

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060121\
 Data File : VL037076.D
 Acq On : 1 Jun 2021 18:58
 Operator : SY/AP
 Sample : M2559-04 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 HSG4

Manual Integrations
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Quant Time: Jun 02 04:00:43 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1634645	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4808517	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	4452189	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	3223803	9.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.13	50	11785	0.116	ppbv	96
9) Propene	3.01	41	57700m	0.538	ppbv	
10) Heptane	8.10	43	154799	0.579	ppbv	98
13) Ethanol	3.60	45	421943	29.490	ppbv	95
15) Acetone	3.84	43	3266167	19.507	ppbv	90
17) tert-Butyl alcohol	4.31	59	70726m	0.461	ppbv	
19) Isopropyl Alcohol	3.97	45	68615m	0.762	ppbv	
20) Methylene Chloride	4.33	84	1726646	19.238	ppbv	99
26) Hexane	5.67	57	1496511	7.281	ppbv #	47
30) Cyclohexane	7.11	84	34414m	0.197	ppbv	
34) 2-Butanone	5.24	43	51848	0.296	ppbv #	77
36) Benzene	6.88	78	122261m	0.295	ppbv	
44) 2,2,4-Trimethylpentane	7.85	57	182935	0.257	ppbv #	71
53) Toluene	9.79	91	675603	1.371	ppbv	99
58) Ethyl Benzene	12.69	91	132764	0.211	ppbv	89
59) m/p-Xylene	12.95	91	377868	0.727	ppbv	97
60) o-Xylene	13.67	91	122132m	0.247	ppbv	
62) Isopropylbenzene	14.65	105	117973m	0.166	ppbv	
72) 4-Ethyltoluene	15.82	105	59518m	0.101	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	141449	0.248	ppbv #	68

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

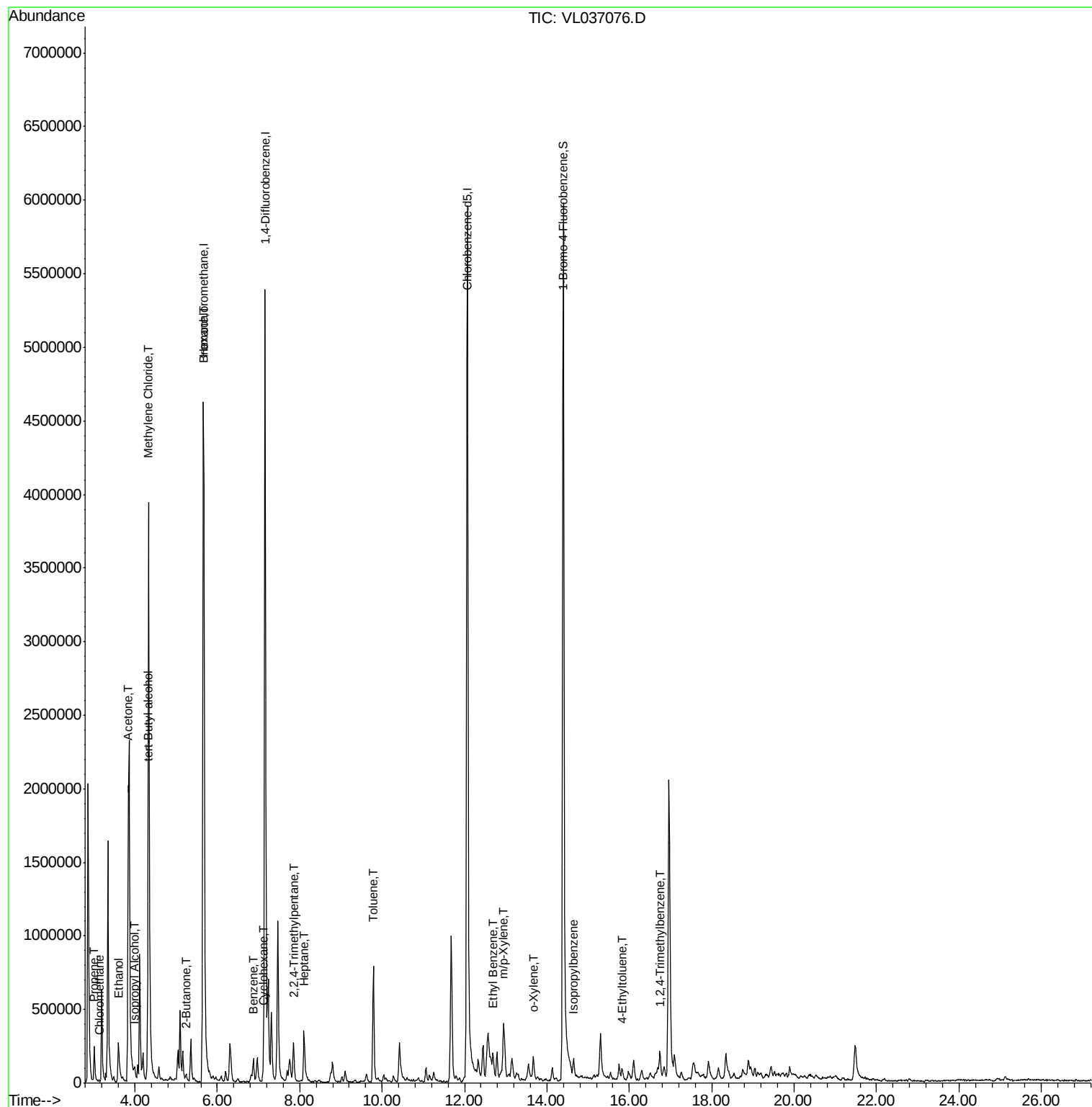
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060121\
Data File : VL037076.D
Acq On : 1 Jun 2021 18:58
Operator : SY/AP
Sample : M2559-04 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

