

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120820\
 Data File : VL036125.D
 Acq On : 9 Dec 2020 11:02
 Operator : SY/AP
 Sample : L4949-04DL2 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Quant Time: Dec 10 00:29:20 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	5.67	49	1305771	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2668119	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.10	117	2419348	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2114246	11.01	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.10%

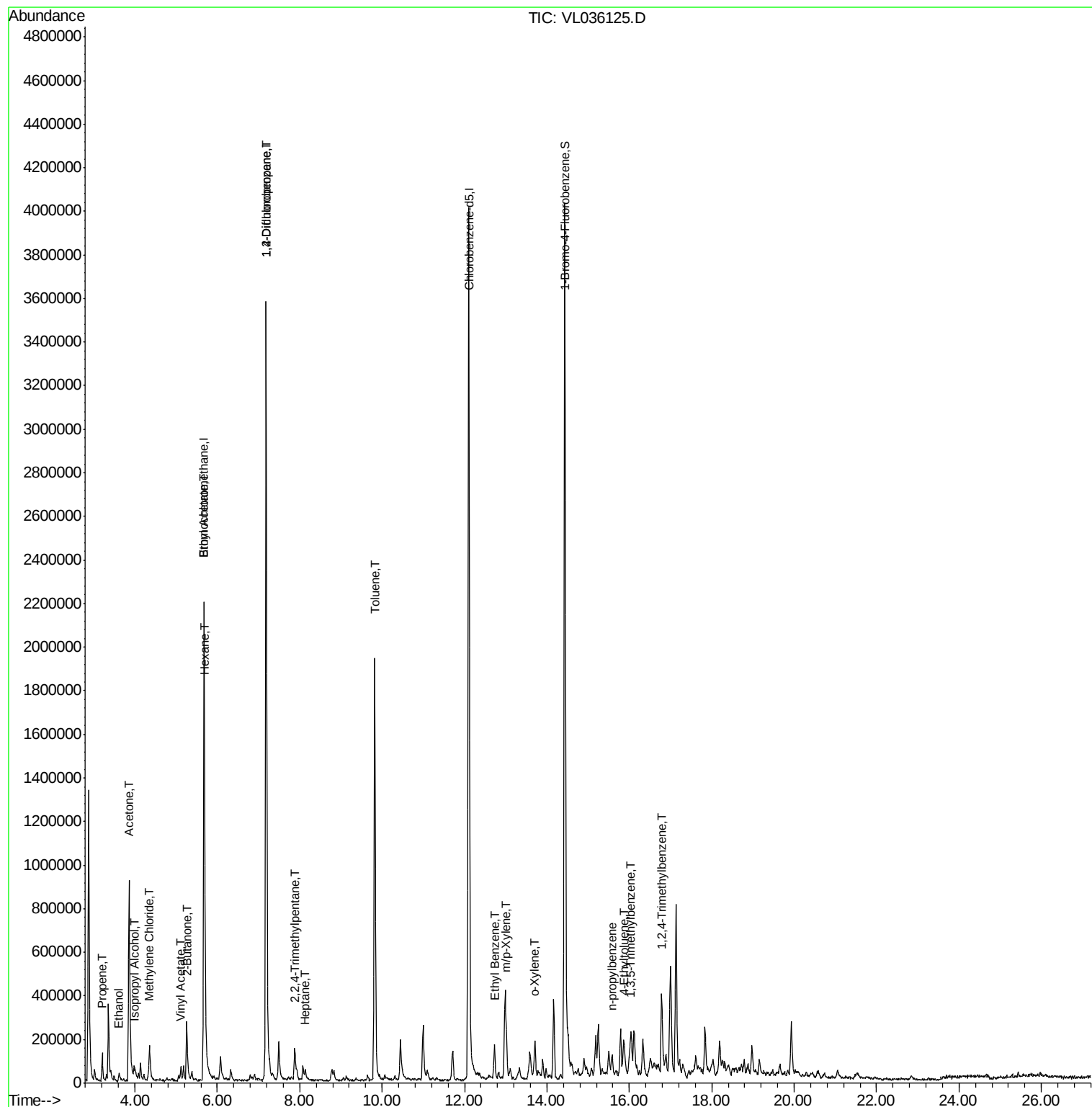
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.21	41	41807	0.560	ppbv	98
10) Heptane	8.13	43	6978	0.037	ppbv #	1
13) Ethanol	3.61	45	11285	1.097	ppbv #	29
15) Acetone	3.85	43	1254427	7.993	ppbv	98
19) Isopropyl Alcohol	3.98	45	46759	0.487	ppbv #	100
20) Methylene Chloride	4.35	84	30090	0.468	ppbv	92
23) Vinyl Acetate	5.12	43	18723	0.090	ppbv #	54
25) Ethyl Acetate	5.69	43	268790	0.857	ppbv #	92
26) Hexane	5.70	57	49811	0.353	ppbv #	1
34) 2-Butanone	5.26	43	372936	2.107	ppbv	99
39) 1,2-Dichloropropane	7.19	63	827374	9.265	ppbv #	25
44) 2,2,4-Trimethylpentane	7.88	57	63743	0.156	ppbv #	8
53) Toluene	9.82	91	1508912	5.943	ppbv	99
58) Ethyl Benzene	12.73	91	57357	0.173	ppbv	97
59) m/p-Xylene	13.01	91	99903	0.358	ppbv #	34
60) o-Xylene	13.71	91	46378	0.176	ppbv #	1
64) n-propylbenzene	15.57	120	5339	0.057	ppbv #	1
72) 4-Ethyltoluene	15.86	105	32777	0.115	ppbv #	32
73) 1,3,5-Trimethylbenzene	16.01	105	37116	0.136	ppbv #	72
74) 1,2,4-Trimethylbenzene	16.78	105	192199	0.703	ppbv #	64

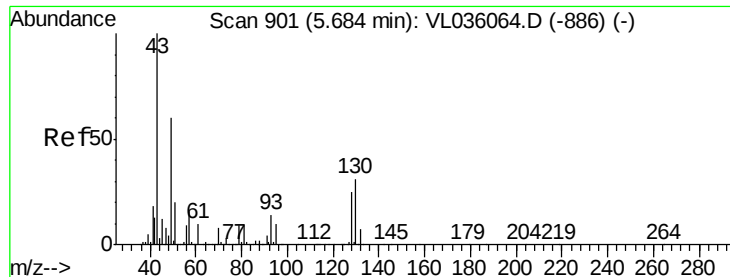
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL036125.D

Acq: 9 Dec 2020 11:02

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

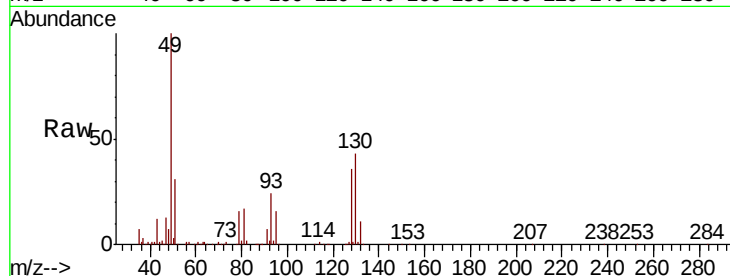
Tot Ion: 49 Resp: 1305771

Ion Ratio Lower Upper

49 100

128 34.8 21.1 63.1

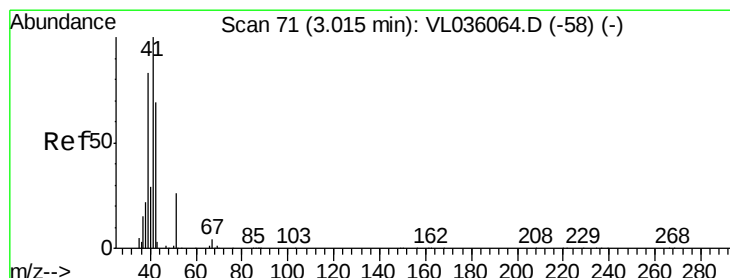
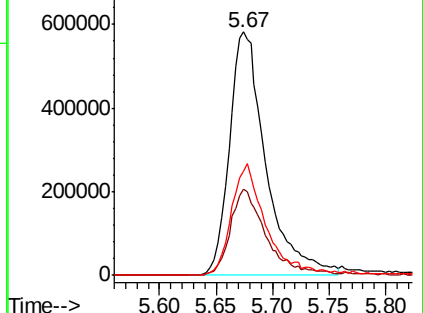
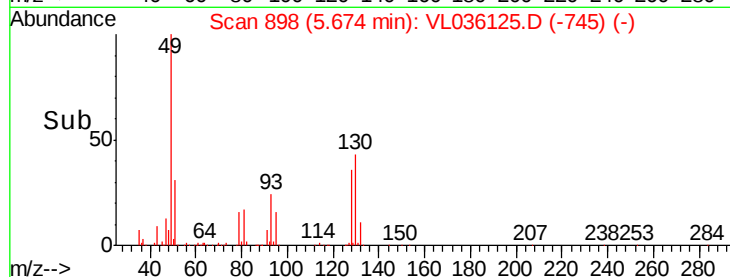
130 45.0 27.1 81.3



