

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120720\
 Data File : VL036086.D
 Acq On : 8 Dec 2020 5:03
 Operator : SY/AP
 Sample : L4948-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5BDL

Quant Time: Dec 08 08:42:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 07 16:56:49 2020
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1292327	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2770974	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2512195	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	2107467	10.56	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.60%

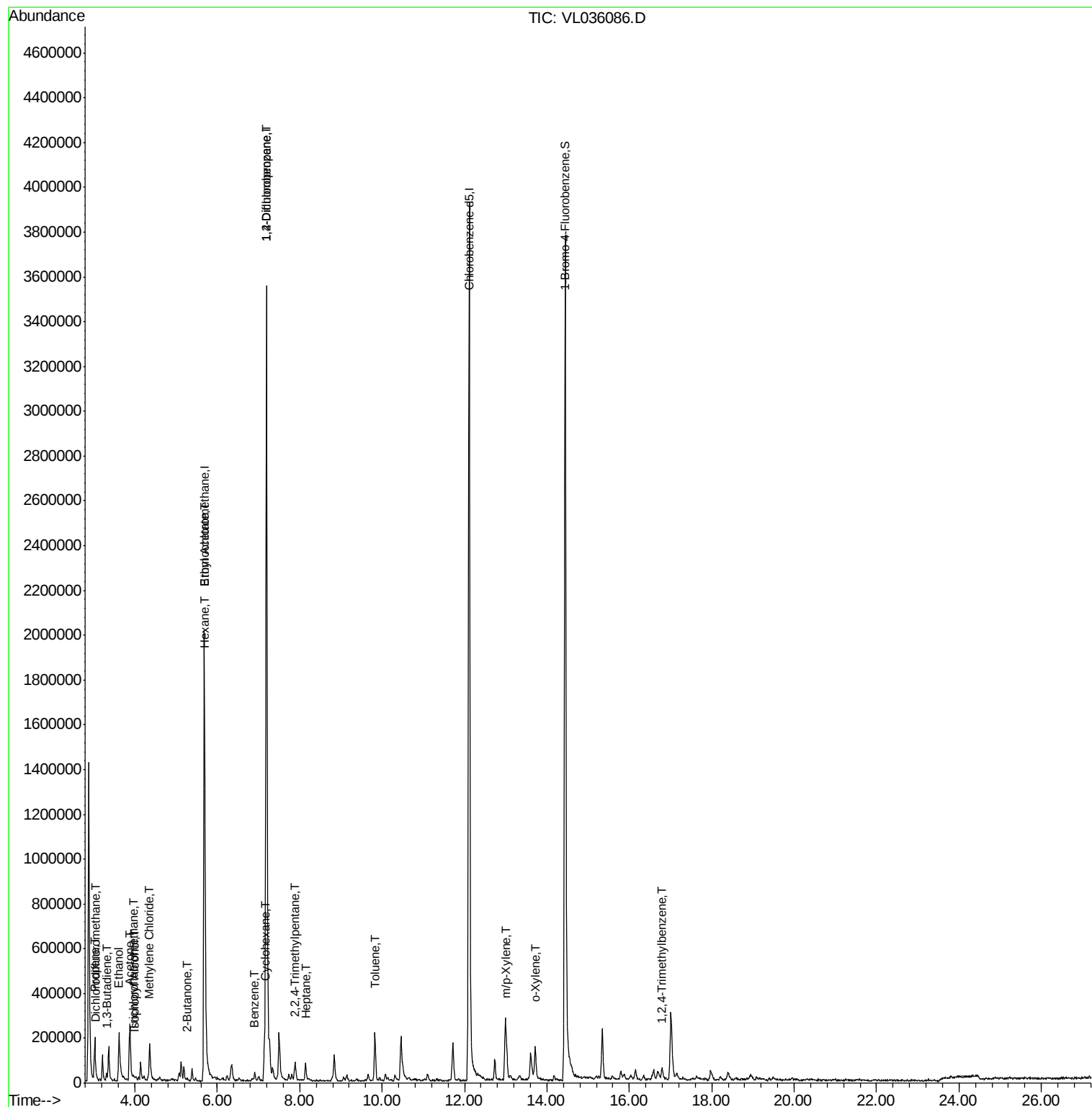
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	10918	0.072	ppbv 88
9) Propene	3.02	41	64306	0.871	ppbv 93
10) Heptane	8.14	43	31182	0.165	ppbv # 65
11) Trichlorofluoromethane	3.96	101	7371	0.042	ppbv 92
13) Ethanol	3.61	45	317781	31.209	ppbv 90
15) Acetone	3.86	43	165705	1.067	ppbv # 71
16) 1,3-Butadiene	3.33	39	3513	0.045	ppbv # 78
19) Isopropyl Alcohol	3.99	45	3561	0.038	ppbv # 100
20) Methylene Chloride	4.36	84	43006	0.676	ppbv # 92
25) Ethyl Acetate	5.69	43	27154	0.088	ppbv # 81
26) Hexane	5.70	57	94319	0.675	ppbv # 42
30) Cyclohexane	7.15	84	66211	0.645	ppbv 92
34) 2-Butanone	5.27	43	10756	0.059	ppbv # 53
36) Benzene	6.91	78	15530	0.066	ppbv 95
39) 1,2-Dichloropropane	7.19	63	805656	8.687	ppbv # 24
44) 2,2,4-Trimethylpentane	7.88	57	28138	0.066	ppbv # 5
53) Toluene	9.83	91	151963	0.576	ppbv 97
59) m/p-Xylene	13.03	91	54129	0.187	ppbv # 34
60) o-Xylene	13.72	91	115504	0.423	ppbv 99
74) 1,2,4-Trimethylbenzene	16.80	105	26638	0.094	ppbv # 61

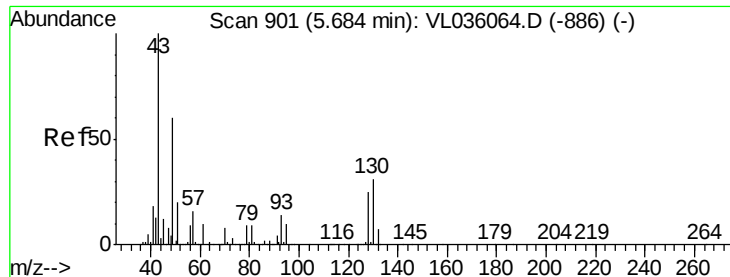
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. -0.00 min

Lab File: VL036086.D

Acq: 8 Dec 2020 5:03

Instrument :

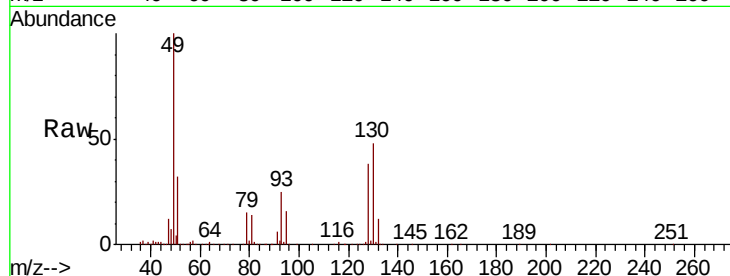
MSVOA_L

ClientSampleId :

IA-5BDL

Tot Ion: 49 Resp: 1292327

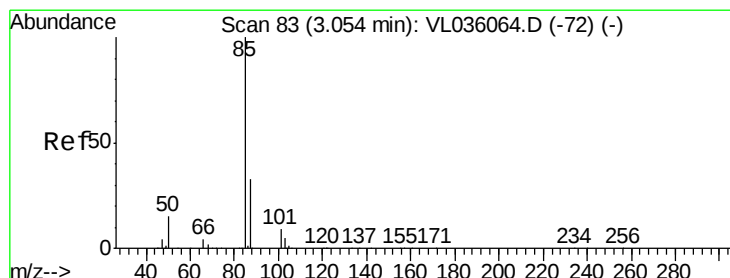
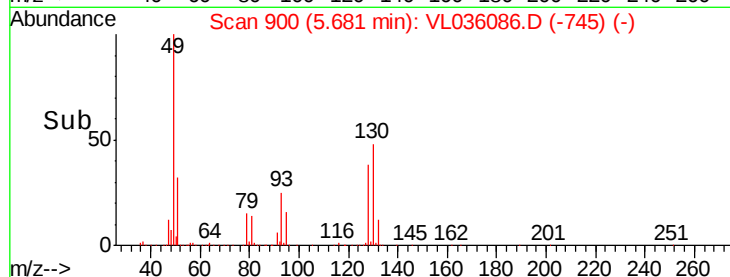
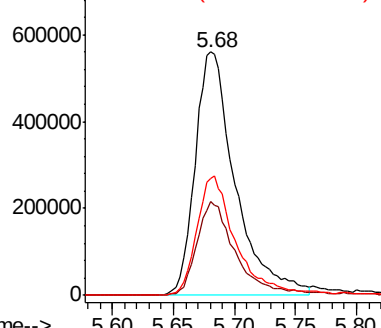
Ion	Ratio	Lower	Upper
49	100		
128	38.3	21.1	63.1
130	49.1	27.1	81.3



