

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120820\
 Data File : VL036100.D
 Acq On : 8 Dec 2020 18:28
 Operator : SY/AP
 Sample : L4949-02DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3DL2

Quant Time: Dec 09 07:19:23 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	1274302	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2631471	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2360960	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1980241	10.56	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.60%

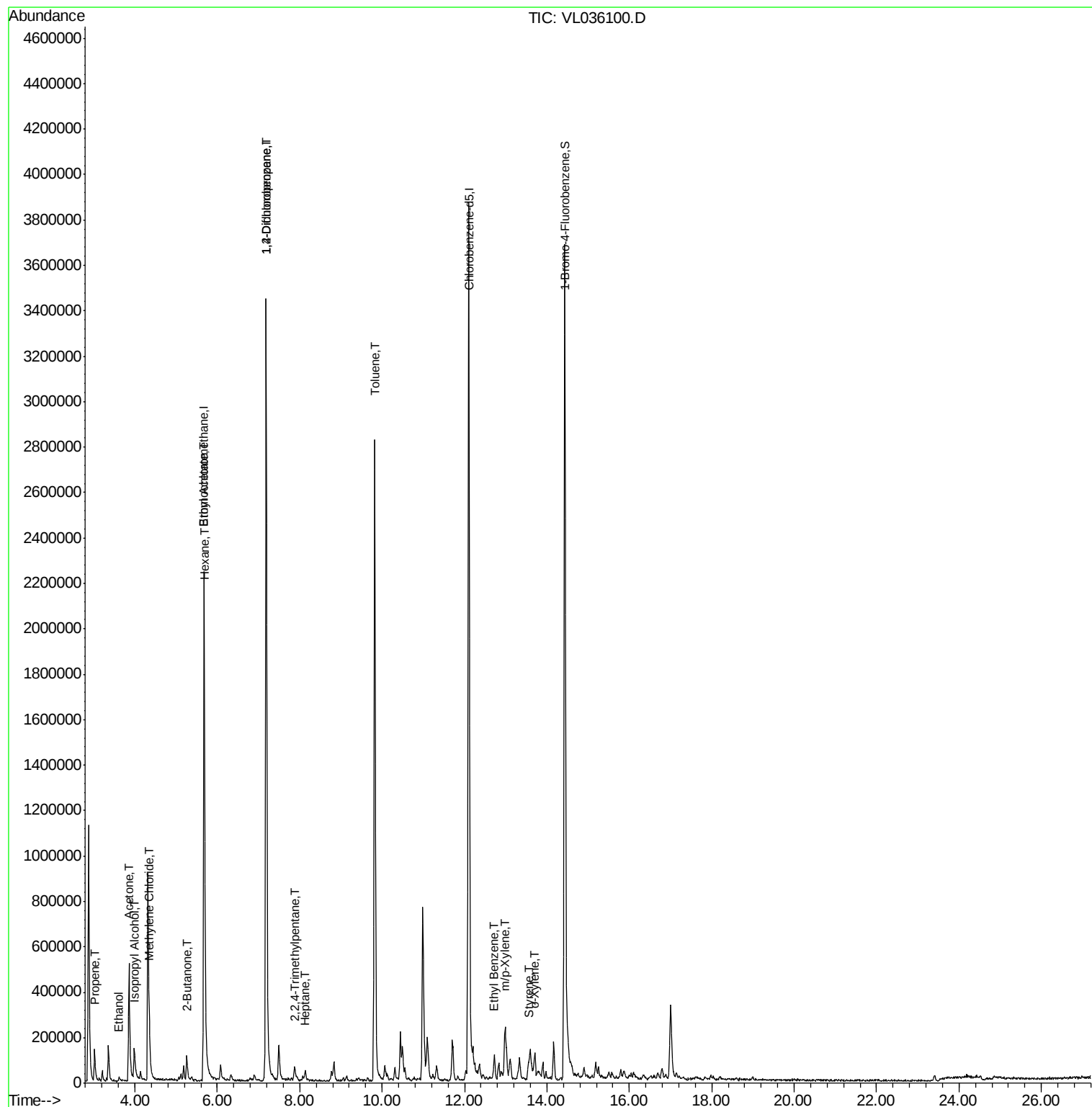
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.02	41	33729	0.463	ppbv	84
10) Heptane	8.13	43	11638	0.063	ppbv #	29
13) Ethanol	3.60	45	2397	0.239	ppbv #	29
15) Acetone	3.85	43	693129	4.526	ppbv	99
19) Isopropyl Alcohol	3.98	45	182886	1.954	ppbv #	100
20) Methylene Chloride	4.35	84	45691	0.728	ppbv	86
25) Ethyl Acetate	5.69	43	477340	1.560	ppbv #	89
26) Hexane	5.69	57	16158	0.117	ppbv #	1
34) 2-Butanone	5.26	43	139279	0.798	ppbv #	89
39) 1,2-Dichloropropane	7.19	63	802828	9.116	ppbv #	23
44) 2,2,4-Trimethylpentane	7.88	57	34846	0.086	ppbv #	30
53) Toluene	9.82	91	2329492	9.302	ppbv	99
58) Ethyl Benzene	12.73	91	88790	0.274	ppbv	96
59) m/p-Xylene	13.01	91	80144	0.294	ppbv #	34
60) o-Xylene	13.71	91	77690	0.303	ppbv	99
61) Styrene	13.55	104	12102	0.073	ppbv #	16

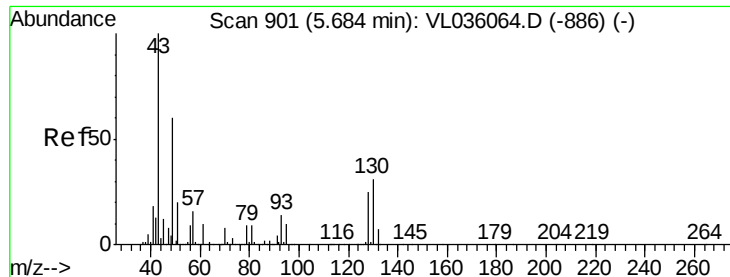
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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IA-3DL2

Quant Time: Dec 09 07:19:23 2020
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL036100.D

Acq: 8 Dec 2020 18:28

Instrument :

MSVOA_L

ClientSampleId :

IA-3DL2

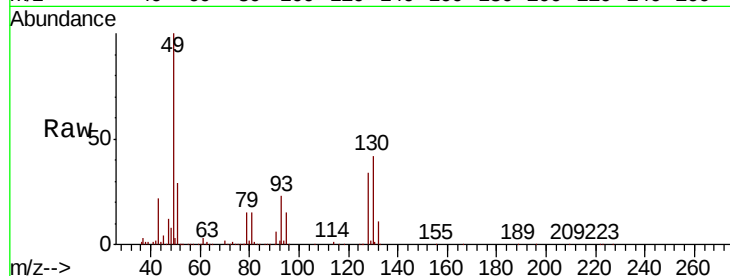
Tot Ion: 49 Resp: 1274302

Ion Ratio Lower Upper

49 100

128 36.6 21.1 63.1

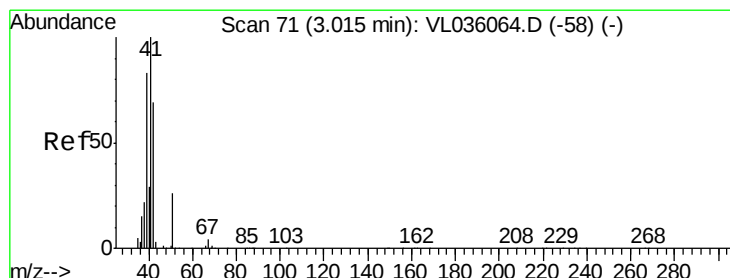
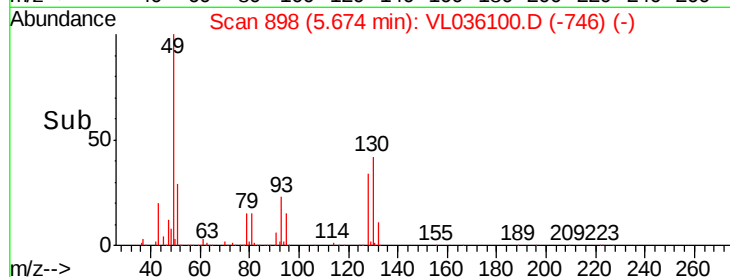
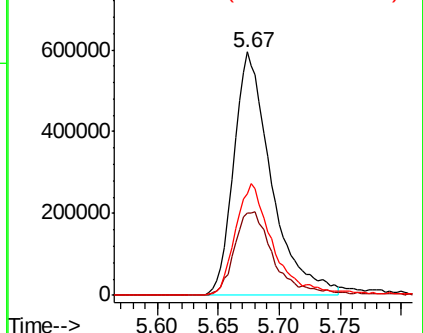
130 47.5 27.1 81.3



