

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL012021\
 Data File : VL036249.D
 Acq On : 20 Jan 2021 16:34
 Operator : SY/AP
 Sample : M1171-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Quant Time: Jan 21 01:35:34 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 14 16:13:38 2021
 QLast Update : Thu Jan 14 16:13:38 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1332921	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2778995	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2480282	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2041359	9.94	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

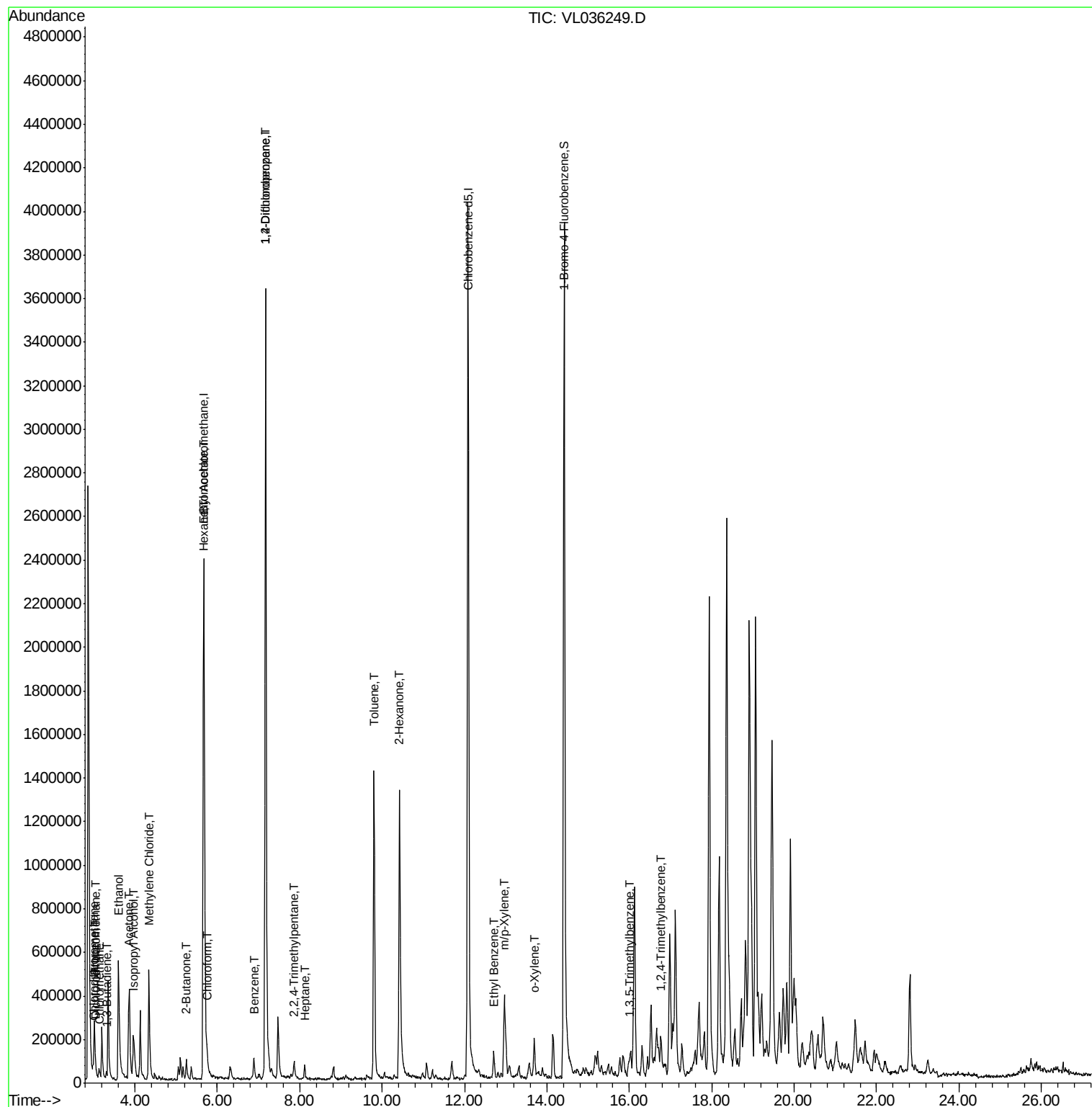
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	5719	0.032	ppbv 92
3) Chlorodifluoromethane	2.98	51	66890	0.409	ppbv 93
4) Chloromethane	3.14	50	42855	0.530	ppbv 97
9) Propene	3.01	41	77981	1.000	ppbv # 77
10) Heptane	8.12	43	16589	0.086	ppbv # 44
13) Ethanol	3.60	45	763308	62.358	ppbv 86
15) Acetone	3.85	43	513431	3.145	ppbv 98
16) 1,3-Butadiene	3.31	39	4422	0.056	ppbv # 75
19) Isopropyl Alcohol	3.97	45	152832	1.553	ppbv # 87
20) Methylene Chloride	4.34	84	180234	3.459	ppbv 95
25) Ethyl Acetate	5.68	43	296460	0.905	ppbv # 79
26) Hexane	5.68	57	394068	2.888	ppbv # 40
29) Chloroform	5.75	83	40897	0.209	ppbv 91
34) 2-Butanone	5.25	43	101825	0.498	ppbv # 85
36) Benzene	6.89	78	36598	0.144	ppbv 94
39) 1,2-Dichloropropane	7.17	63	829366	8.022	ppbv # 22
44) 2,2,4-Trimethylpentane	7.86	57	31553	0.067	ppbv # 1
51) 2-Hexanone	10.42	43	318048	1.321	ppbv # 54
53) Toluene	9.80	91	1143991	4.016	ppbv 99
58) Ethyl Benzene	12.71	91	38103	0.104	ppbv # 70
59) m/p-Xylene	12.97	91	397700	1.258	ppbv 99
60) o-Xylene	13.69	91	130956	0.430	ppbv 99
73) 1,3,5-Trimethylbenzene	16.00	105	13439	0.041	ppbv 99
74) 1,2,4-Trimethylbenzene	16.76	105	13446	0.040	ppbv # 60

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL036249.D

Acq: 20 Jan 2021 16:34

Instrument :

MSVOA_L

ClientSampled :

IA-2

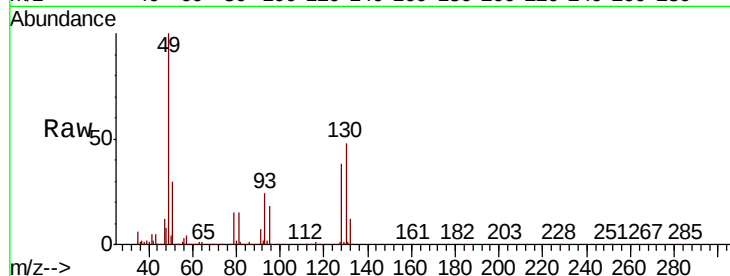
Tot Ion: 49 Resp: 1332921

Ion Ratio Lower Upper

49 100

128 38.9 20.1 60.2

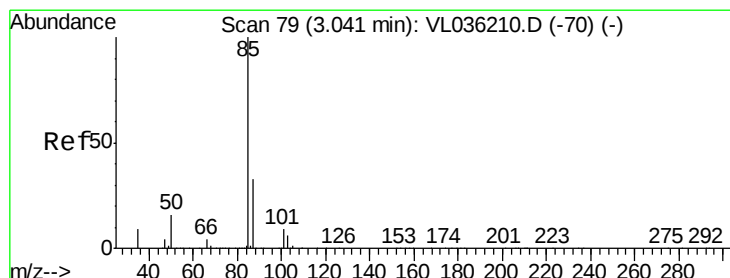
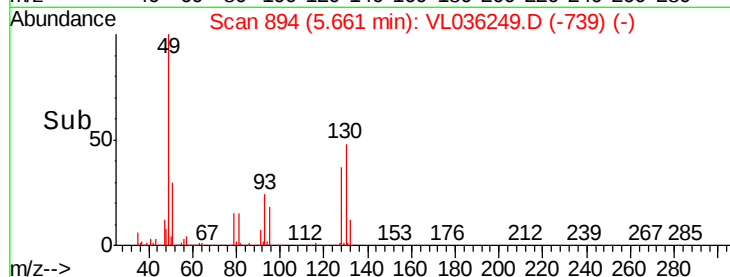
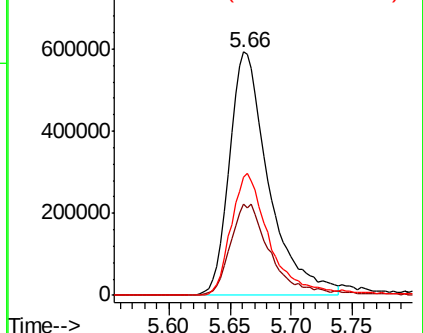
130 50.5 25.3 75.9



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: 0.032 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.02 min

Lab File: VL036249.D

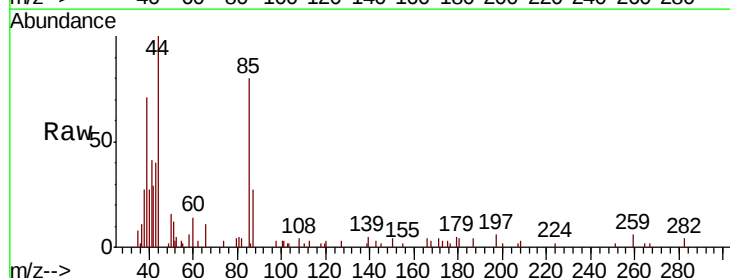
Acq: 20 Jan 2021 16:34

Tgt Ion: 85 Resp: 5719

Ion Ratio Lower Upper

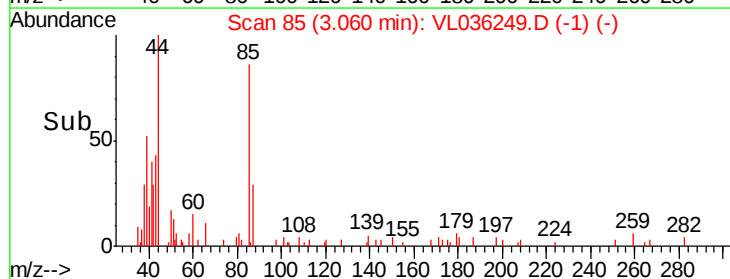
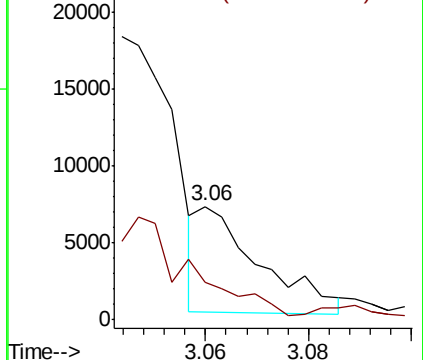
85 100

