17) tert-Butyl alcohol	4.30	59	3416	0.032 ppbv #	72
19) Isopropyl Alcohol	3.97	45	3269761	48.956 ppbv #	98
20) Methylene Chloride	4.34	84	221863	3.903 ppbv	94
21) Allyl Chloride	4.37	41	20939	0.216 ppbv #	17
23) Vinyl Acetate	5.06	43	368610	1.775 ppbv #	1
25) Ethyl Acetate	5.67	43	1587645	5.500 ppbv #	94
26) Hexane	5.69	57	360300	2.690 ppbv #	8
30) Cyclohexane	7.13	84	25753	0.237 ppbv #	24
31) cis-1,2-Dichloroethene	5.67	61	83785	0.647 ppbv #	28
34) 2-Butanone	5.37	43	38580	0.254 ppbv #	60
36) Benzene	6.89	78	40418	0.141 ppbv #	90
39) 1,2-Dichloropropane	7.18	63	801998	6.884 ppbv #	23
41) Tetrahydrofuran	5.82	42	3492	0.050 ppbv #	43
43) Methyl Methacrylate	8.01	69	829085	8.597 ppbv	96
44) 2,2,4-Trimethylpentane	7.87	57	1613712	3.192 ppbv	99
53) Toluene	9.81	91	76039	0.249 ppbv	99

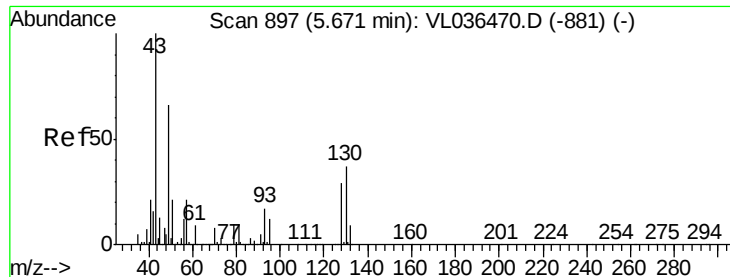
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL036712.D

Acq: 7 Apr 2021 00:26

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-5(2021)DL

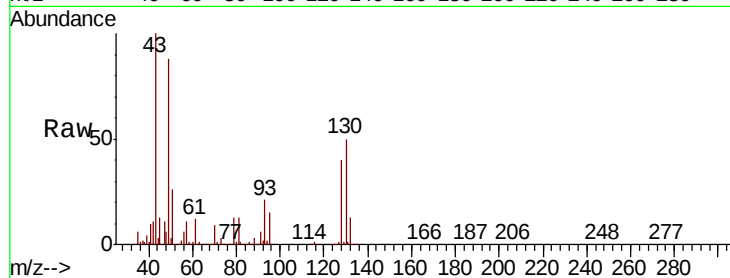
Tot Ion: 49 Resp: 1233601

Ion Ratio Lower Upper

49 100

128 48.7 23.5 70.6

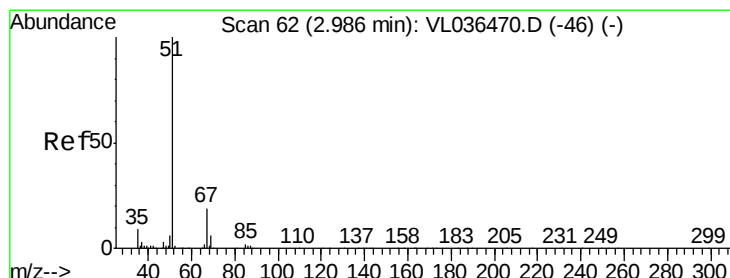
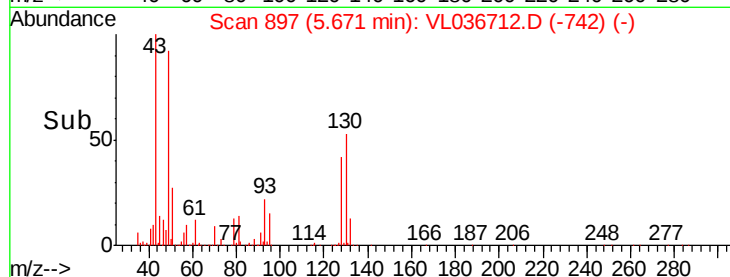
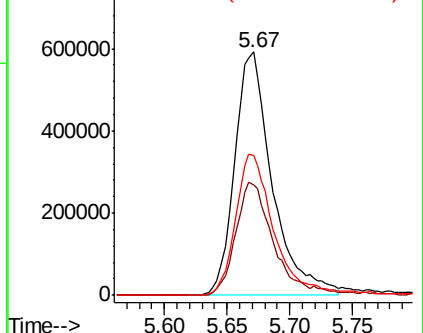
130 60.3 29.1 87.4



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: 0.160 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL036712.D

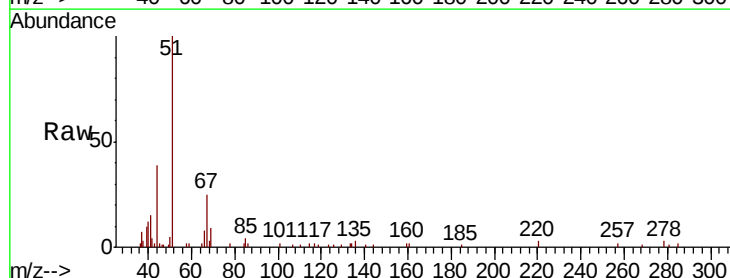
Acq: 7 Apr 2021 00:26

Tgt Ion: 51 Resp: 36856

Ion Ratio Lower Upper

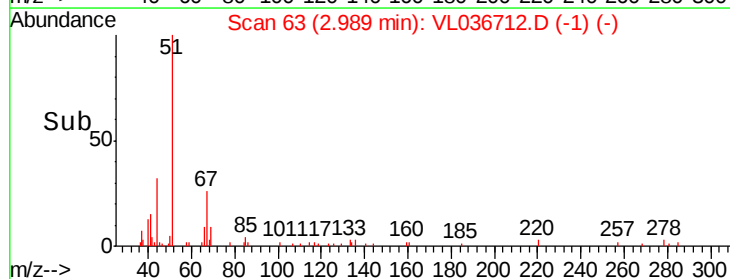
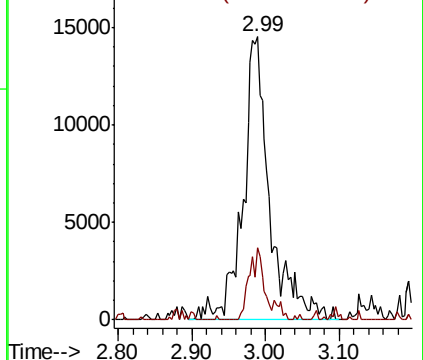
51 100

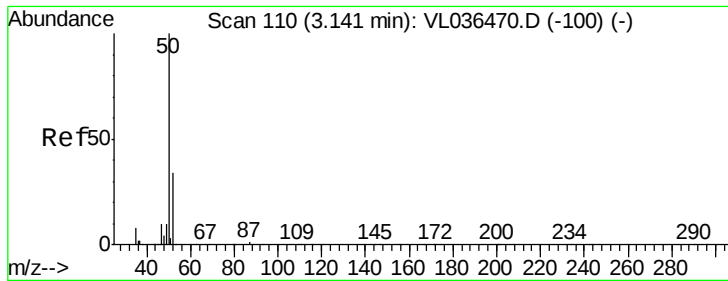
67 15.8 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.327 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL036712.D

Acq: 7 Apr 2021 00:26

Instrument :

MSVOA_L

ClientSampleId :

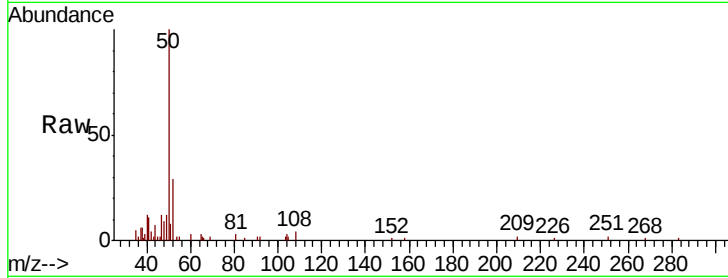
UP-SG-5(2021)DL

Tot Ion: 50 Resp: 26647

Ion Ratio Lower Upper

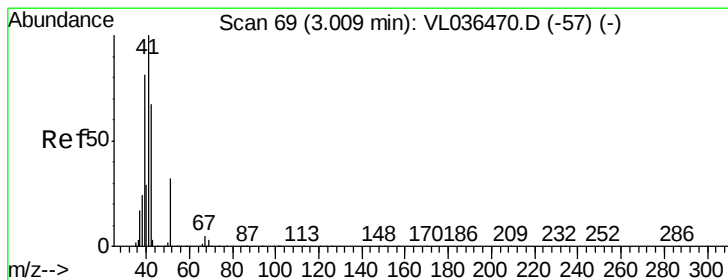
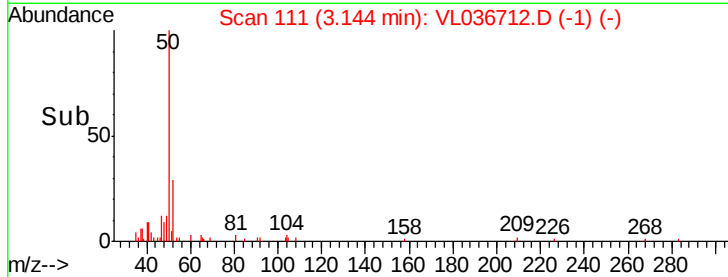
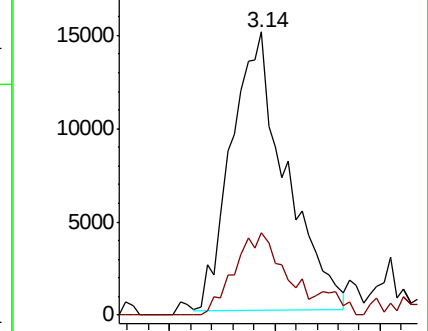
50 100