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



#9

Propene

Concen: 0.560 ppbv

RT: 3.21 min Scan# 131

Delta R.T. 0.19 min

Lab File: VL036125.D

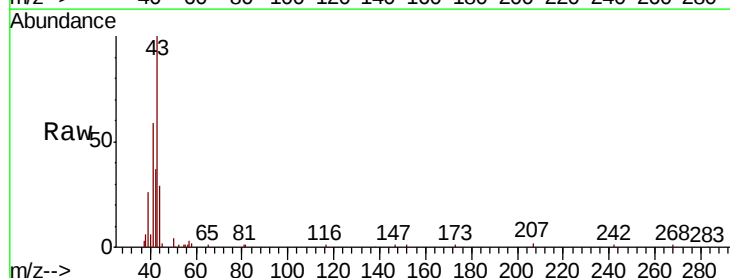
Acq: 9 Dec 2020 11:02

Tgt Ion: 41 Resp: 41807

Ion Ratio Lower Upper

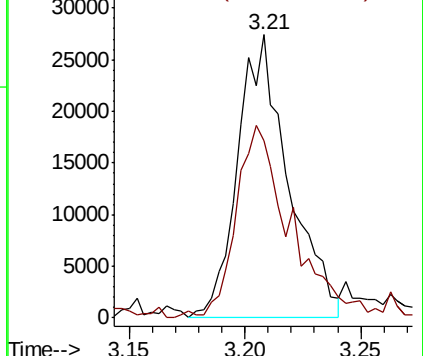
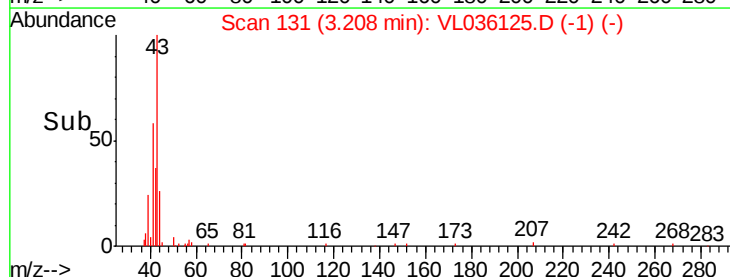
41 100

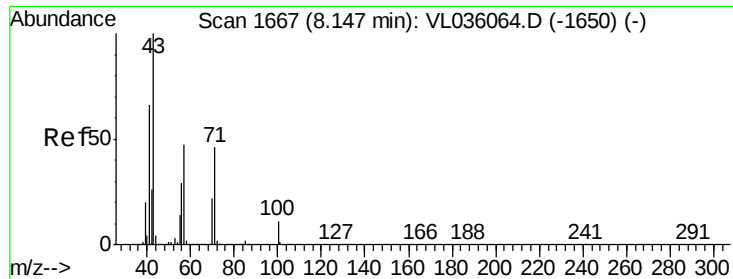
42 72.7 57.0 85.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

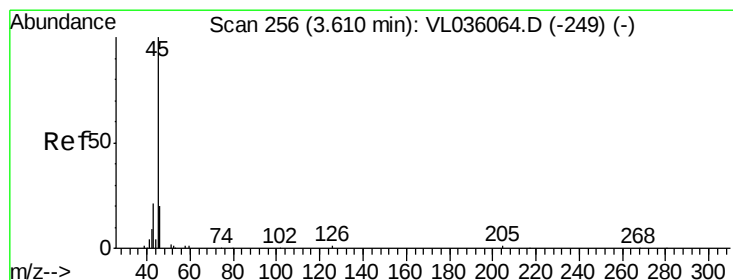
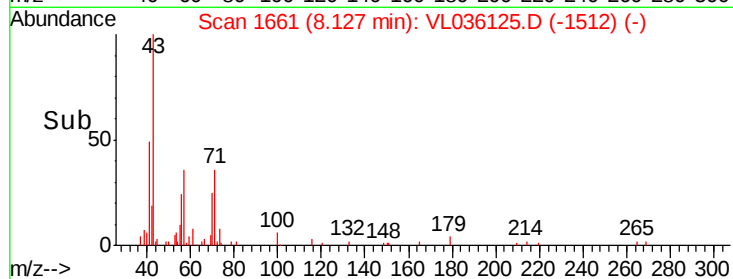
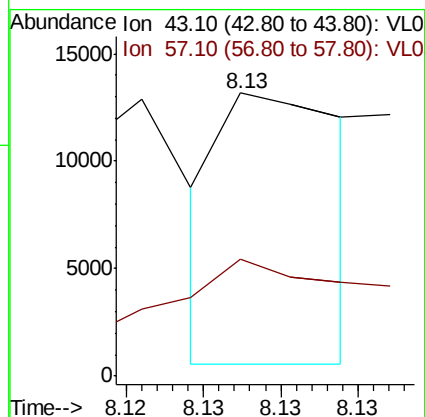
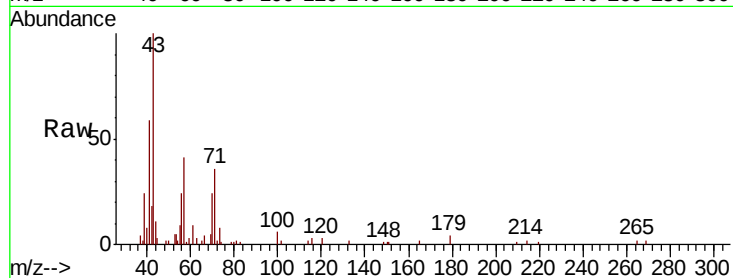




#10
Heptane
Concen: 0.037 ppbv
RT: 8.13 min Scan# 1661
Delta R.T. -0.02 min
Lab File: VL036125.D
Acq: 9 Dec 2020 11:02

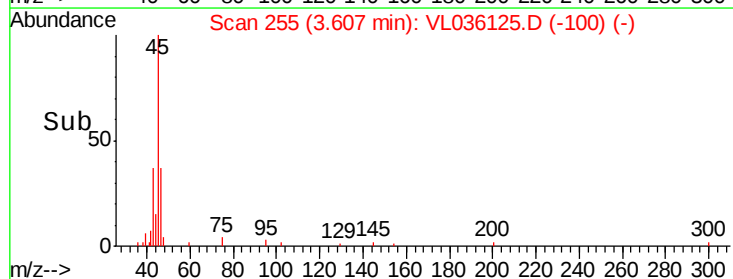
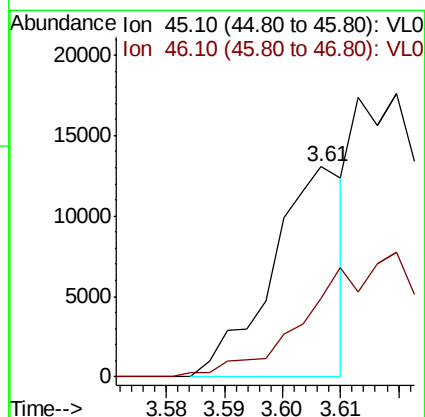
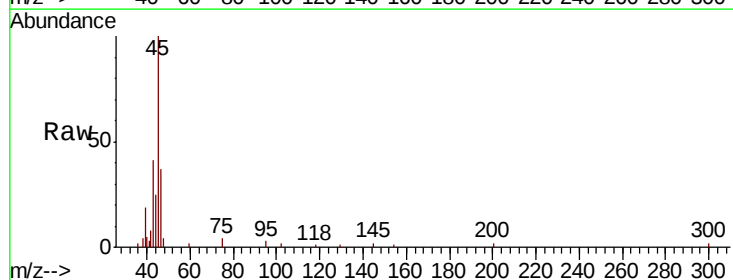
Instrument :
MSVOA_L
ClientSampleId :
IA-2DL

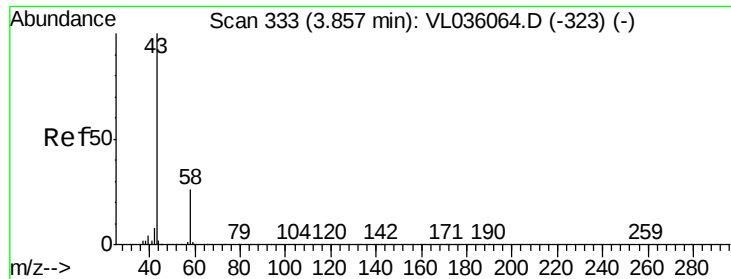
Tot Ion: 43 Resp: 6978
Ion Ratio Lower Upper
43 100
57 176.7 37.9 56.9#



#13
Ethanol
Concen: 1.097 ppbv
RT: 3.61 min Scan# 255
Delta R.T. -0.00 min
Lab File: VL036125.D
Acq: 9 Dec 2020 11:02

Tgt Ion: 45 Resp: 11285
Ion Ratio Lower Upper
45 100
46 0.0 19.0 75.8#





#15

Acetone

Concen: 7.993 ppbv

RT: 3.85 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL036125.D

Acq: 9 Dec 2020 11:02

Instrument :

MSVOA_L

ClientSampleId :