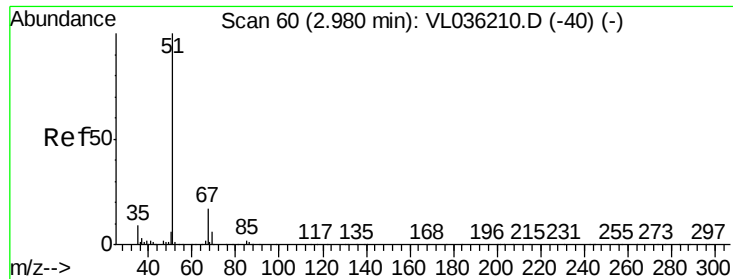
87 28.6 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.409 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL036249.D

Acq: 20 Jan 2021 16:34

Instrument :

MSVOA_L

ClientSampleId :

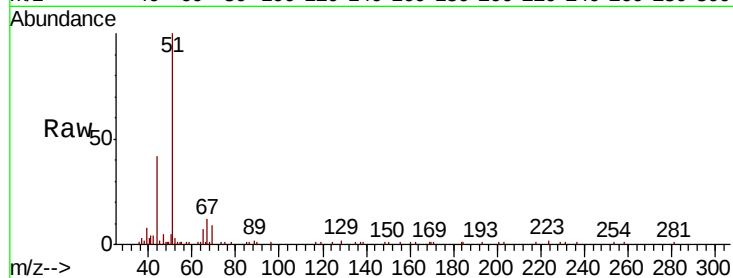
IA-2

Tot Ion: 51 Resp: 66890

Ion Ratio Lower Upper

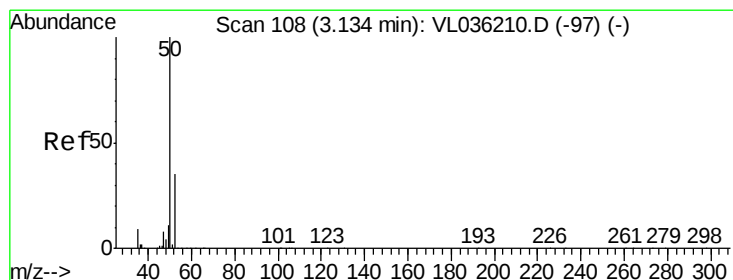
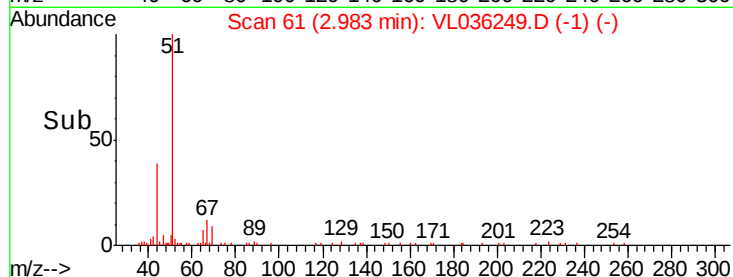
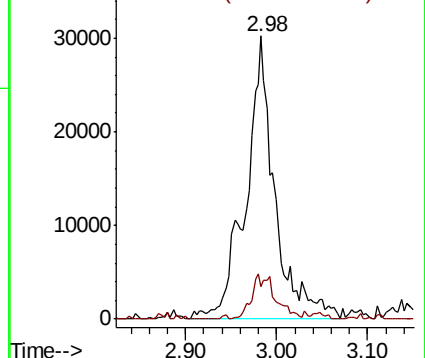
51 100

67 14.6 14.0 21.0



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.530 ppbv

RT: 3.14 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL036249.D

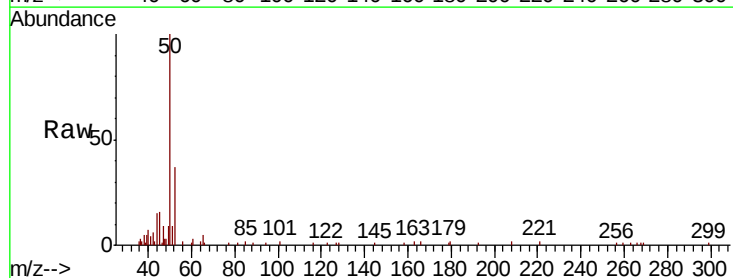
Acq: 20 Jan 2021 16:34

Tgt Ion: 50 Resp: 42855

Ion Ratio Lower Upper

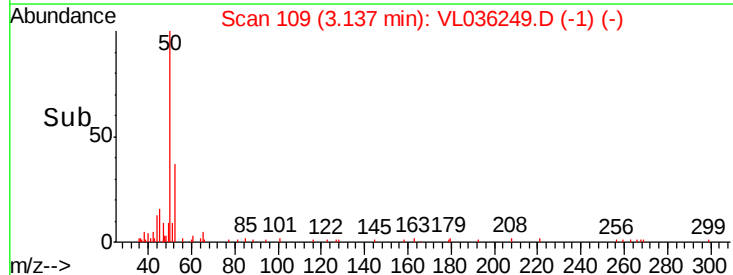
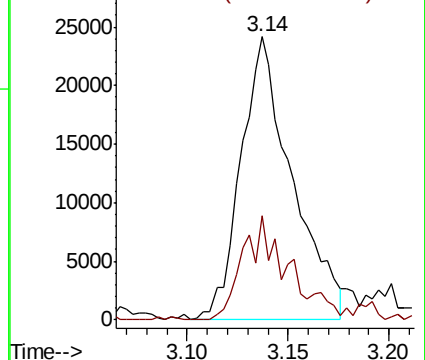
50 100

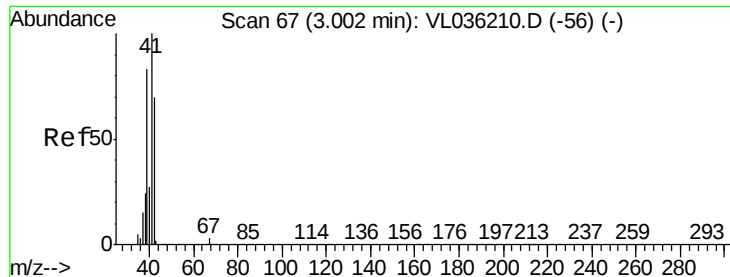
52 36.6 27.8 41.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.000 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL036249.D

Acq: 20 Jan 2021 16:34

Instrument :

MSVOA_L

ClientSampleId :

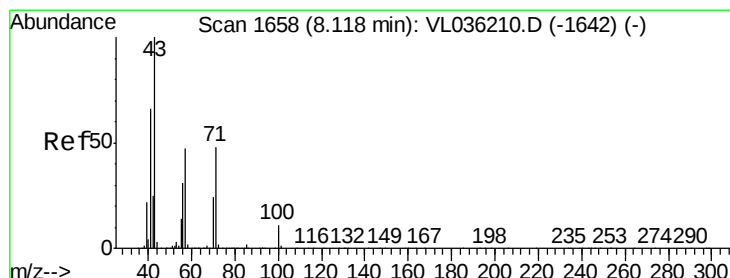
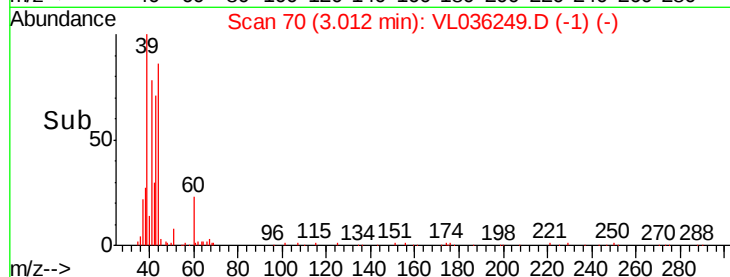
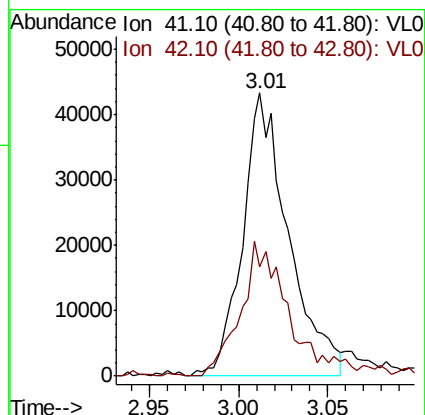
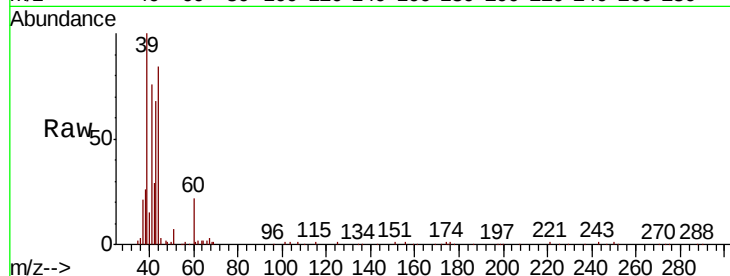
IA-2

Tot Ion: 41 Resp: 77981

Ion Ratio Lower Upper

41 100

42 52.2 57.1 85.7#



#10

Heptane

Concen: 0.086 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.00 min

Lab File: VL036249.D

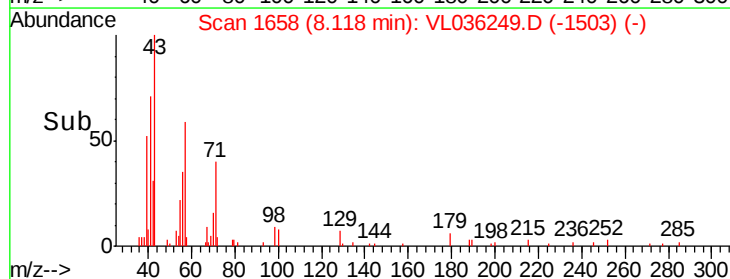
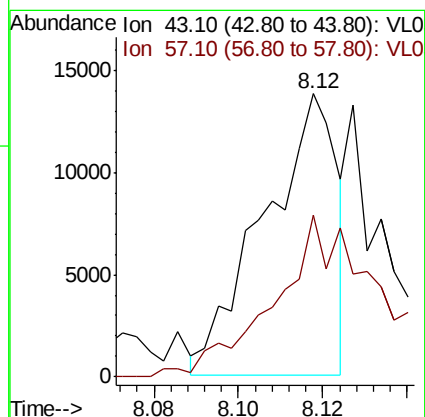
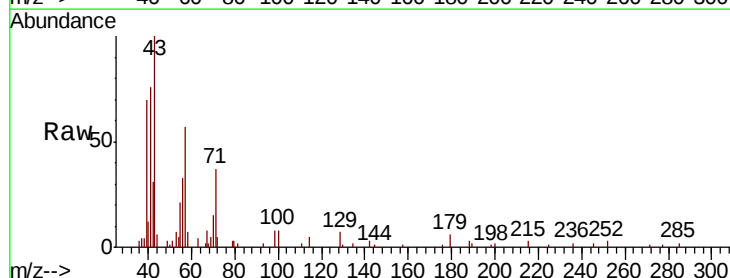
Acq: 20 Jan 2021 16:34