52 29.8 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: 1.346 ppbv

RT: 3.20 min Scan# 129

Delta R.T. 0.19 min

Lab File: VL036712.D

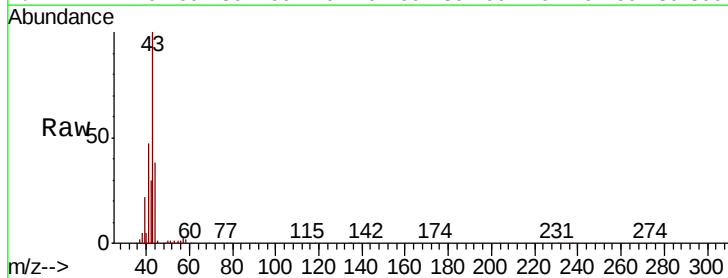
Acq: 7 Apr 2021 00:26

Tgt Ion: 41 Resp: 98896

Ion Ratio Lower Upper

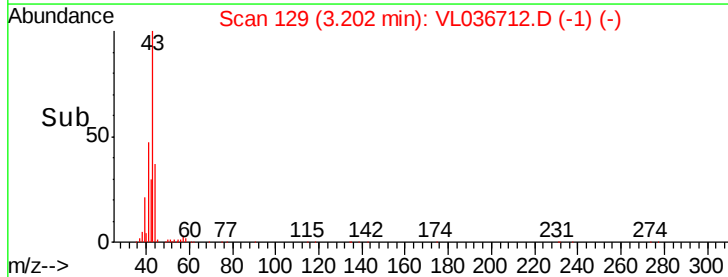
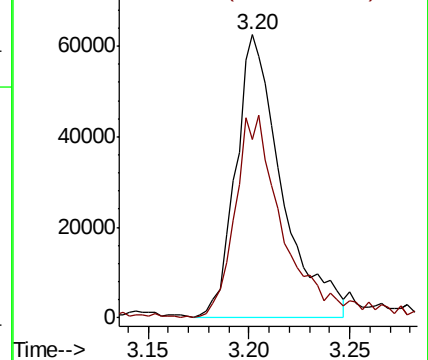
41 100

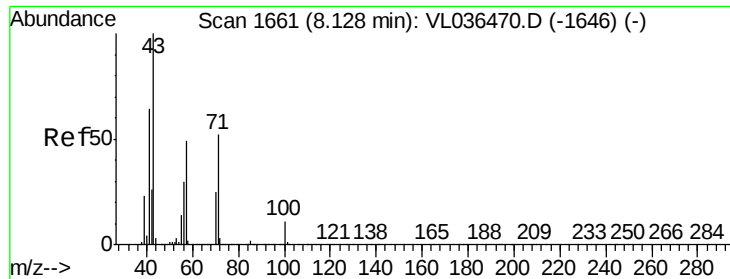
42 75.9 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

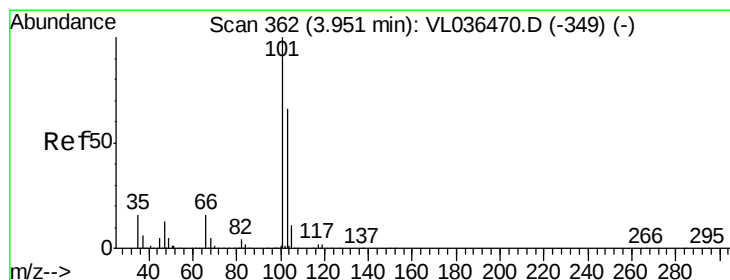
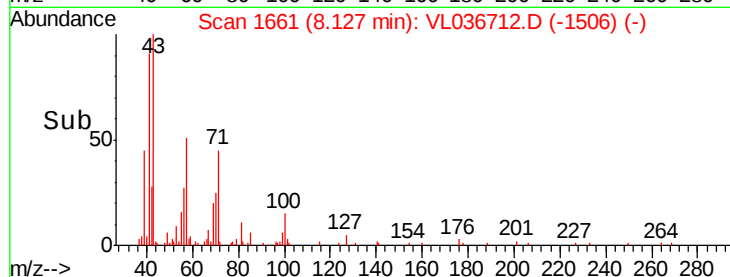
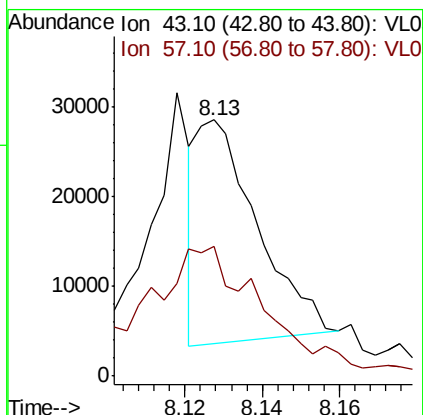
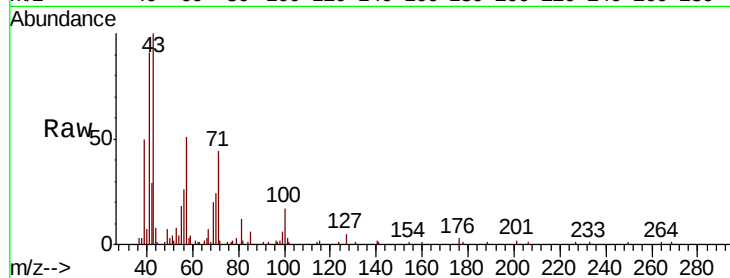




#10
Heptane
Concen: 0.143 ppbv
RT: 8.13 min Scan# 1661
Delta R.T. -0.00 min
Lab File: VL036712.D
Acq: 7 Apr 2021 00:26

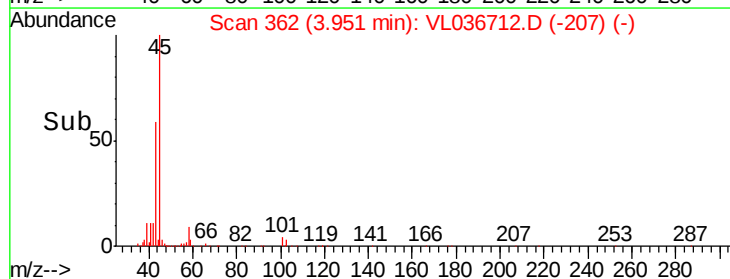
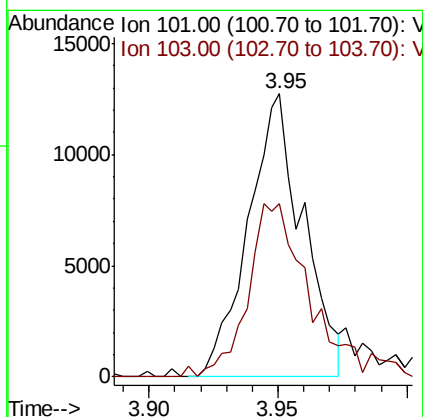
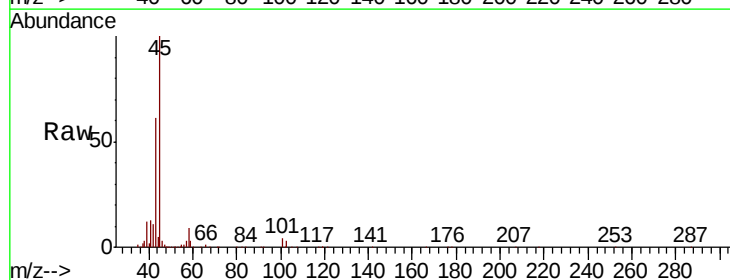
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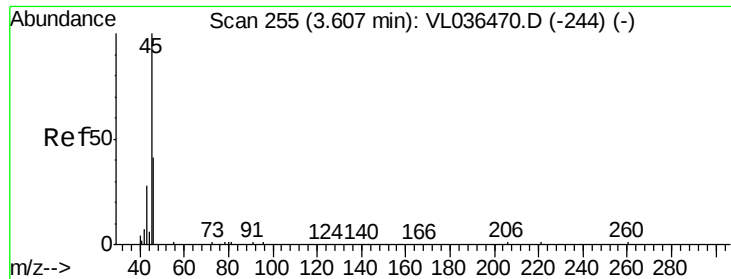
Tot Ion: 43 Resp: 26703
Ion Ratio Lower Upper
43 100
57 0.0 39.0 58.6#



#11
Trichlorofluoromethane
Concen: 0.092 ppbv
RT: 3.95 min Scan# 362
Delta R.T. -0.00 min
Lab File: VL036712.D
Acq: 7 Apr 2021 00:26

Tgt Ion:101 Resp: 18908
Ion Ratio Lower Upper
101 100
103 57.5 52.5 78.7

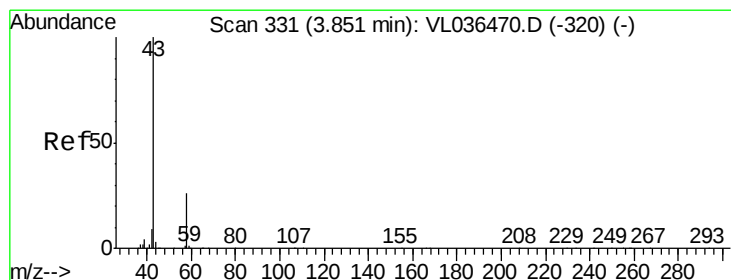
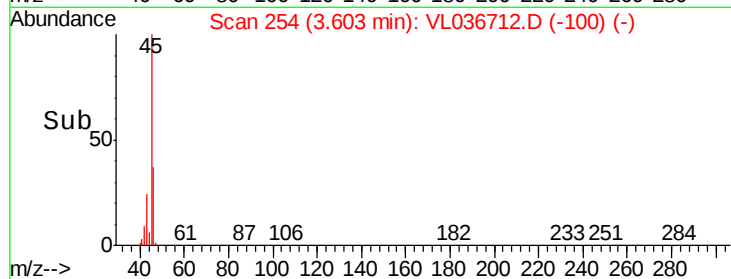
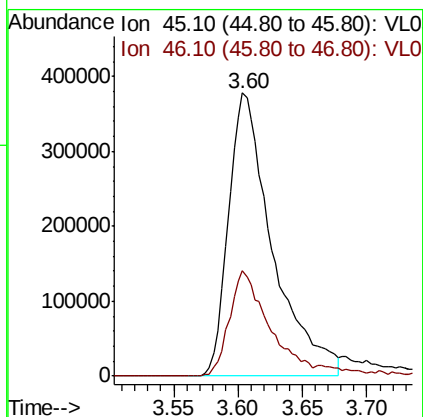
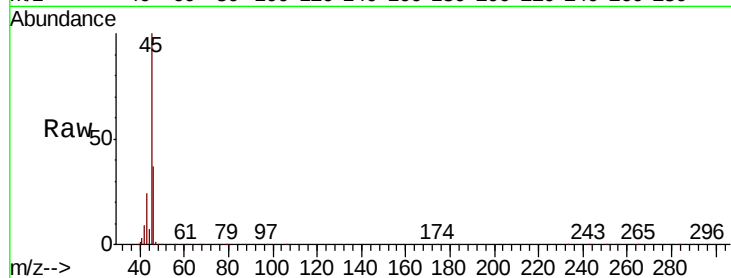