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



#9

Propene

Concen: 0.463 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL036100.D

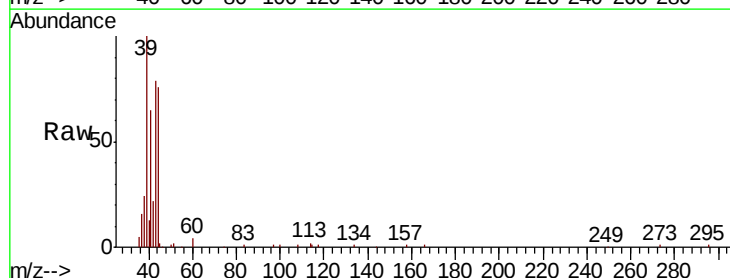
Acq: 8 Dec 2020 18:28

Tgt Ion: 41 Resp: 33729

Ion Ratio Lower Upper

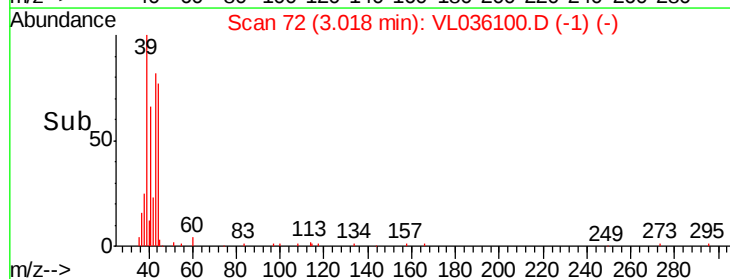
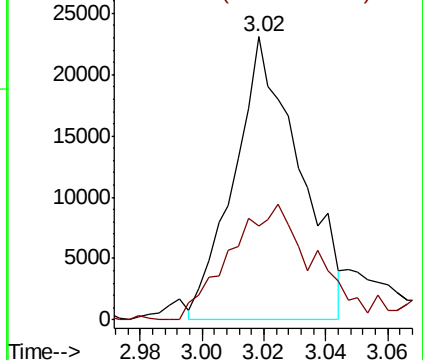
41 100

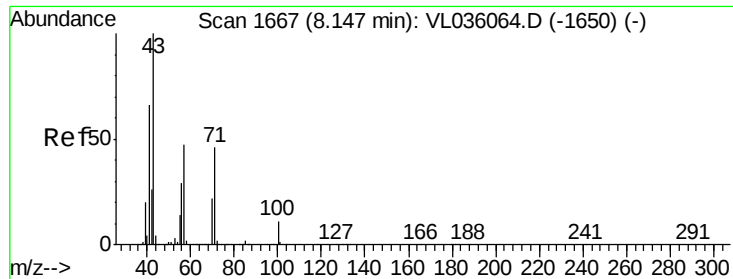
42 57.8 57.0 85.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

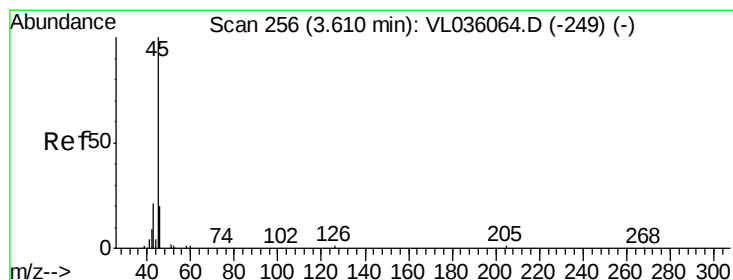
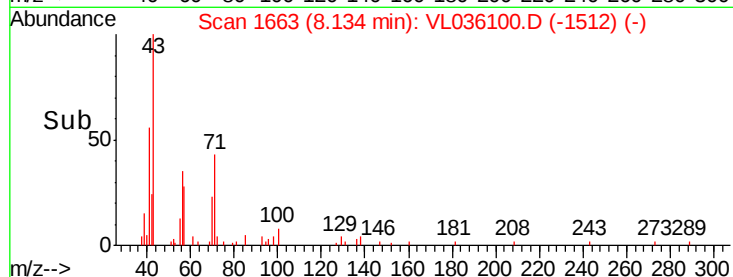
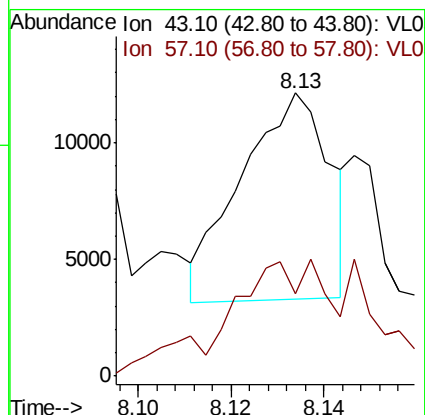
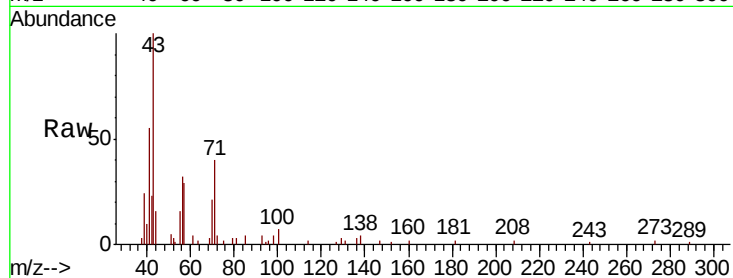




#10
Heptane
Concen: 0.063 ppbv
RT: 8.13 min Scan# 1663
Delta R.T. -0.01 min
Lab File: VL036100.D
Acq: 8 Dec 2020 18:28

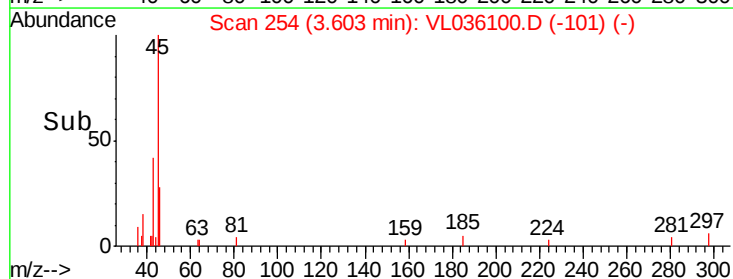
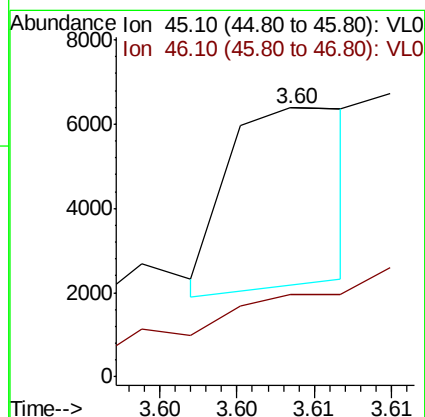
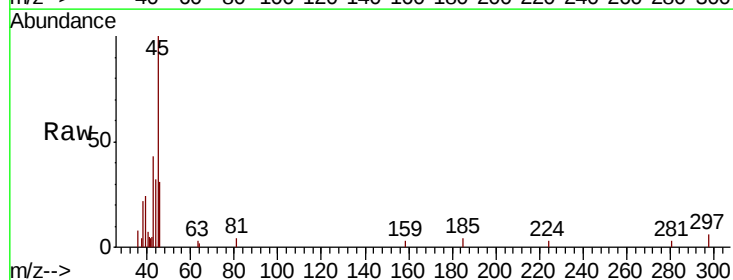
Instrument :
MSVOA_L
ClientSampled :
IA-3DL2