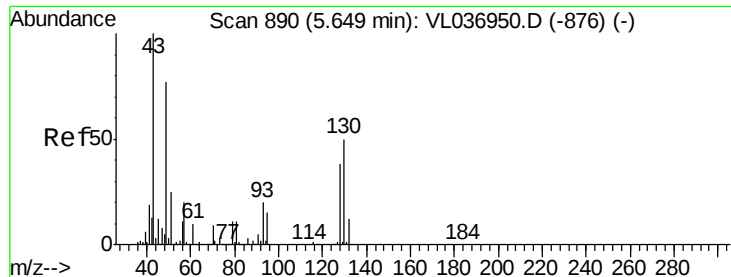
Instrument :
MSVOA_L
ClientSampleId :
HSG4

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Quant Time: Jun 02 04:00:43 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue May
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

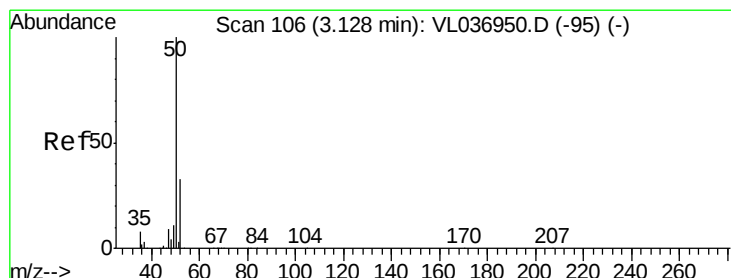
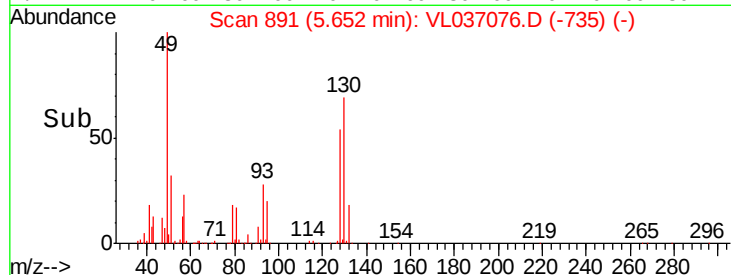
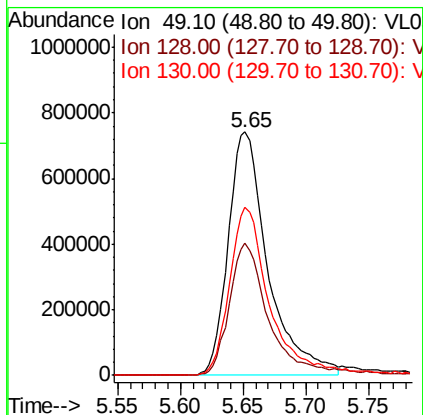
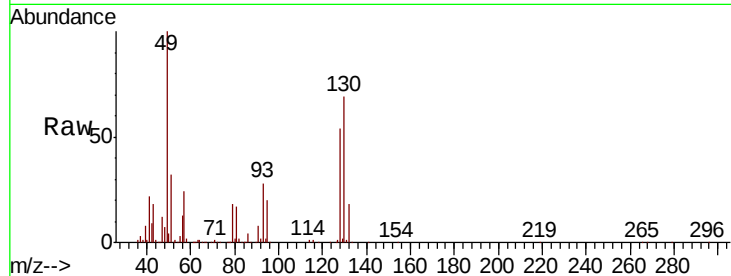
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 891
 Delta R.T. 0.00 min
 Lab File: VL037076.D
 Acq: 1 Jun 2021 18:58