#13
Ethanol
Concen: 102.483 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.00 min
Lab File: VL036712.D
Acq: 7 Apr 2021 00:26

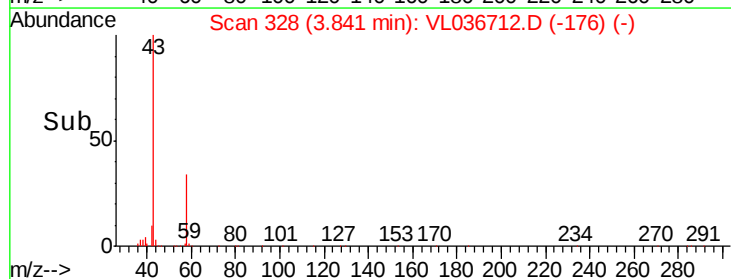
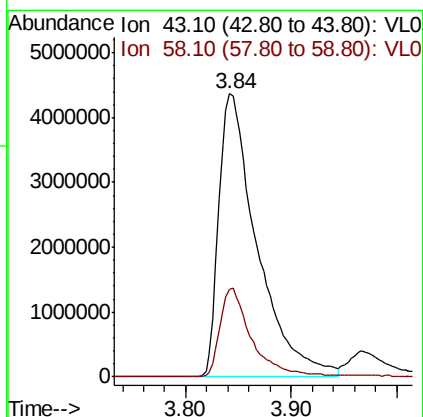
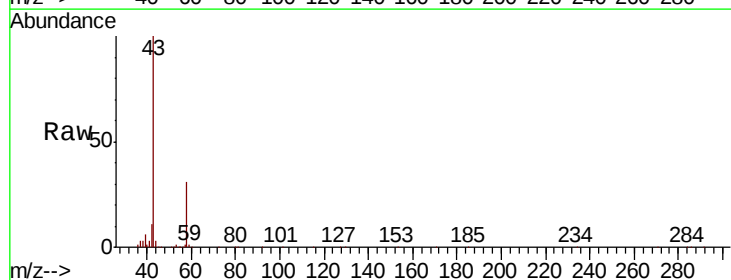
Instrument :
MSVOA_L
ClientSampleId :
UP-SG-5(2021)DL

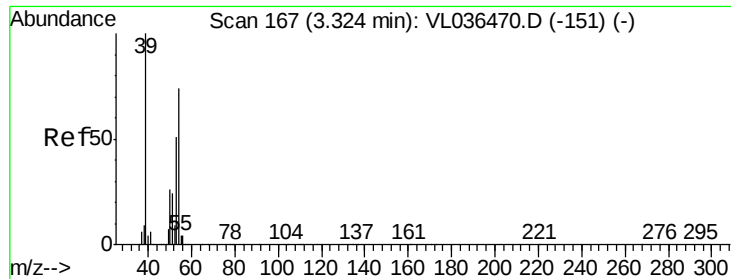
Tot Ion: 45 Resp: 896710
Ion Ratio Lower Upper
45 100
46 36.6 16.6 66.2



#15
Acetone
Concen: 90.568 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL036712.D
Acq: 7 Apr 2021 00:26

Tgt Ion: 43 Resp:10996386
Ion Ratio Lower Upper
43 100
58 26.1 21.2 31.8

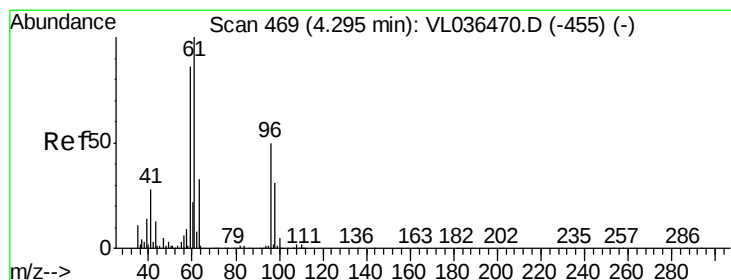
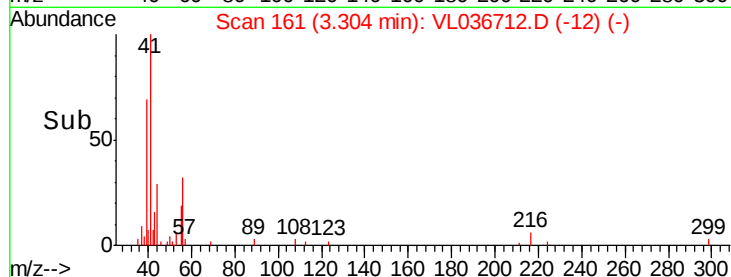
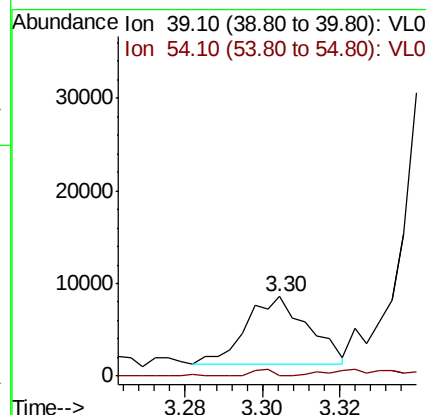
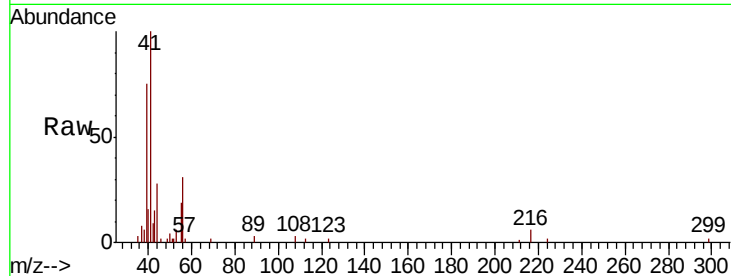




#16
 1,3-Butadiene
 Concen: 0.098 ppbv
 RT: 3.30 min Scan# 161
 Delta R.T. -0.02 min
 Lab File: VL036712.D
 Acq: 7 Apr 2021 00:26

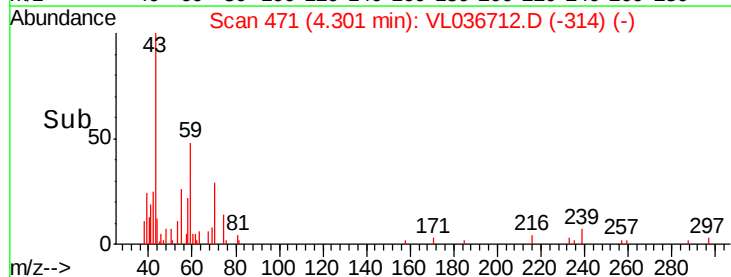
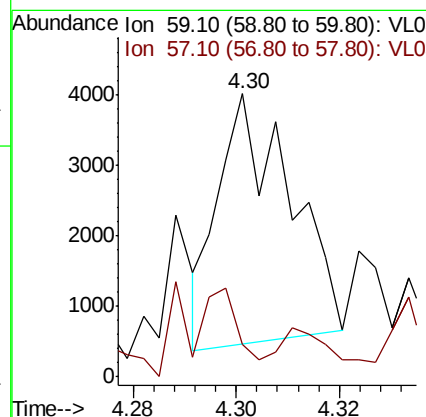
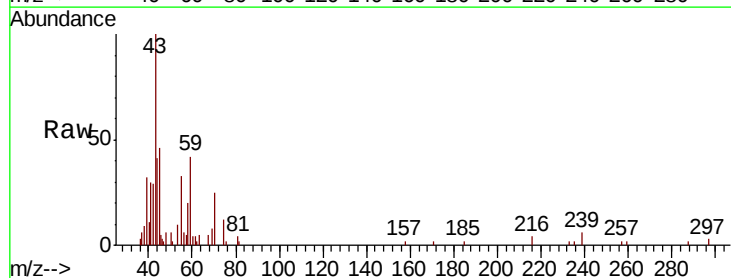
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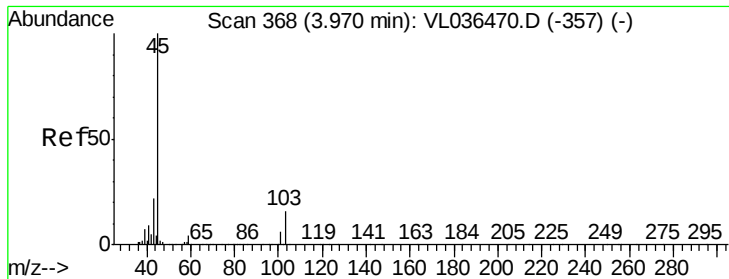
Tot Ion: 39 Resp: 8253
 Ion Ratio Lower Upper
 39 100
 54 3.6 58.8 88.2#



#17
 tert-Butyl alcohol
 Concen: 0.032 ppbv
 RT: 4.30 min Scan# 471
 Delta R.T. 0.01 min
 Lab File: VL036712.D
 Acq: 7 Apr 2021 00:26