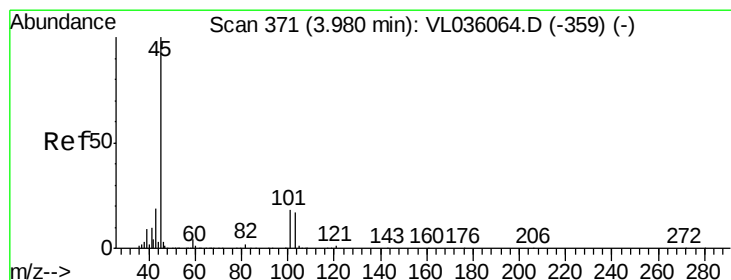
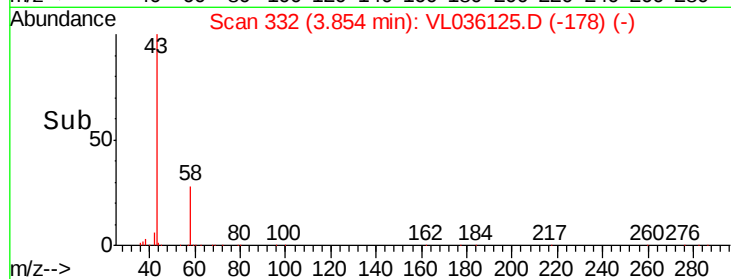
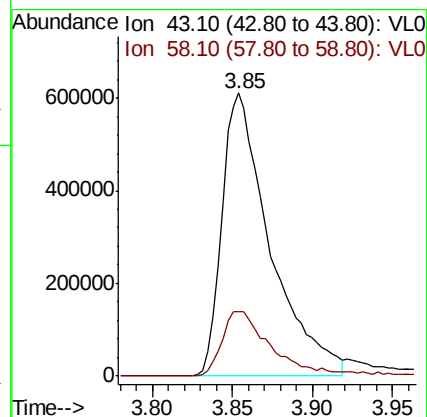
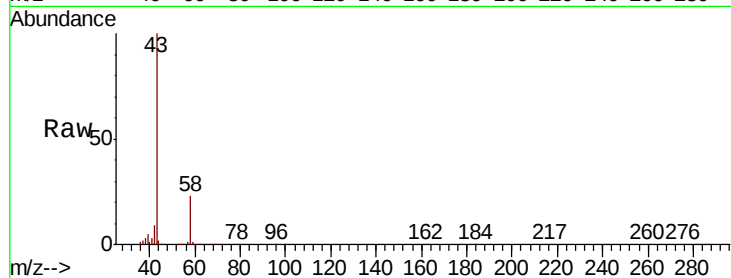
IA-2DL

Tot Ion: 43 Resp: 1254427

Ion Ratio Lower Upper

43 100

58 25.0 20.9 31.3



#19

Isopropyl Alcohol

Concen: 0.487 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.00 min

Lab File: VL036125.D

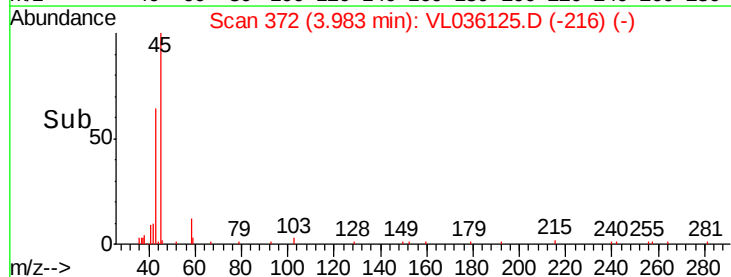
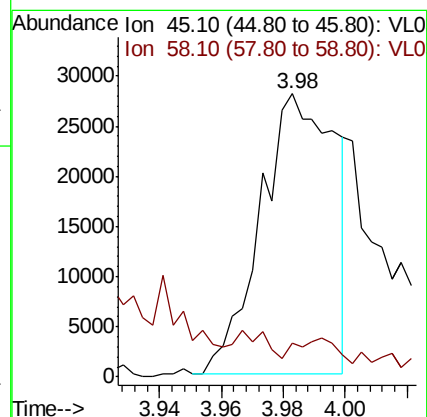
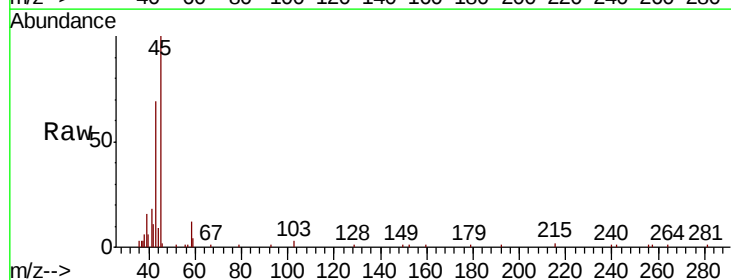
Acq: 9 Dec 2020 11:02

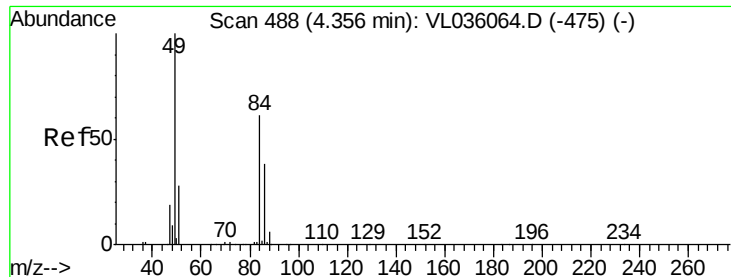
Tgt Ion: 45 Resp: 46759

Ion Ratio Lower Upper

45 100

58 0.0 0.0 0.0

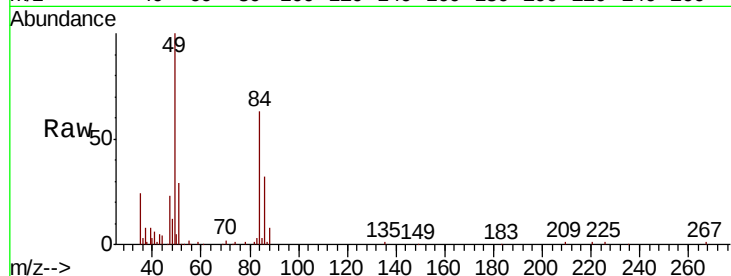




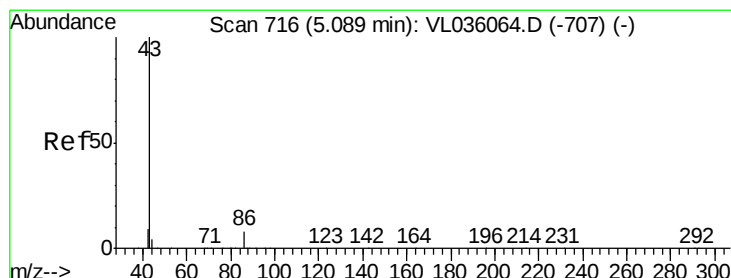
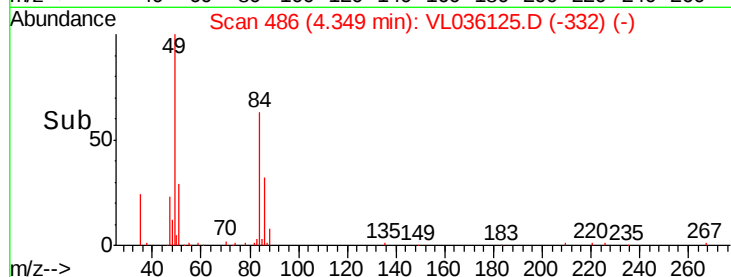
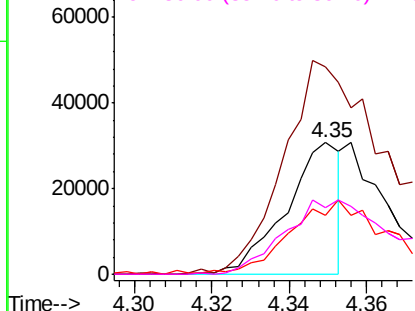
#20
Methvlene Chloride
Concen: 0.468 ppbv
RT: 4.35 min Scan# 486
Delta R.T. -0.01 min
Lab File: VL036125.D
Acq: 9 Dec 2020 11:02

Instrument :
MSVOA_L
ClientSampled :
IA-2DL

Tot Ion:	84	Resp:	30090
Ion	Ratio	Lower	Upper
84	100		
49	156.9	133.0	199.4
51	44.3	38.9	58.3
86	50.6	48.8	73.2

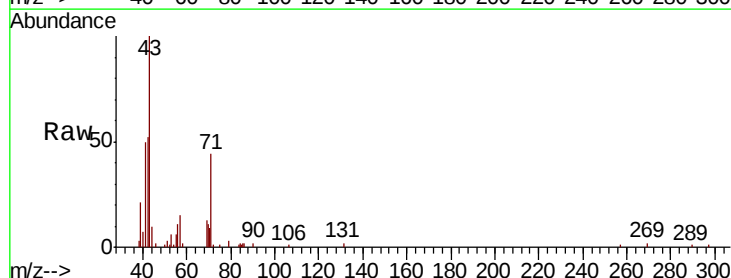


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

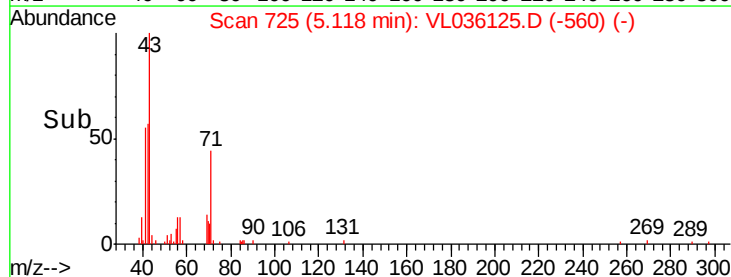
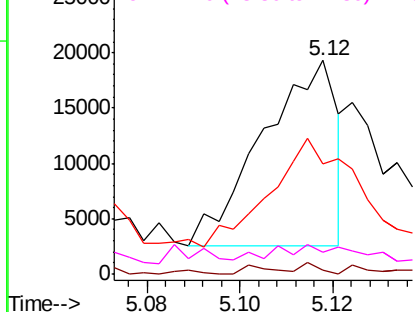