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: 0.072 ppbv

RT: 3.05 min Scan# 83

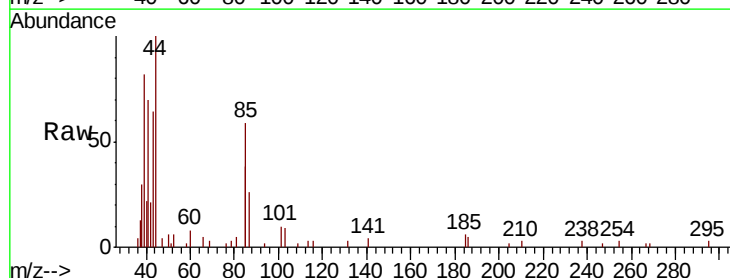
Delta R.T. 0.00 min

Lab File: VL036086.D

Acq: 8 Dec 2020 5:03

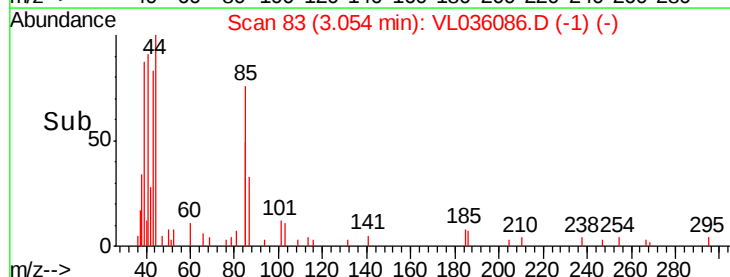
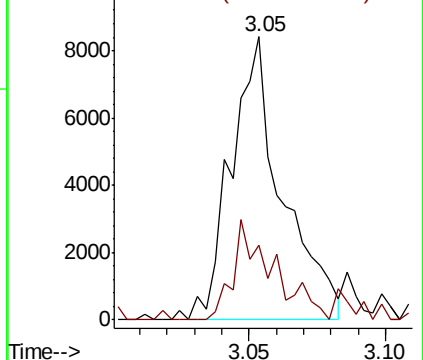
Tgt Ion: 85 Resp: 10918

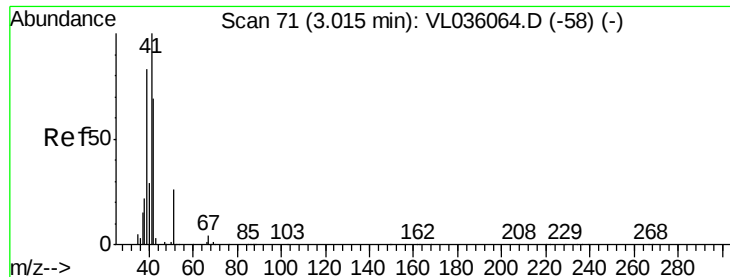
Ion	Ratio	Lower	Upper
85	100		
87	26.5	26.5	39.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 0.871 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL036086.D

Acq: 8 Dec 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

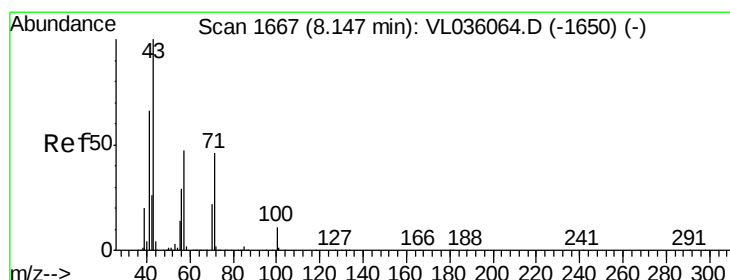
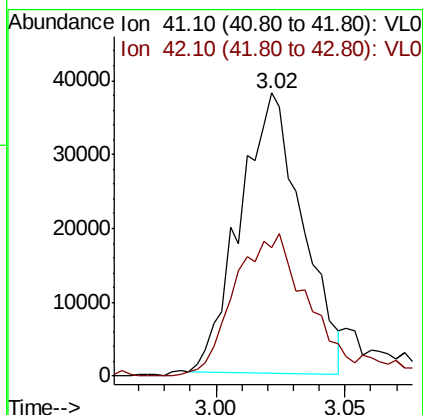
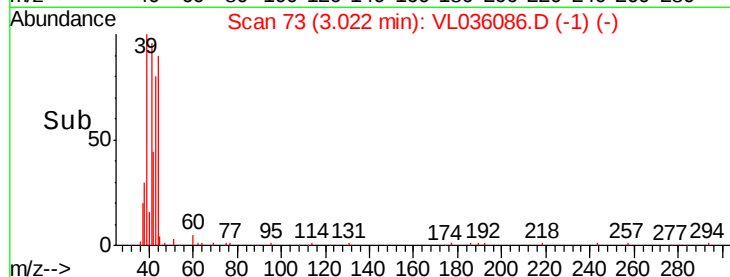
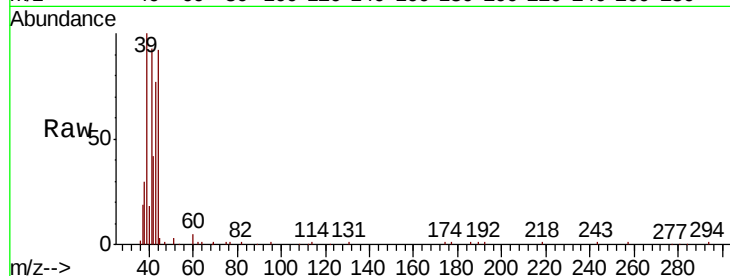
IA-5BDL

Tot Ion: 41 Resp: 64306

Ion Ratio Lower Upper

41 100

42 65.1 57.0 85.6



#10

Heptane

Concen: 0.165 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. -0.01 min

Lab File: VL036086.D

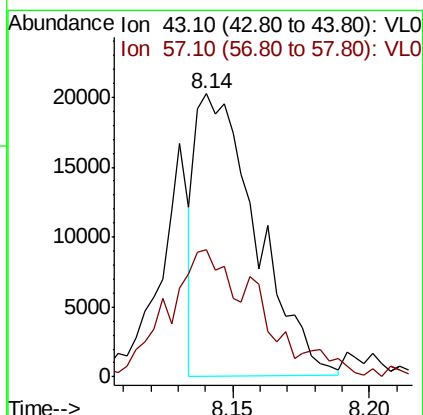
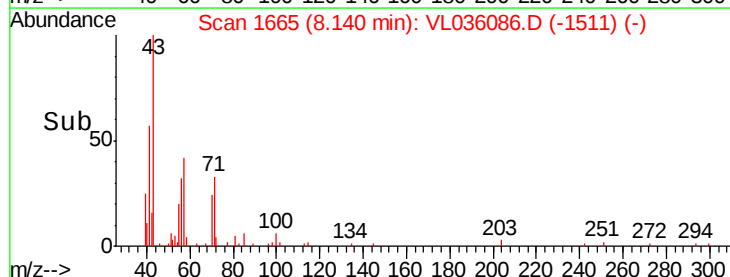
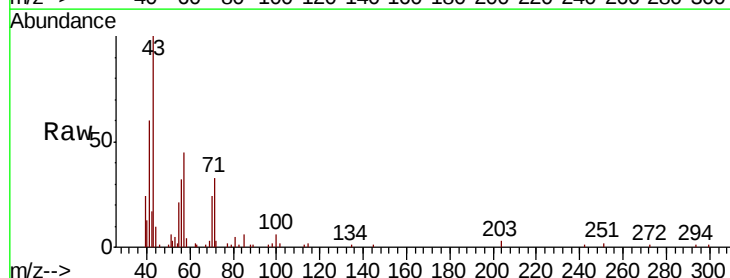
Acq: 8 Dec 2020 5:03