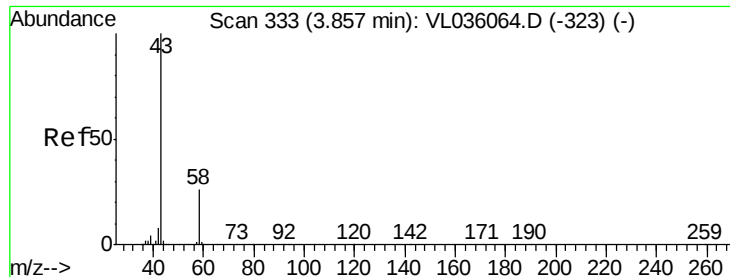
Tot Ion: 43 Resp: 11638
Ion Ratio Lower Upper
43 100
57 0.0 37.9 56.9#



#13
Ethanol
Concen: 0.239 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.01 min
Lab File: VL036100.D
Acq: 8 Dec 2020 18:28

Tgt Ion: 45 Resp: 2397
Ion Ratio Lower Upper
45 100
46 0.0 19.0 75.8#





#15

Acetone

Concen: 4.526 ppbv

RT: 3.85 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL036100.D

Acq: 8 Dec 2020 18:28

Instrument :

MSVOA_L

ClientSampleId :

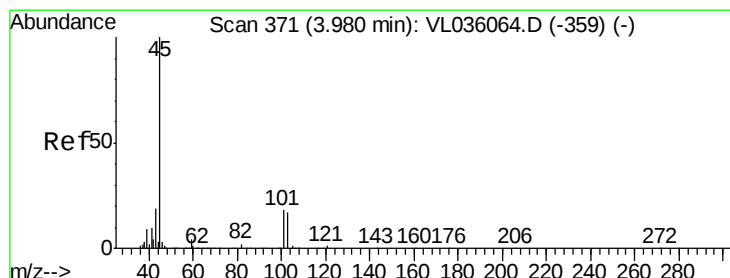
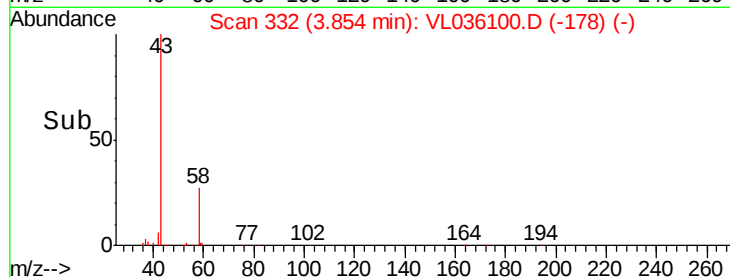
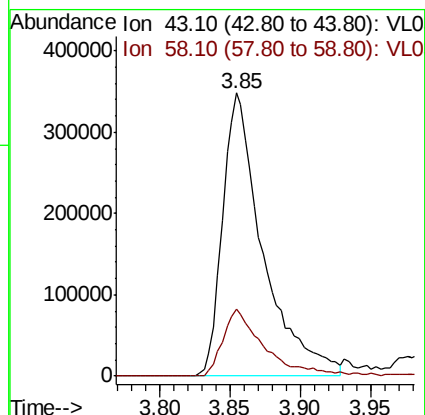
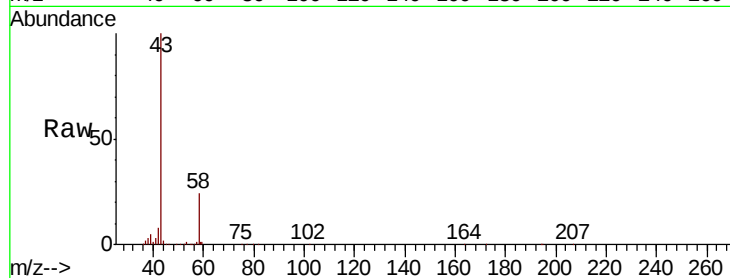
IA-3DL2

Tot Ion: 43 Resp: 693129

Ion Ratio Lower Upper

43 100

58 25.5 20.9 31.3



#19

Isopropyl Alcohol

Concen: 1.954 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.00 min

Lab File: VL036100.D

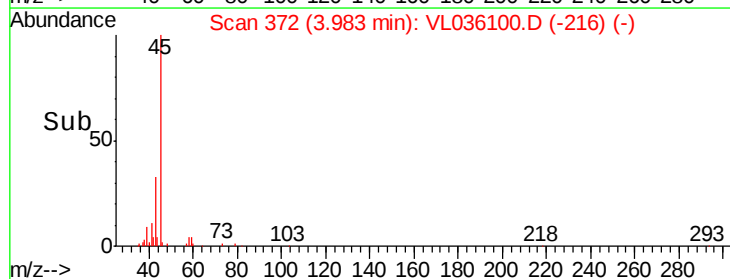
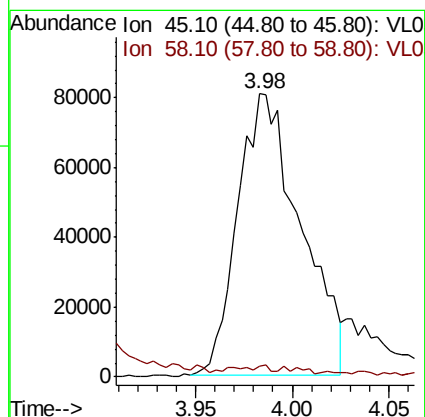
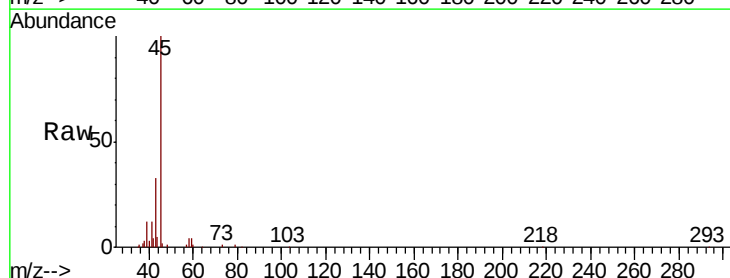
Acq: 8 Dec 2020 18:28