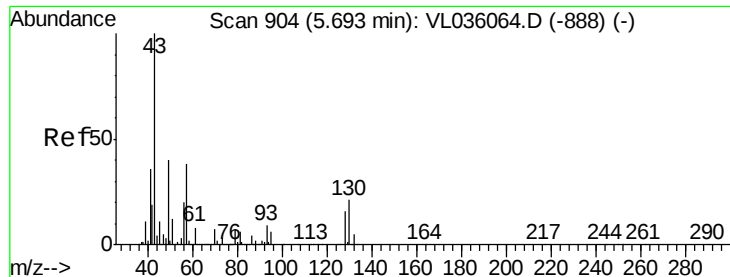
#23
Vinyl Acetate
Concen: 0.090 ppbv
RT: 5.12 min Scan# 725
Delta R.T. 0.03 min
Lab File: VL036125.D
Acq: 9 Dec 2020 11:02

Tgt Ion:	43	Resp:	18723
Ion	Ratio	Lower	Upper
43	100		
86	2.4	5.0	7.4#
42	41.2	7.8	11.6#
44	3.2	3.2	4.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





#25

Ethyl Acetate

Concen: 0.857 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.01 min

Lab File: VL036125.D

Acq: 9 Dec 2020 11:02

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

Tot Ion: 43 Resp: 268790

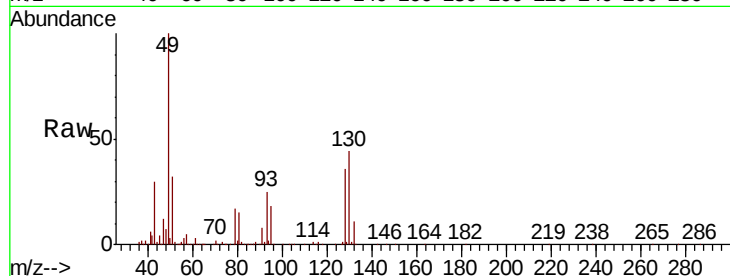
Ion Ratio Lower Upper

43 100

45 16.3 8.2 12.4#

61 10.1 7.4 11.2

70 8.0 5.4 8.0

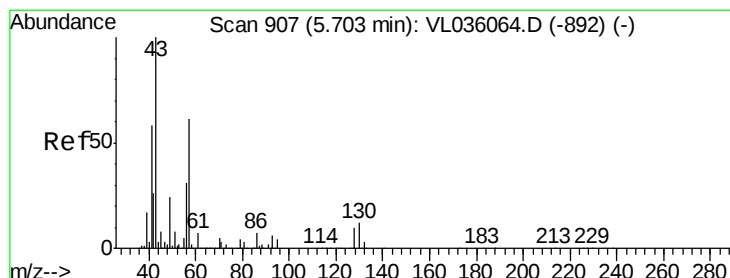
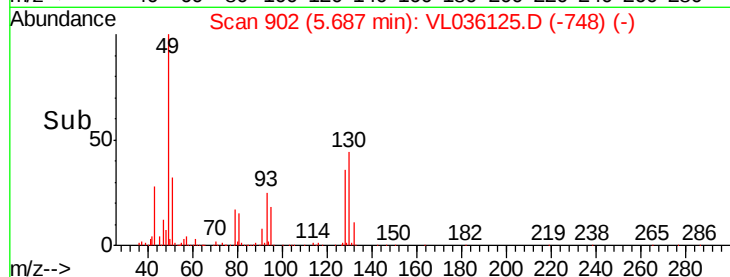
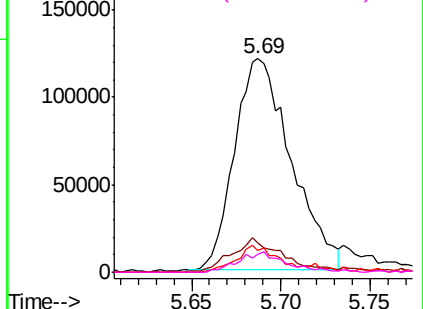


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.353 ppbv

RT: 5.70 min Scan# 905

Delta R.T. -0.01 min

Lab File: VL036125.D

Acq: 9 Dec 2020 11:02

Tgt Ion: 57 Resp: 49811

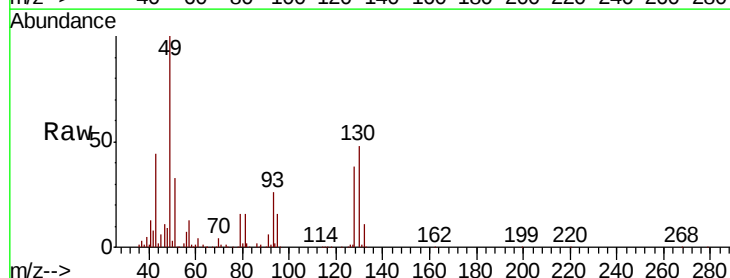
Ion Ratio Lower Upper

57 100

41 119.2 82.9 124.3

43 596.3 199.9 299.9#

56 65.1 43.1 64.7#

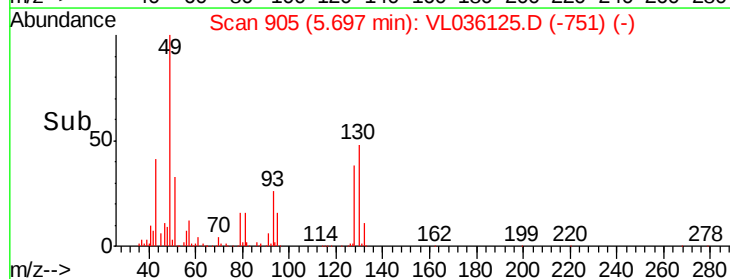
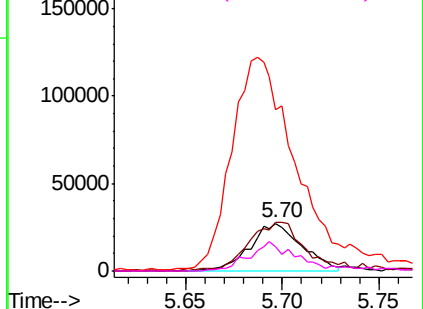


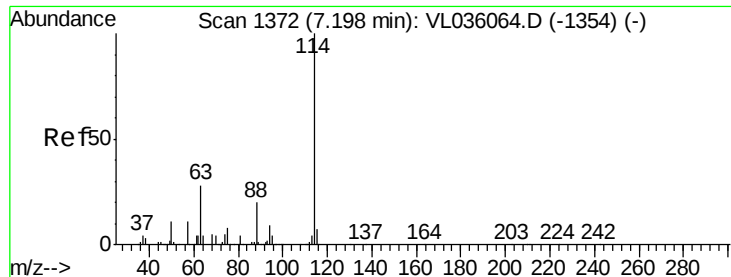
Abundance Ion 57.10 (56.80 to 57.80): VL0

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

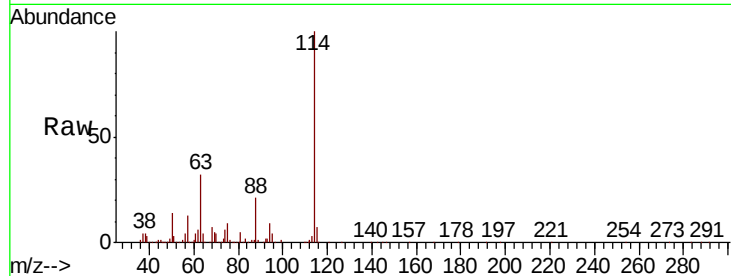




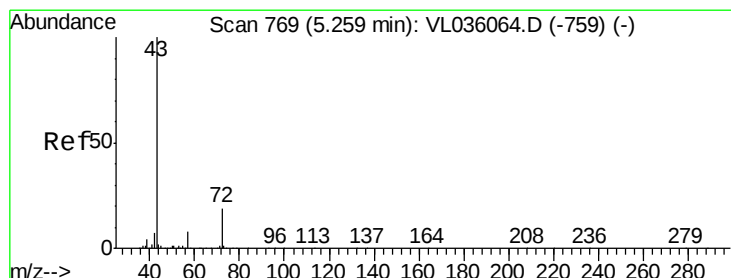
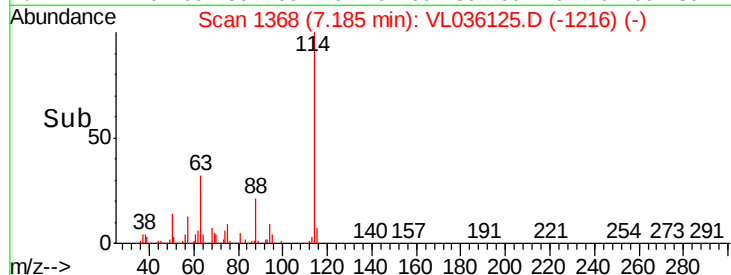
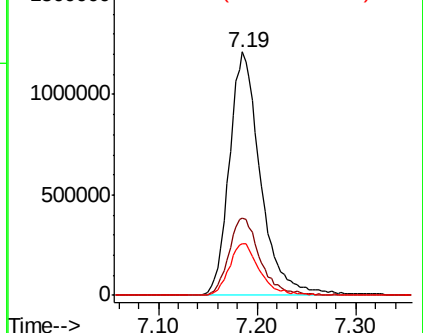
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. -0.01 min
 Lab File: VL036125.D
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Tot Ion:114 Resp: 2668119
 Ion Ratio Lower Upper
 114 100
 63 32.2 23.6 35.4
 88 21.0 15.8 23.6

