

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042721\
 Data File : VL036858.D
 Acq On : 27 Apr 2021 15:13
 Operator : SY/AP
 Sample : M2174-03DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 28 05:24:26 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Apr 27 16:56:35 2021
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1475190	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3460653	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3018357	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2438750	10.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%

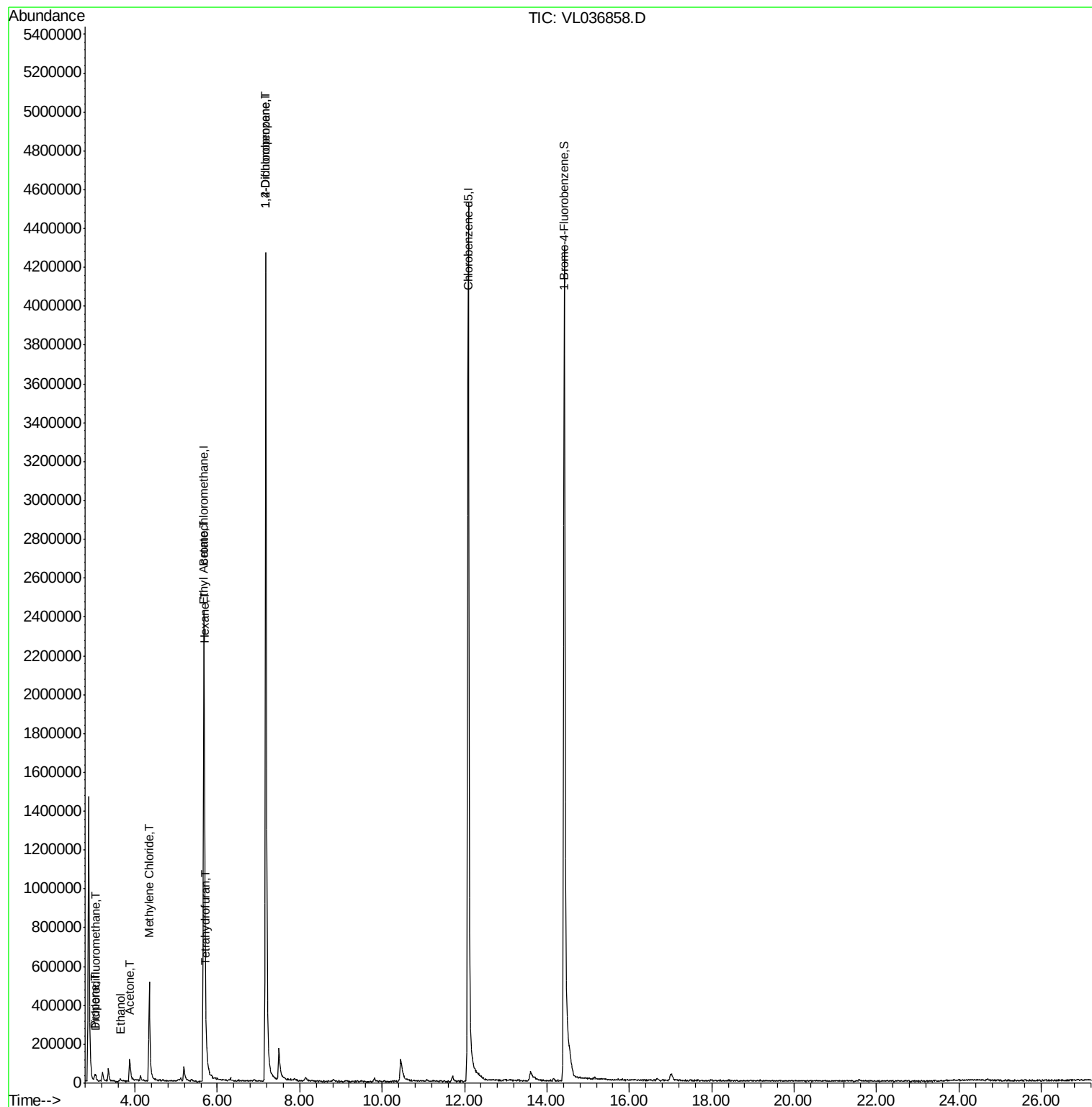
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	9394	0.040	ppbv #	83
9) Propene	3.02	41	3163	0.039	ppbv #	15
13) Ethanol	3.63	45	7506	0.719	ppbv #	34
15) Acetone	3.87	43	108494	0.780	ppbv #	74
20) Methylene Chloride	4.35	84	188415	2.834	ppbv	98
25) Ethyl Acetate	5.69	43	62145	0.183	ppbv #	76
26) Hexane	5.69	57	162877	1.025	ppbv #	43
39) 1,2-Dichloropropane	7.18	63	900198	7.706	ppbv #	24
41) Tetrahydrofuran	5.73	42	3744	0.056	ppbv #	43