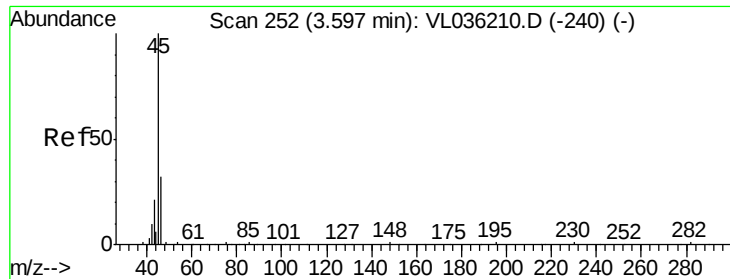
Tgt Ion: 43 Resp: 16589

Ion Ratio Lower Upper

43 100

57 85.2 38.1 57.1#





#13

Ethanol

Concen: 62.358 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.00 min

Lab File: VL036249.D

Acq: 20 Jan 2021 16:34

Instrument :

MSVOA_L

ClientSampleId :

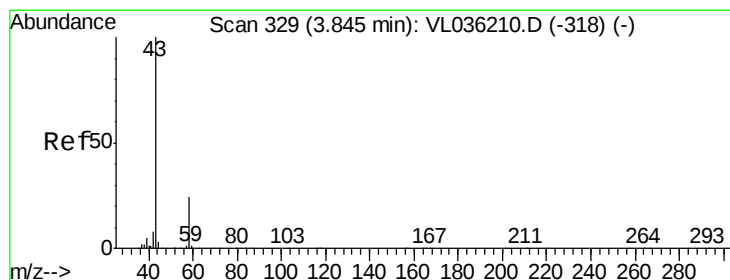
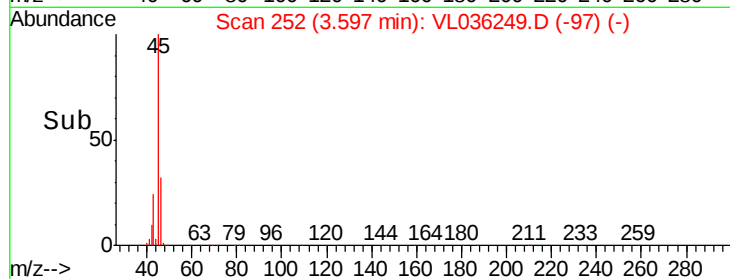
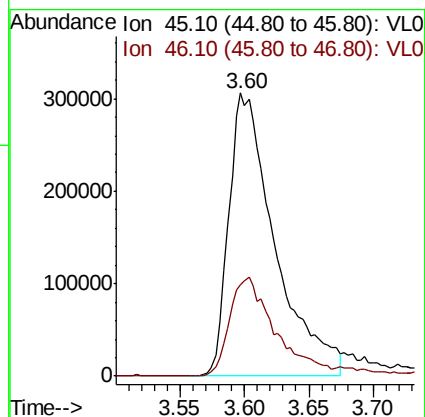
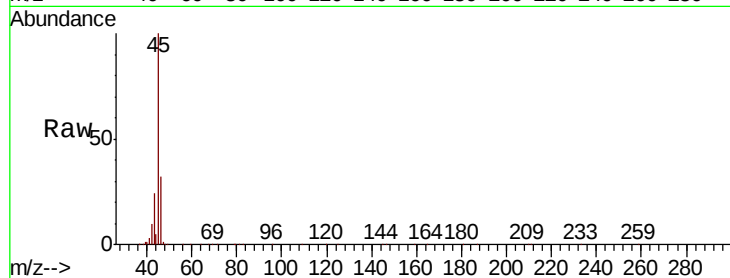
IA-2

Tot Ion: 45 Resp: 763308

Ion Ratio Lower Upper

45 100

46 38.4 19.2 77.0



#15

Acetone

Concen: 3.145 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.01 min

Lab File: VL036249.D

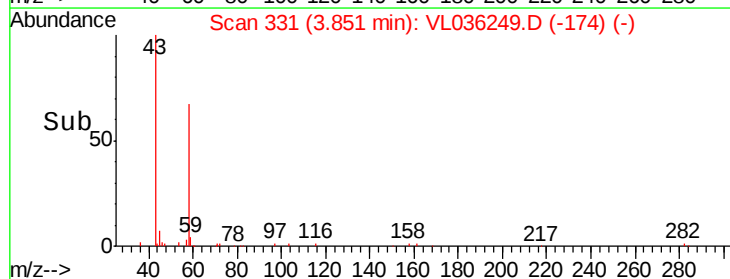
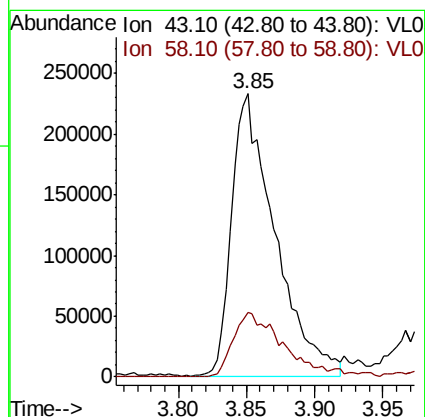
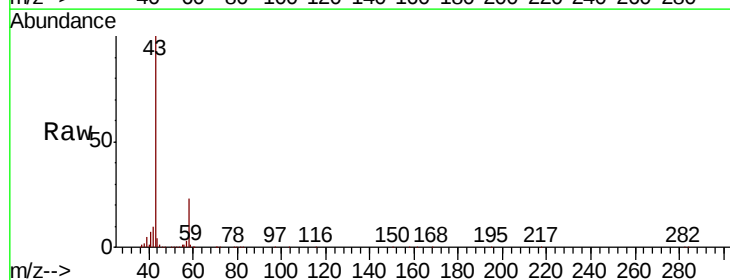
Acq: 20 Jan 2021 16:34

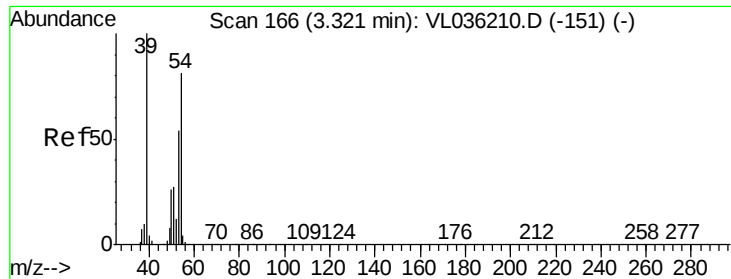
Tgt Ion: 43 Resp: 513431

Ion Ratio Lower Upper

43 100

58 27.0 20.9 31.3

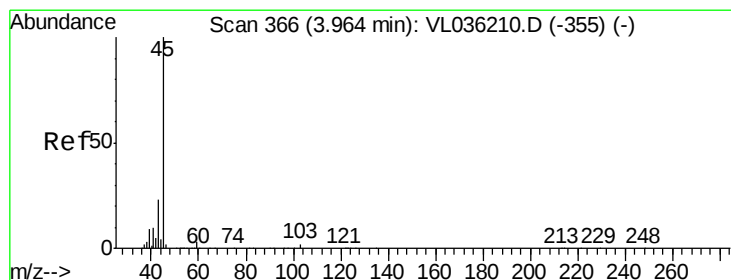
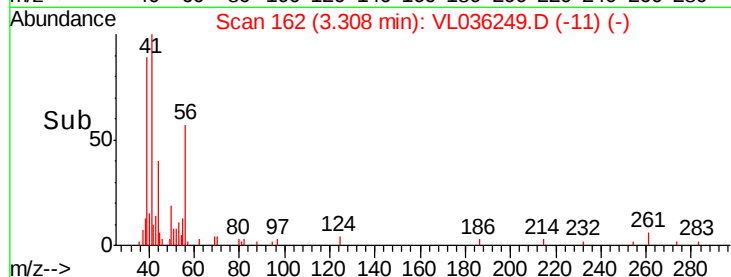
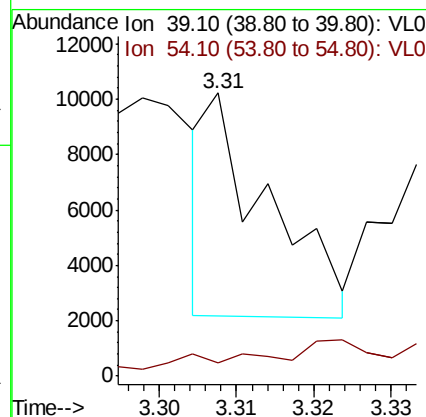
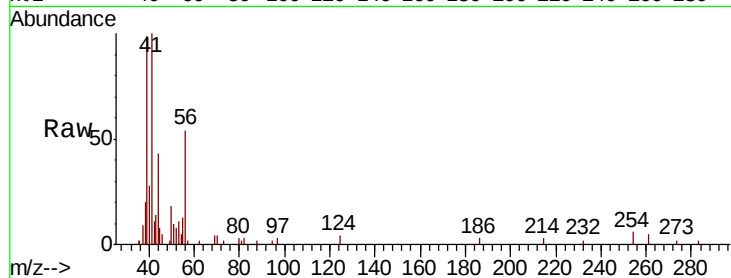




#16
 1,3-Butadiene
 Concen: 0.056 ppbv
 RT: 3.31 min Scan# 162
 Delta R.T. -0.01 min
 Lab File: VL036249.D
 Acq: 20 Jan 2021 16:34