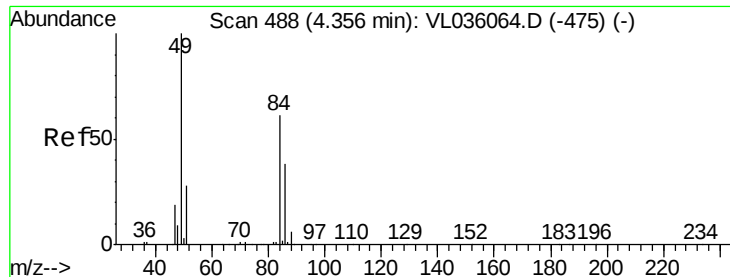
Tgt Ion: 45 Resp: 182886

Ion Ratio Lower Upper

45 100

58 4.5 0.0 0.0#

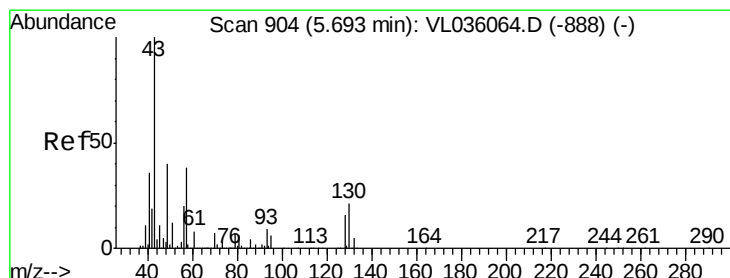
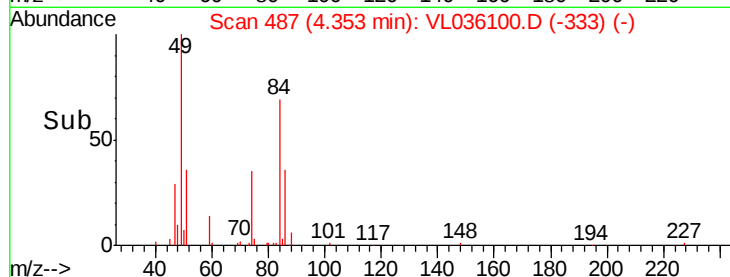
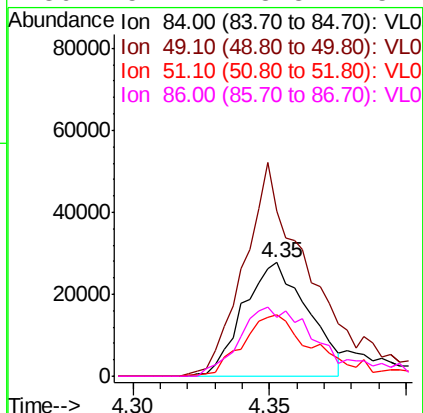
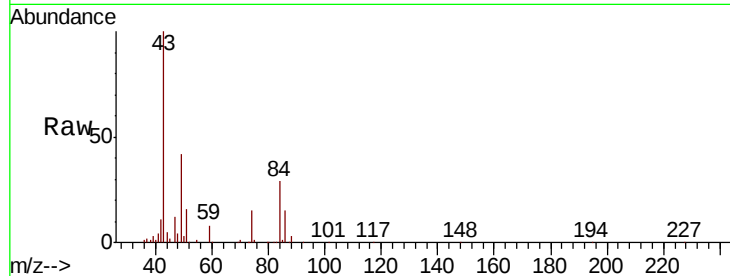




#20
Methvlene Chloride
Concen: 0.728 ppbv
RT: 4.35 min Scan# 487
Delta R.T. -0.00 min
Lab File: VL036100.D
Acq: 8 Dec 2020 18:28

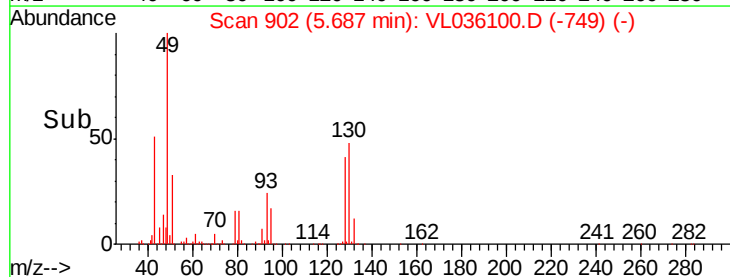
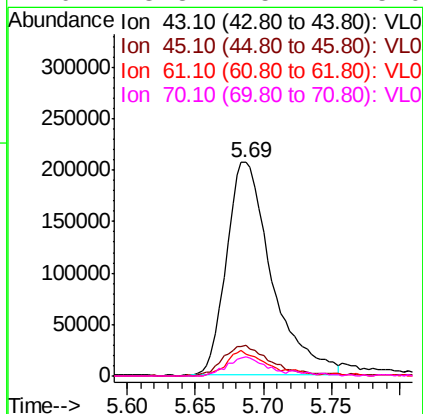
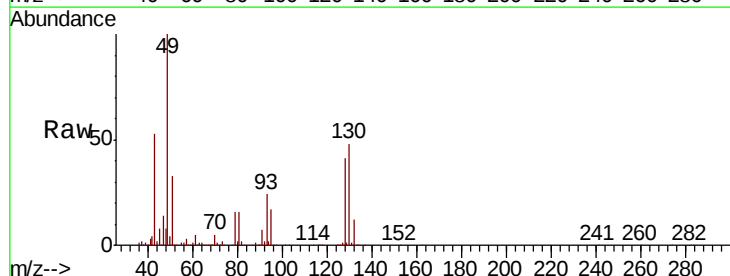
Instrument :
MSVOA_L
ClientSampled :
IA-3DL2

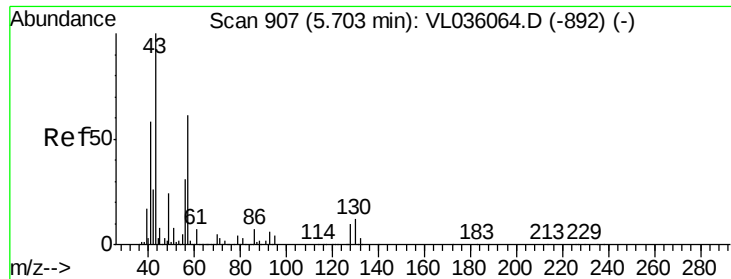
Tot Ion:	84	Resp:	45691
Ion	Ratio	Lower	Upper
84	100		
49	143.3	133.0	199.4
51	54.0	38.9	58.3
86	52.1	48.8	73.2



#25
Ethyl Acetate
Concen: 1.560 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL036100.D
Acq: 8 Dec 2020 18:28

Tgt Ion:	43	Resp:	477340
Ion	Ratio	Lower	Upper
43	100		
45	16.5	8.2	12.4#
61	11.9	7.4	11.2#
70	8.8	5.4	8.0#

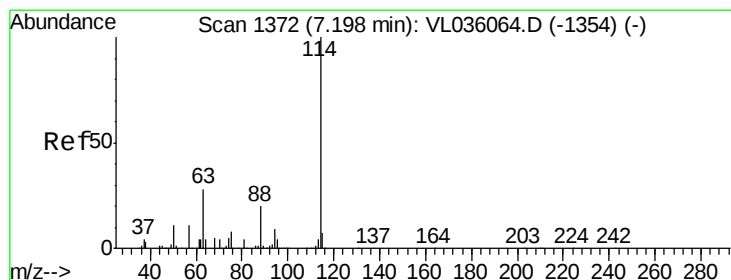
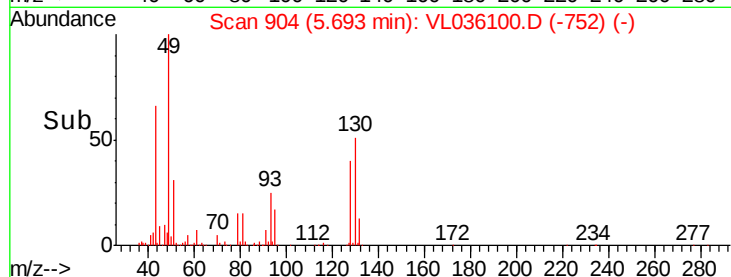
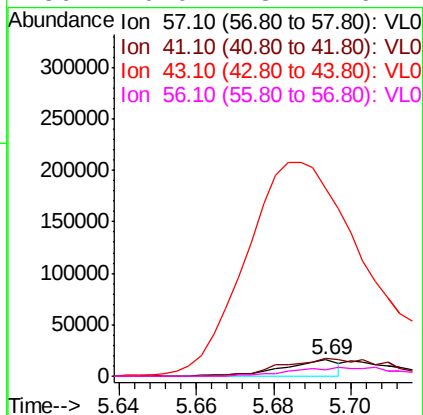
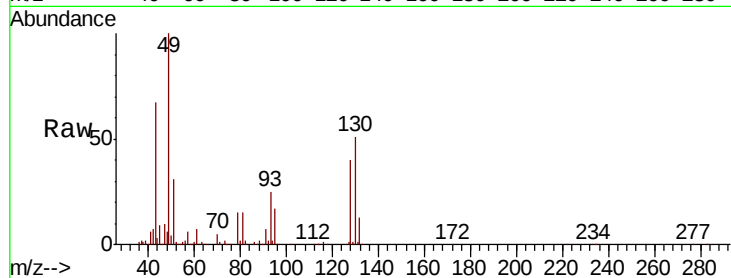