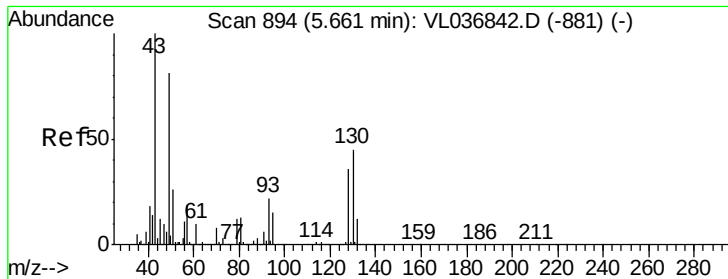
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File:

Acq: 27 Apr 2021 15:13

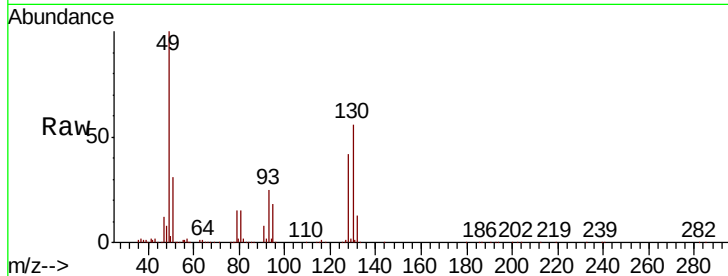
Tot Ion: 49 Resp: 1475190

Ion Ratio Lower Upper

49 100

128 46.2 24.4 73.2

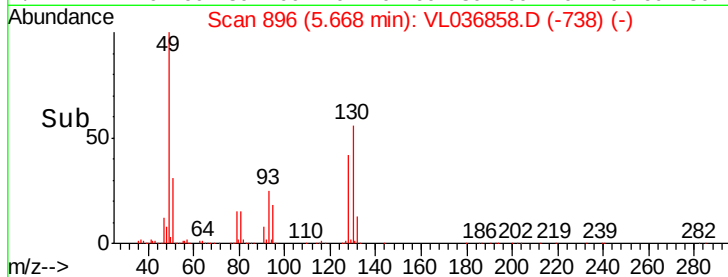
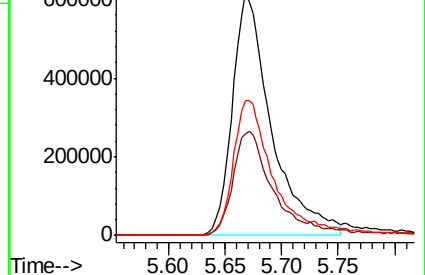
130 59.9 30.3 90.8



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



#2

Dichlorodifluoromethane

Concen: 0.040 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.00 min

Lab File: VL036858.D

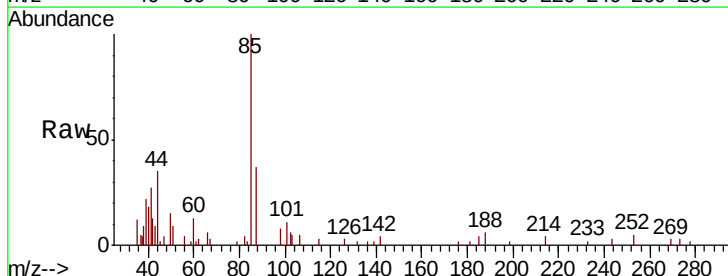
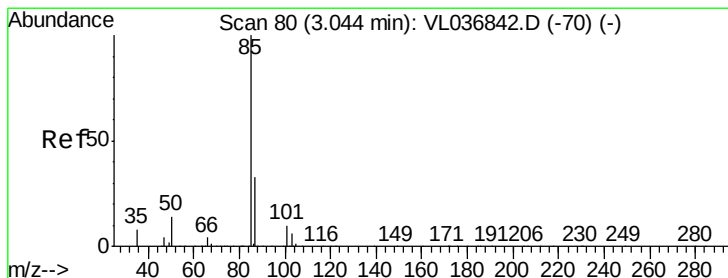
Acq: 27 Apr 2021 15:13

Tgt Ion: 85 Resp: 9394

Ion Ratio Lower Upper

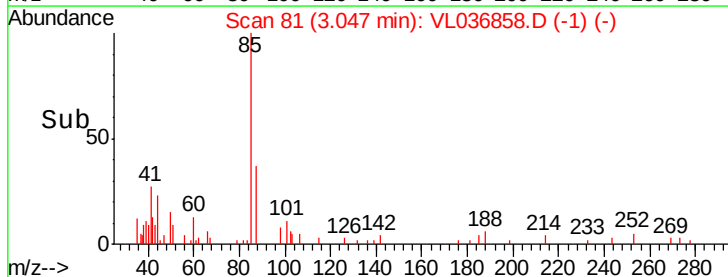
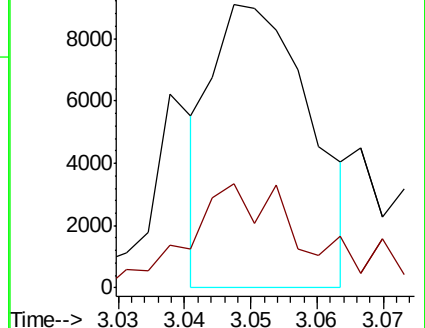
85 100