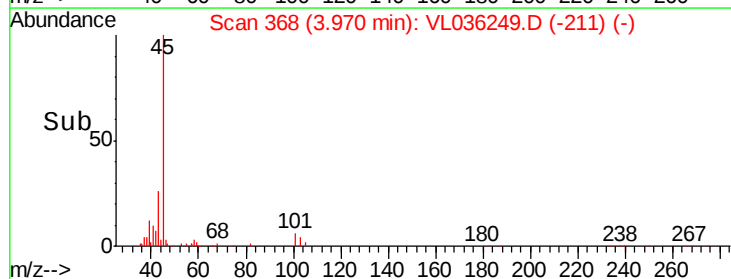
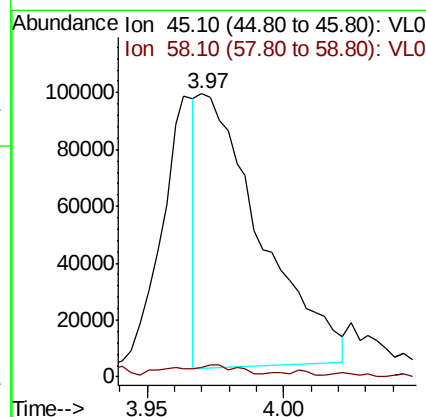
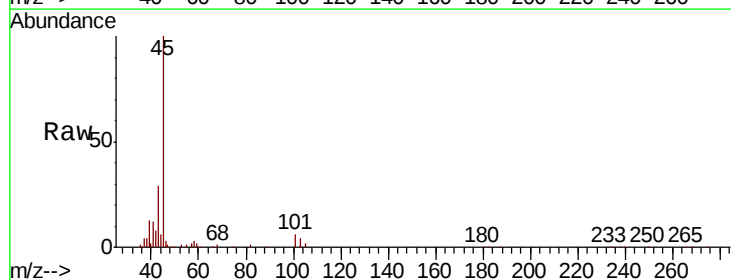
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

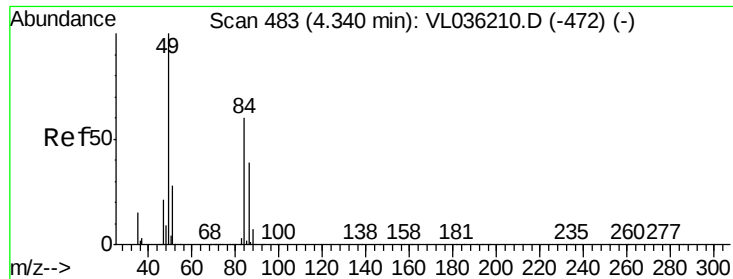
Tot Ion: 39 Resp: 4422
 Ion Ratio Lower Upper
 39 100
 54 56.6 62.5 93.7#



#19
 Isopropyl Alcohol
 Concen: 1.553 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. 0.01 min
 Lab File: VL036249.D
 Acq: 20 Jan 2021 16:34

Tgt Ion: 45 Resp: 152832
 Ion Ratio Lower Upper
 45 100
 58 6.9 1.9 2.9#

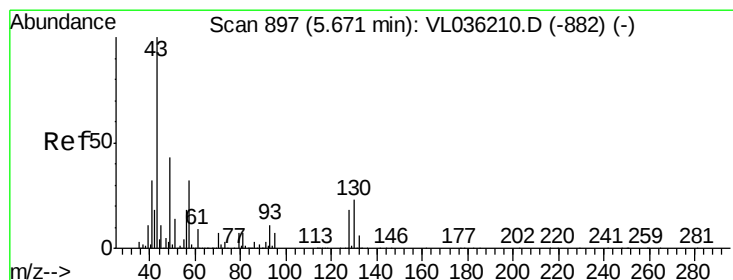
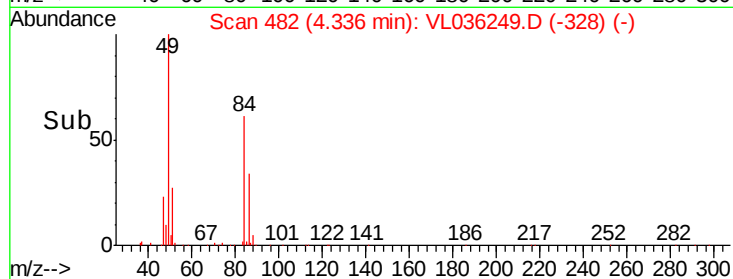
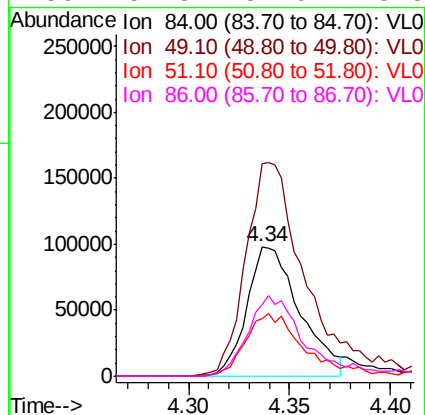
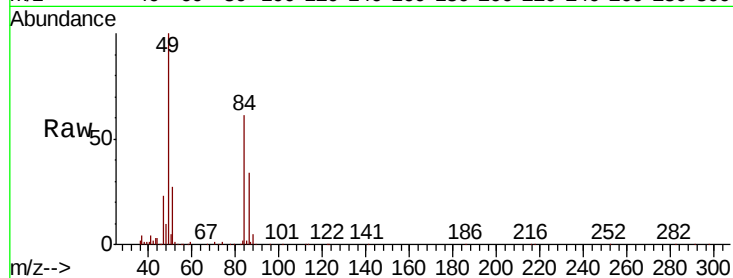




#20
Methylene Chloride
Concen: 3.459 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.00 min
Lab File: VL036249.D
Acq: 20 Jan 2021 16:34

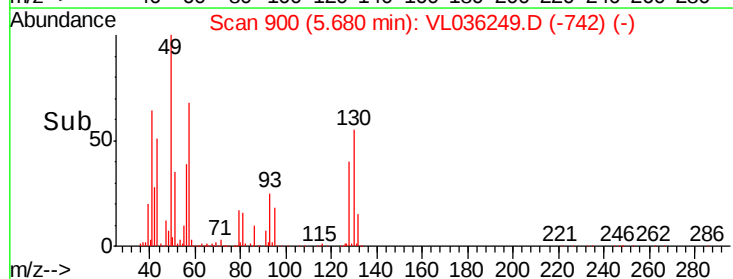
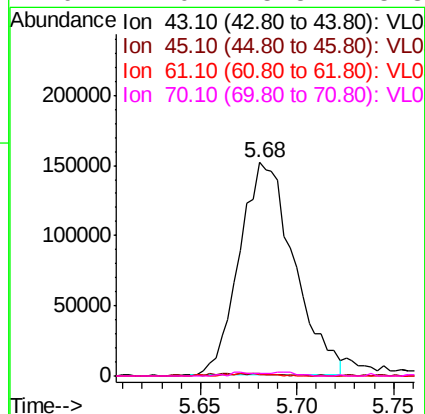
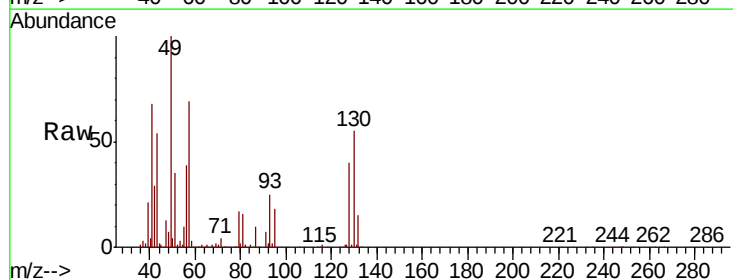
Instrument :
MSVOA_L
ClientSampled :
IA-2

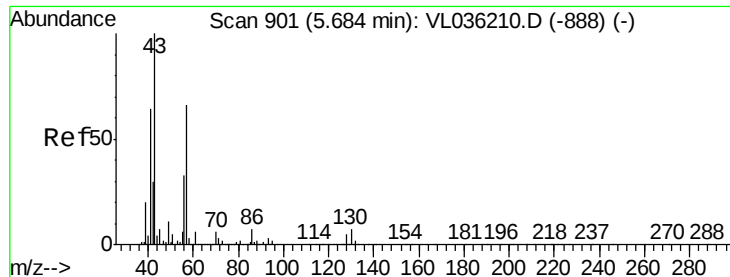
Tot Ion:	84	Resp:	180234
Ion	Ratio	Lower	Upper
84	100		
49	164.0	134.1	201.1
51	44.9	37.4	56.0
86	54.8	52.6	78.8



#25
Ethyl Acetate
Concen: 0.905 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.01 min
Lab File: VL036249.D
Acq: 20 Jan 2021 16:34

Tgt Ion:	43	Resp:	296460
Ion	Ratio	Lower	Upper
43	100		
45	1.9	8.3	12.5#
61	1.0	7.4	11.2#
70	2.0	5.5	8.3#





#26

Hexane

Concen: 2.888 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL036249.D

Acq: 20 Jan 2021 16:34

Instrument :

MSVOA_L

ClientSampleId :

IA-2

Tot Ion: 57 Resp: 394068

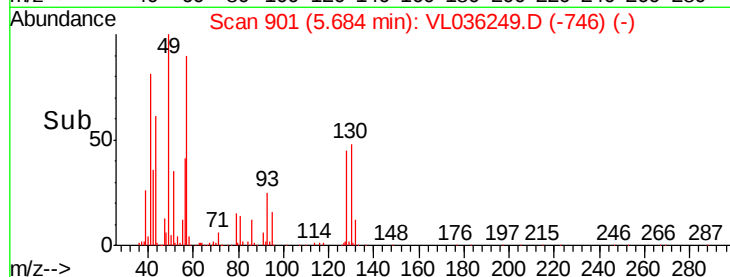
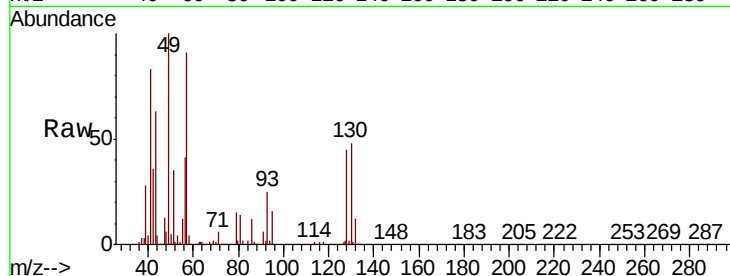
Ion Ratio Lower Upper