Instrument :
 MSVOA_L
 ClientSampled :
 HSG4

Tot Ion: 49 Resp: 1634645
 Ion Ratio Lower Upper
 49 100
 128 56.0 26.9 80.7
 130 70.3 33.8 101.4

Manual Integrations
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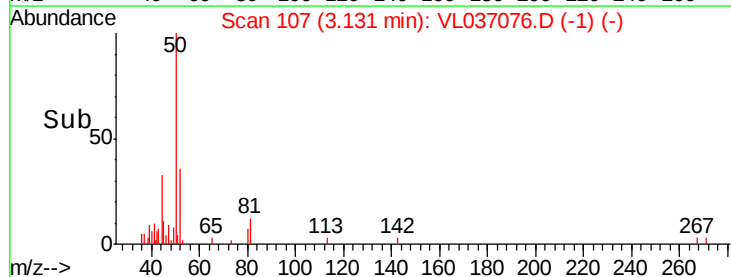
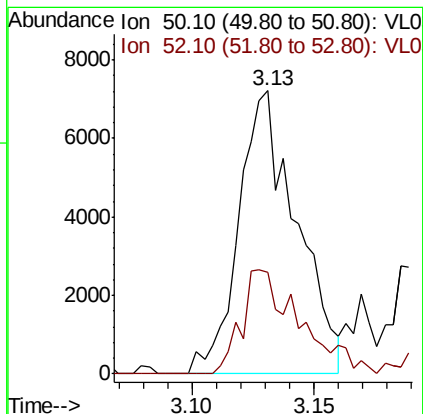
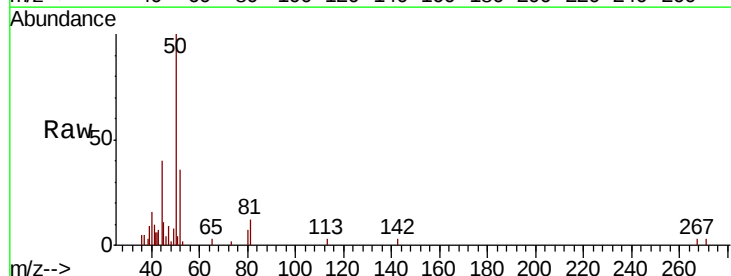
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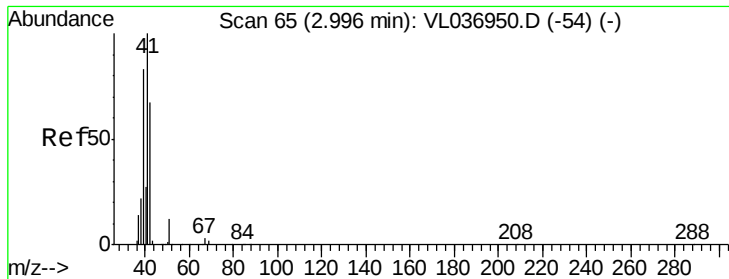


#4

Chloromethane
 Concen: 0.116 ppbv
 RT: 3.13 min Scan# 107
 Delta R.T. 0.00 min
 Lab File: VL037076.D
 Acq: 1 Jun 2021 18:58