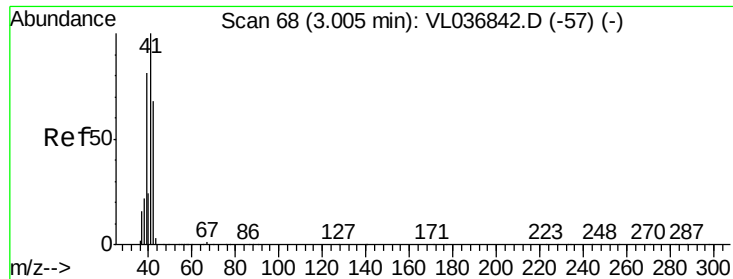
87 42.1 26.2 39.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 0.039 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

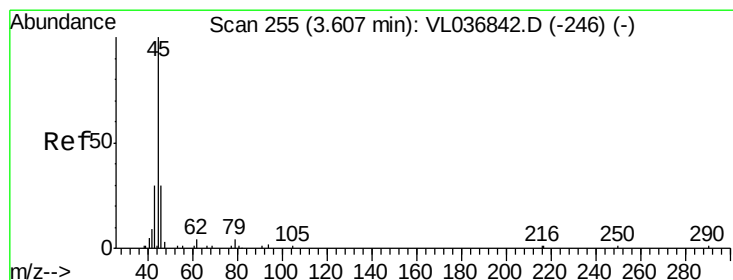
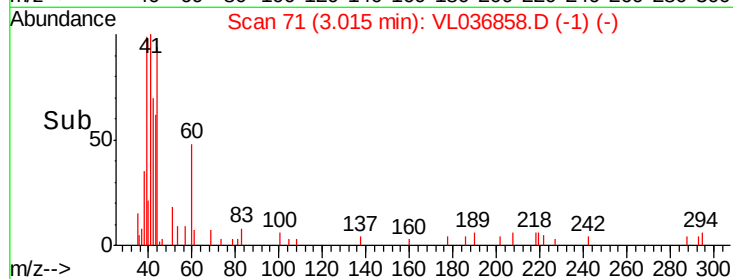
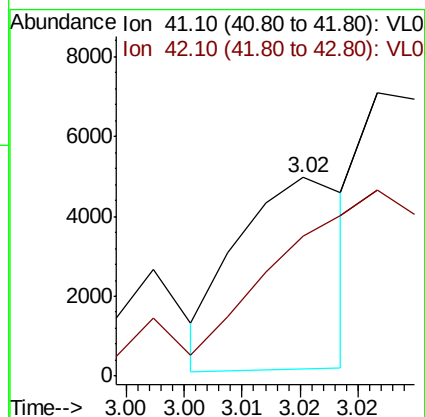
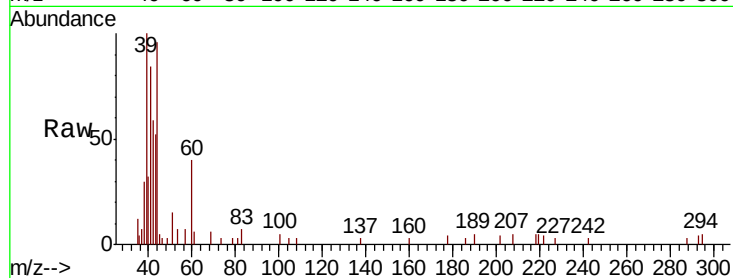
Acq: 27 Apr 2021 15:13

Tot Ion: 41 Resp: 3163

Ion Ratio Lower Upper

41 100

42 0.0 56.0 84.0#



#13

Ethanol

Concen: 0.719 ppbv

RT: 3.63 min Scan# 263

Delta R.T. 0.03 min

Lab File: VL036858.D

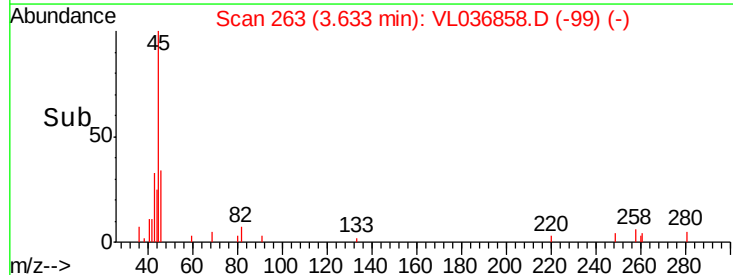
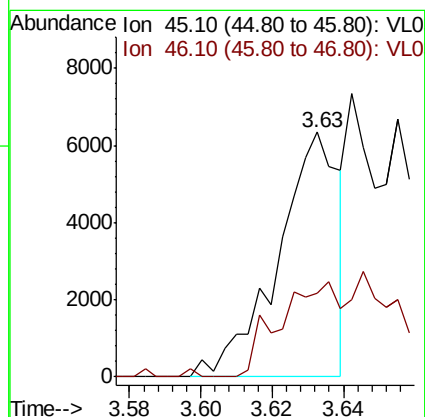
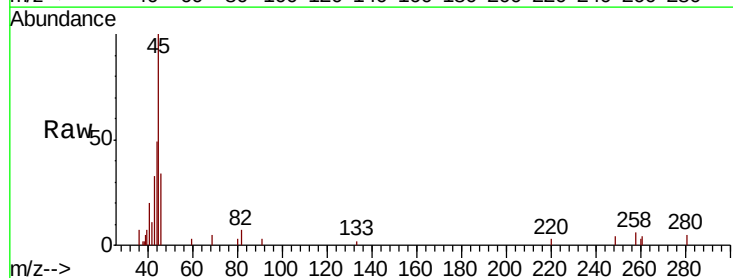
Acq: 27 Apr 2021 15:13