57 100

41 103.7 83.0 124.6

43 81.5 202.4 303.6#

56 55.3 43.4 65.0

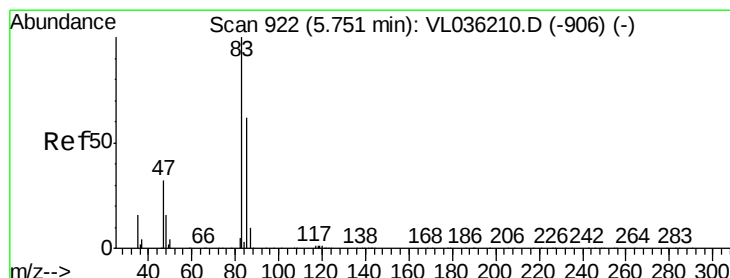
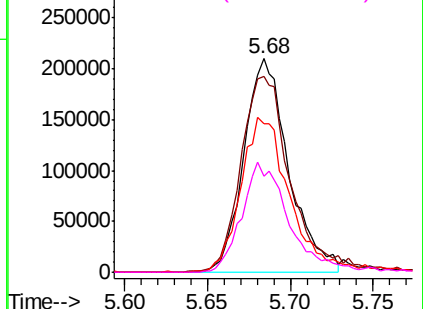


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#29

Chloroform

Concen: 0.209 ppbv

RT: 5.75 min Scan# 922

Delta R.T. -0.00 min

Lab File: VL036249.D

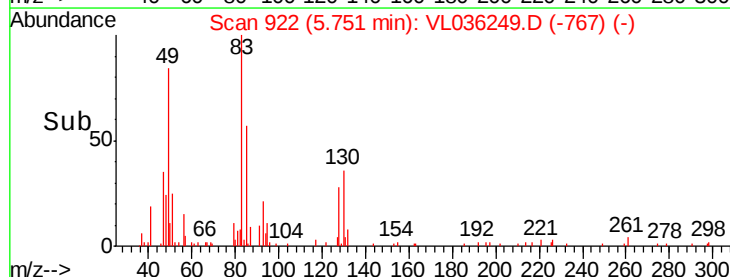
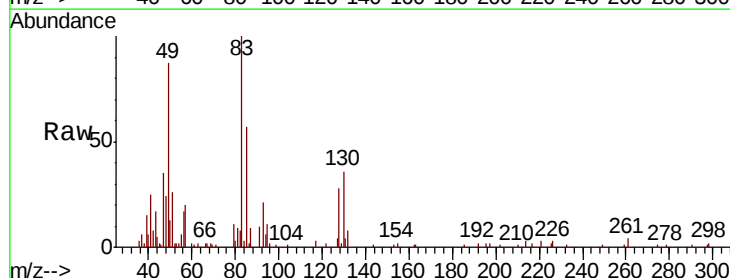
Acq: 20 Jan 2021 16:34

Tgt Ion: 83 Resp: 40897

Ion Ratio Lower Upper

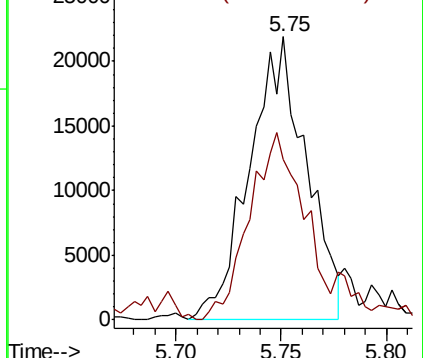
83 100

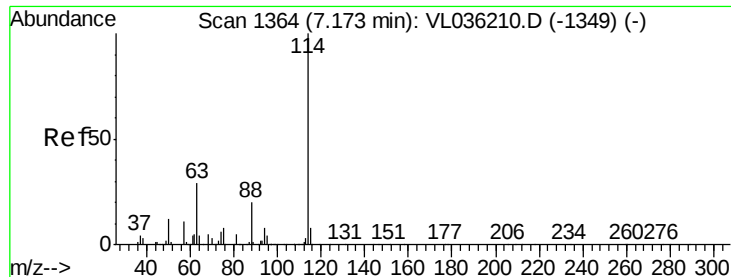
85 54.8 49.3 73.9



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

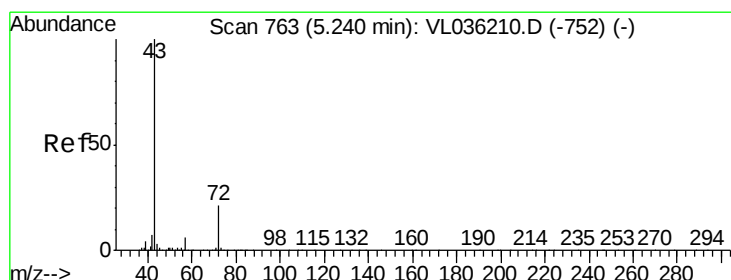
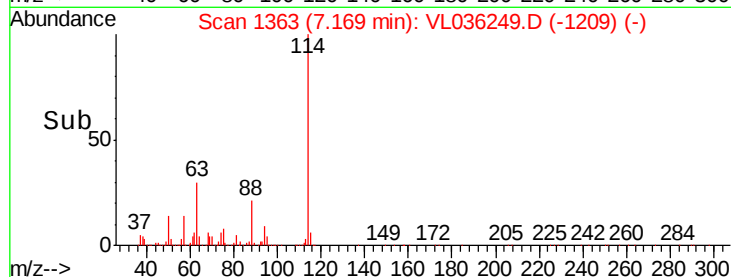
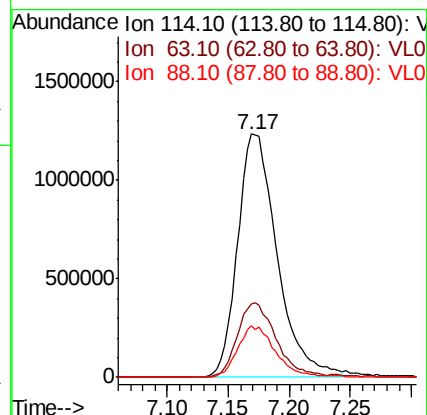
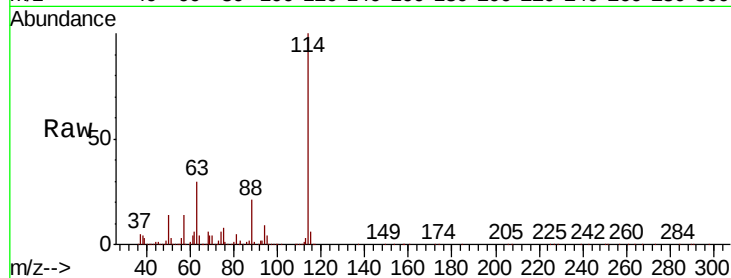




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.00 min
 Lab File: VL036249.D
 Acq: 20 Jan 2021 16:34

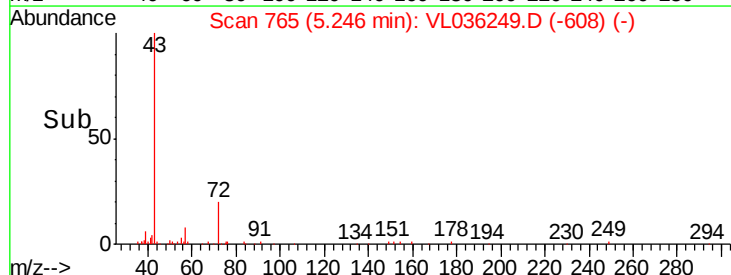
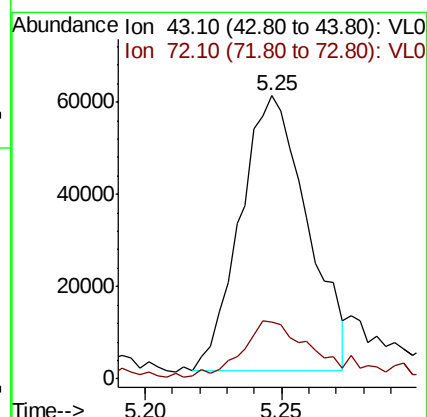
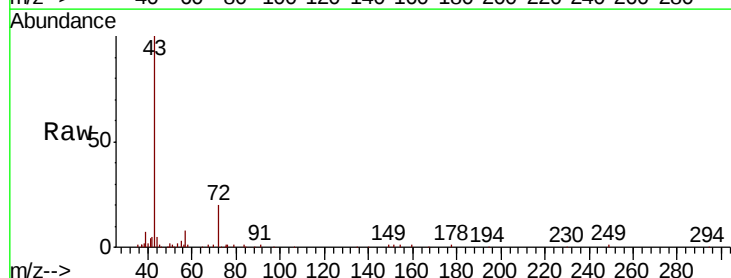
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

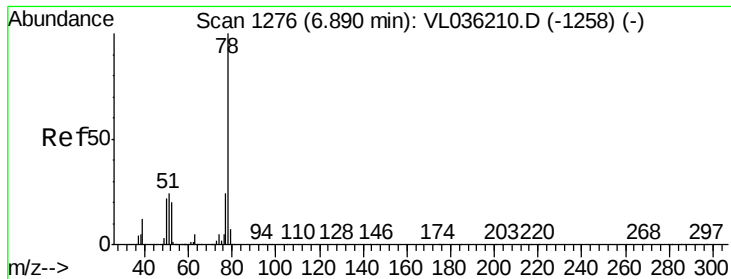
Tot Ion:114 Resp: 2778995
 Ion Ratio Lower Upper
 114 100
 63 31.0 24.7 37.1
 88 20.7 16.6 24.8



#34
 2-Butanone
 Concen: 0.498 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. 0.01 min
 Lab File: VL036249.D
 Acq: 20 Jan 2021 16:34

Tgt Ion: 43 Resp: 101825
 Ion Ratio Lower Upper
 43 100
 72 26.9 16.1 24.1#





#36

Benzene

Concen: 0.144 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. -0.00 min

Lab File: VL036249.D

Acq: 20 Jan 2021 16:34

Instrument :

MSVOA_L

ClientSampleId :