Tgt Ion: 50 Resp: 11785
 Ion Ratio Lower Upper
 50 100
 52 34.6 26.1 39.1





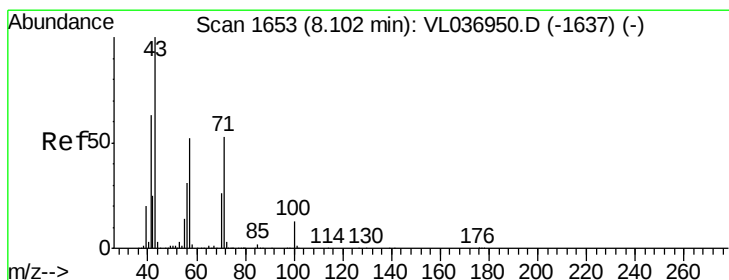
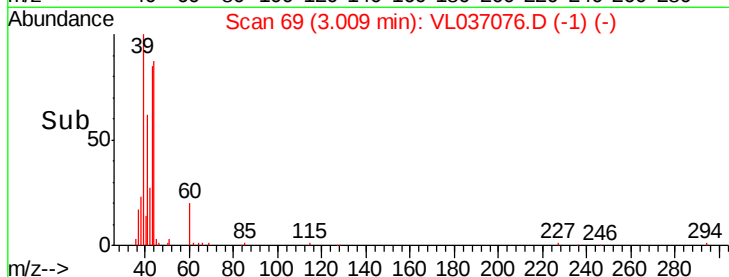
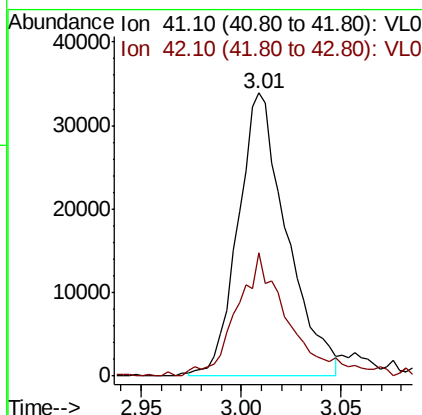
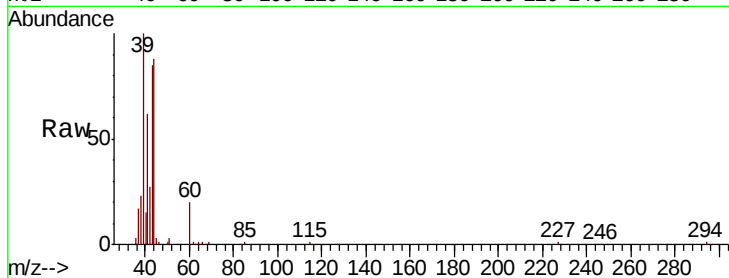
#9
 Propene
 Concen: 0.538 ppbv m
 RT: 3.01 min Scan# 69
 Delta R.T. 0.01 min
 Lab File: VL037076.D
 Acq: 1 Jun 2021 18:58