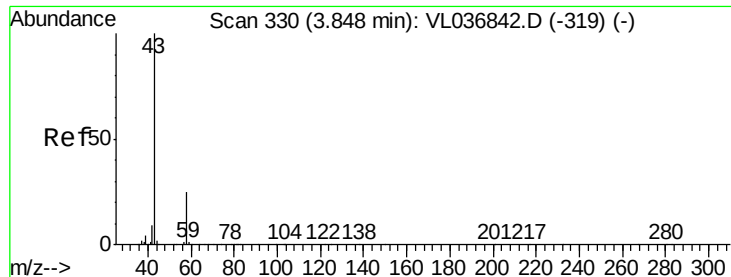
Tgt Ion: 45 Resp: 7506

Ion Ratio Lower Upper

45 100

46 0.0 16.8 67.4#





#15

Acetone

Concen: 0.780 ppbv

RT: 3.87 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

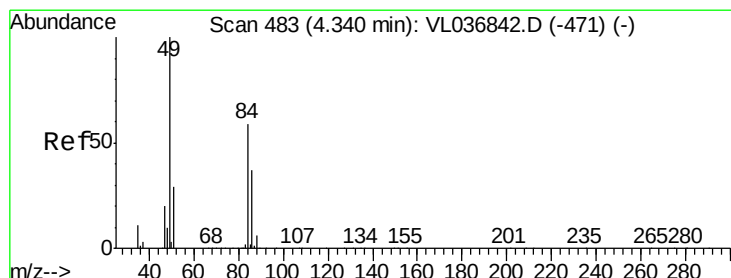
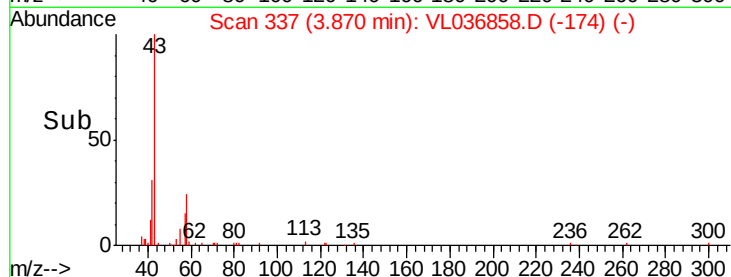
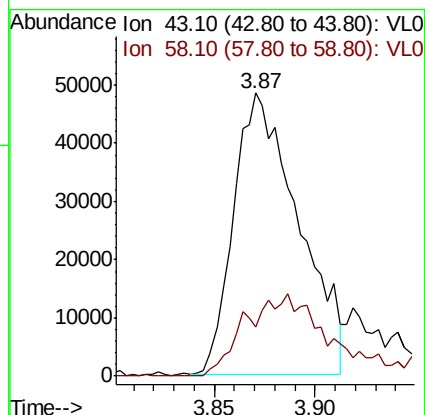
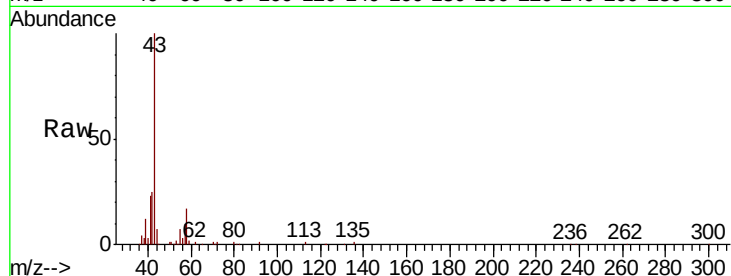
Acq: 27 Apr 2021 15:13