Tgt Ion: 59 Resp: 3416
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.6 12.8#



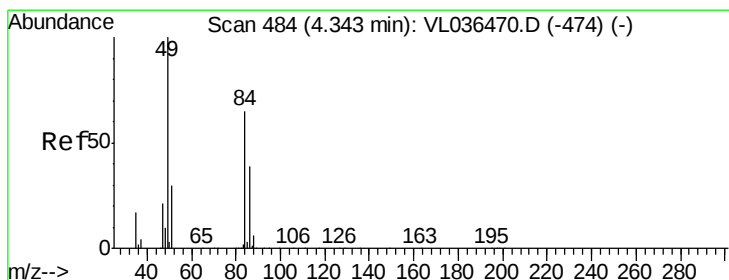
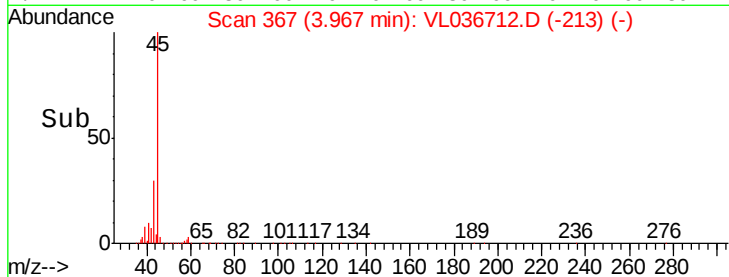
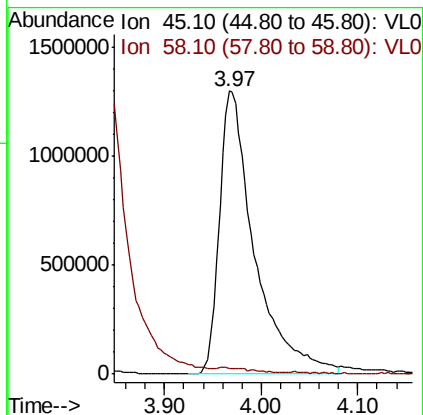
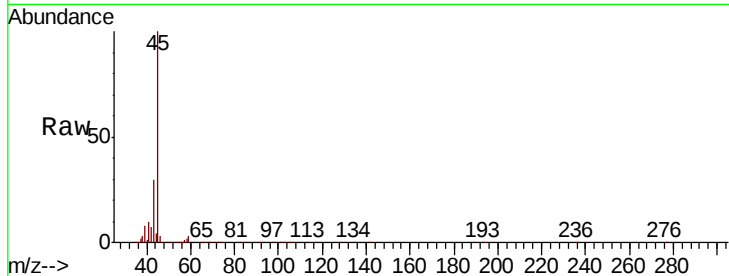


#19

Isopropyl Alcohol
 Concen: 48.956 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. -0.00 min
 Lab File: VL036712.D
 Acq: 7 Apr 2021 00:26

Instrument :
 MSVOA_L
 ClientSampleId :
 UP-SG-5(2021)DL

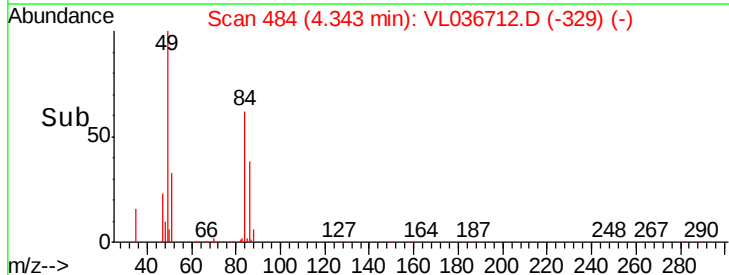
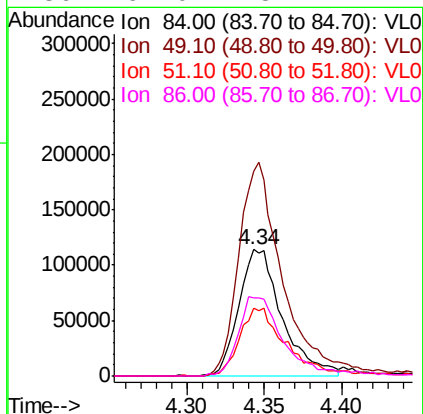
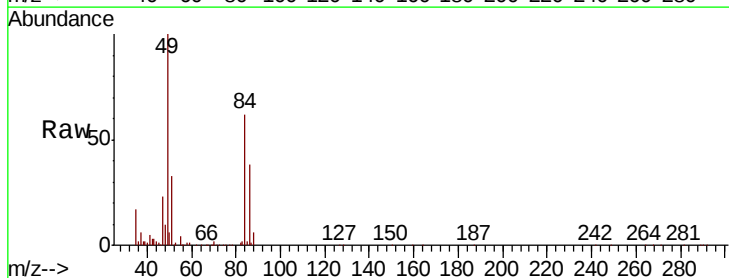
Tot Ion: 45 Resp: 3269761
 Ion Ratio Lower Upper
 45 100
 58 2.8 2.9 4.3#

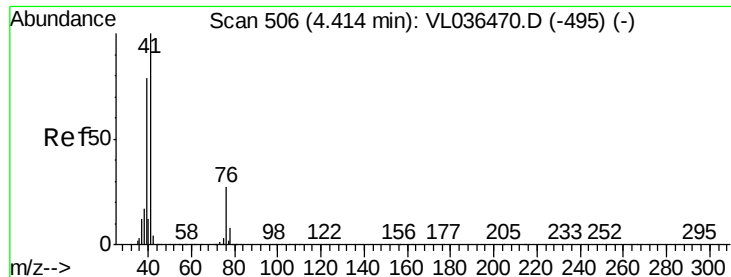


#20

Methylene Chloride
 Concen: 3.903 ppbv
 RT: 4.34 min Scan# 484
 Delta R.T. -0.00 min
 Lab File: VL036712.D
 Acq: 7 Apr 2021 00:26

Tgt Ion: 84 Resp: 221863
 Ion Ratio Lower Upper
 84 100
 49 162.0 122.9 184.3
 51 53.6 36.9 55.3
 86 62.0 48.2 72.4





#21

Allvl Chloride

Concen: 0.216 ppbv

RT: 4.37 min Scan# 493

Delta R.T. -0.04 min

Lab File: VL036712.D

Acq: 7 Apr 2021 00:26

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-5(2021)DL

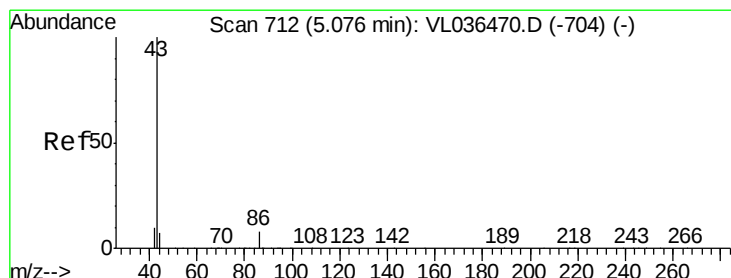
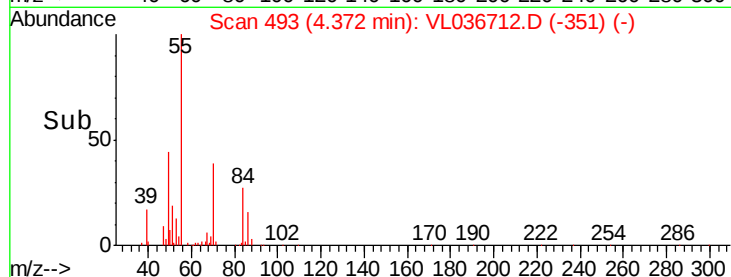
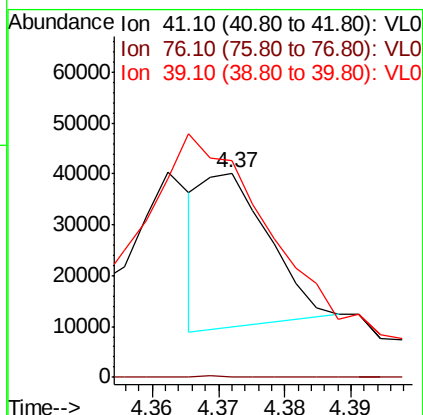
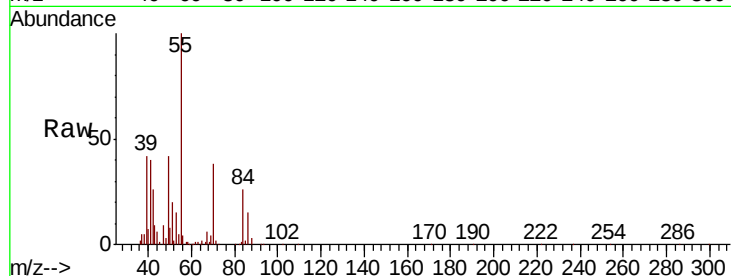
Tot Ion: 41 Resp: 20939