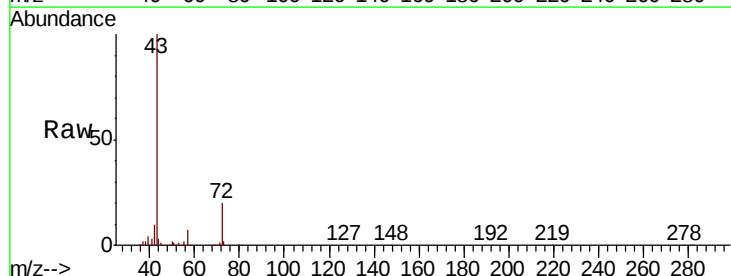


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

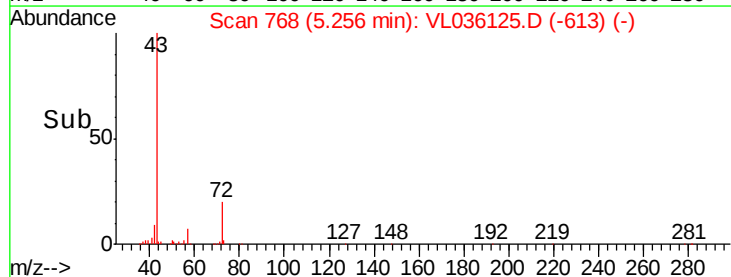
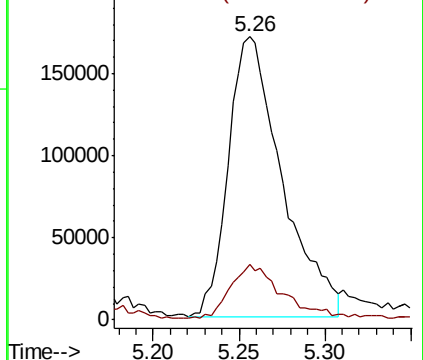


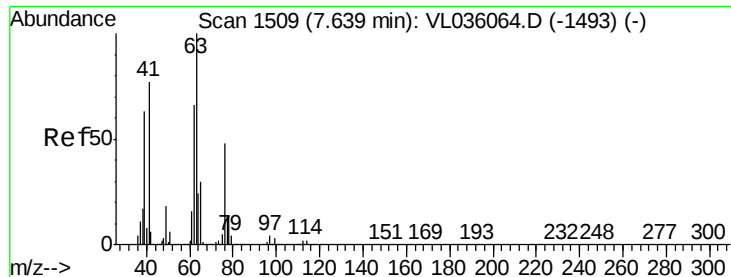
#34
 2-Butanone
 Concen: 2.107 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. -0.00 min
 Lab File: VL036125.D
 Acq: 9 Dec 2020 11:02

Tgt Ion: 43 Resp: 372936
 Ion Ratio Lower Upper
 43 100
 72 21.2 16.5 24.7



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





#39

1,2-Dichloropropane

Concen: 9.265 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.45 min

Lab File: VL036125.D

Acq: 9 Dec 2020 11:02

Instrument :

MSVOA_L

ClientSampleId :

IA-2DL

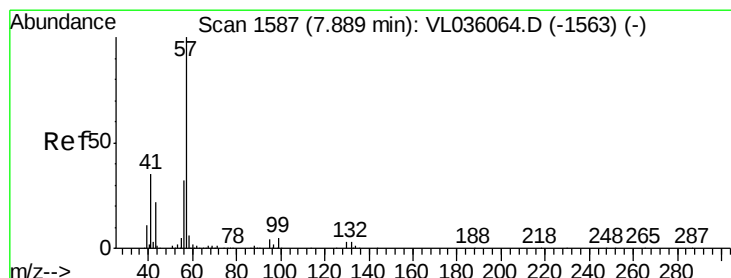
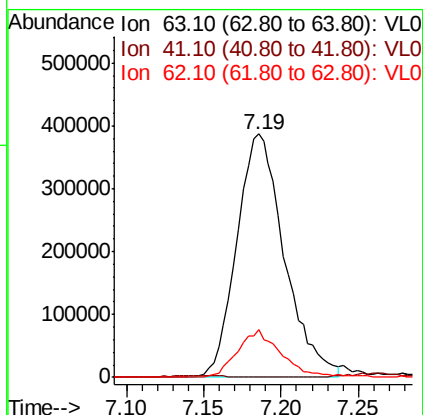
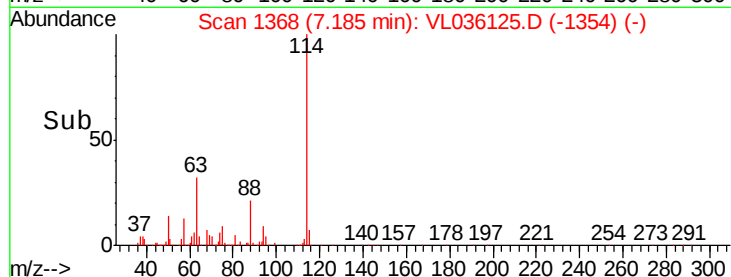
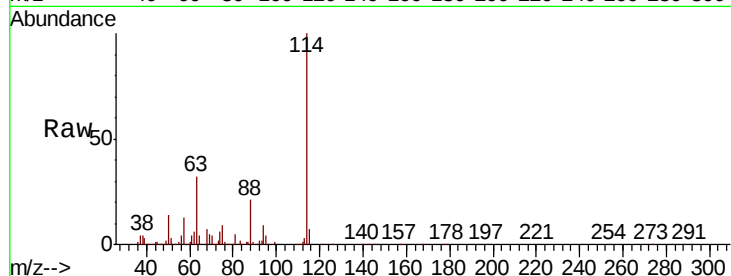
Tot Ion: 63 Resp: 827374

Ion Ratio Lower Upper

63 100

41 0.0 61.9 92.9#

62 19.5 52.5 78.7#



#44

2,2,4-Trimethylpentane

Concen: 0.156 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. -0.01 min

Lab File: VL036125.D

Acq: 9 Dec 2020 11:02

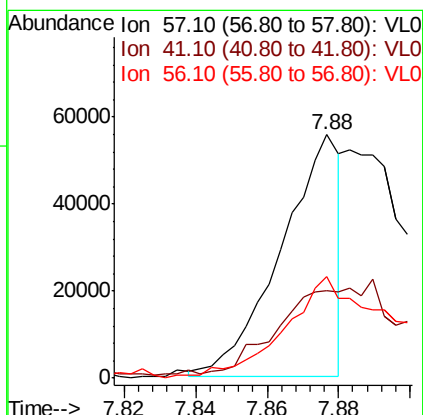
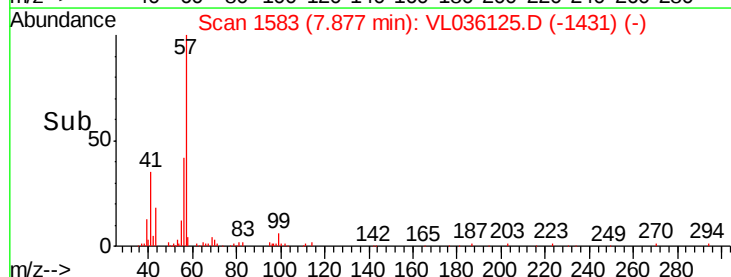
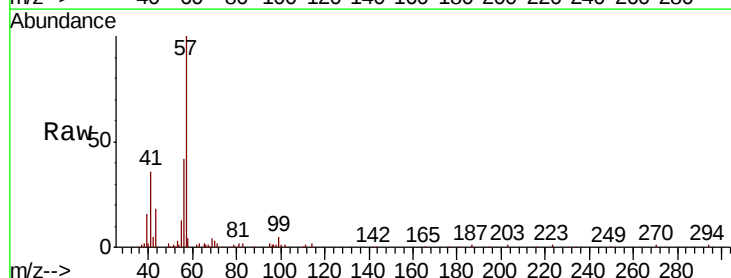
Tgt Ion: 57 Resp: 63743