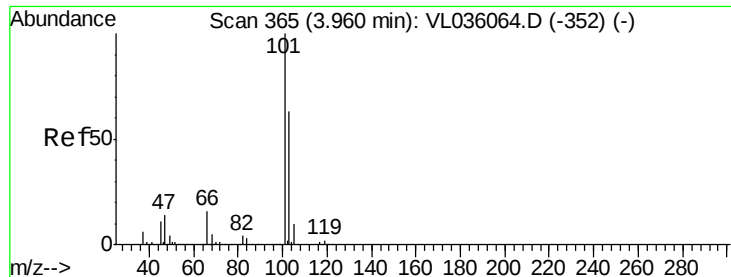
Tgt Ion: 43 Resp: 31182

Ion Ratio Lower Upper

43 100

57 70.9 37.9 56.9#

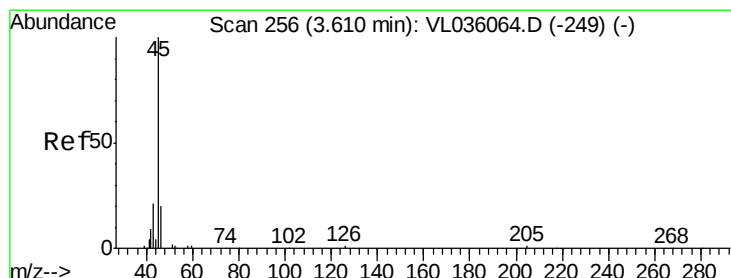
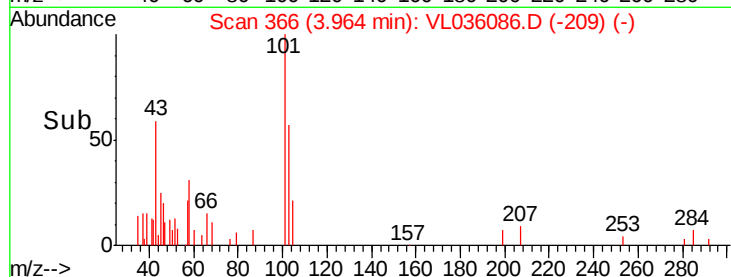
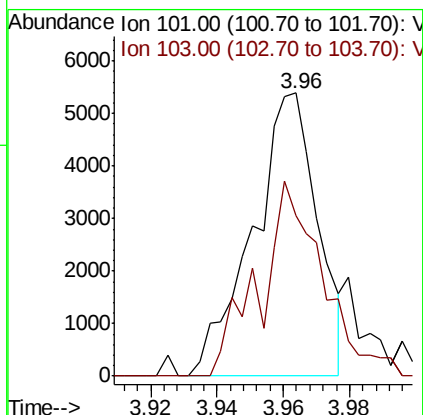
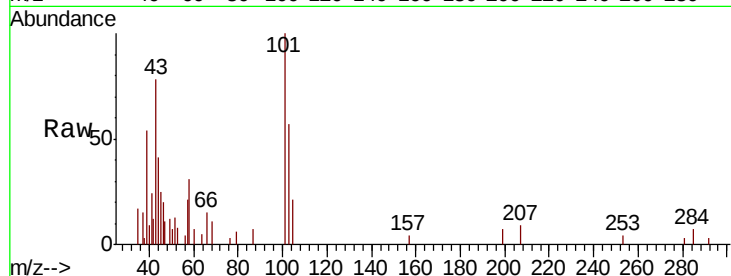




#11
 Trichlorofluoromethane
 Concen: 0.042 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. 0.00 min
 Lab File: VL036086.D
 Acq: 8 Dec 2020 5:03

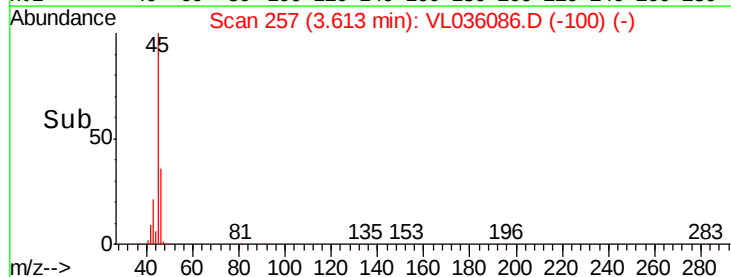
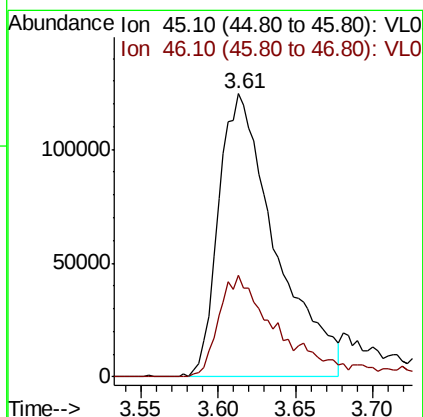
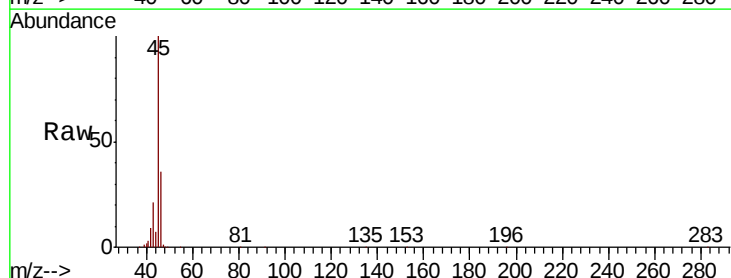
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5BDL

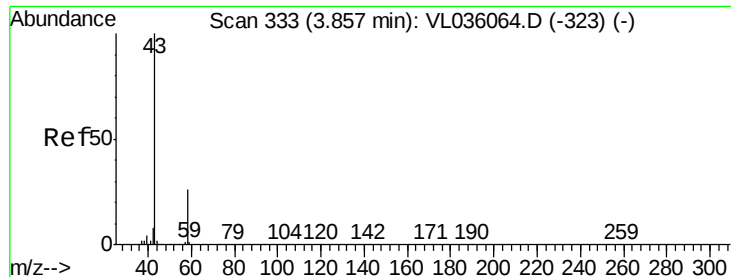
Tot Ion:101 Resp: 7371
 Ion Ratio Lower Upper
 101 100
 103 56.8 50.3 75.5



#13
 Ethanol
 Concen: 31.209 ppbv
 RT: 3.61 min Scan# 257
 Delta R.T. 0.00 min
 Lab File: VL036086.D
 Acq: 8 Dec 2020 5:03

Tgt Ion: 45 Resp: 317781
 Ion Ratio Lower Upper
 45 100
 46 40.4 19.0 75.8





#15

Acetone

Concen: 1.067 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.01 min

Lab File: VL036086.D

Acq: 8 Dec 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

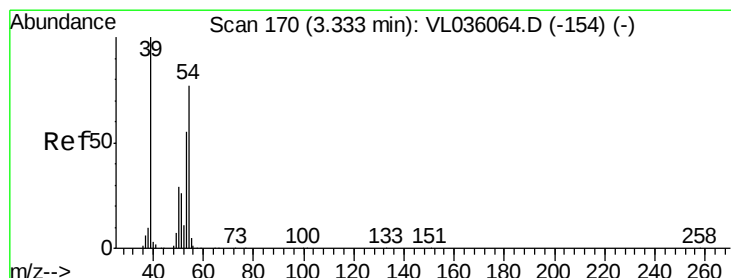
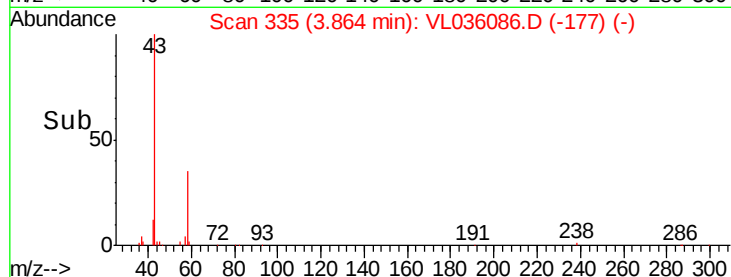
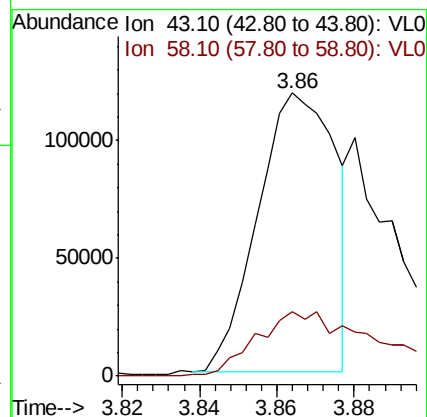
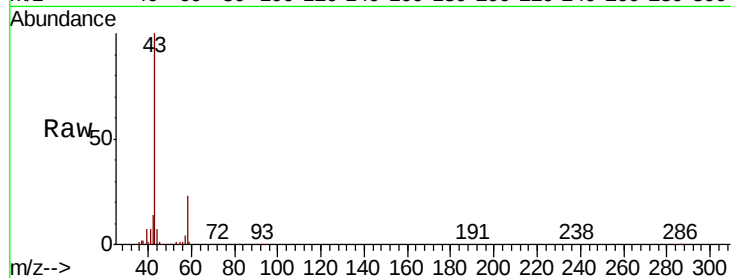
IA-5BDL

Tot Ion: 43 Resp: 165705

Ion Ratio Lower Upper

43 100

58 41.0 20.9 31.3#



#16

1,3-Butadiene

Concen: 0.045 ppbv

RT: 3.33 min Scan# 168

Delta R.T. -0.01 min

Lab File: VL036086.D

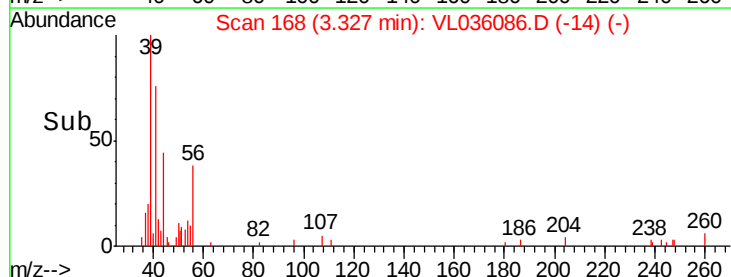
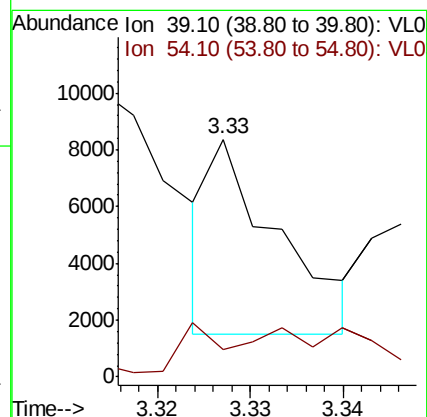
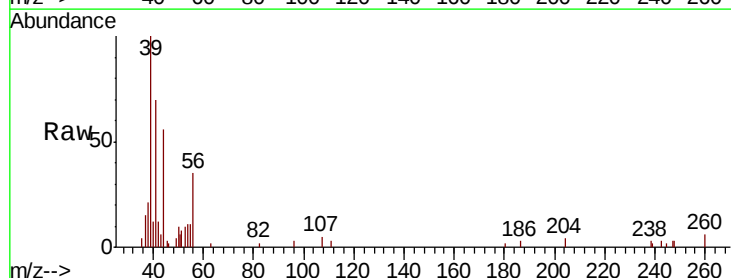
Acq: 8 Dec 2020 5:03