Instrument :
 MSVOA_L
 ClientSampleId :
 HSG4

Tot Ion: 41 Resp: 57700
 Ion Ratio Lower Upper
 41 100
 42 257.9 53.9 80.9#

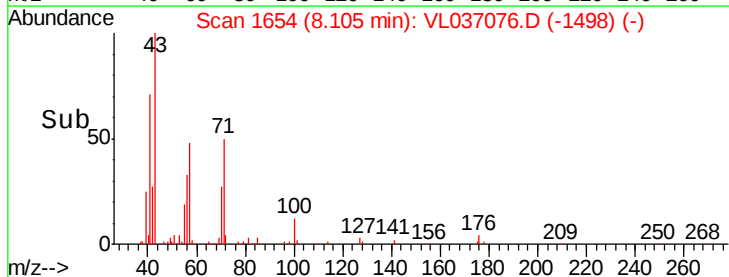
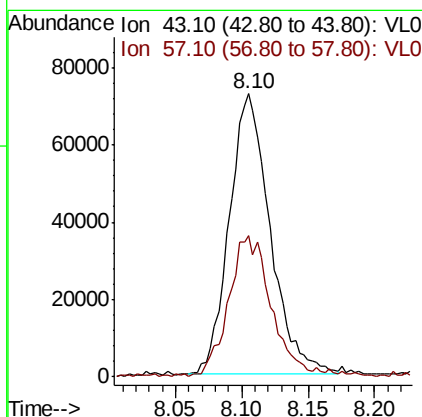
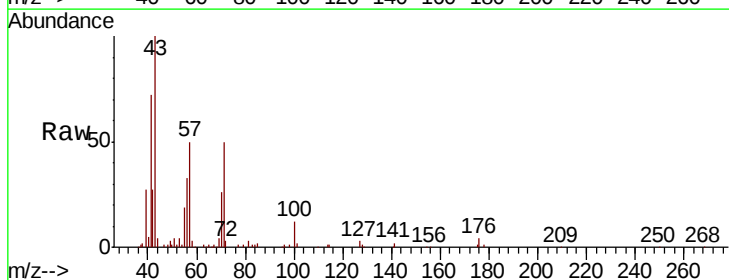
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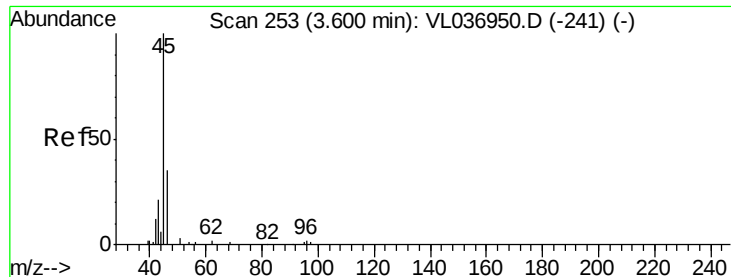
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#10
 Heptane
 Concen: 0.579 ppbv
 RT: 8.10 min Scan# 1654
 Delta R.T. 0.00 min
 Lab File: VL037076.D
 Acq: 1 Jun 2021 18:58

Tgt Ion: 43 Resp: 154799
 Ion Ratio Lower Upper
 43 100
 57 52.8 41.0 61.6





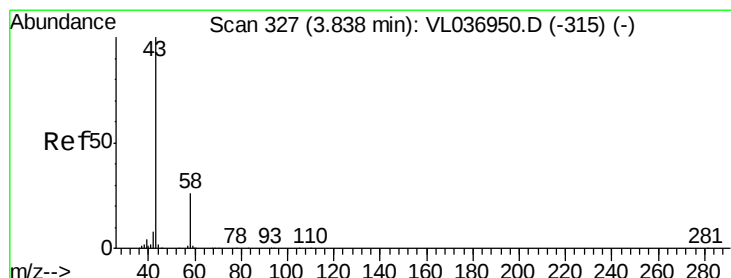
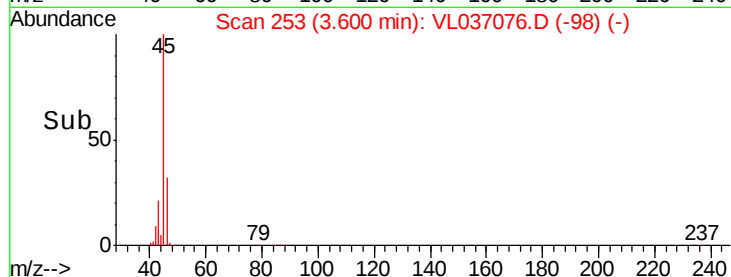
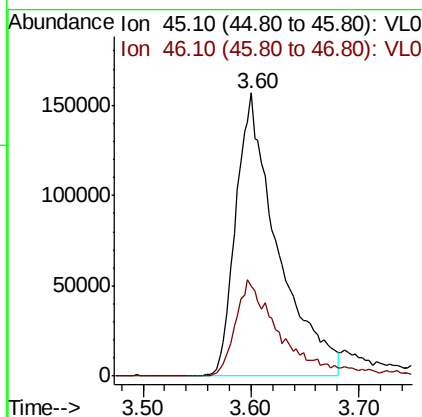
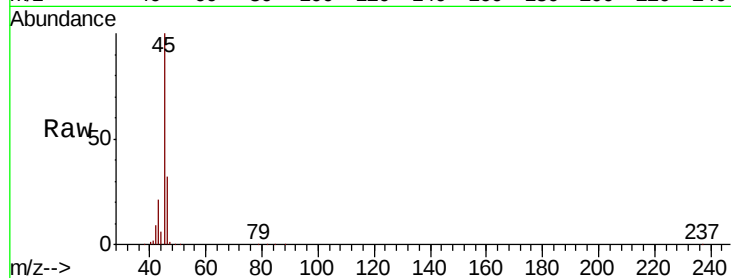
#13
Ethanol
Concen: 29.490 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.00 min
Lab File: VL037076.D
Acq: 1 Jun 2021 18:58