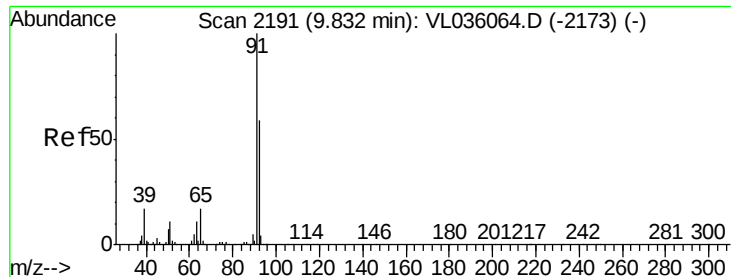
Ion Ratio Lower Upper

57 100

41 0.0 28.9 43.3#

56 101.8 25.3 37.9#





#53

Toluene

Concen: 5.943 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.01 min

Lab File: VL036125.D

Acq: 9 Dec 2020 11:02

Instrument :

MSVOA_L

ClientSampleId :

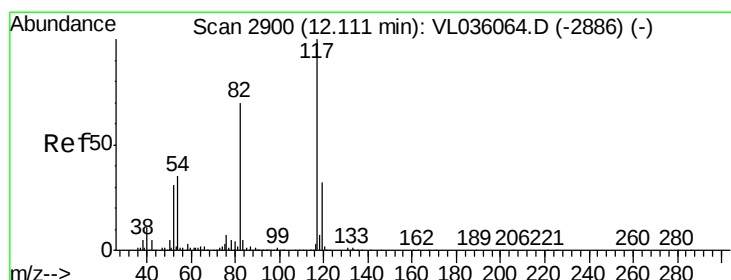
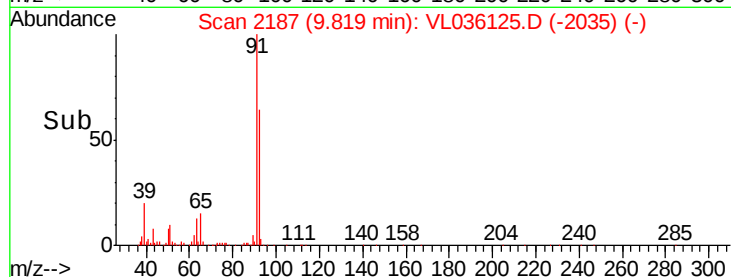
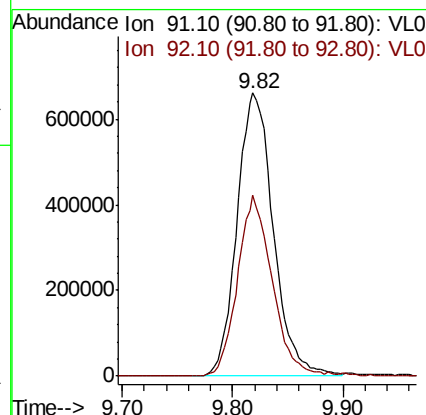
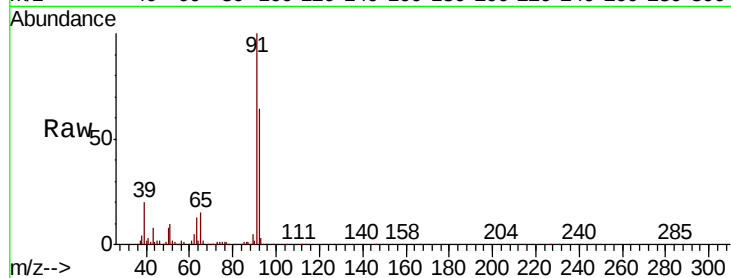
IA-2DL

Tot Ion: 91 Resp: 1508912

Ion Ratio Lower Upper

91 100

92 60.9 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. -0.01 min

Lab File: VL036125.D

Acq: 9 Dec 2020 11:02

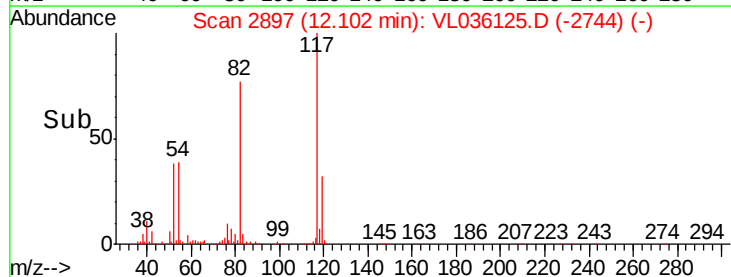
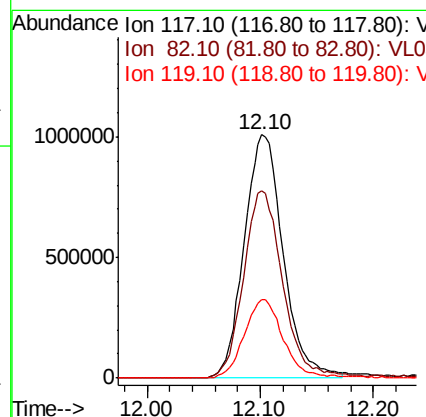
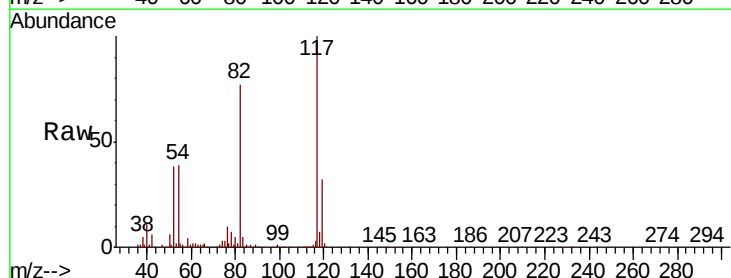
Tgt Ion: 117 Resp: 2419348

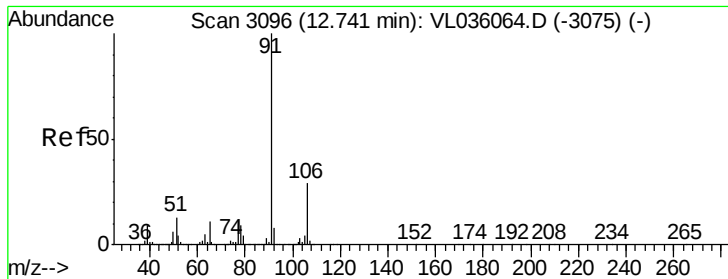
Ion Ratio Lower Upper

117 100

82 78.5 0.0 0.0#

119 32.9 0.0 0.0#





#58

Ethyl Benzene

Concen: 0.173 ppbv

RT: 12.73 min Scan# 3092

Delta R.T. -0.01 min

Lab File: VL036125.D

Acq: 9 Dec 2020 11:02

Instrument :

MSVOA_L

ClientSampled :

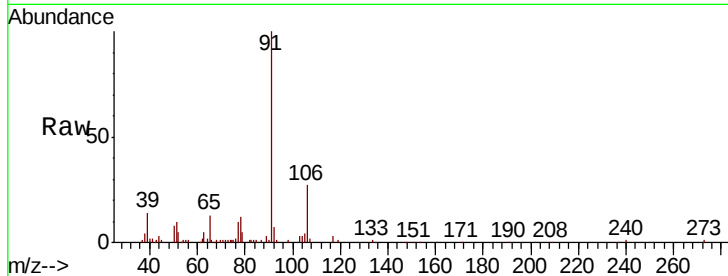
IA-2DL

Tot Ion: 91 Resp: 57357

Ion Ratio Lower Upper

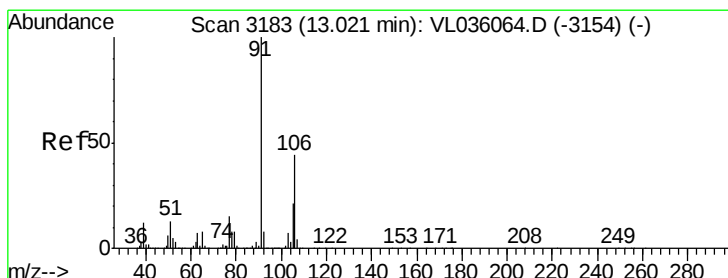
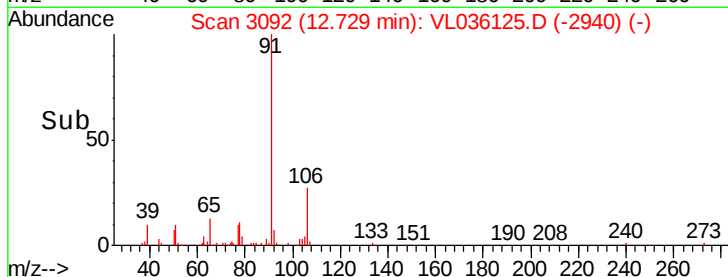
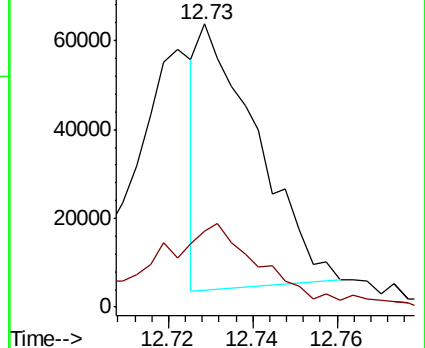
91 100