Ion Ratio Lower Upper

41 100

76 0.0 22.9 34.3#

39 0.0 67.3 100.9#



#23

Vinyl Acetate

Concen: 1.775 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.02 min

Lab File: VL036712.D

Acq: 7 Apr 2021 00:26

Tgt Ion: 43 Resp: 368610

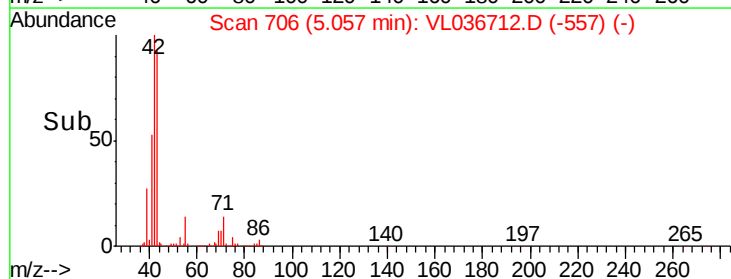
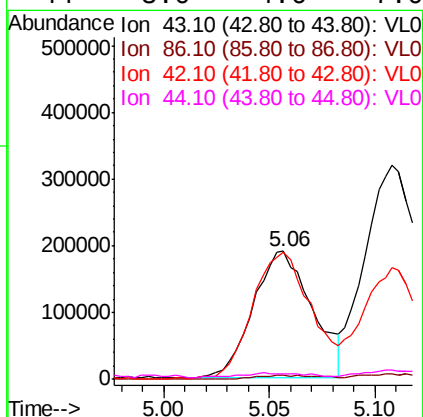
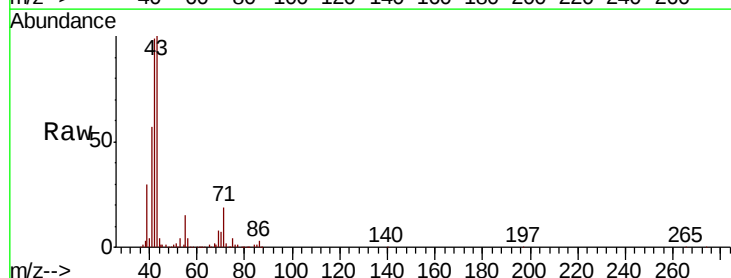
Ion Ratio Lower Upper

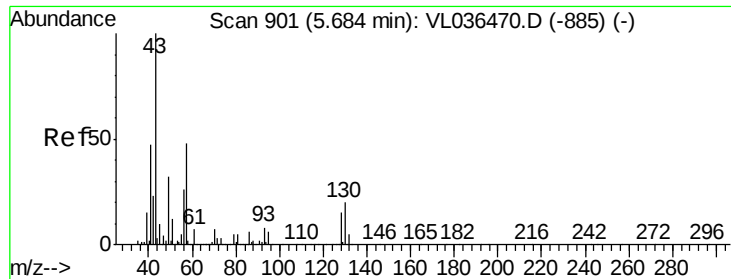
43 100

86 3.0 5.4 8.0#

42 100.0 8.5 12.7#

44 3.0 4.6 7.0#

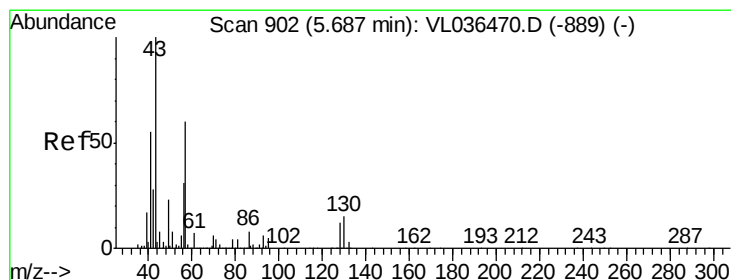
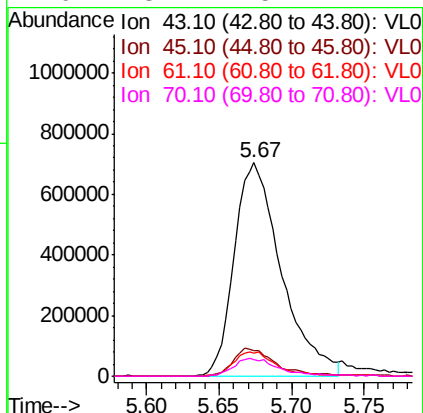
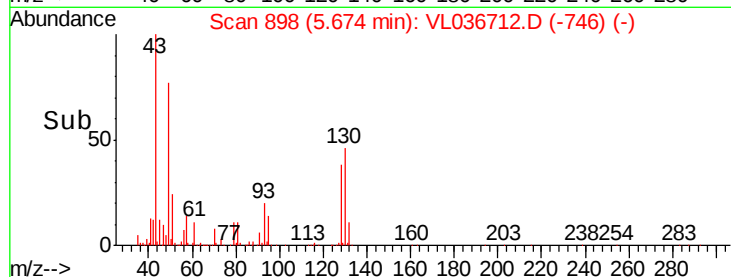
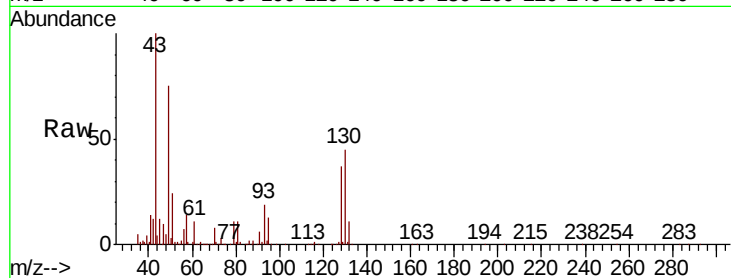




#25
Ethyl Acetate
Concen: 5.500 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL036712.D
Acq: 7 Apr 2021 00:26

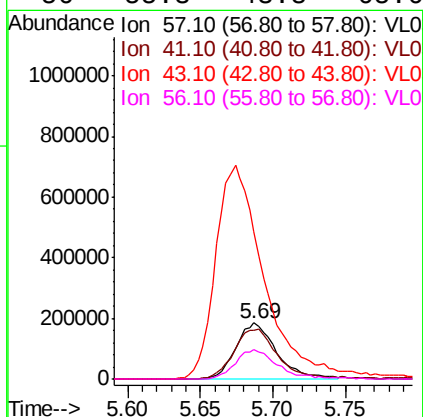
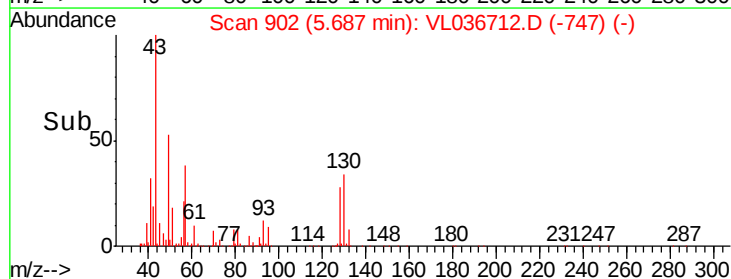
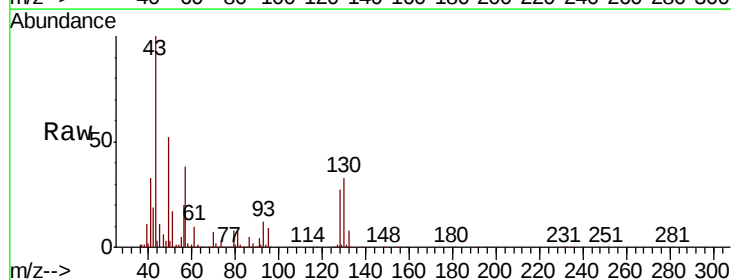
Instrument :
MSVOA_L
ClientSampleID :
UP-SG-5(2021)DL

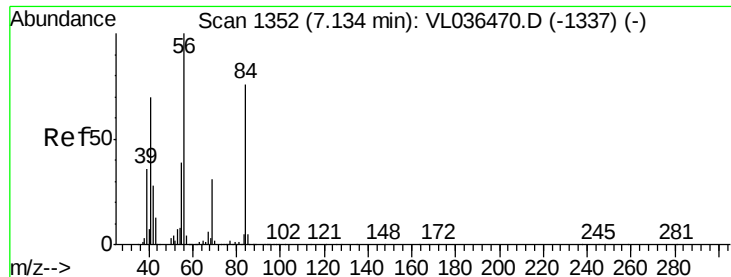
Tot Ion: 43 Resp: 1587645
Ion Ratio Lower Upper
43 100
45 12.6 7.9 11.9#
61 11.2 7.4 11.2#
70 8.4 5.1 7.7#



#26
Hexane
Concen: 2.690 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL036712.D
Acq: 7 Apr 2021 00:26

Tgt Ion: 57 Resp: 360300
Ion Ratio Lower Upper
57 100
41 97.9 77.2 115.8
43 463.9 173.8 260.6#
56 55.3 43.8 65.6

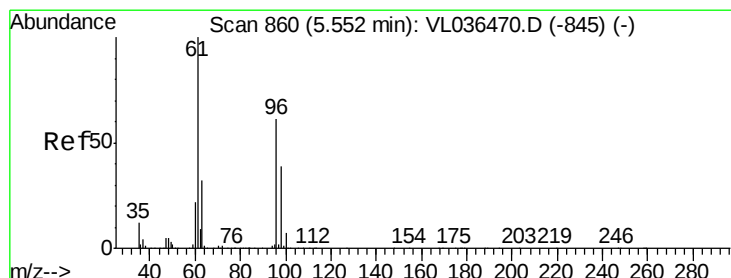
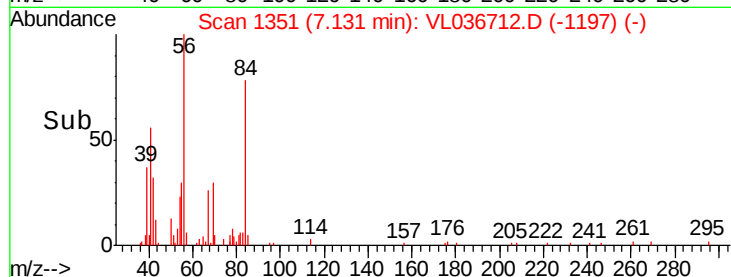
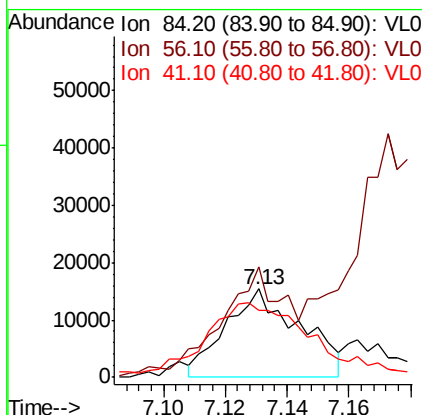
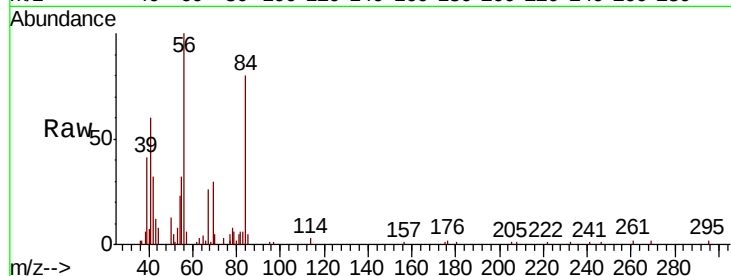