Tot Ion: 43 Resp: 108494

Ion Ratio Lower Upper

43 100

58 40.8 21.7 32.5#



#20

Methylene Chloride

Concen: 2.834 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.01 min

Lab File: VL036858.D

Acq: 27 Apr 2021 15:13

Tgt Ion: 84 Resp: 188415

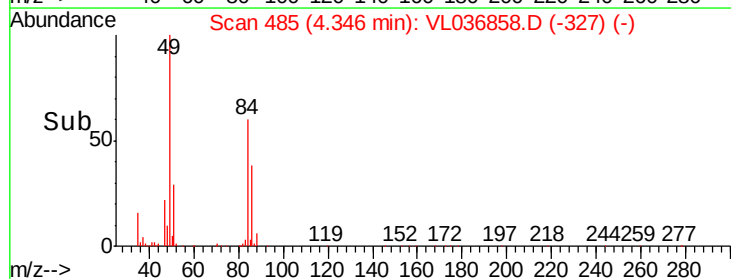
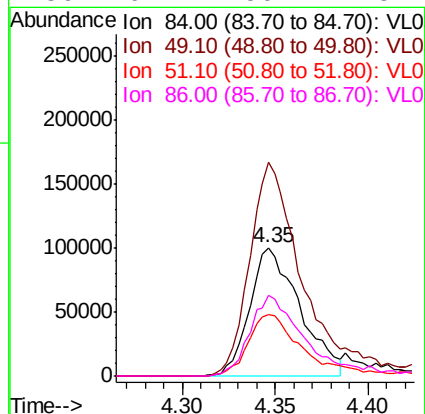
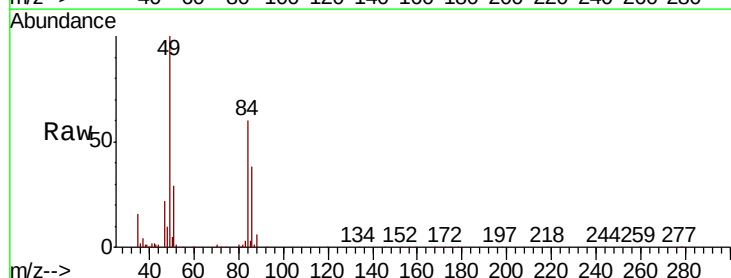
Ion Ratio Lower Upper

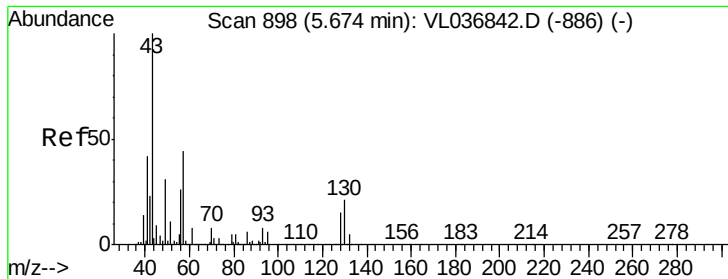
84 100

49 166.4 135.4 203.0

51 48.2 39.3 58.9

86 62.4 50.2 75.2





#25

Ethyl Acetate

Concen: 0.183 ppbv

RT: 5.69 Instrument:

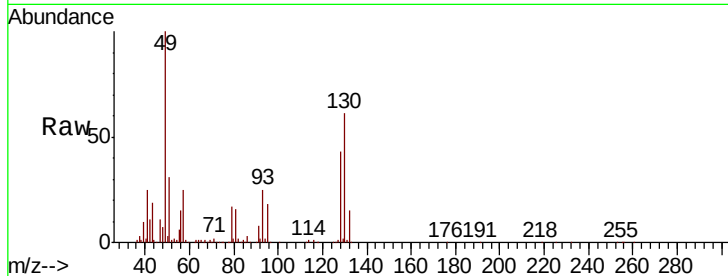
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Apr 2021 15:13

Tot Ion: 43 Resp: 62145

Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.8#
61	0.6	7.4	11.0#
70	0.0	5.4	8.0#



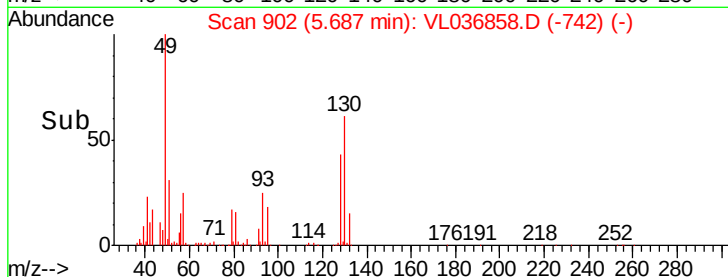
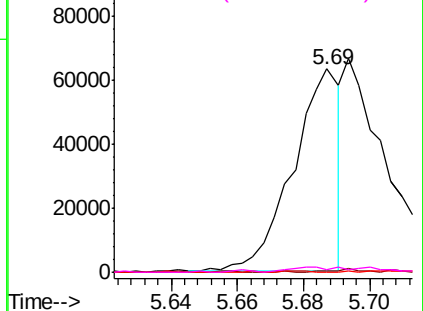
Abundance