IA-2

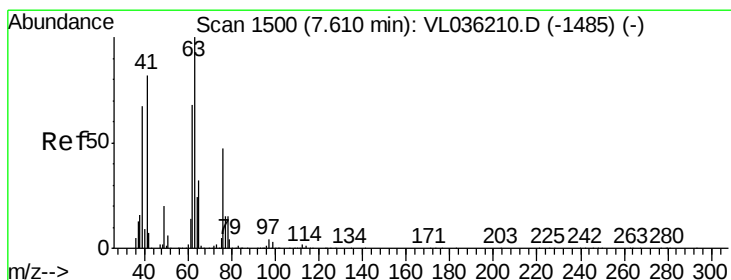
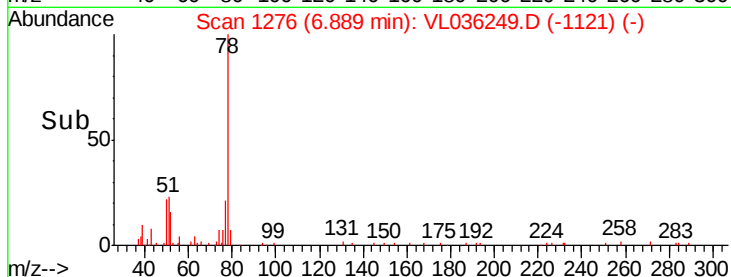
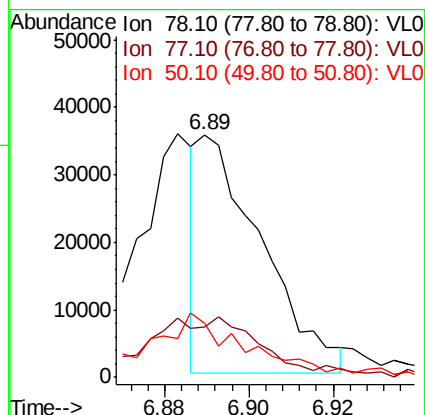
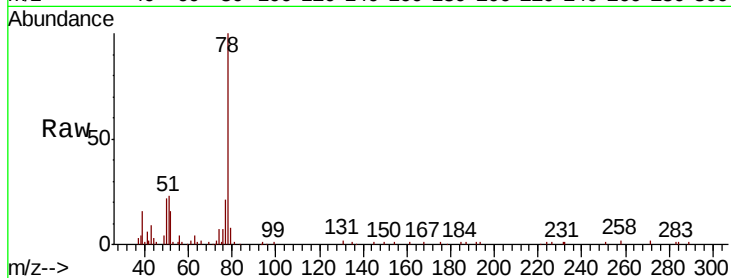
Tot Ion: 78 Resp: 36598

Ion Ratio Lower Upper

78 100

77 19.4 19.4 29.0

50 20.7 17.4 26.2



#39

1,2-Dichloropropane

Concen: 8.022 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.44 min

Lab File: VL036249.D

Acq: 20 Jan 2021 16:34

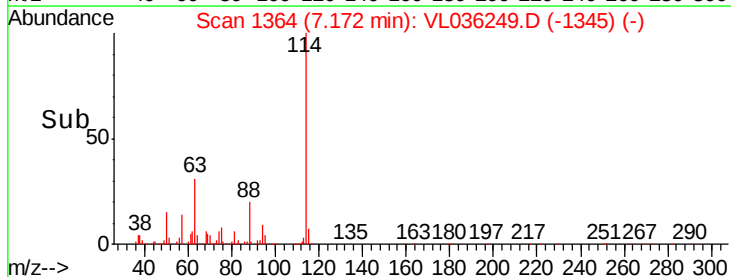
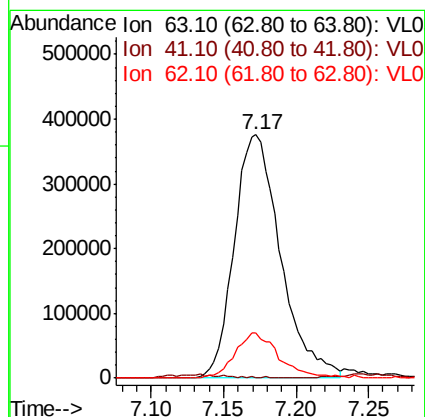
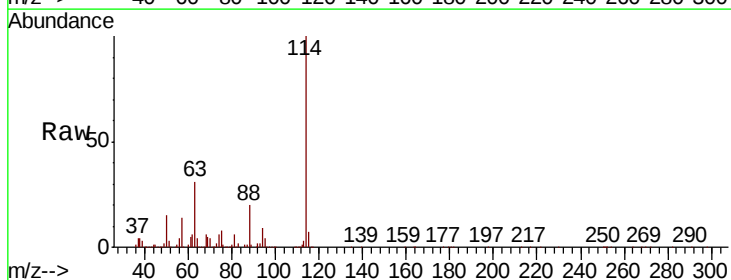
Tgt Ion: 63 Resp: 829366

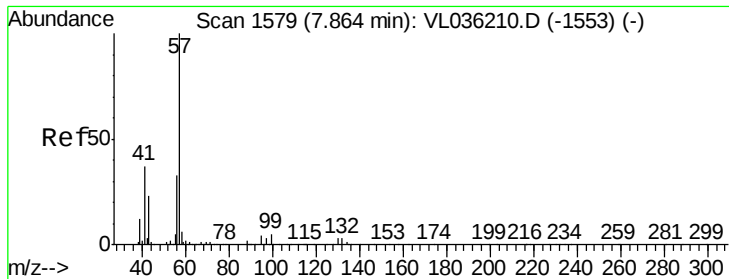
Ion Ratio Lower Upper

63 100

41 0.0 66.1 99.1#

62 18.4 54.8 82.2#

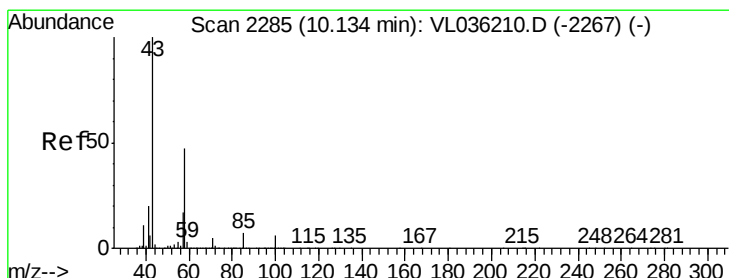
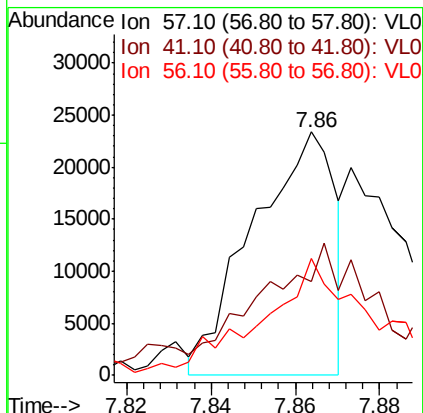
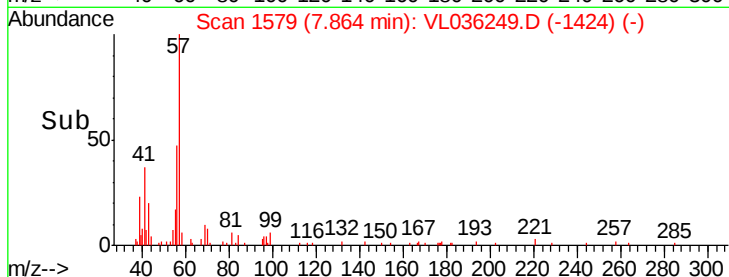
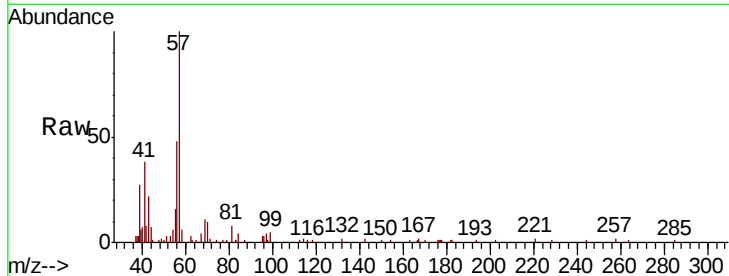




#44
2,2,4-Trimethylpentane
Concen: 0.067 ppbv
RT: 7.86 min Scan# 1579
Delta R.T. -0.00 min
Lab File: VL036249.D
Acq: 20 Jan 2021 16:34

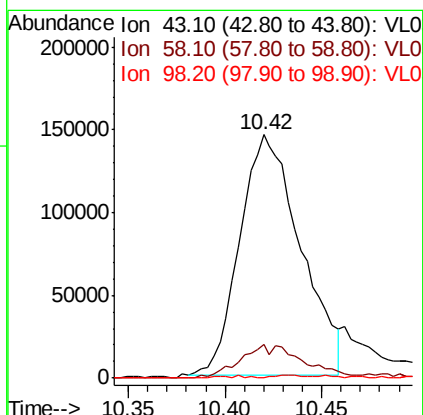
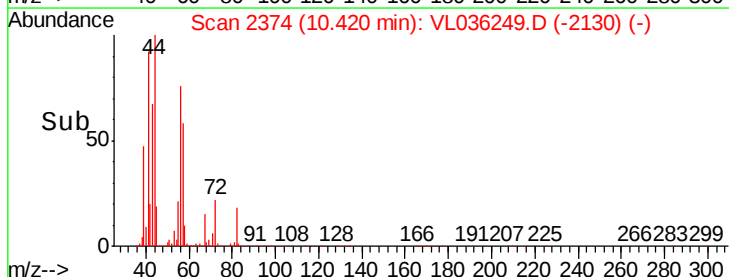
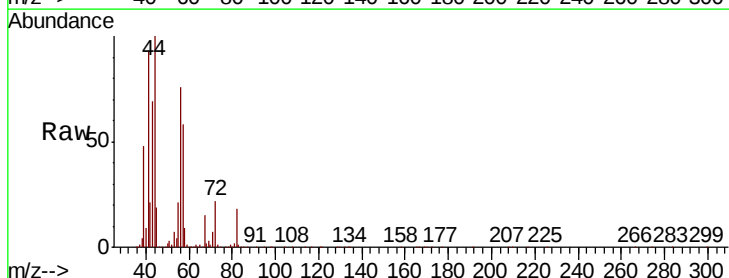
Instrument :
MSVOA_L
ClientSampleId :
IA-2

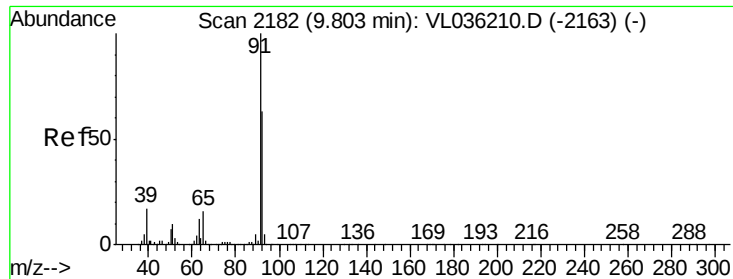
Tot Ion: 57 Resp: 31553
Ion Ratio Lower Upper
57 100
41 109.1 28.5 42.7#
56 74.9 25.5 38.3#



#51
2-Hexanone
Concen: 1.321 ppbv
RT: 10.42 min Scan# 2374
Delta R.T. 0.29 min
Lab File: VL036249.D
Acq: 20 Jan 2021 16:34