Instrument :
MSVOA_L
ClientSampleId :
HSG4

Tot Ion	45	Resp	421943
Ion Ratio	100	Lower	Upper
45	100		
46	37.6	16.3	65.3

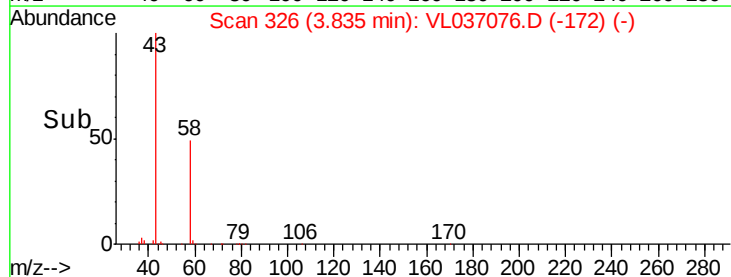
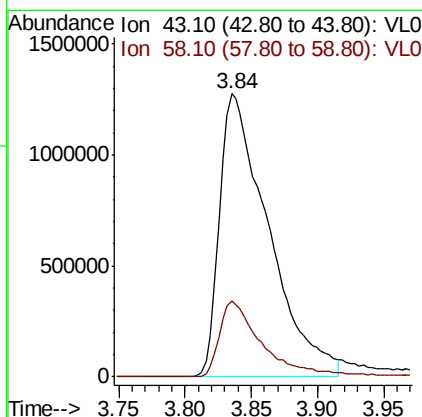
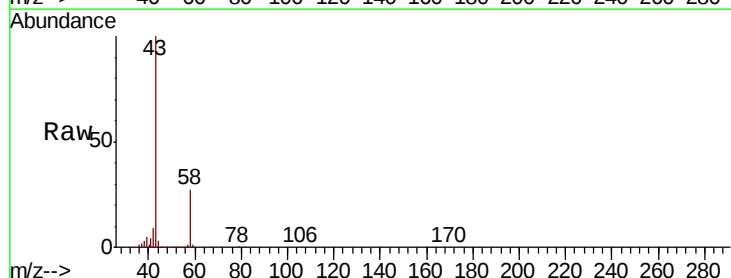
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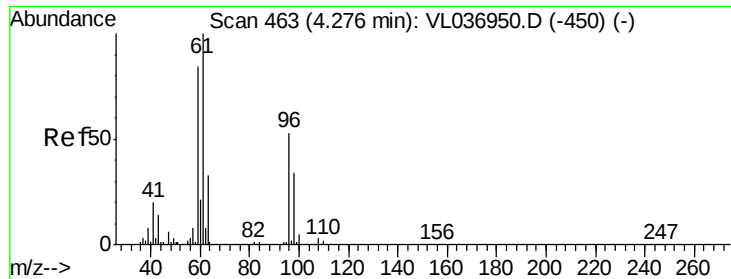
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#15
Acetone
Concen: 19.507 ppbv
RT: 3.84 min Scan# 326
Delta R.T. -0.00 min
Lab File: VL037076.D
Acq: 1 Jun 2021 18:58