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: 1.025 ppbv

RT: 5.69 min Scan# 903

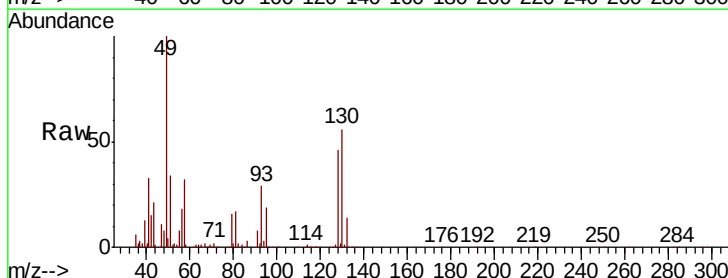
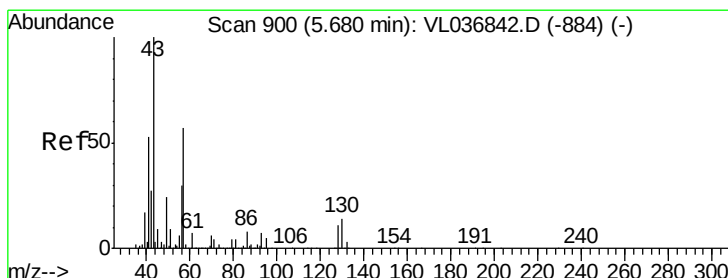
Delta R.T. 0.01 min

Lab File: VL036858.D

Acq: 27 Apr 2021 15:13

Tgt Ion: 57 Resp: 162877

Ion	Ratio	Lower	Upper
57	100		
41	112.4	77.7	116.5
43	83.5	180.5	270.7#
56	63.4	44.6	66.8



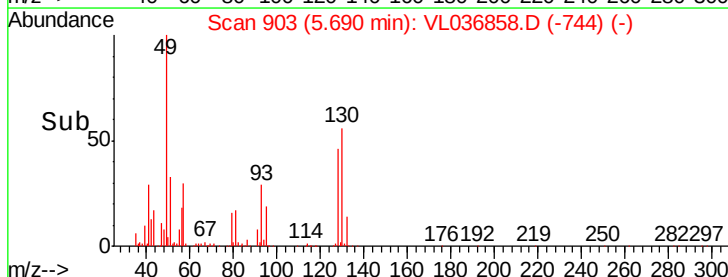
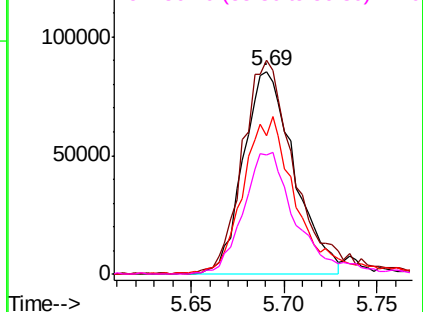
Abundance

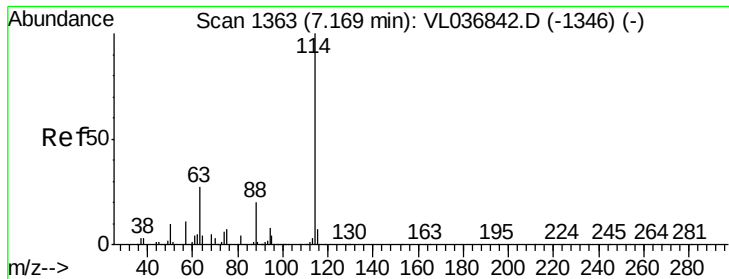
Ion 57.10 (56.80 to 57.80): VL0

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

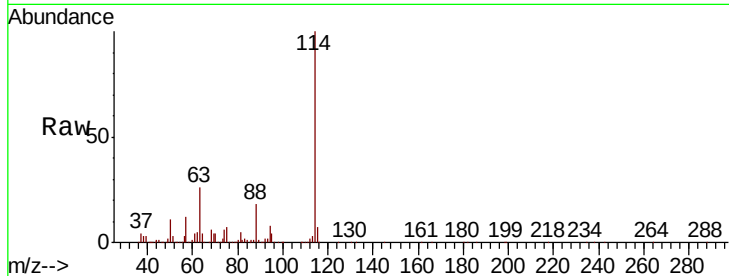




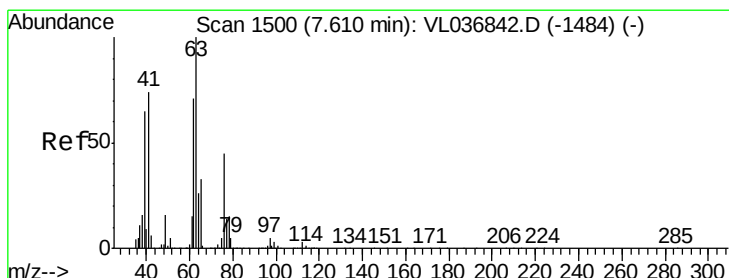
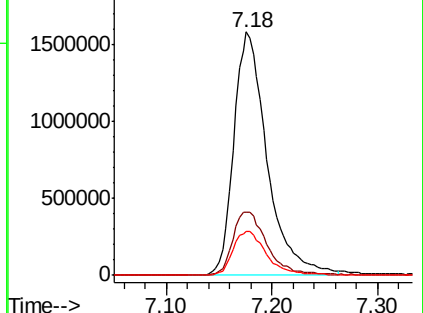
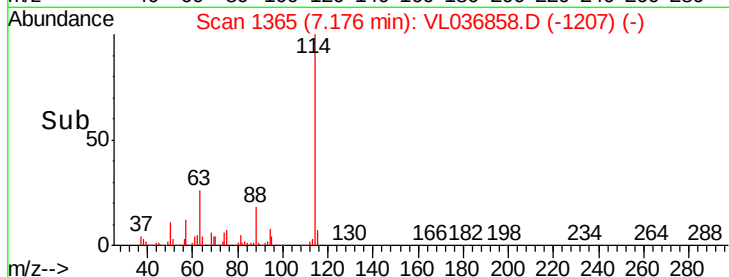
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 27 Apr 2021 15:13