#30
Cyclohexane
Concen: 0.237 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.00 min
Lab File: VL036712.D
Acq: 7 Apr 2021 00:26

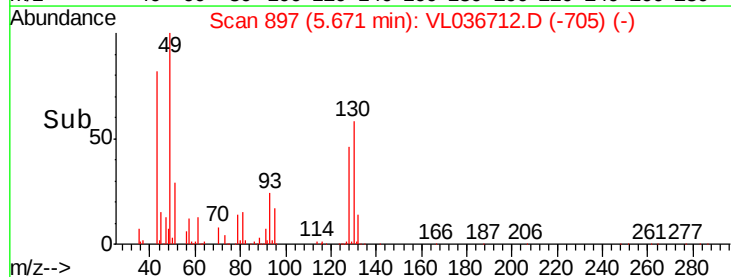
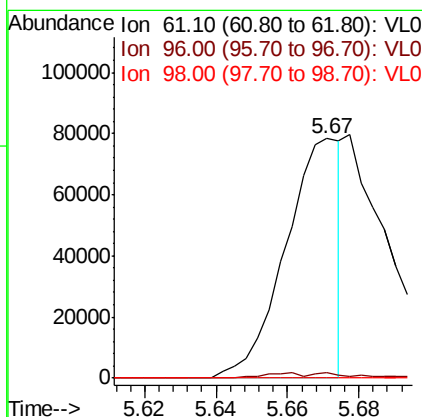
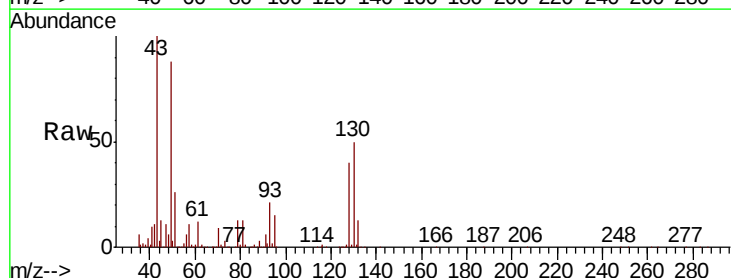
Instrument :
MSVOA_L
ClientSampleId :
UP-SG-5(2021)DL

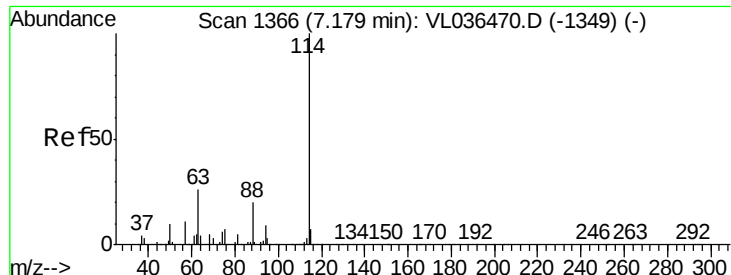
Tot Ion: 84 Resp: 25753
Ion Ratio Lower Upper
84 100
56 0.0 114.6 171.8#
41 109.9 75.3 112.9



#31
cis-1,2-Dichloroethene
Concen: 0.647 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.12 min
Lab File: VL036712.D
Acq: 7 Apr 2021 00:26

Tgt Ion: 61 Resp: 83785
Ion Ratio Lower Upper
61 100
96 2.5 48.7 73.1#
98 0.0 31.4 47.0#

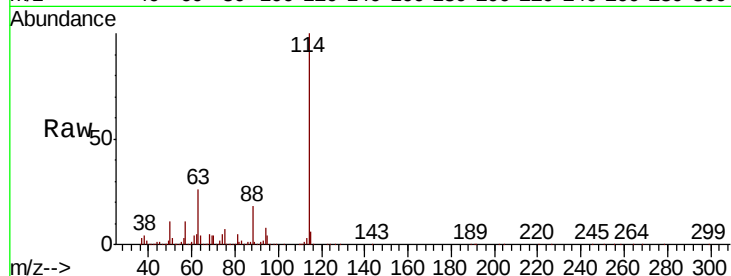




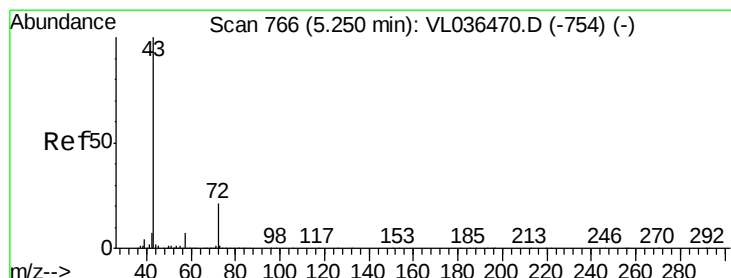
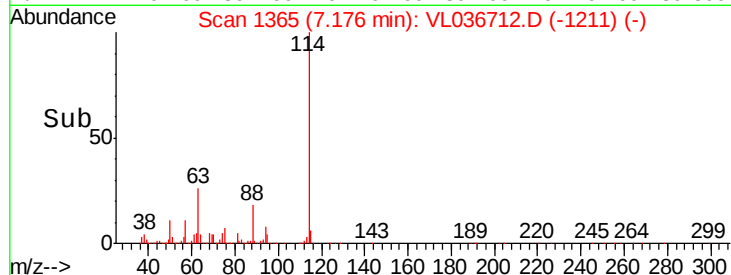
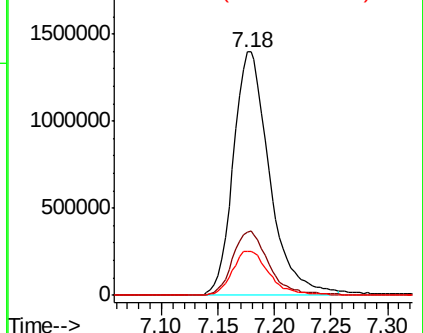
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VL036712.D
 Acq: 7 Apr 2021 00:26

Instrument :
 MSVOA_L
 ClientSampleId :
 UP-SG-5(2021)DL

Tot Ion:114 Resp: 3114097
 Ion Ratio Lower Upper
 114 100
 63 26.8 22.4 33.6
 88 18.8 15.4 23.0

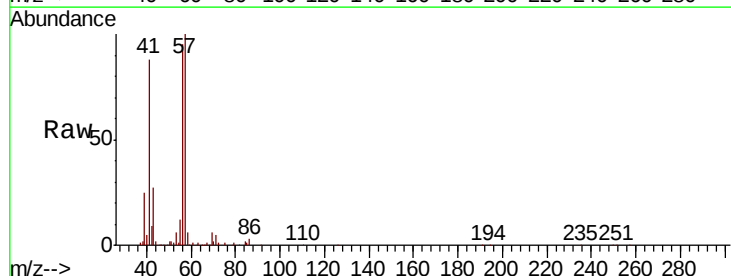


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

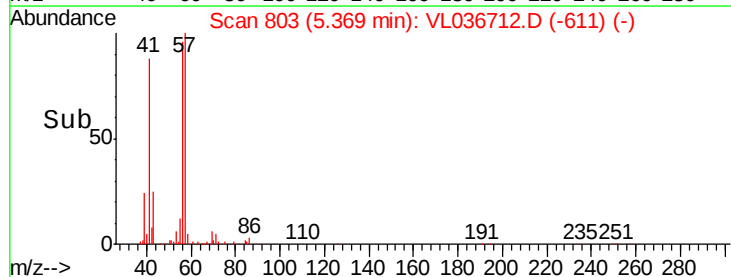
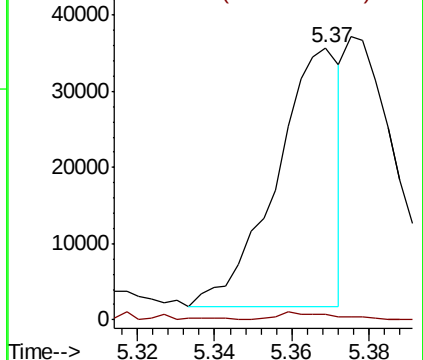


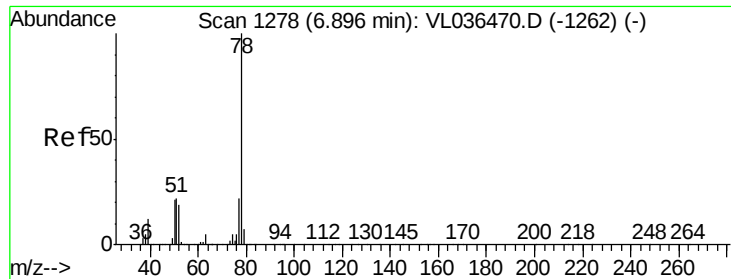
#34
 2-Butanone
 Concen: 0.254 ppbv
 RT: 5.37 min Scan# 803
 Delta R.T. 0.12 min
 Lab File: VL036712.D
 Acq: 7 Apr 2021 00:26

Tgt Ion: 43 Resp: 38580
 Ion Ratio Lower Upper
 43 100
 72 2.6 17.0 25.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.141 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.01 min