106 27.2 23.0 34.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.358 ppbv

RT: 13.01 min Scan# 3180

Delta R.T. -0.01 min

Lab File: VL036125.D

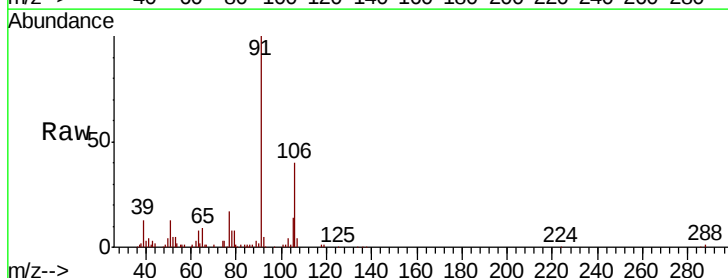
Acq: 9 Dec 2020 11:02

Tgt Ion: 91 Resp: 99903

Ion Ratio Lower Upper

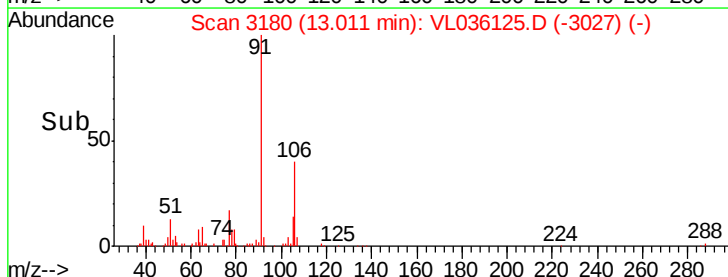
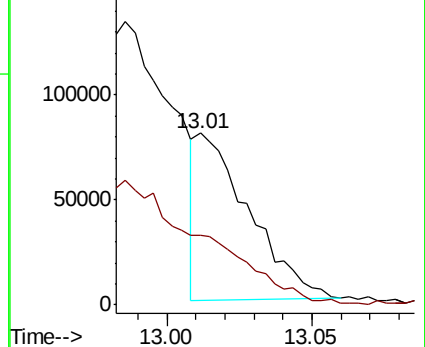
91 100

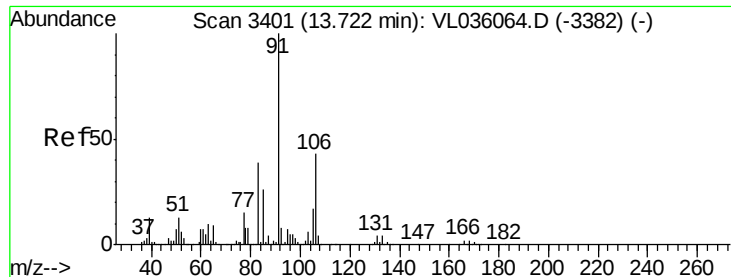
106 0.0 33.6 50.4#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

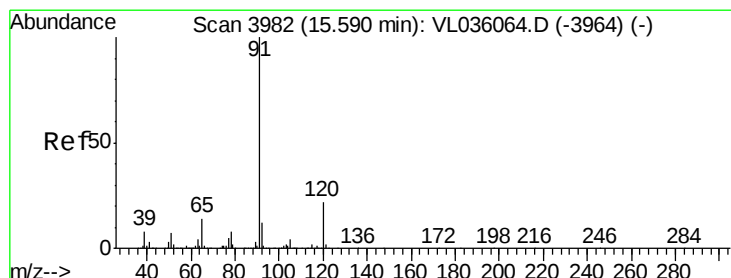
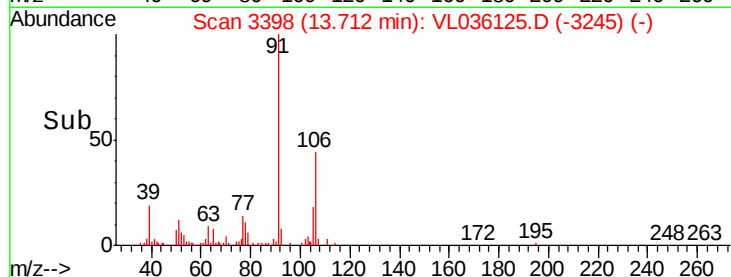
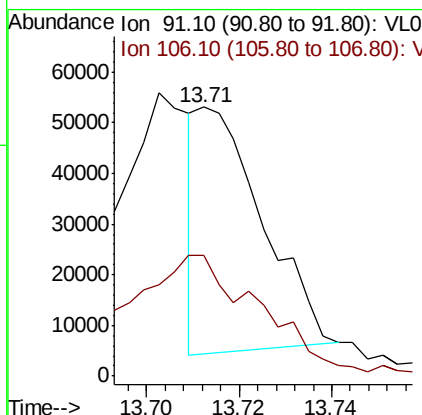
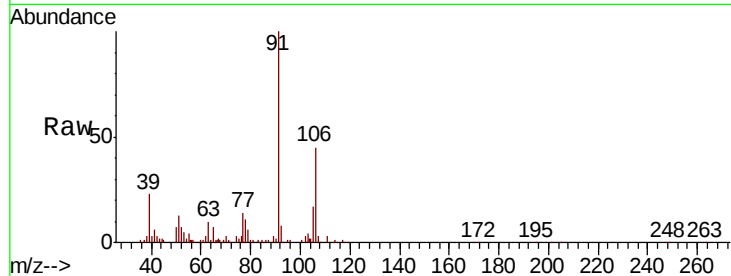




#60
o-Xylene
Concen: 0.176 ppbv
RT: 13.71 min Scan# 3398
Delta R.T. -0.01 min
Lab File: VL036125.D
Acq: 9 Dec 2020 11:02

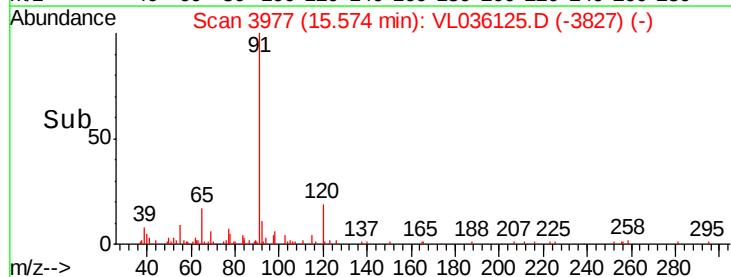
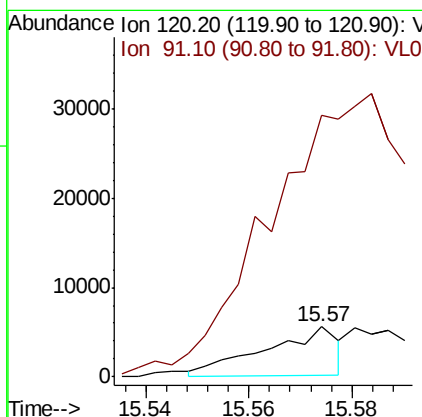
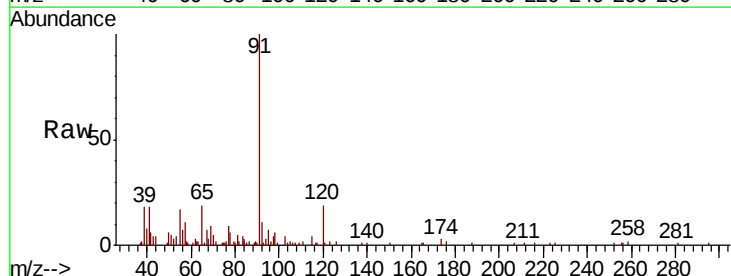
Instrument :
MSVOA_L
ClientSampleID :
IA-2DL

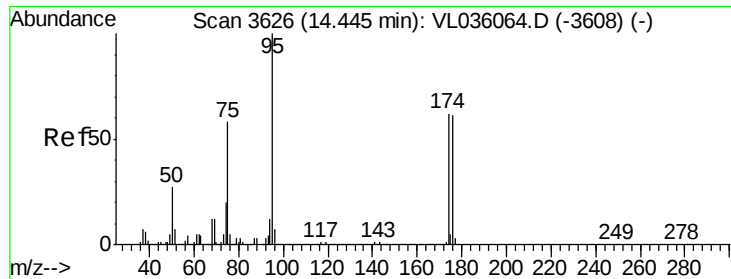
Tot Ion: 91 Resp: 46378
Ion Ratio Lower Upper
91 100
106 111.9 21.6 64.6#



#64
n-propylbenzene
Concen: 0.057 ppbv
RT: 15.57 min Scan# 3977
Delta R.T. -0.02 min
Lab File: VL036125.D
Acq: 9 Dec 2020 11:02