Tot Ion: 114 Resp: 3460653

Ion	Ratio	Lower	Upper
114	100		
63	27.7	21.9	32.9
88	18.7	15.1	22.7



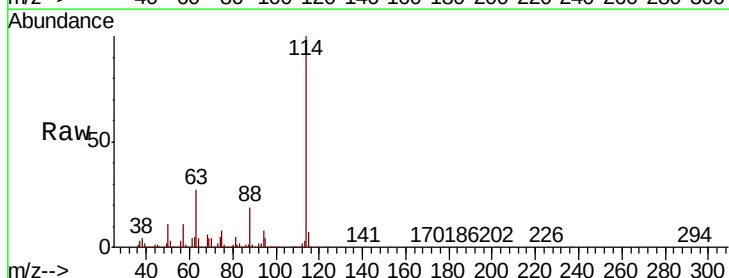
Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0



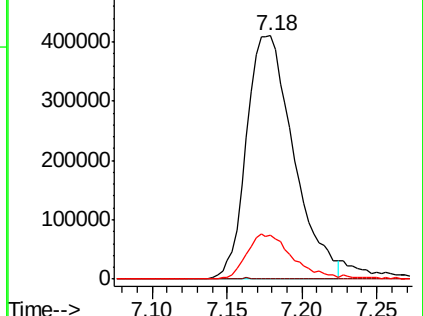
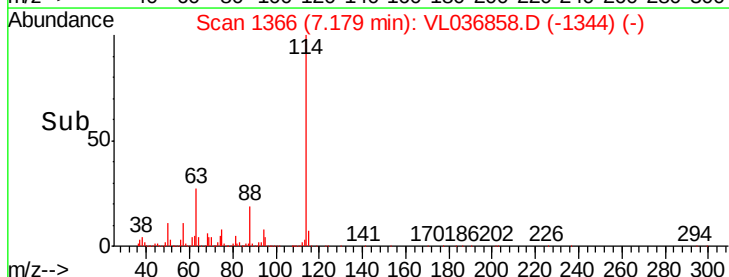
#39
 1,2-Dichloropropane
 Concen: 7.706 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T.: -0.43 min
 Lab File: VL036858.D
 Acq: 27 Apr 2021 15:13

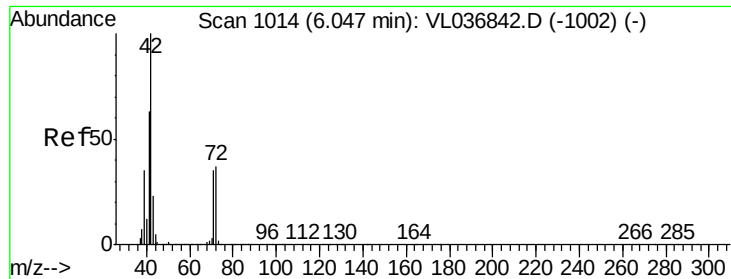
Tgt Ion: 63 Resp: 900198

Ion	Ratio	Lower	Upper
63	100		
41	0.1	59.1	88.7#
62	18.1	56.9	85.3#



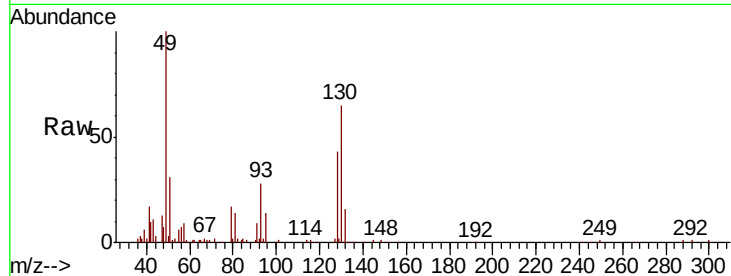
Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0





#41
Tetrahydrofuran
Concen: 0.056 ppbv
RT: 5.73 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Apr 2021 15:13