#26
Hexane
Concen: 0.117 ppbv
RT: 5.69 min Scan# 904
Delta R.T. -0.01 min
Lab File: VL036100.D
Acq: 8 Dec 2020 18:28

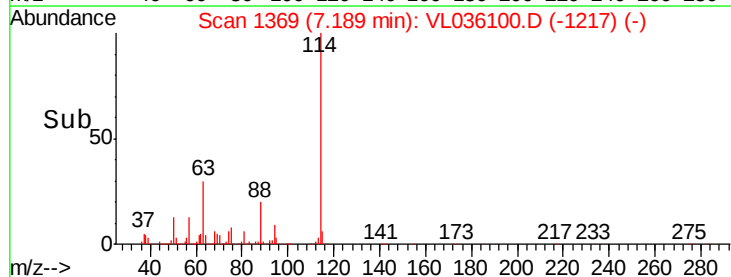
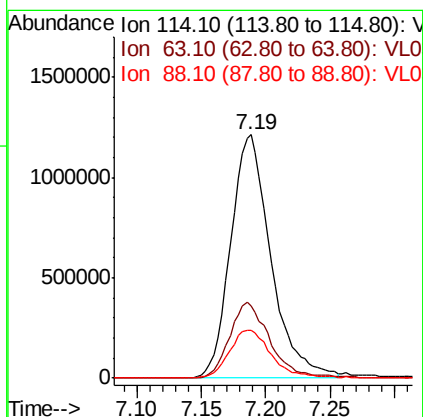
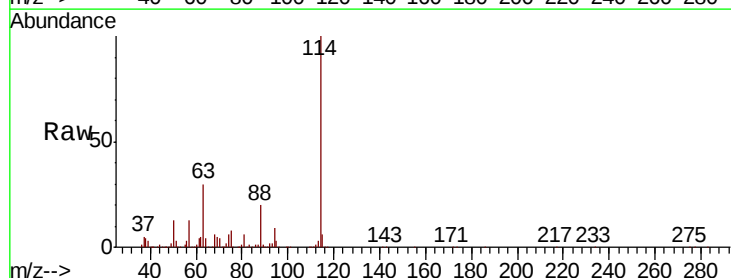
Instrument :
MSVOA_L
ClientSampleId :
IA-3DL2

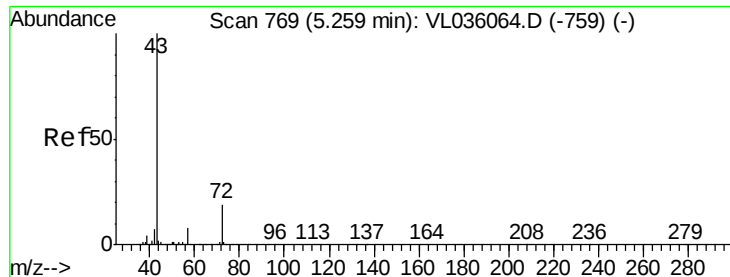
Tot Ion: 57 Resp: 16158
Ion Ratio Lower Upper
57 100
41 244.8 82.9 124.3#
43 3094.9 199.9 299.9#
56 0.0 43.1 64.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. -0.01 min
Lab File: VL036100.D
Acq: 8 Dec 2020 18:28

Tgt Ion: 114 Resp: 2631471
Ion Ratio Lower Upper
114 100
63 31.5 23.6 35.4
88 20.8 15.8 23.6

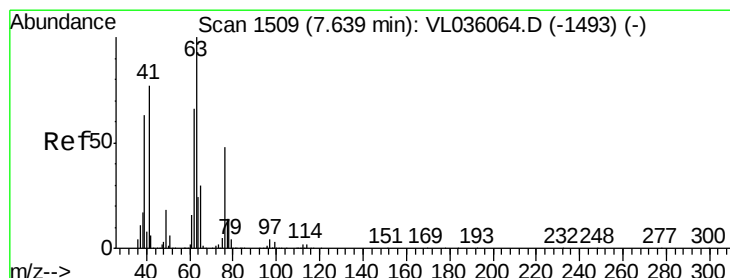
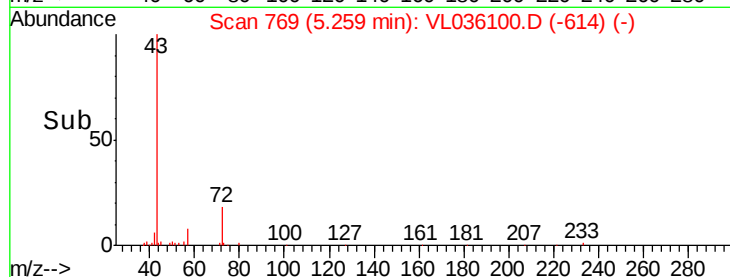
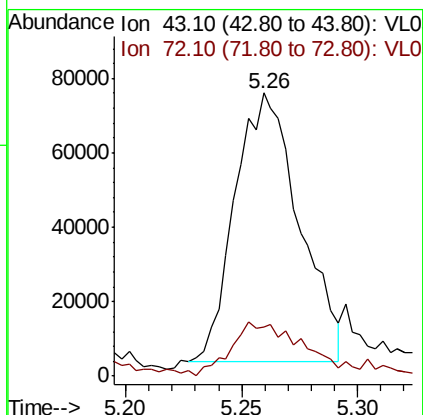
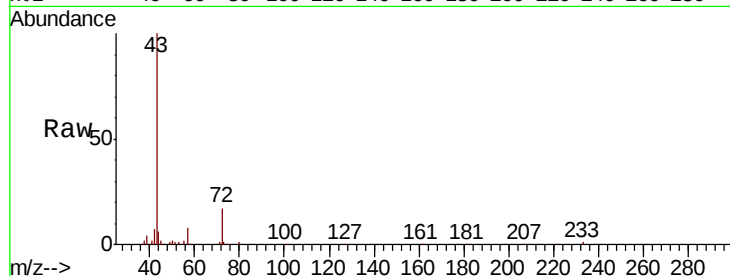




#34
 2-Butanone
 Concen: 0.798 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. -0.00 min
 Lab File: VL036100.D
 Acq: 8 Dec 2020 18:28