Lab File: VL036712.D

Acq: 7 Apr 2021 00:26

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-5(2021)DL

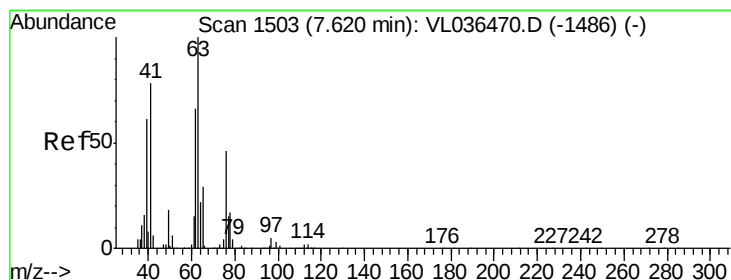
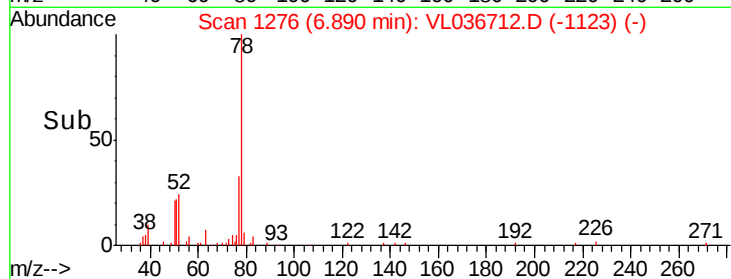
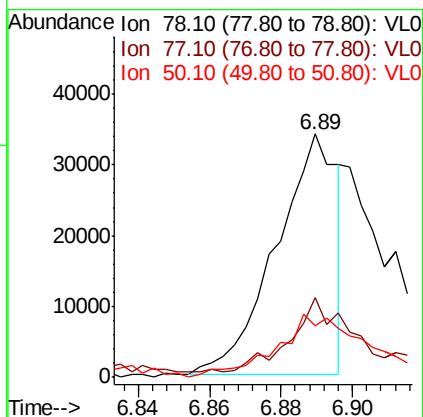
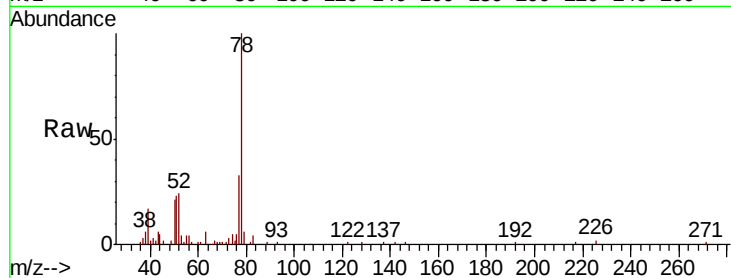
Tot Ion: 78 Resp: 40418

Ion Ratio Lower Upper

78 100

77 30.9 18.0 27.0#

50 19.8 16.5 24.7



#39

1,2-Dichloropropane

Concen: 6.884 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.44 min

Lab File: VL036712.D

Acq: 7 Apr 2021 00:26

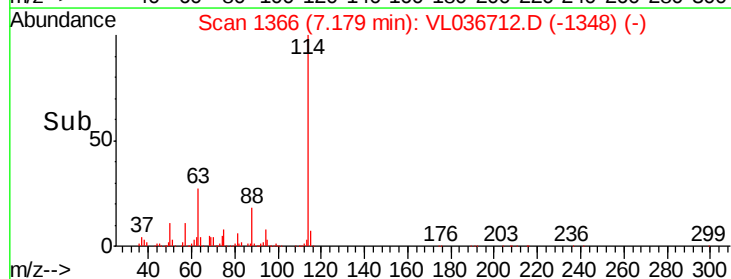
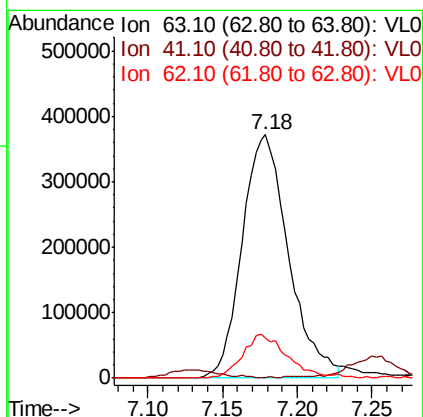
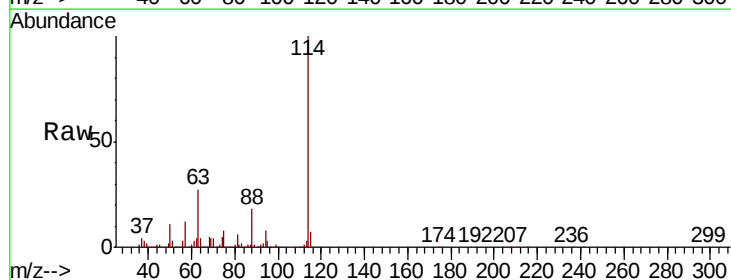
Tgt Ion: 63 Resp: 801998

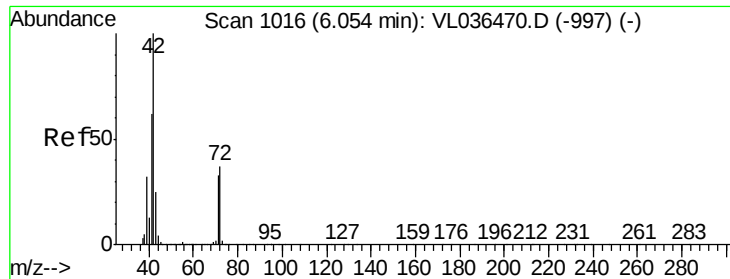
Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

62 16.5 52.8 79.2#





#41

Tetrahydrofuran

Concen: 0.050 ppbv

RT: 5.82 min Scan# 943

Delta R.T. -0.23 min

Lab File: VL036712.D

Acq: 7 Apr 2021 00:26

Instrument :

MSVOA_L

ClientSampleId :

UP-SG-5(2021)DL

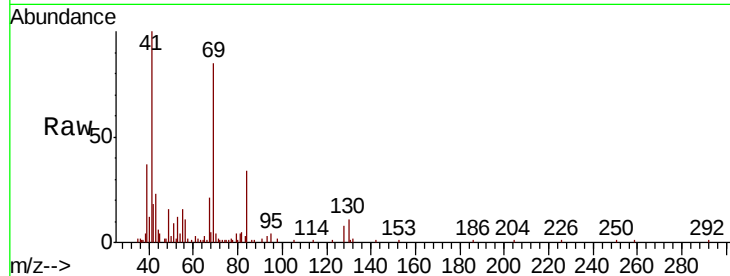
Tot Ion: 42 Resp: 3492

Ion Ratio Lower Upper

42 100

72 2.7 27.6 41.4#

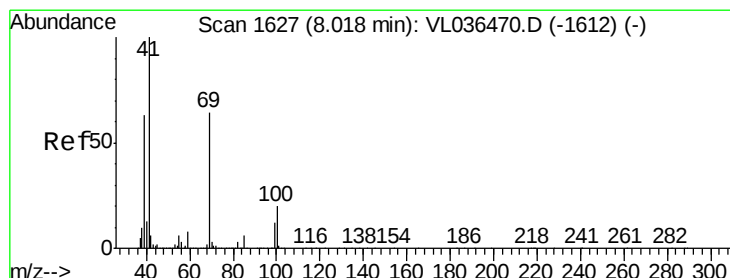
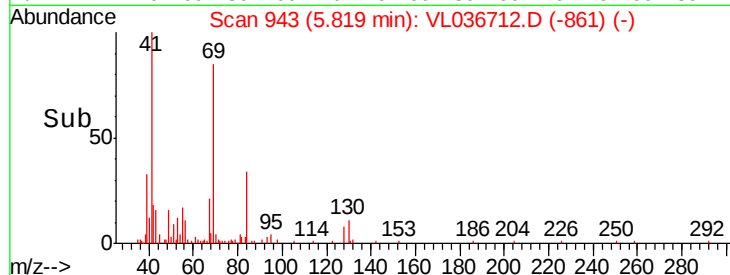
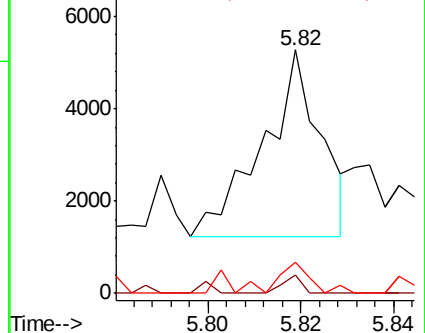
71 0.0 27.0 40.4#



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#43

Methyl Methacrylate

Concen: 8.597 ppbv

RT: 8.01 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VL036712.D

Acq: 7 Apr 2021 00:26

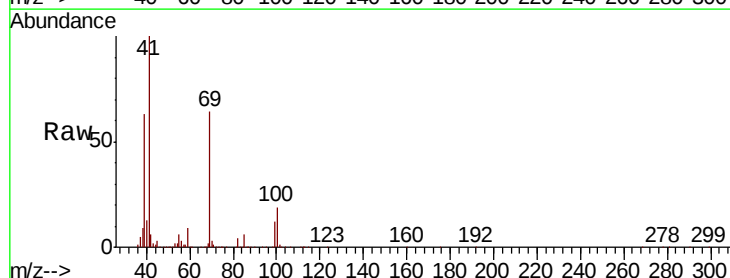
Tgt Ion: 69 Resp: 829085

Ion Ratio Lower Upper

69 100

41 163.1 126.8 190.2

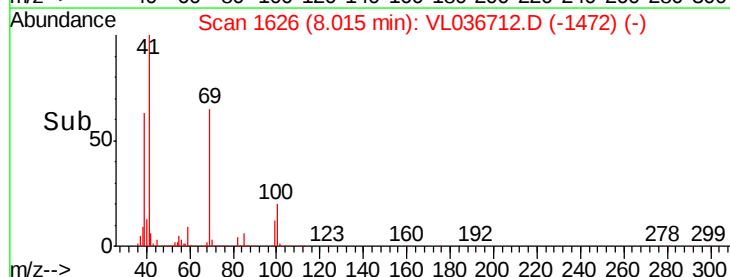
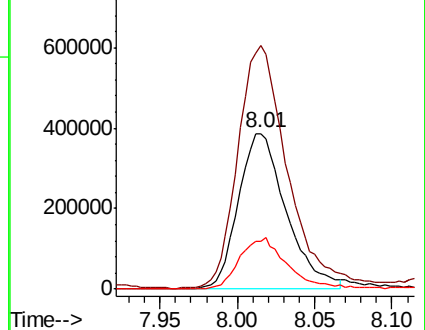
100 33.2 24.9 37.3