Tot Ion	Ratio	Lower	Upper
42	100		
72	6.1	29.7	44.5#
71	0.0	29.0	43.6#

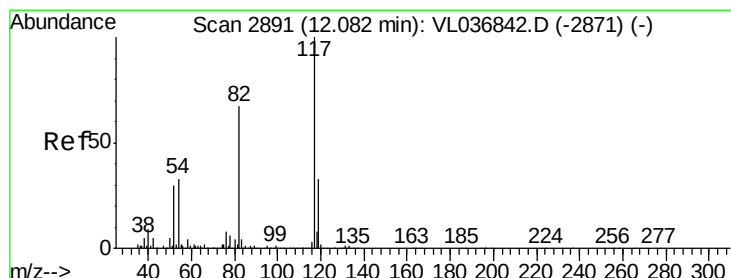
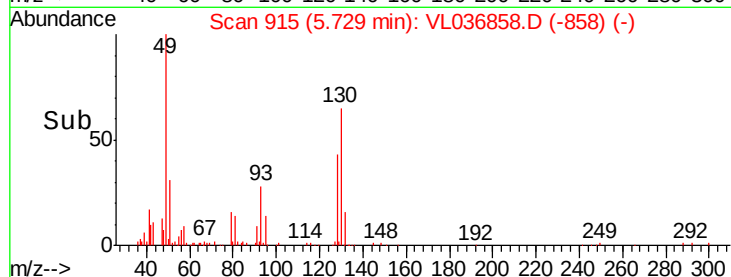
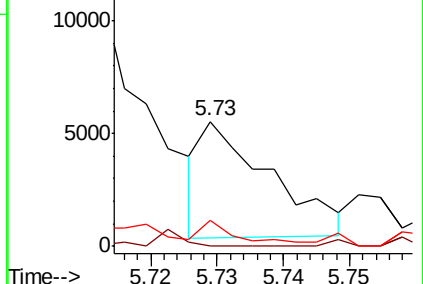


Abundance

Ion 42.10 (41.80 to 42.80): VL0

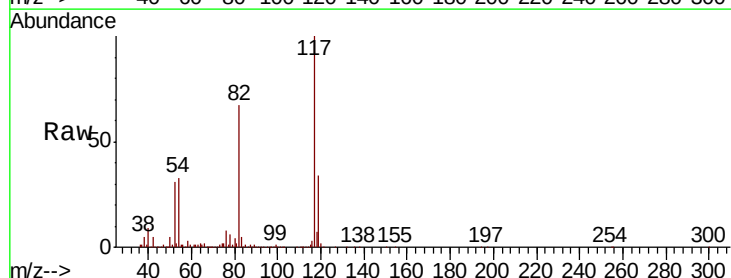
Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T.: 0.01 min
Lab File: VL036858.D
Acq: 27 Apr 2021 15:13

Tgt Ion	Ratio	Lower	Upper
117	100		
82	70.7	53.5	80.3
119	34.2	25.6	38.4

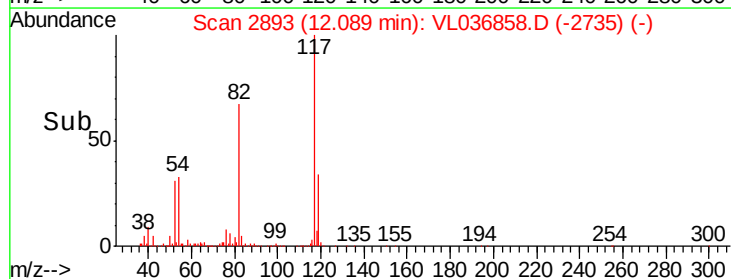
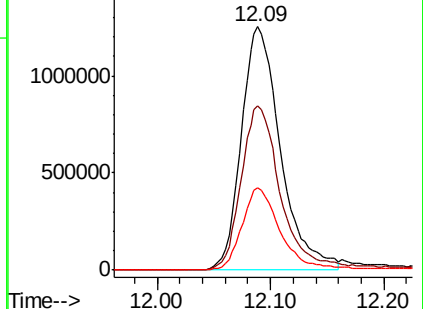


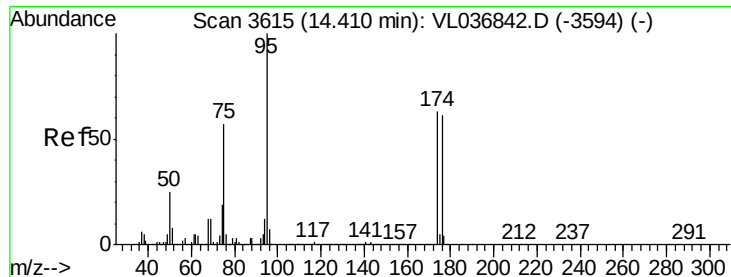
Abundance

Ion 117.10 (116.80 to 117.80): VL0

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): VL0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.065 ppbv

RT: 14.42 Instrument :

Delta R.T MSVOA_L

Lab File: ClientSampleId :

Acq: 27 Apr 2021 15:15

Tot Ion: 95 Resp: 2438750

Ion Ratio Lower Upper

95 100

174 64.8 52.2 78.2

175 4.7 4.0 6.0