Tgt Ion: 43 Resp: 318048
Ion Ratio Lower Upper
43 100
58 15.9 37.4 56.0#
98 1.0 0.2 0.2#





#53

Toluene

Concen: 4.016 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL036249.D

Acq: 20 Jan 2021 16:34

Instrument :

MSVOA_L

ClientSampleId :

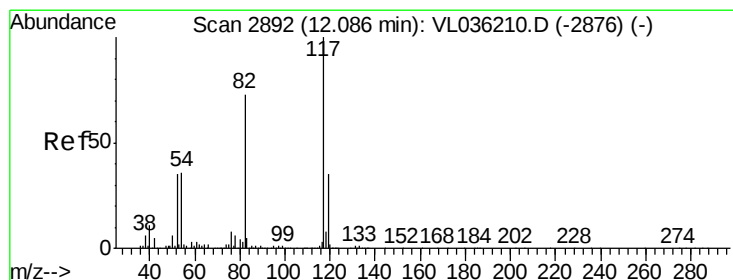
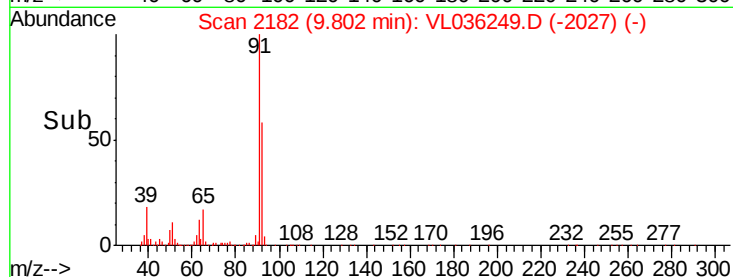
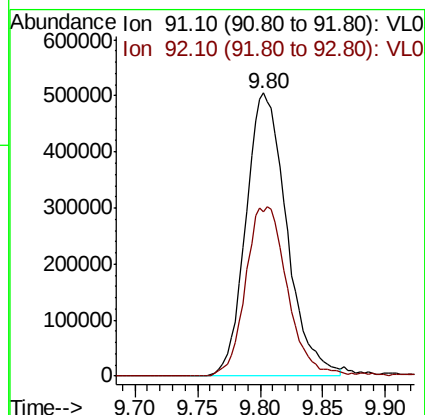
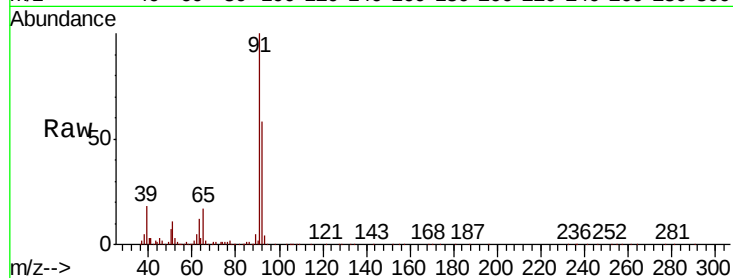
IA-2

Tot Ion: 91 Resp: 1143991

Ion Ratio Lower Upper

91 100

92 61.5 48.5 72.7



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.00 min

Lab File: VL036249.D

Acq: 20 Jan 2021 16:34

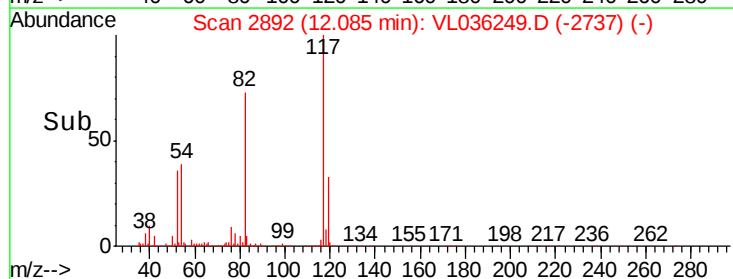
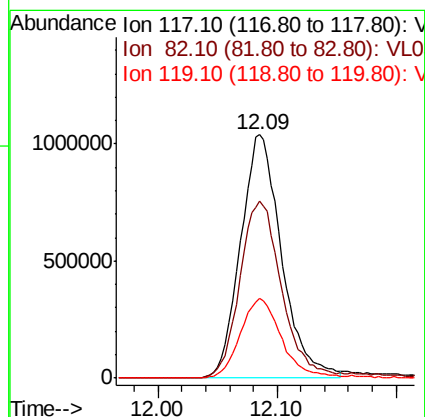
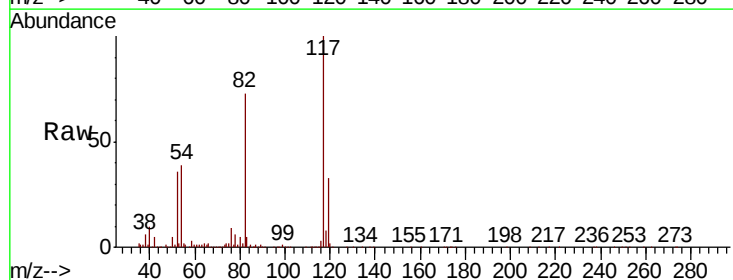
Tgt Ion: 117 Resp: 2480282

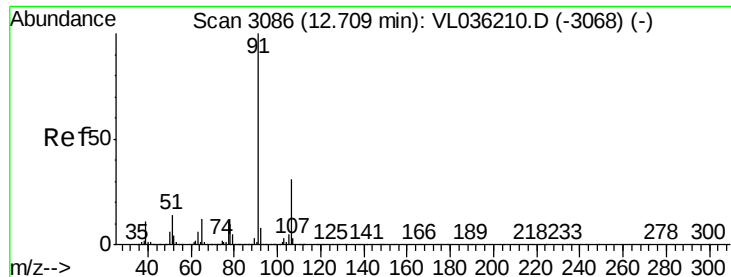
Ion Ratio Lower Upper

117 100

82 76.6 59.7 89.5

119 33.4 28.6 43.0





#58

Ethyl Benzene

Concen: 0.104 ppbv

RT: 12.71 min Scan# 3085

Delta R.T. -0.00 min

Lab File: VL036249.D

Acq: 20 Jan 2021 16:34

Instrument :

MSVOA_L

ClientSampleId :

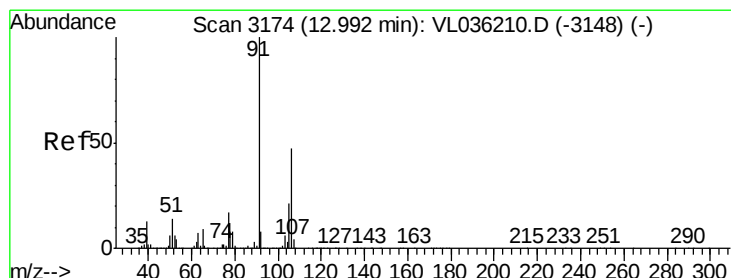
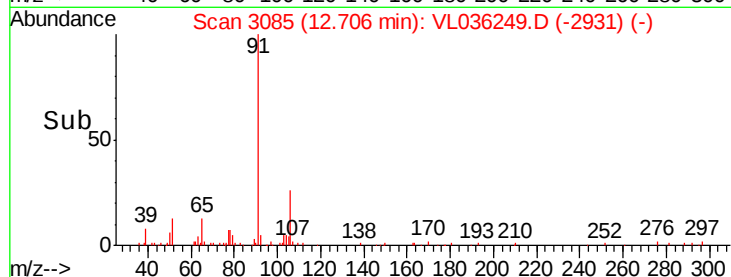
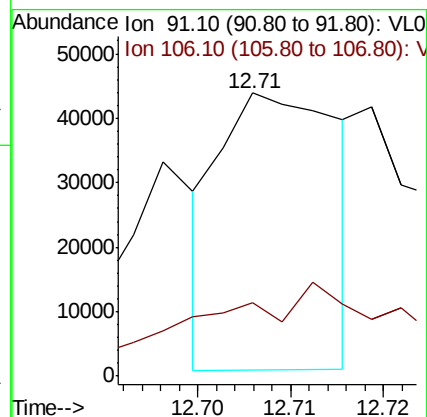
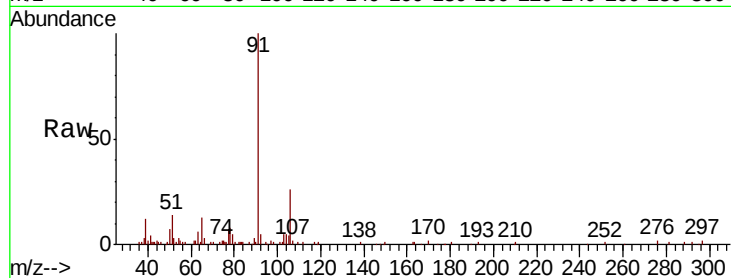
IA-2

Tot Ion: 91 Resp: 38103

Ion Ratio Lower Upper

91 100

106 14.3 24.8 37.2#



#59

m/p-Xylene

Concen: 1.258 ppbv

RT: 12.97 min Scan# 3166

Delta R.T. -0.03 min

Lab File: VL036249.D

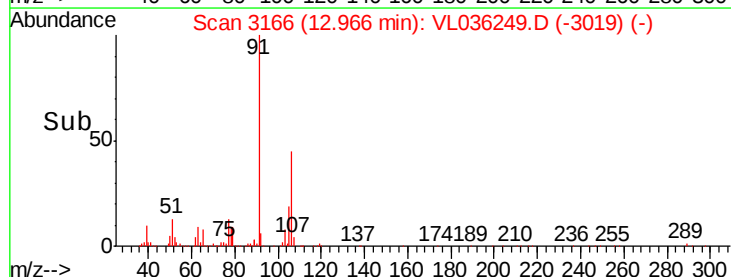
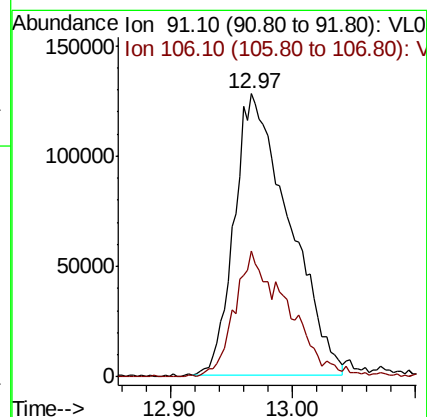
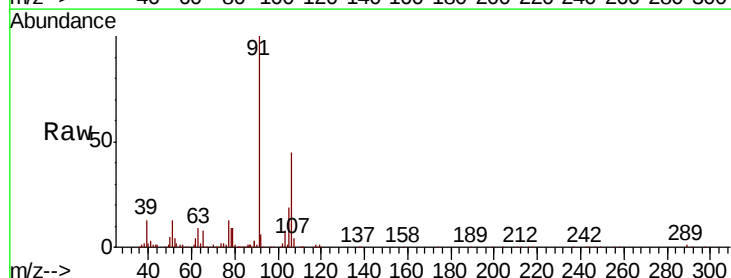
Acq: 20 Jan 2021 16:34