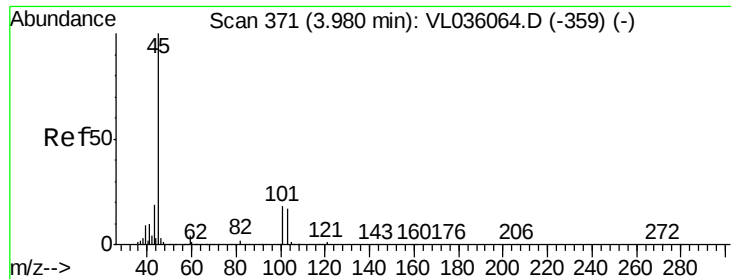
Tgt Ion: 39 Resp: 3513

Ion Ratio Lower Upper

39 100

54 96.8 62.1 93.1#





#19

Isopropyl Alcohol

Concen: 0.038 ppbv

RT: 3.99 min Scan# 374

Delta R.T. 0.01 min

Lab File: VL036086.D

Acq: 8 Dec 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

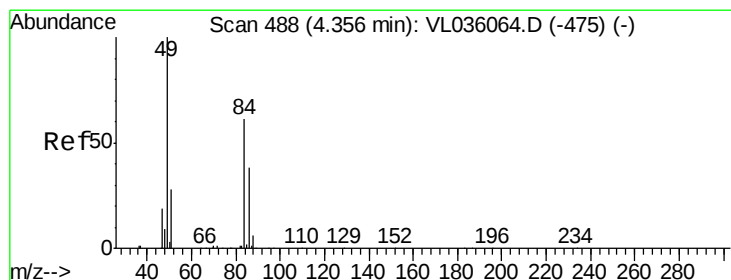
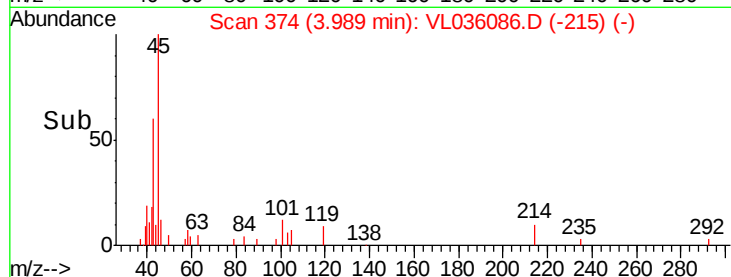
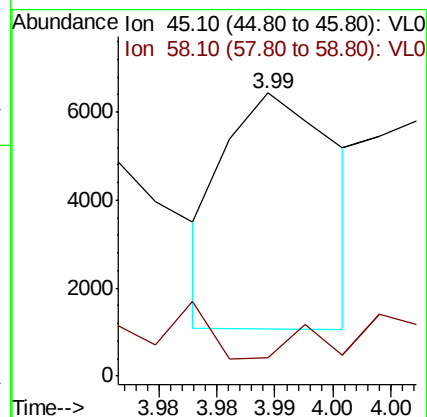
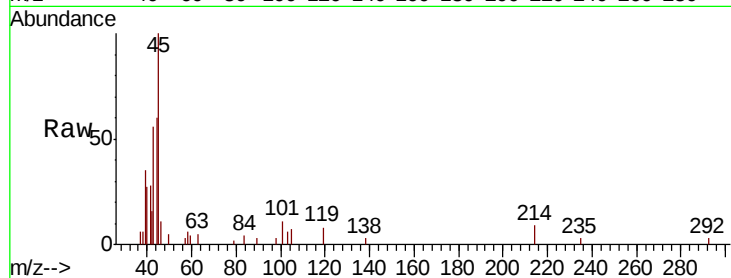
IA-5BDL

Tot Ion: 45 Resp: 3561

Ion Ratio Lower Upper

45 100

58 0.0 0.0 0.0



#20

Methylene Chloride

Concen: 0.676 ppbv

RT: 4.36 min Scan# 489

Delta R.T. 0.00 min

Lab File: VL036086.D

Acq: 8 Dec 2020 5:03

Tgt Ion: 84 Resp: 43006

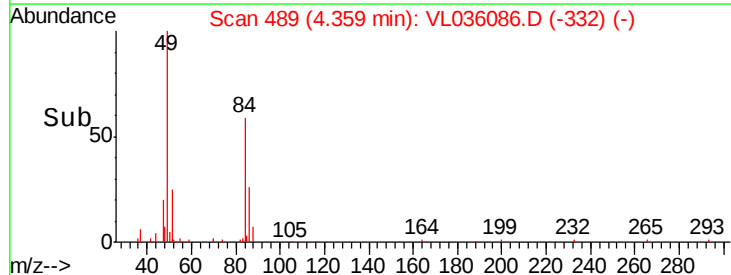
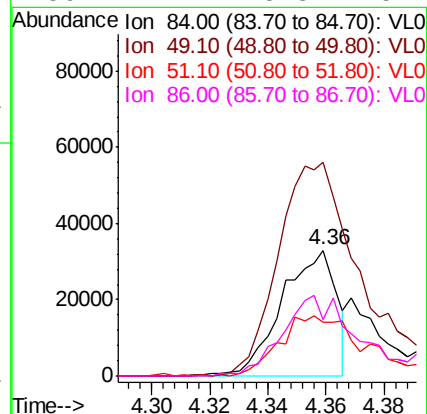
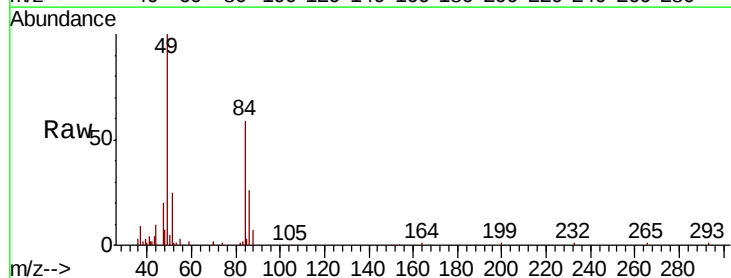
Ion Ratio Lower Upper

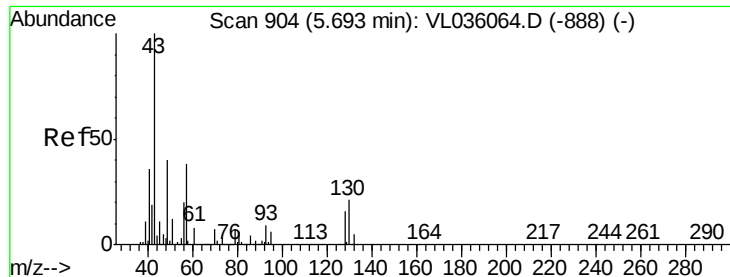
84 100

49 169.1 133.0 199.4

51 42.9 38.9 58.3

86 44.7 48.8 73.2#

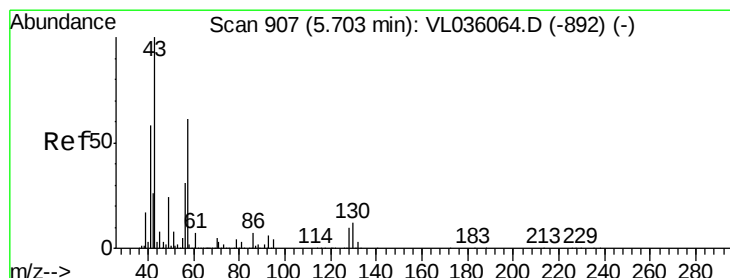
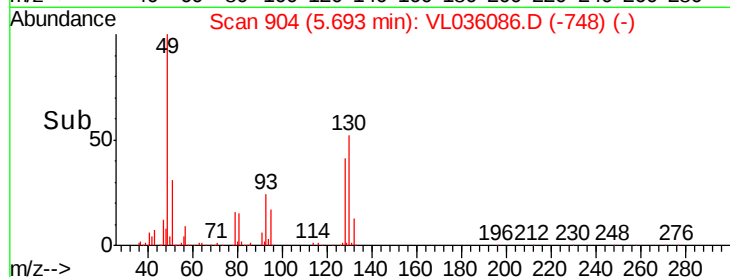
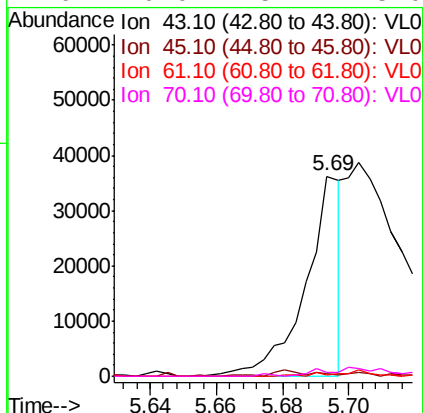
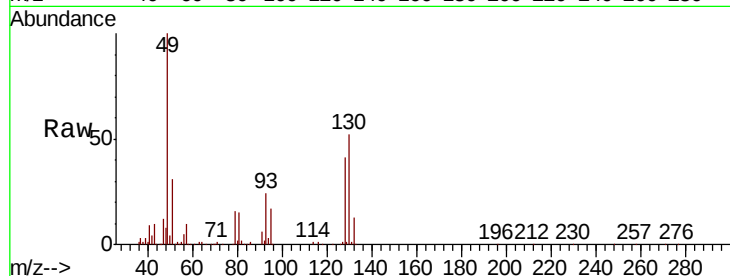