Tgt Ion:120 Resp: 5339
Ion Ratio Lower Upper
120 100
91 0.0 388.9 583.3#

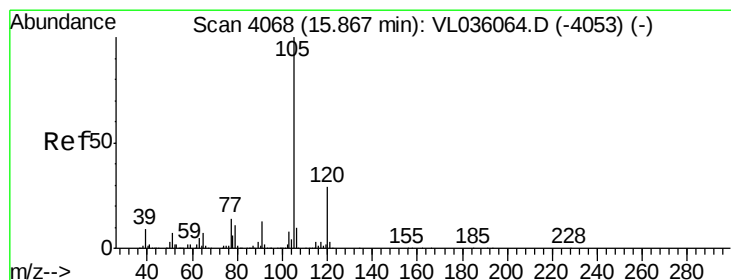
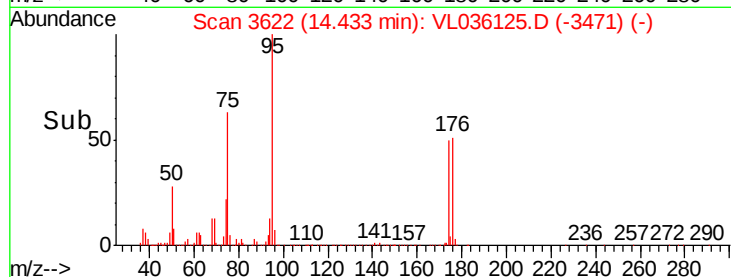
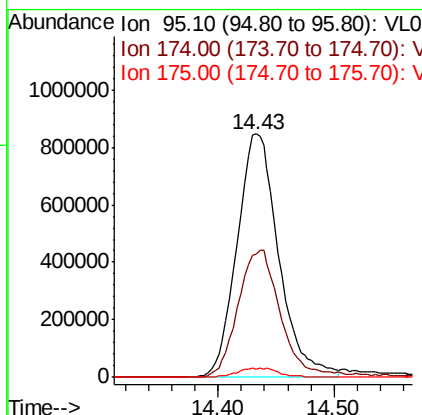
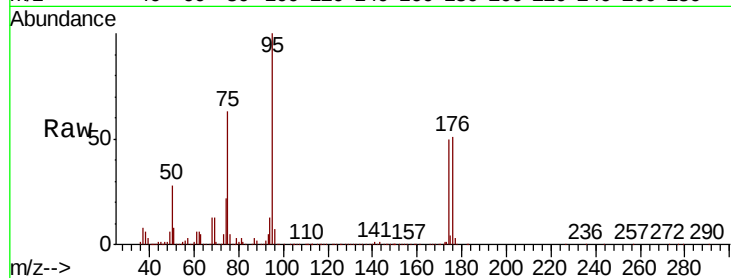




#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.006 ppbv
 RT: 14.43 min Scan# 3622
 Delta R.T. -0.01 min
 Lab File: VL036125.D
 Acq: 9 Dec 2020 11:02

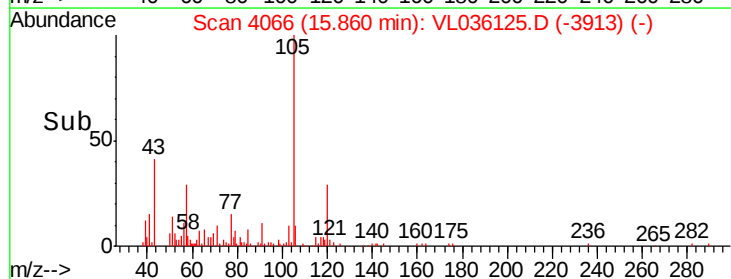
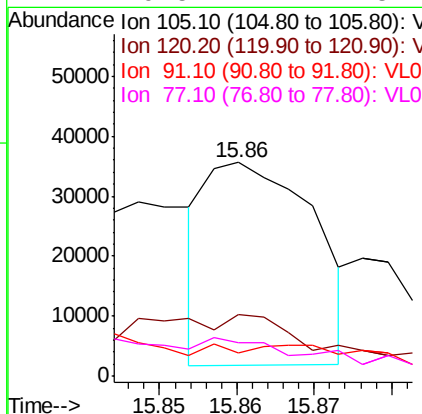
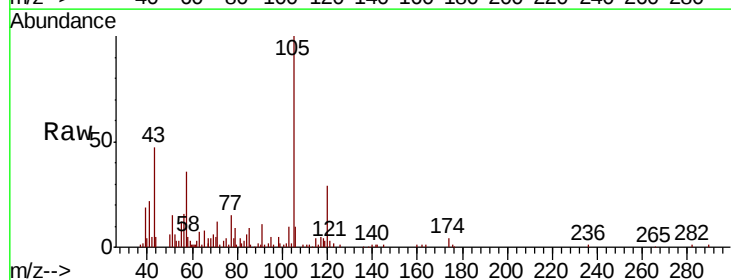
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

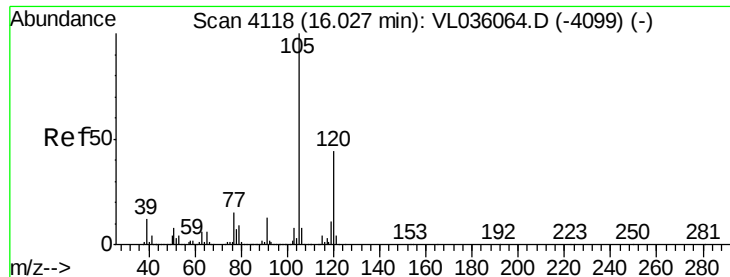
Tot Ion: 95 Resp: 2114246
 Ion Ratio Lower Upper
 95 100
 174 54.4 50.7 76.1
 175 4.0 4.0 6.0



#72
 4-Ethyltoluene
 Concen: 0.115 ppbv
 RT: 15.86 min Scan# 4066
 Delta R.T. -0.01 min
 Lab File: VL036125.D
 Acq: 9 Dec 2020 11:02

Tgt Ion: 105 Resp: 32777
 Ion Ratio Lower Upper
 105 100
 120 70.1 23.6 35.4#
 91 0.0 11.4 17.0#
 77 49.5 12.1 18.1#





#73

1,3,5-Trimethylbenzene

Concen: 0.136 ppbv

RT: 16.01 min Scan# 4114

Delta R.T. -0.01 min

Lab File: VL036125.D

Acq: 9 Dec 2020 11:02

Instrument :

MSVOA_L

ClientSampleId :

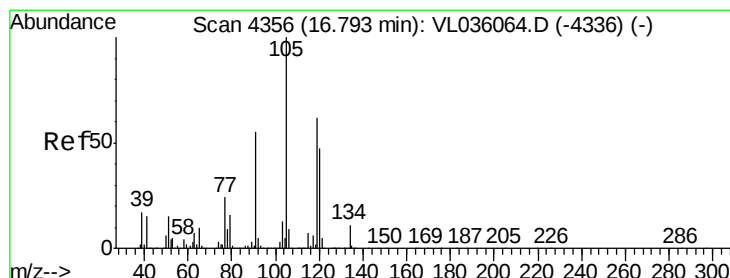
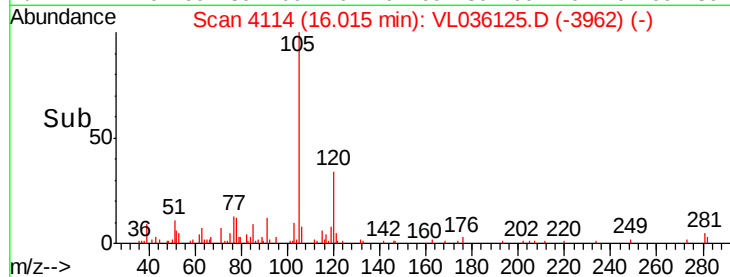
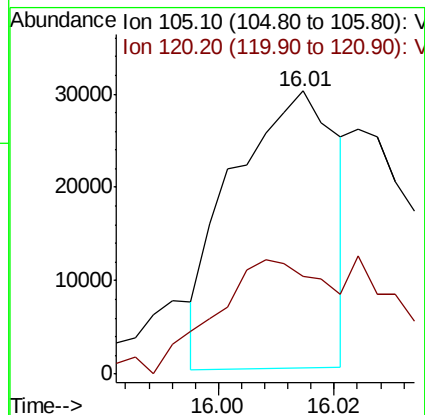
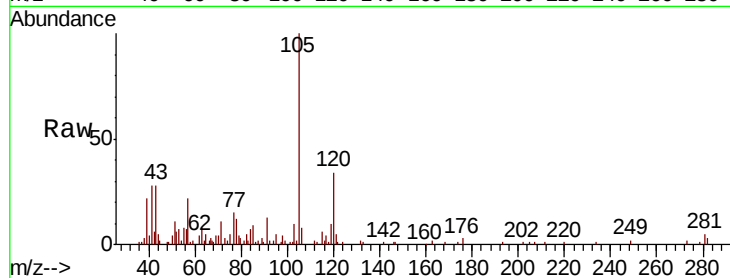
IA-2DL

Tot Ion:105 Resp: 37116

Ion Ratio Lower Upper

105 100

120 26.0 35.4 53.2#



#74

1,2,4-Trimethylbenzene

Concen: 0.703 ppbv

RT: 16.78 min Scan# 4353

Delta R.T. -0.01 min

Lab File: VL036125.D

Acq: 9 Dec 2020 11:02

Tgt Ion:105 Resp: 192199

Ion Ratio Lower Upper

105 100

120 36.9 37.4 56.0#

91 11.1 45.6 68.4#

77 16.3 19.4 29.2#