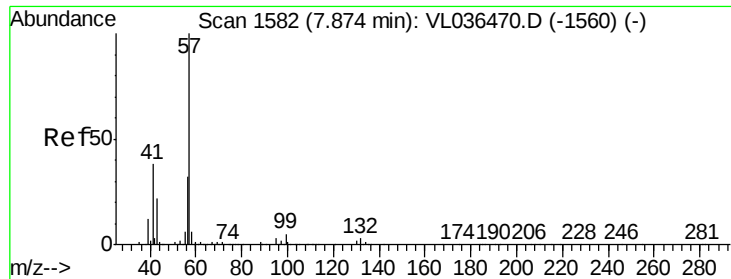


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0



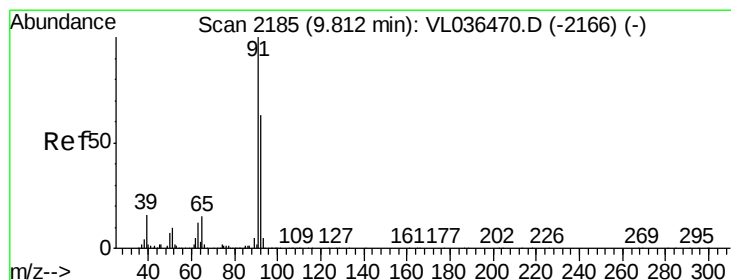
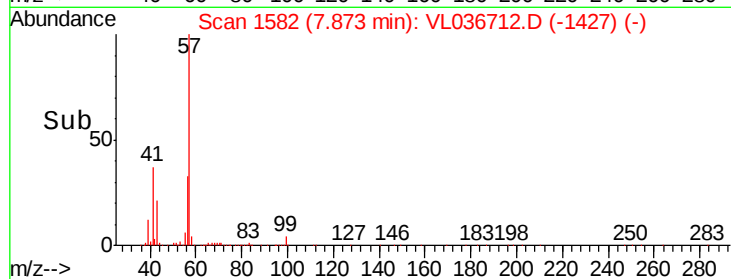
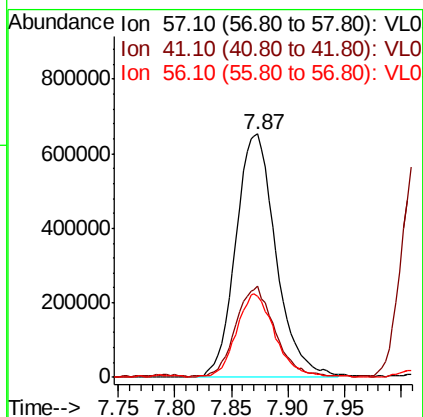
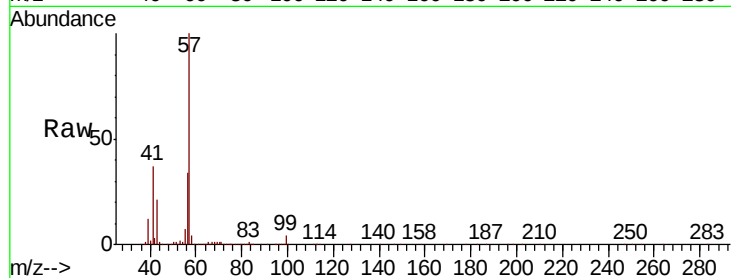


#44
 2,2,4-Trimethylpentane
 Concen: 3.192 ppbv
 RT: 7.87 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VL036712.D
 Acq: 7 Apr 2021 00:26

Instrument :
 MSVOA_L
 ClientSampleId :
 UP-SG-5(2021)DL

Tot Ion: 57 Resp: 1613712

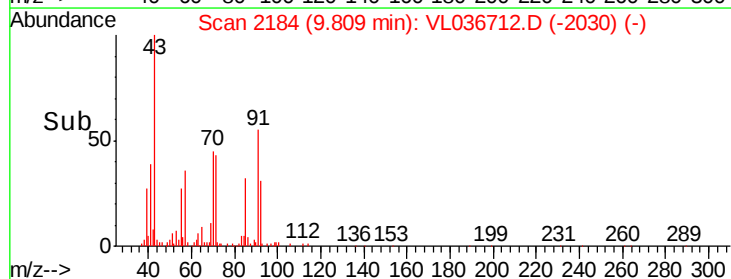
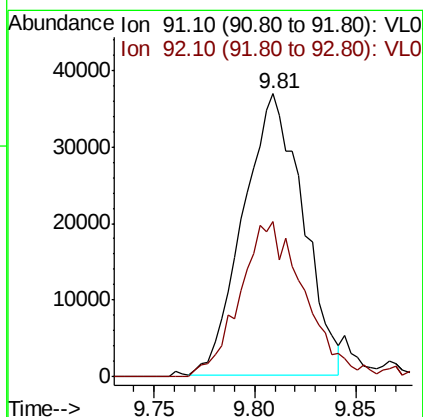
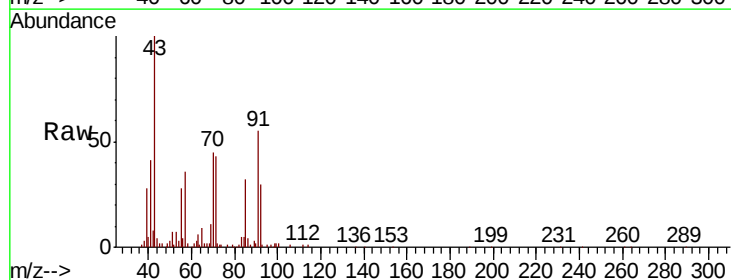
Ion	Ratio	Lower	Upper
57	100		
41	35.6	28.8	43.2
56	33.0	26.1	39.1

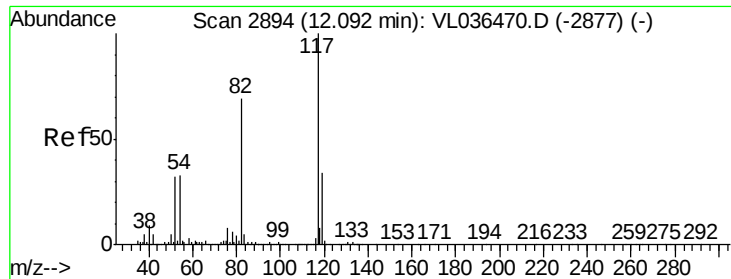


#53
 Toluene
 Concen: 0.249 ppbv
 RT: 9.81 min Scan# 2184
 Delta R.T. -0.00 min
 Lab File: VL036712.D
 Acq: 7 Apr 2021 00:26

Tgt Ion: 91 Resp: 76039

Ion	Ratio	Lower	Upper
91	100		
92	60.5	48.8	73.2

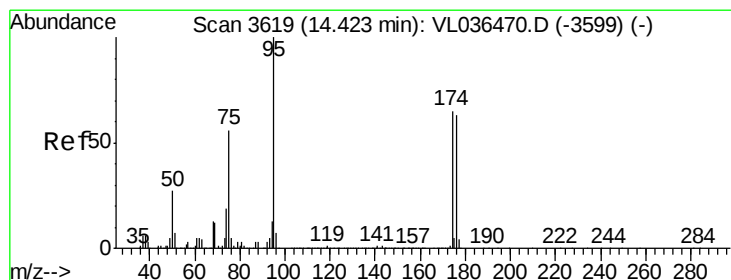
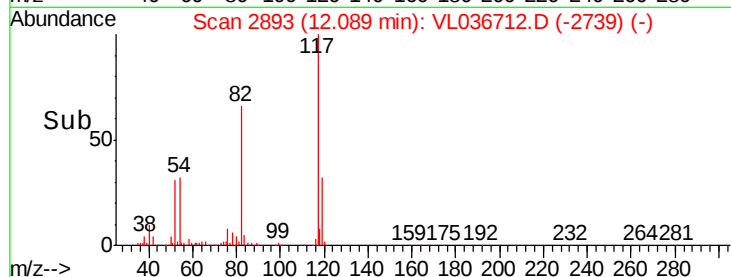
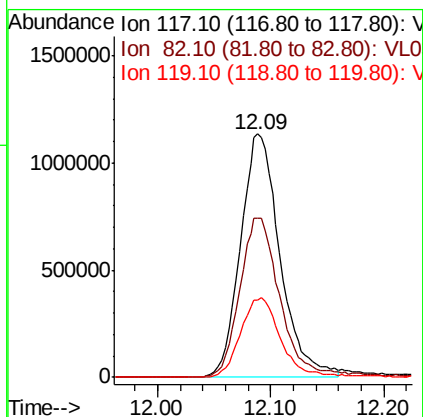
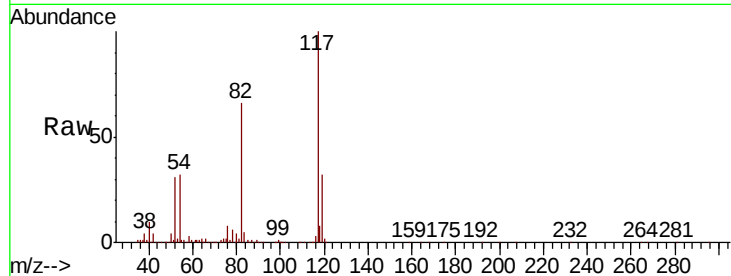




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL036712.D
Acq: 7 Apr 2021 00:26

Instrument :
MSVOA_L
ClientSampleId :
UP-SG-5(2021)DL

Tot Ion:117 Resp: 2751931
Ion Ratio Lower Upper
117 100
82 68.4 57.4 86.0
119 34.4 47.4 71.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.318 ppbv
RT: 14.42 min Scan# 3618
Delta R.T. -0.00 min
Lab File: VL036712.D
Acq: 7 Apr 2021 00:26

Tgt Ion: 95 Resp: 2043697
Ion Ratio Lower Upper
95 100
174 70.5 51.0 76.6
175 5.1 3.9 5.9