#25
Ethyl Acetate
Concen: 0.088 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.00 min
Lab File: VL036086.D
Acq: 8 Dec 2020 5:03

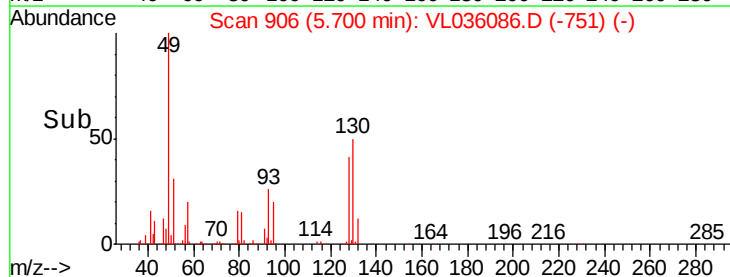
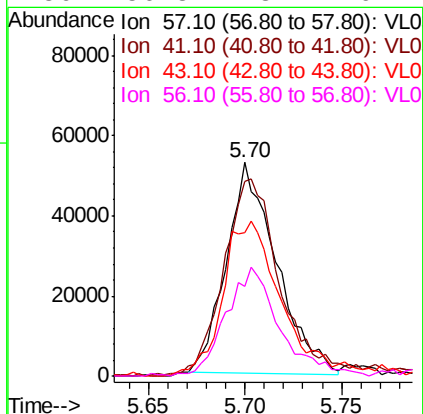
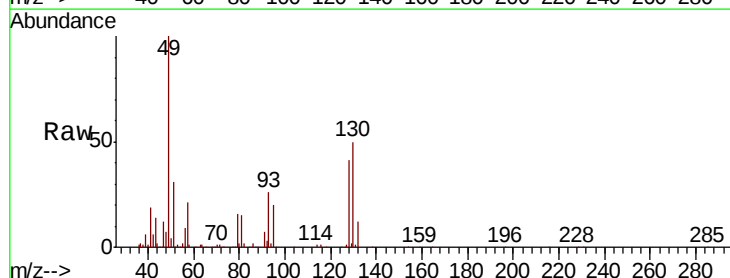
Instrument :
MSVOA_L
ClientSampled :
IA-5BDL

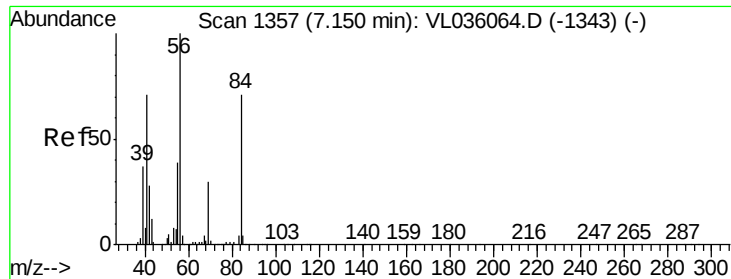
Tot Ion: 43 Resp: 27154
Ion Ratio Lower Upper
43 100
45 5.3 8.2 12.4#
61 0.0 7.4 11.2#
70 0.0 5.4 8.0#



#26
Hexane
Concen: 0.675 ppbv
RT: 5.70 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL036086.D
Acq: 8 Dec 2020 5:03

Tgt Ion: 57 Resp: 94319
Ion Ratio Lower Upper
57 100
41 108.4 82.9 124.3
43 91.0 199.9 299.9#
56 56.8 43.1 64.7

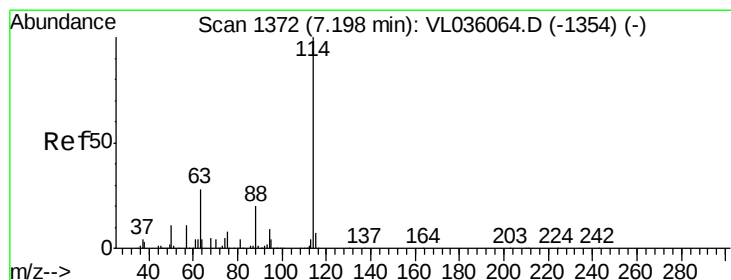
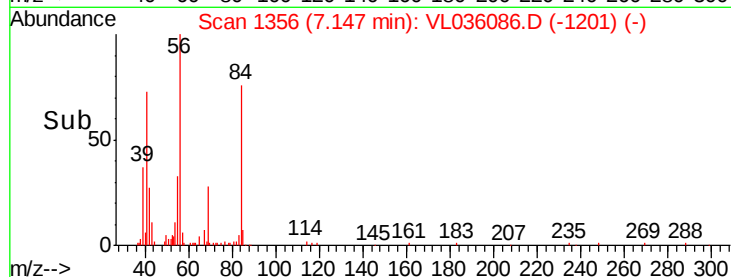
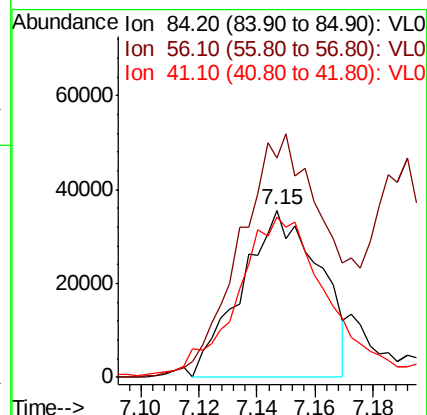
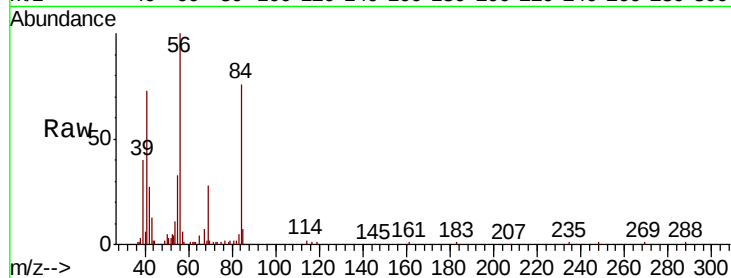




#30
Cvclohexane
Concen: 0.645 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL036086.D
Acq: 8 Dec 2020 5:03

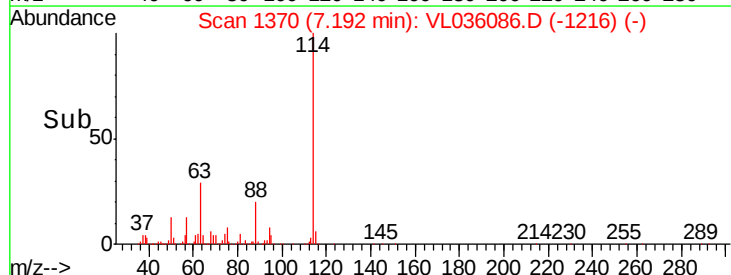
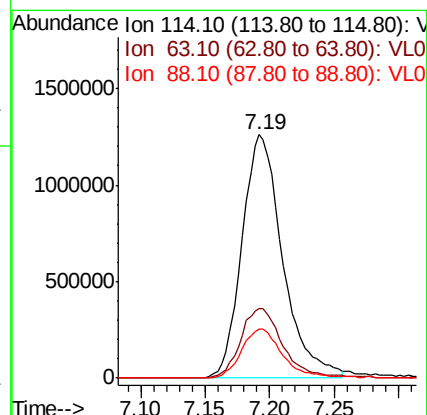
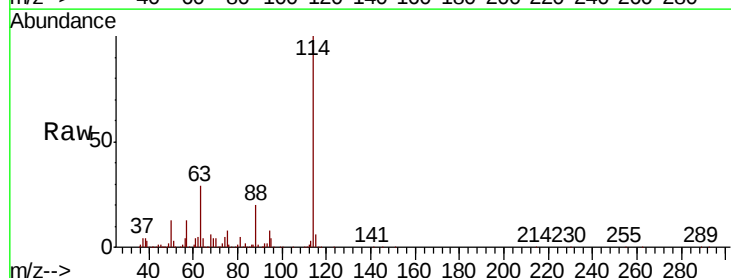
Instrument :
MSVOA_L
ClientSampleId :
IA-5BDL