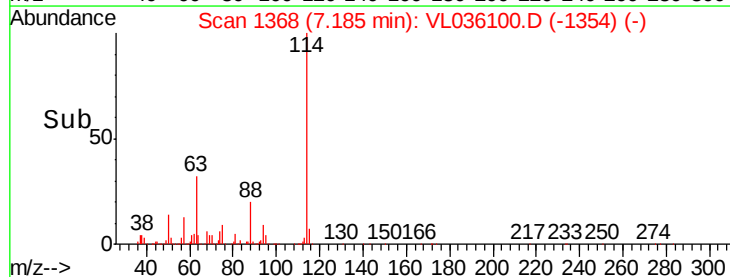
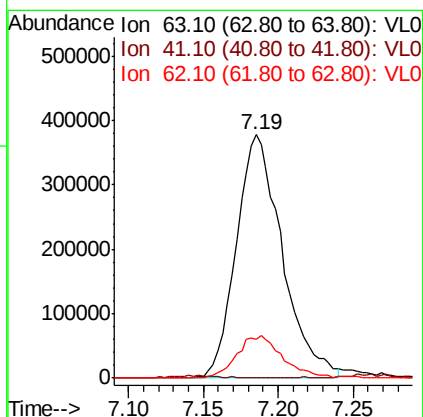
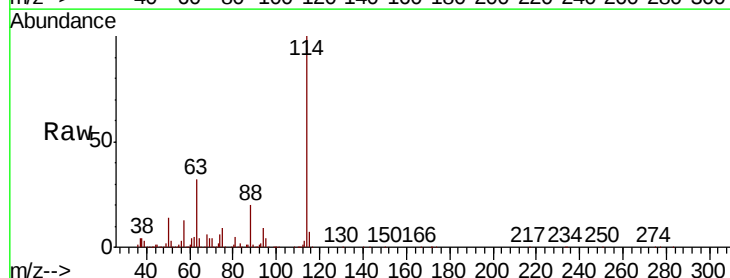
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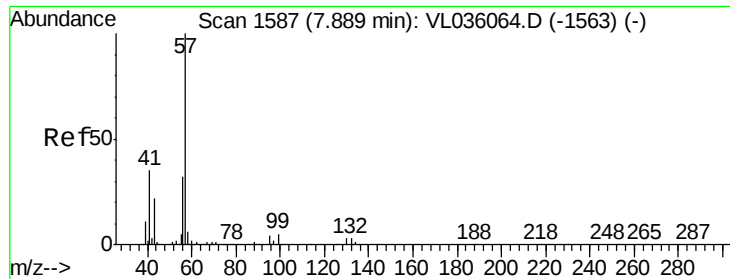
Tot Ion: 43 Resp: 139279
 Ion Ratio Lower Upper
 43 100
 72 25.9 16.5 24.7#



#39
 1,2-Dichloropropane
 Concen: 9.116 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. -0.45 min
 Lab File: VL036100.D
 Acq: 8 Dec 2020 18:28

Tgt Ion: 63 Resp: 802828
 Ion Ratio Lower Upper
 63 100
 41 0.0 61.9 92.9#
 62 16.1 52.5 78.7#

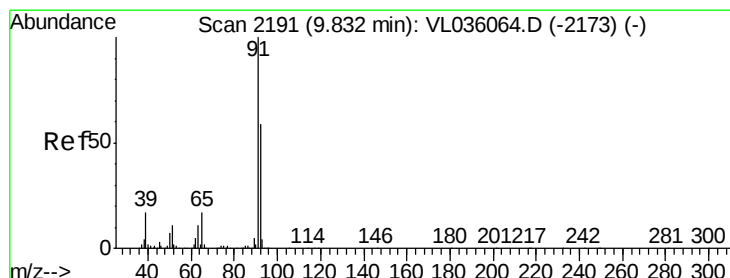
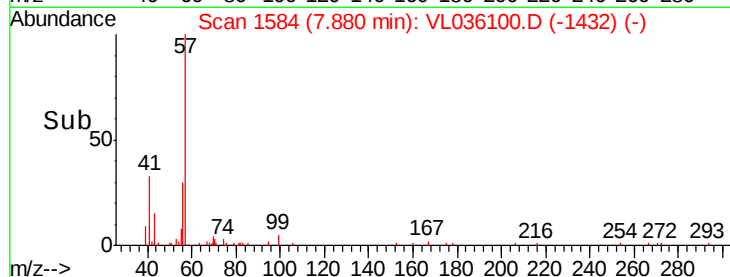
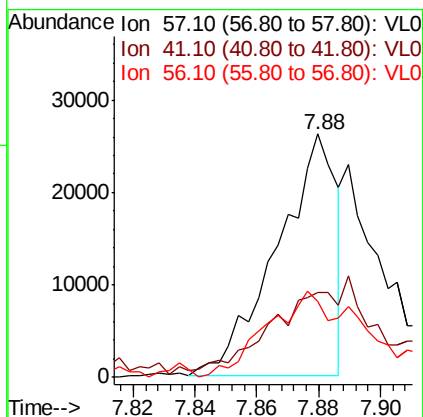
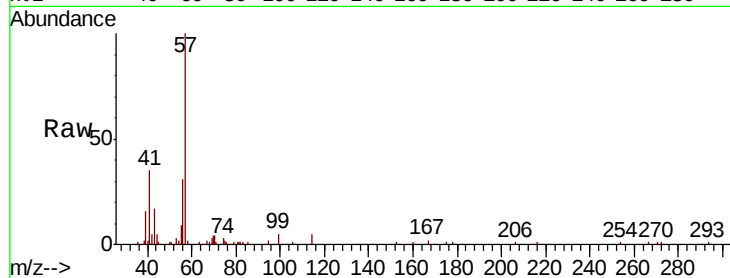




#44
 2,2,4-Trimethylpentane
 Concen: 0.086 ppbv
 RT: 7.88 min Scan# 1584
 Delta R.T. -0.01 min
 Lab File: VL036100.D
 Acq: 8 Dec 2020 18:28

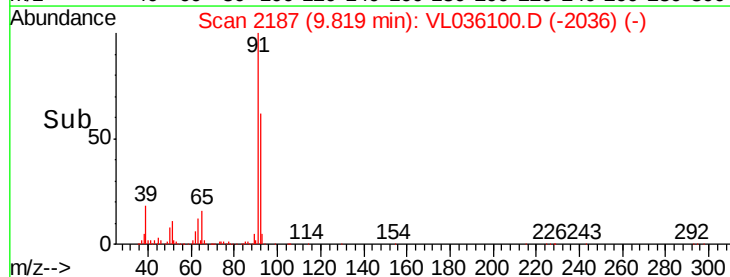
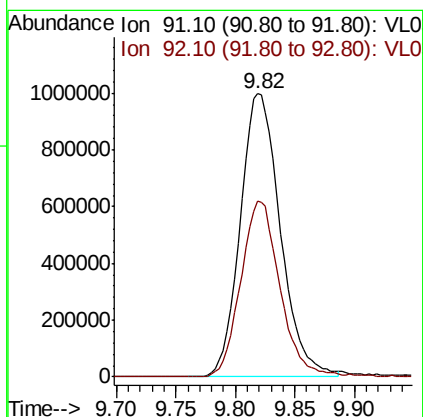
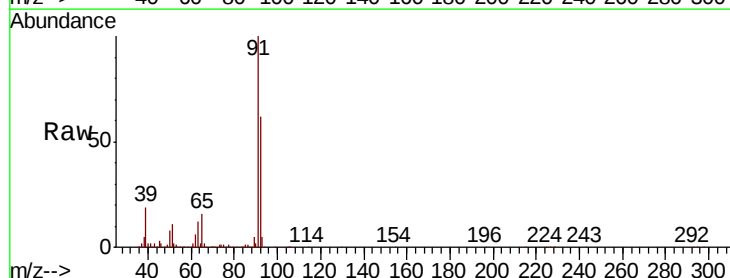
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3DL2

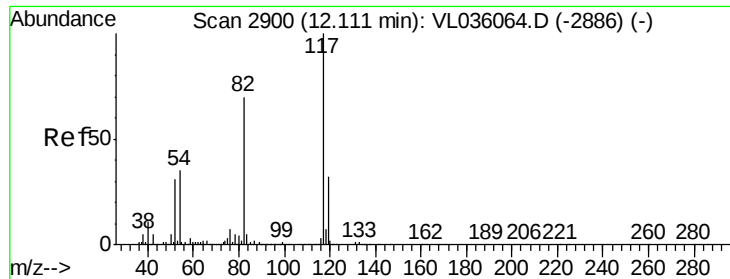
Tot Ion: 57 Resp: 34846
 Ion Ratio Lower Upper
 57 100
 41 0.0 28.9 43.3#
 56 76.0 25.3 37.9#



#53
 Toluene
 Concen: 9.302 ppbv
 RT: 9.82 min Scan# 2187
 Delta R.T. -0.01 min
 Lab File: VL036100.D
 Acq: 8 Dec 2020 18:28