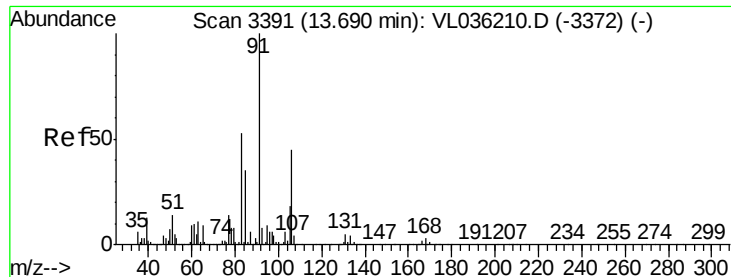
Tgt Ion: 91 Resp: 397700

Ion Ratio Lower Upper

91 100

106 43.8 34.6 51.8

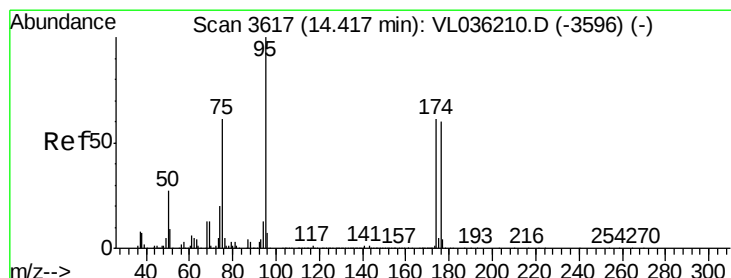
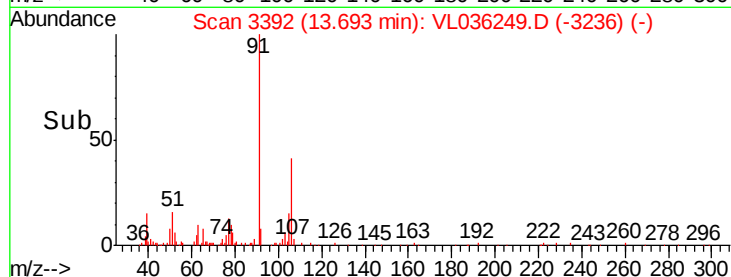
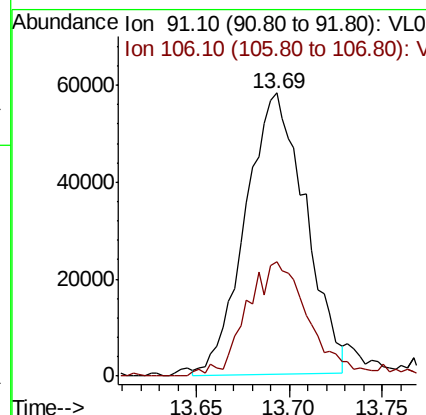
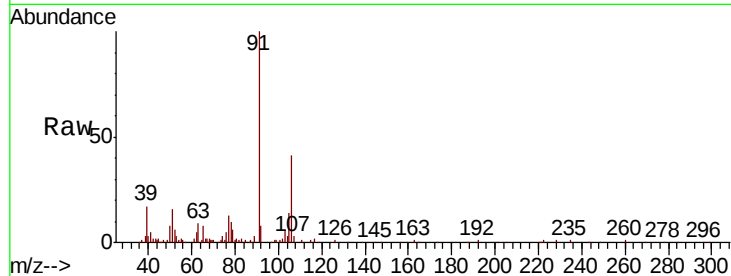




#60
o-Xylene
Concen: 0.430 ppbv
RT: 13.69 min Scan# 3392
Delta R.T. 0.00 min
Lab File: VL036249.D
Acq: 20 Jan 2021 16:34

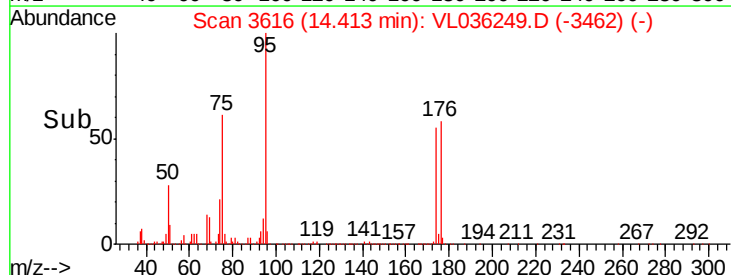
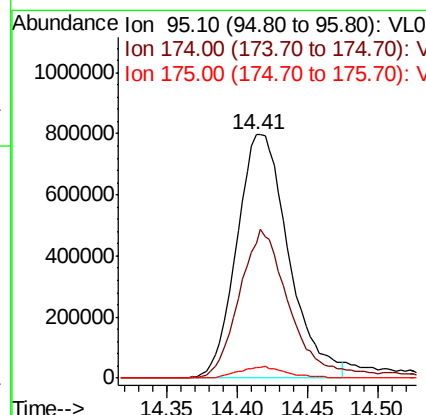
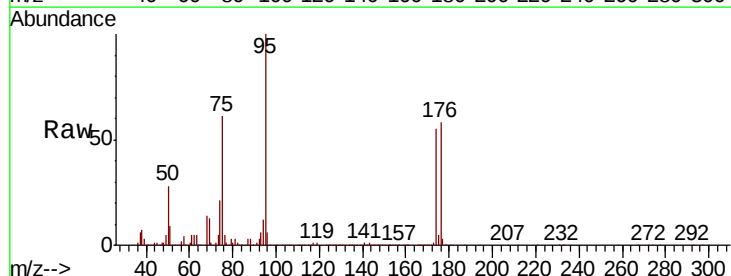
Instrument :
MSVOA_L
ClientSampleId :
IA-2

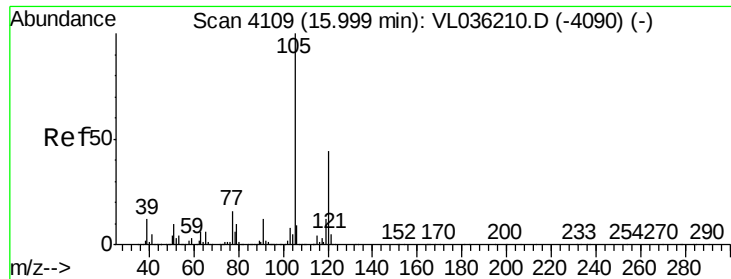
Tot Ion: 91 Resp: 130956
Ion Ratio Lower Upper
91 100
106 43.2 21.9 65.8



#68
1-Bromo-4-Fluorobenzene
Concen: 9.943 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. -0.00 min
Lab File: VL036249.D
Acq: 20 Jan 2021 16:34

Tgt Ion: 95 Resp: 2041359
Ion Ratio Lower Upper
95 100
174 61.2 49.4 74.0
175 4.6 3.8 5.8





#73

1,3,5-Trimethylbenzene

Concen: 0.041 ppbv

RT: 16.00 min Scan# 4109

Delta R.T. -0.00 min

Lab File: VL036249.D

Acq: 20 Jan 2021 16:34

Instrument :

MSVOA_L

ClientSampled :

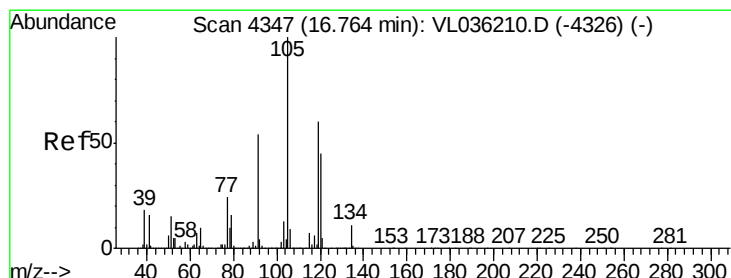
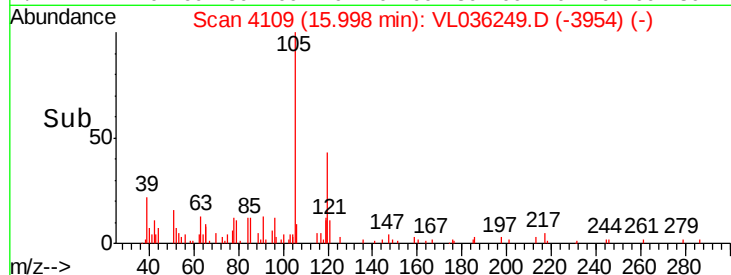
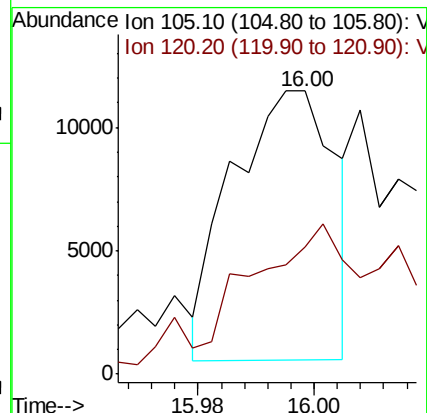
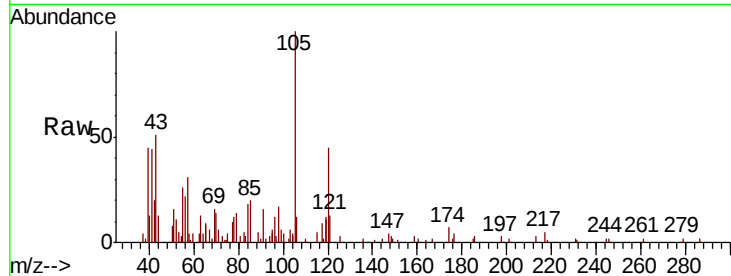
IA-2

Tot Ion:105 Resp: 13439

Ion Ratio Lower Upper

105 100

120 45.0 35.5 53.3



#74

1,2,4-Trimethylbenzene

Concen: 0.040 ppbv

RT: 16.76 min Scan# 4347

Delta R.T. -0.00 min

Lab File: VL036249.D

Acq: 20 Jan 2021 16:34

Tgt Ion:105 Resp: 13446

Ion Ratio Lower Upper

105 100

120 8.3 36.2 54.2#

91 27.0 43.3 64.9#

77 16.8 19.1 28.7#