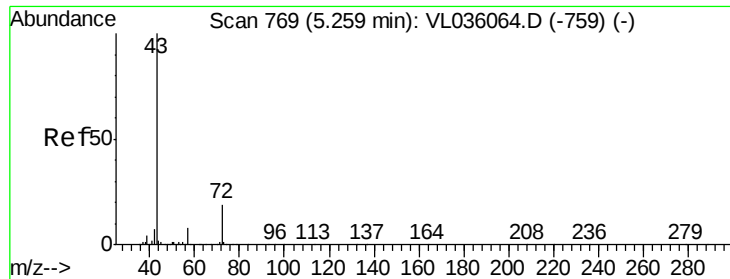
Tot Ion: 84 Resp: 66211
Ion Ratio Lower Upper
84 100
56 167.6 128.0 192.0
41 113.6 81.3 121.9



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1370
Delta R.T. -0.01 min
Lab File: VL036086.D
Acq: 8 Dec 2020 5:03

Tgt Ion: 114 Resp: 2770974
Ion Ratio Lower Upper
114 100
63 30.3 23.6 35.4
88 20.7 15.8 23.6

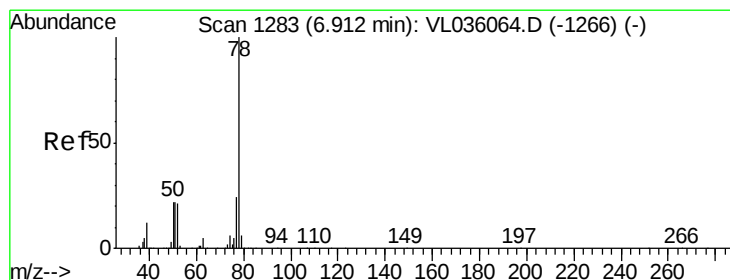
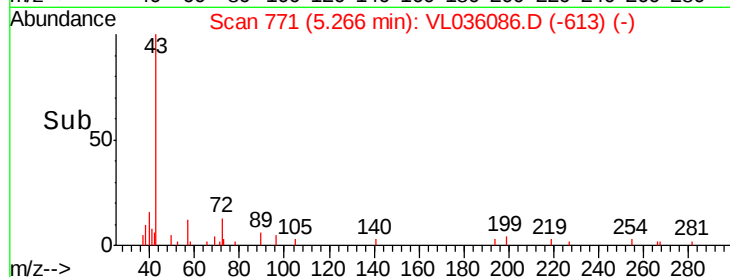
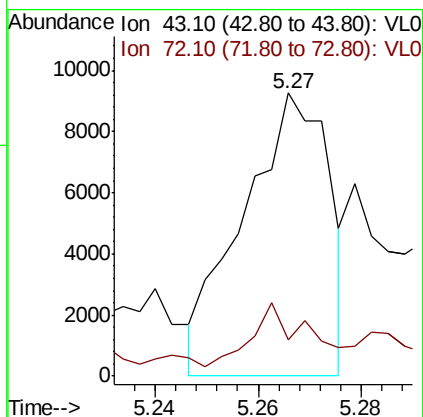
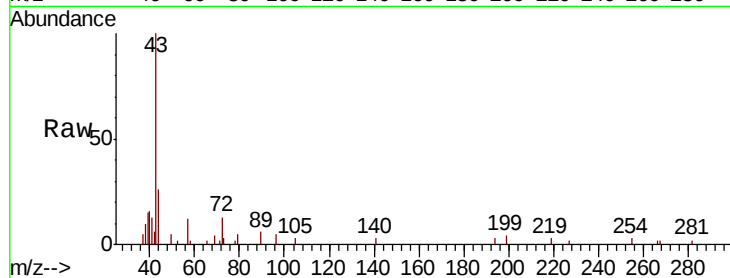




#34
2-Butanone
Concen: 0.059 ppbv
RT: 5.27 min Scan# 771
Delta R.T. 0.01 min
Lab File: VL036086.D
Acq: 8 Dec 2020 5:03

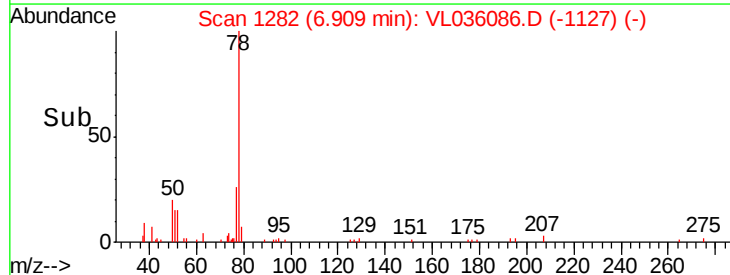
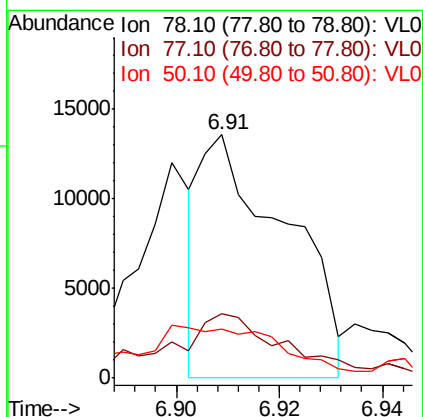
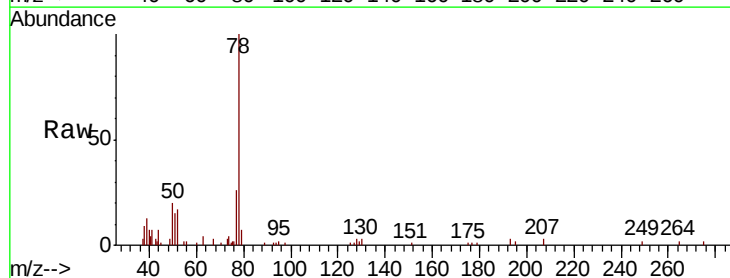
Instrument :
MSVOA_L
ClientSampled :
IA-5BDL

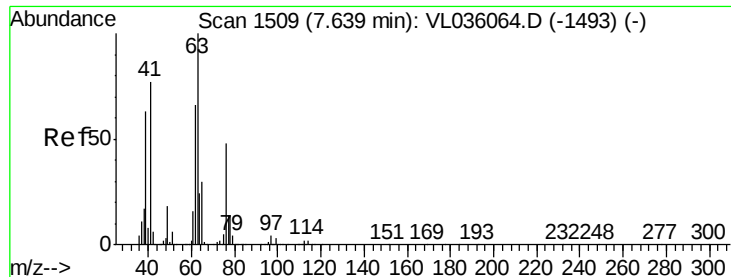
Tot Ion: 43 Resp: 10756
Ion Ratio Lower Upper
43 100
72 42.4 16.5 24.7#



#36
Benzene
Concen: 0.066 ppbv
RT: 6.91 min Scan# 1282
Delta R.T. -0.00 min
Lab File: VL036086.D
Acq: 8 Dec 2020 5:03

Tgt Ion: 78 Resp: 15530
Ion Ratio Lower Upper
78 100
77 22.5 19.4 29.2
50 19.2 17.8 26.8

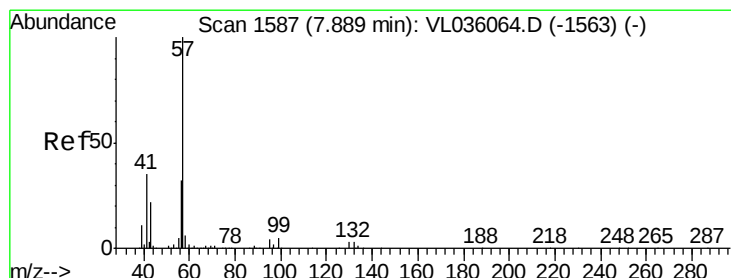
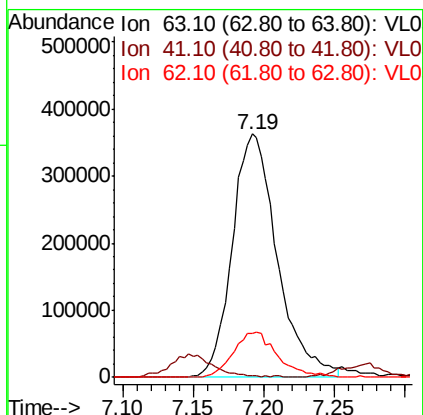
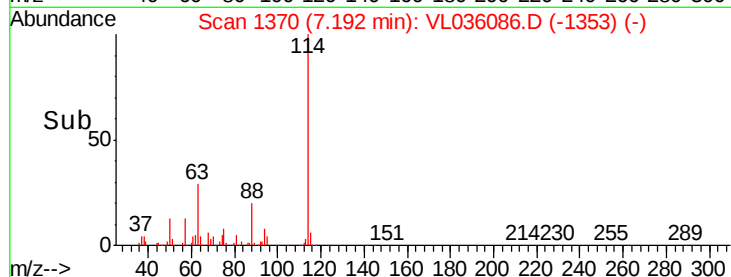
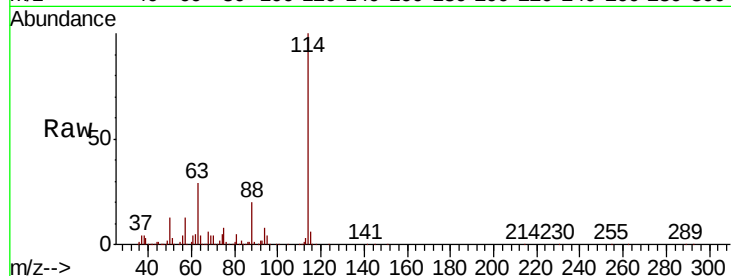