Tgt Ion: 91 Resp: 2329492
 Ion Ratio Lower Upper
 91 100
 92 61.2 48.2 72.2

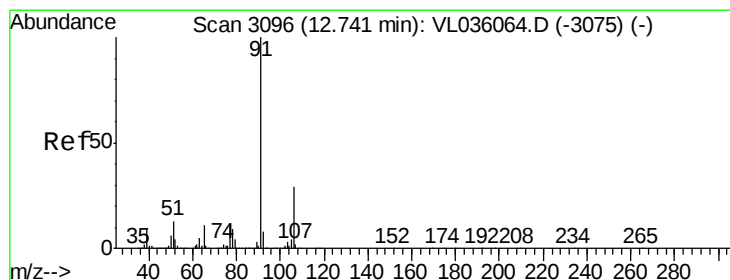
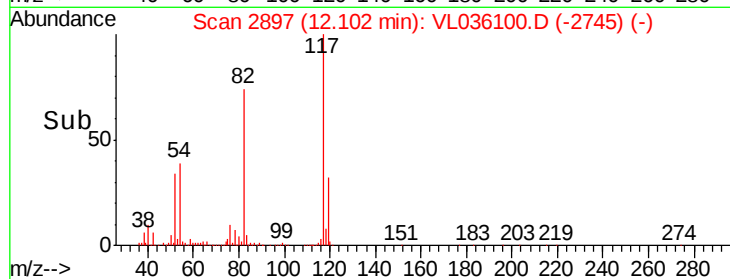
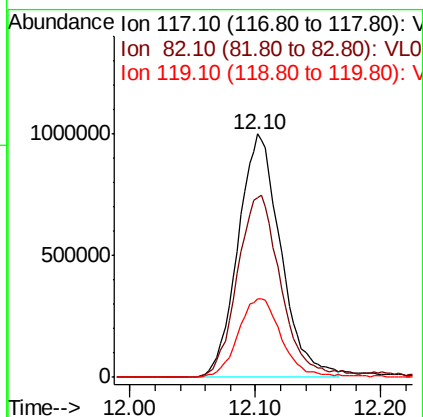
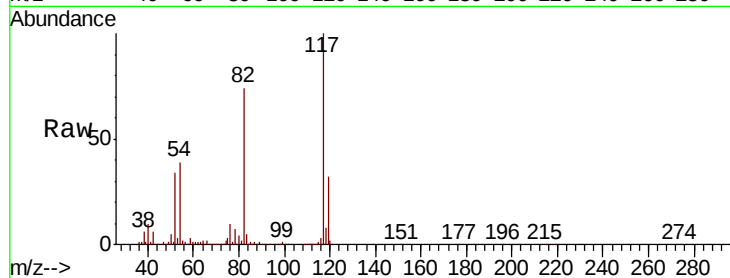




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. -0.01 min
Lab File: VL036100.D
Acq: 8 Dec 2020 18:28

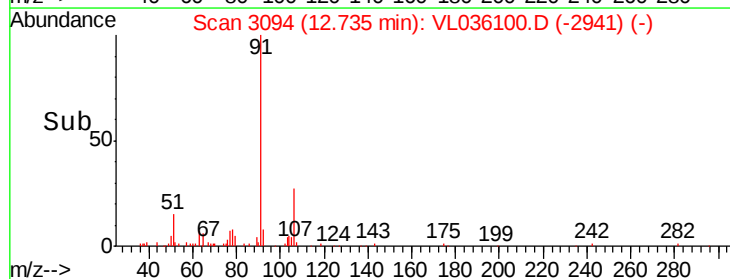
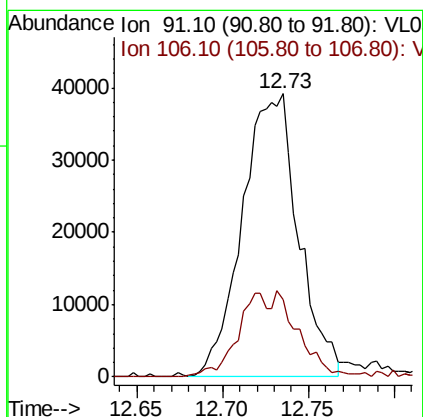
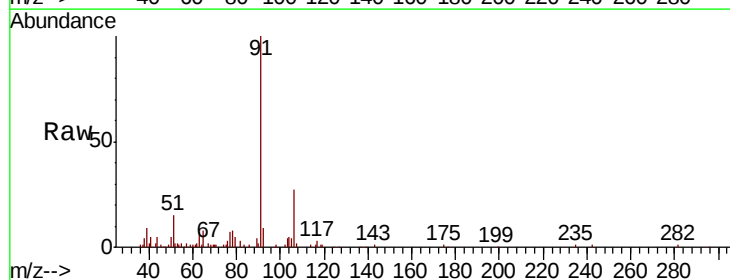
Instrument :
MSVOA_L
ClientSampleId :
IA-3DL2

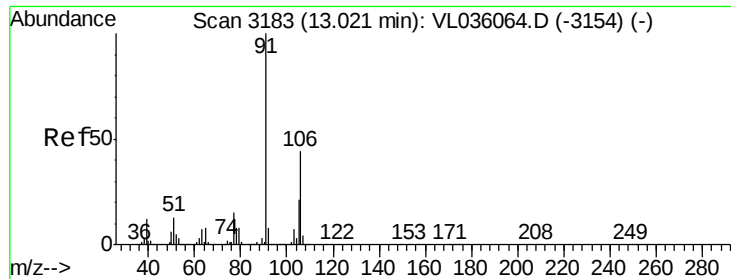
Tot Ion:117 Resp: 2360960
Ion Ratio Lower Upper
117 100
82 76.8 0.0 0.0#
119 33.8 0.0 0.0#



#58
Ethyl Benzene
Concen: 0.274 ppbv
RT: 12.73 min Scan# 3094
Delta R.T. -0.01 min
Lab File: VL036100.D
Acq: 8 Dec 2020 18:28

Tgt Ion: 91 Resp: 88790
Ion Ratio Lower Upper
91 100
106 26.7 23.0 34.4

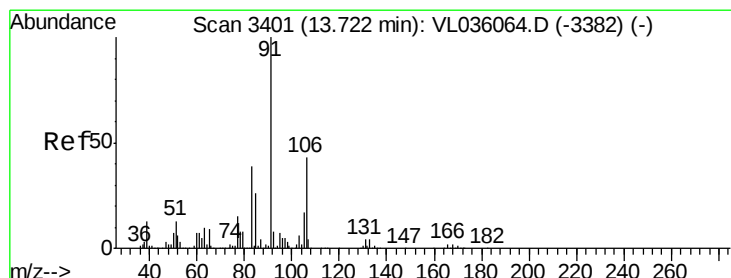
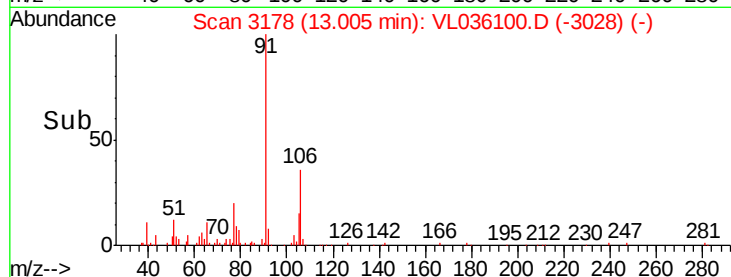
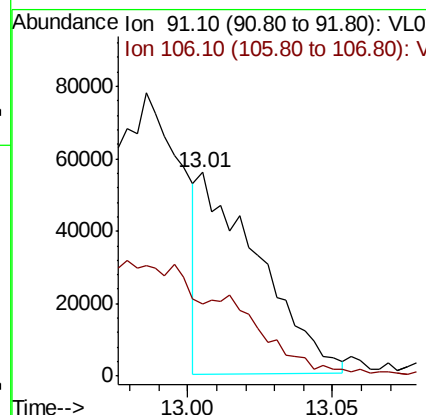
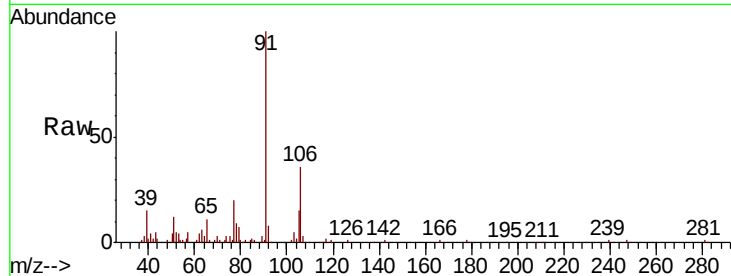