#39
 1,2-Dichloropropane
 Concen: 8.687 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.45 min
 Lab File: VL036086.D
 Acq: 8 Dec 2020 5:03

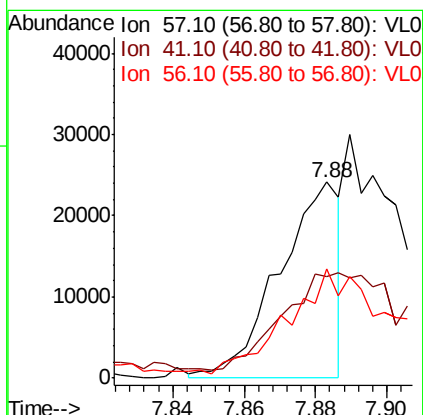
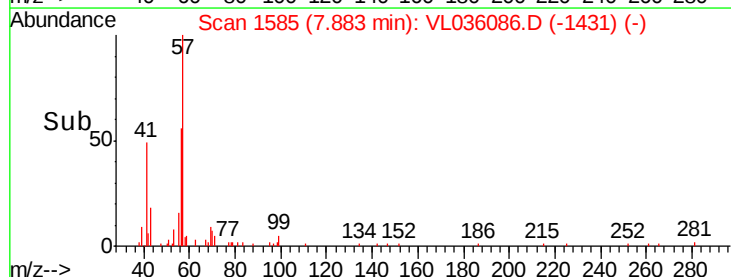
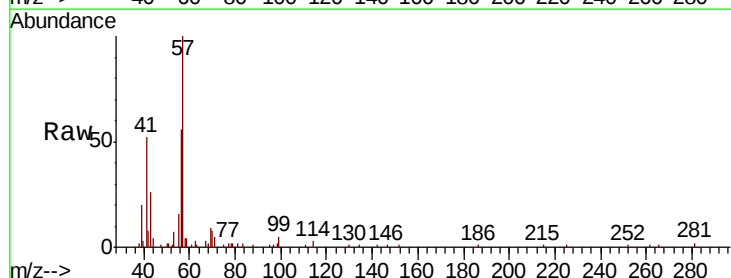
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5BDL

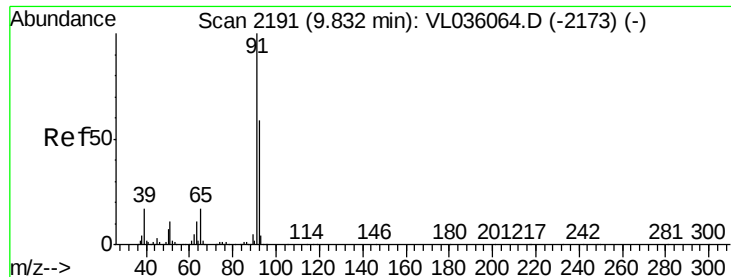
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	61.9	92.9#
62	18.0	52.5	78.7#



#44
 2,2,4-Trimethylpentane
 Concen: 0.066 ppbv
 RT: 7.88 min Scan# 1585
 Delta R.T. -0.01 min
 Lab File: VL036086.D
 Acq: 8 Dec 2020 5:03

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.9	43.3#
56	106.0	25.3	37.9#





#53

Toluene

Concen: 0.576 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VL036086.D

Acq: 8 Dec 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

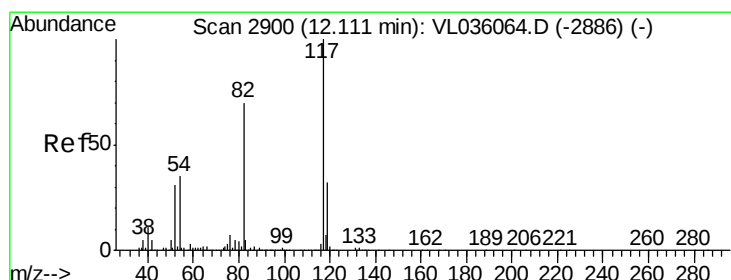
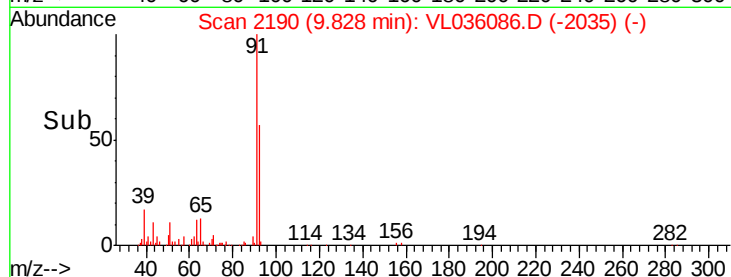
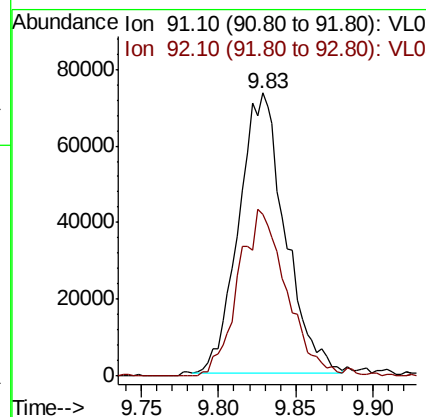
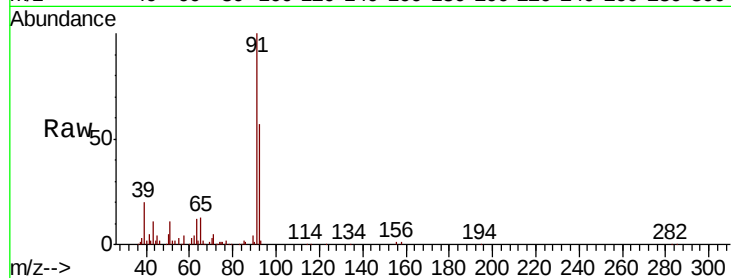
IA-5BDL

Tot Ion: 91 Resp: 151963

Ion Ratio Lower Upper

91 100

92 62.7 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. 0.00 min

Lab File: VL036086.D

Acq: 8 Dec 2020 5:03

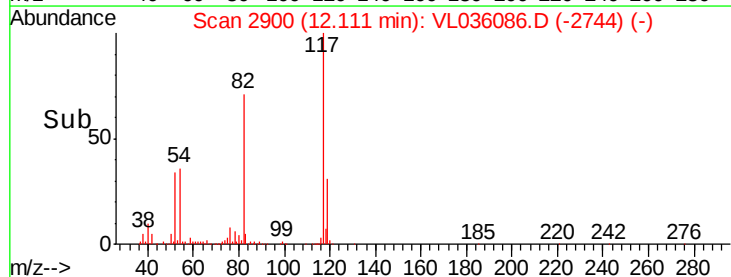
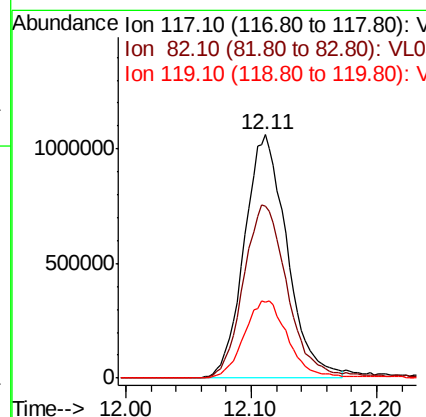
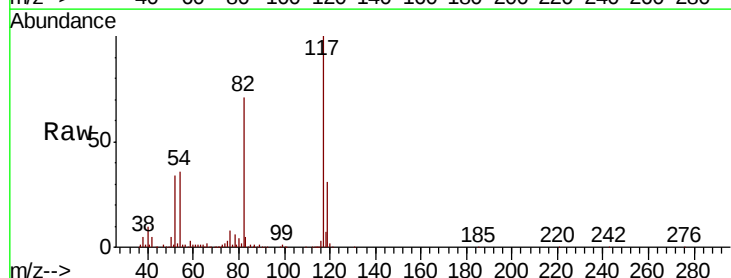
Tgt Ion: 117 Resp: 2512195

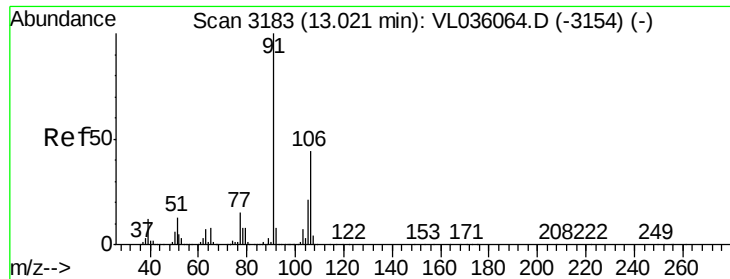
Ion Ratio Lower Upper

117 100

82 75.2 0.0 0.0#

119 33.4 0.0 0.0#





#59

m/p-Xylene

Concen: 0.187 ppbv

RT: 13.03 min Scan# 3185

Delta R.T. 0.01 min

Lab File: VL036086.D

Acq: 8 Dec 2020 5:03

Instrument :