#59
m/p-Xylene
Concen: 0.294 ppbv
RT: 13.01 min Scan# 3178
Delta R.T. -0.02 min
Lab File: VL036100.D
Acq: 8 Dec 2020 18:28

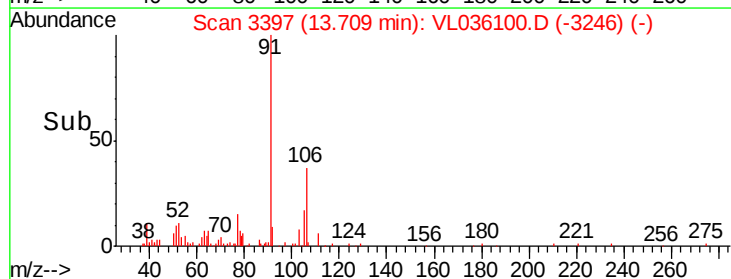
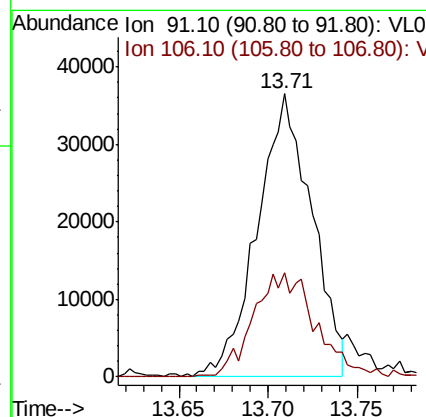
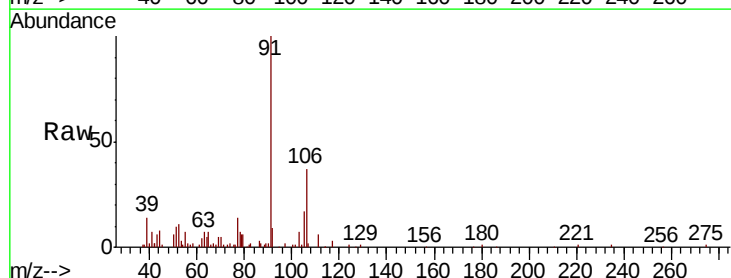
Instrument :
MSVOA_L
ClientSampleId :
IA-3DL2

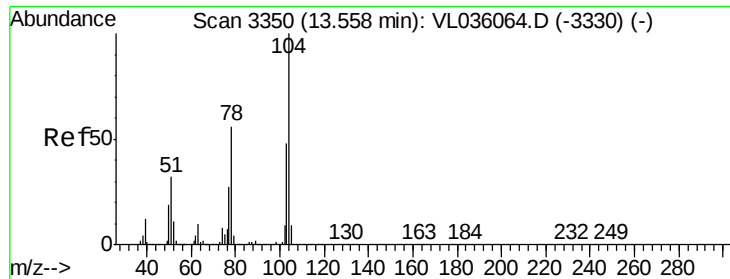
Tot Ion: 91 Resp: 80144
Ion Ratio Lower Upper
91 100
106 0.0 33.6 50.4#



#60
o-Xylene
Concen: 0.303 ppbv
RT: 13.71 min Scan# 3397
Delta R.T. -0.01 min
Lab File: VL036100.D
Acq: 8 Dec 2020 18:28

Tgt Ion: 91 Resp: 77690
Ion Ratio Lower Upper
91 100
106 43.4 21.6 64.6





#61

Stvrene

Concen: 0.073 ppbv

RT: 13.55 min Scan# 3346

Delta R.T. -0.01 min

Lab File: VL036100.D

Acq: 8 Dec 2020 18:28

Instrument :

MSVOA_L

ClientSampleId :

IA-3DL2

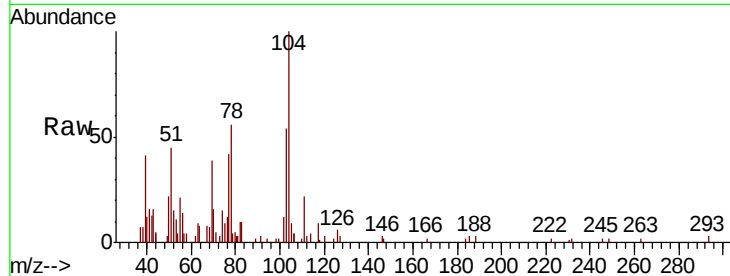
Tot Ion:104 Resp: 12102

Ion Ratio Lower Upper

104 100

78 0.0 45.8 68.8#

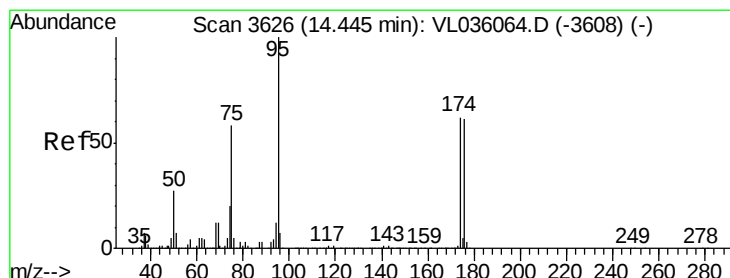
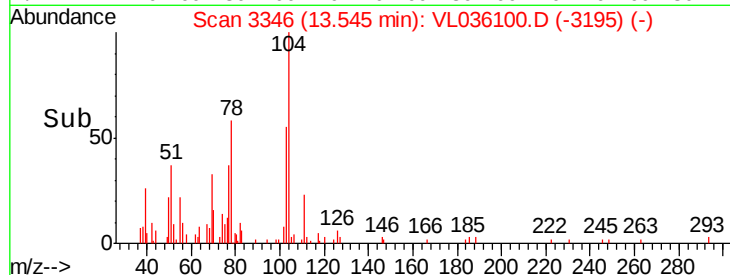
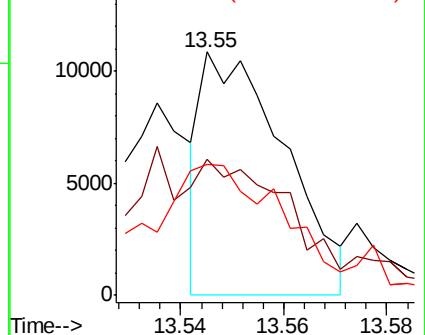
103 110.5 38.6 57.8#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.563 ppbv

RT: 14.44 min Scan# 3623

Delta R.T. -0.01 min

Lab File: VL036100.D

Acq: 8 Dec 2020 18:28

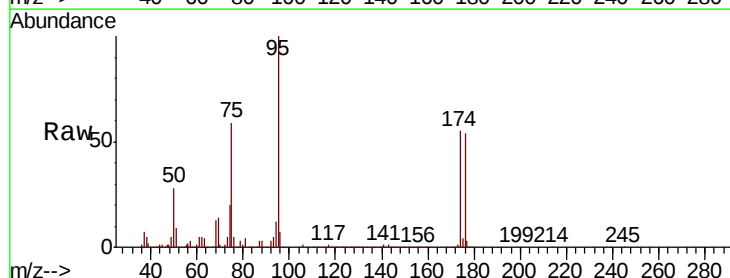
Tgt Ion: 95 Resp: 1980241

Ion Ratio Lower Upper

95 100

174 57.1 50.7 76.1

175 4.0 4.0 6.0#



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