MSVOA_L

ClientSampleId :

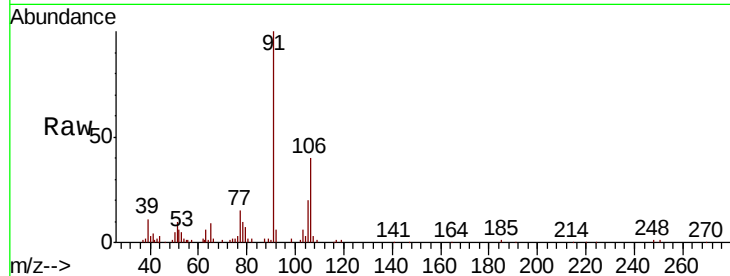
IA-5BDL

Tot Ion: 91 Resp: 54129

Ion Ratio Lower Upper

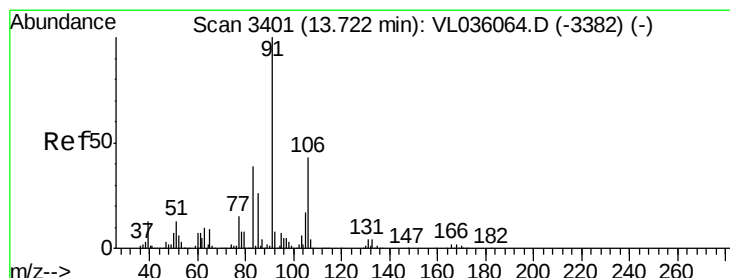
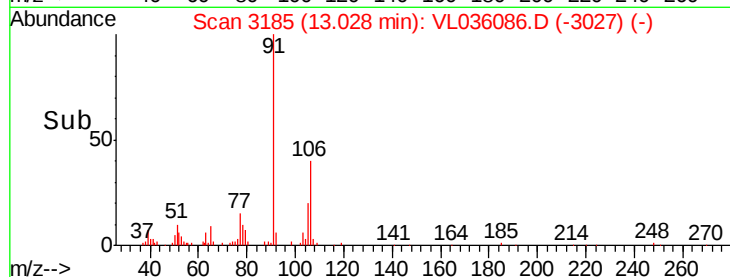
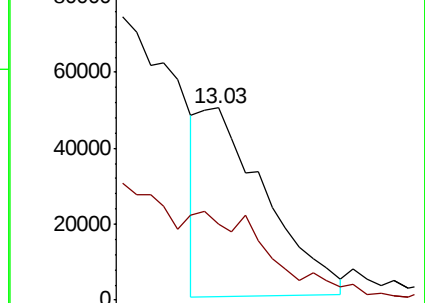
91 100

106 0.0 33.6 50.4#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.423 ppbv

RT: 13.72 min Scan# 3399

Delta R.T. -0.01 min

Lab File: VL036086.D

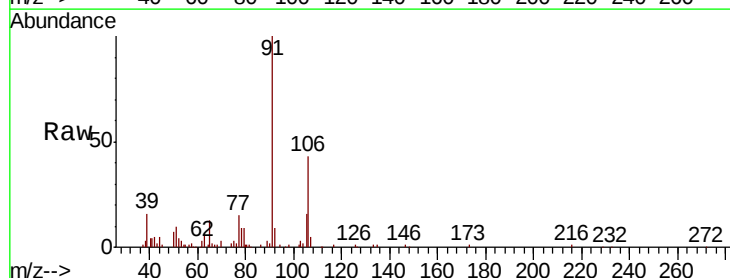
Acq: 8 Dec 2020 5:03

Tgt Ion: 91 Resp: 115504

Ion Ratio Lower Upper

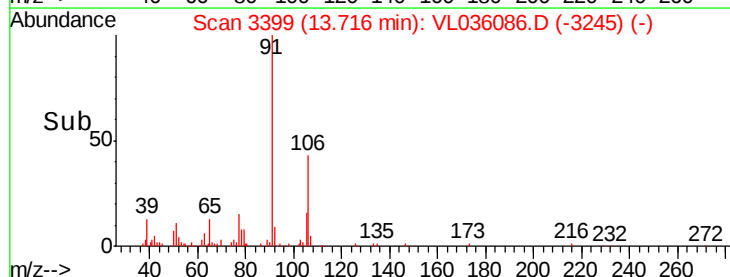
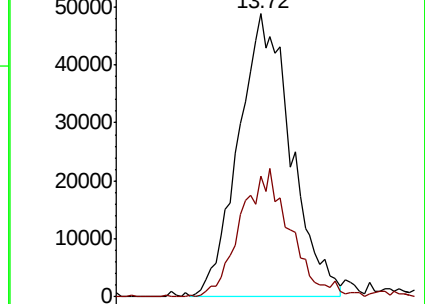
91 100

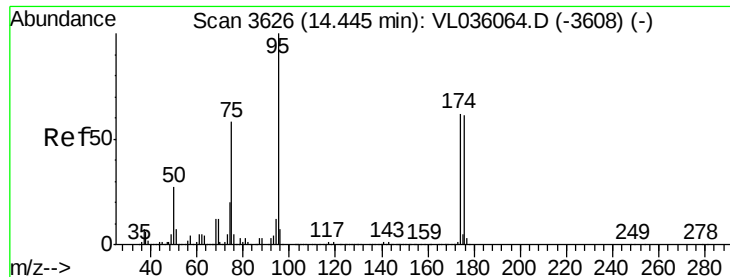
106 43.9 21.6 64.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

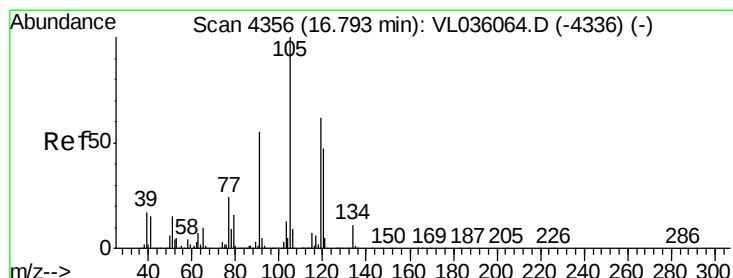
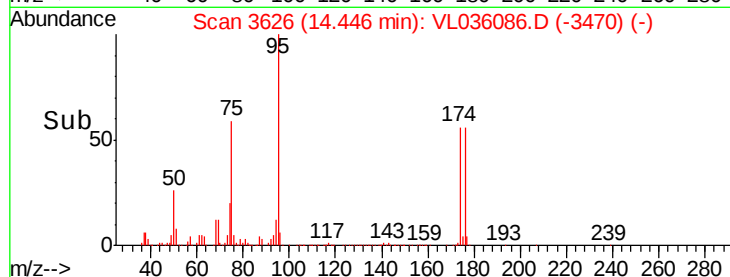
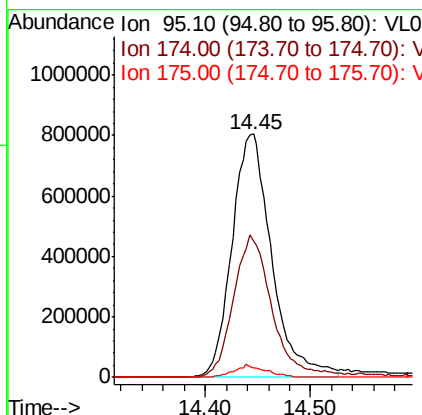
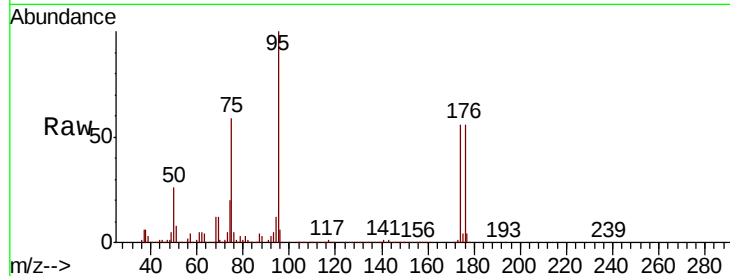




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.565 ppbv
 RT: 14.45 min Scan# 3626
 Delta R.T. 0.00 min
 Lab File: VL036086.D
 Acq: 8 Dec 2020 5:03

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-5BDL

Tot Ion: 95 Resp: 2107467
 Ion Ratio Lower Upper
 95 100
 174 58.0 50.7 76.1
 175 4.3 4.0 6.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.094 ppbv
 RT: 16.80 min Scan# 4357
 Delta R.T. 0.00 min
 Lab File: VL036086.D
 Acq: 8 Dec 2020 5:03

Tgt Ion: 105 Resp: 26638
 Ion Ratio Lower Upper
 105 100
 120 31.2 37.4 56.0#
 91 11.7 45.6 68.4#
 77 17.5 19.4 29.2#