Tgt Ion	43	Resp	3266167
Ion Ratio	100	Lower	Upper
43	100		
58	24.7	24.0	36.0





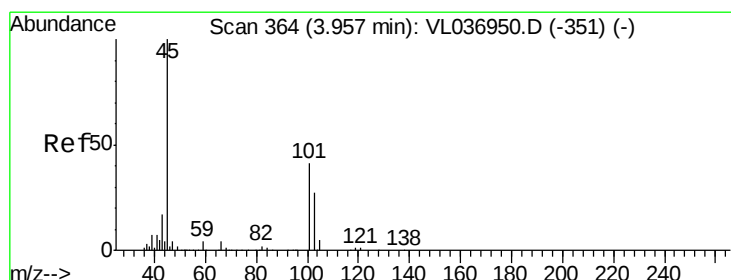
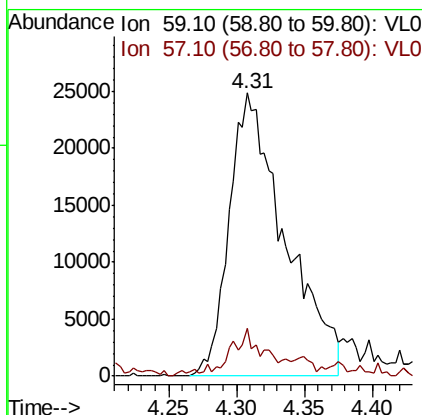
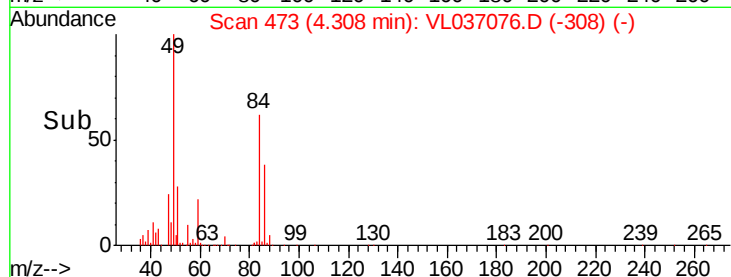
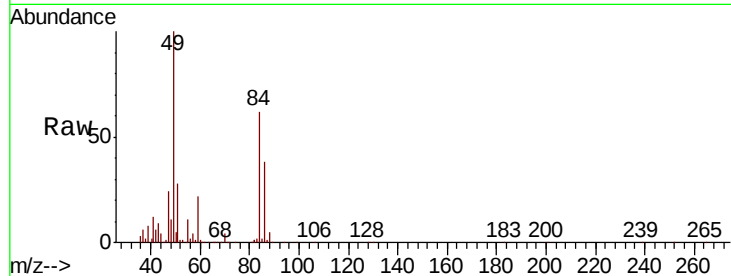
#17
tert-Butyl alcohol
Concen: 0.461 ppbv m
RT: 4.31 min Scan# 473
Delta R.T. 0.03 min
Lab File: VL037076.D
Acq: 1 Jun 2021 18:58

Instrument :
MSVOA_L
ClientSampled :
HSG4

Tot Ion: 59 Resp: 70726
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

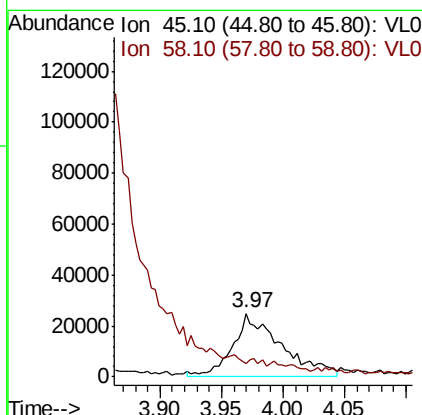
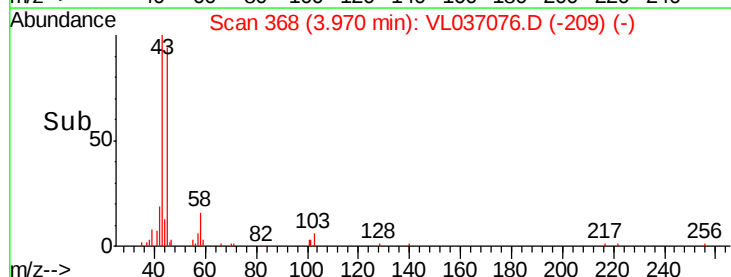
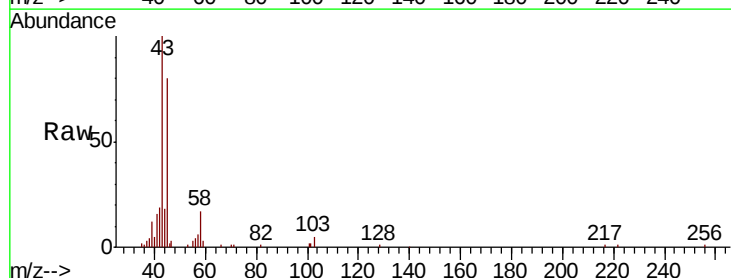
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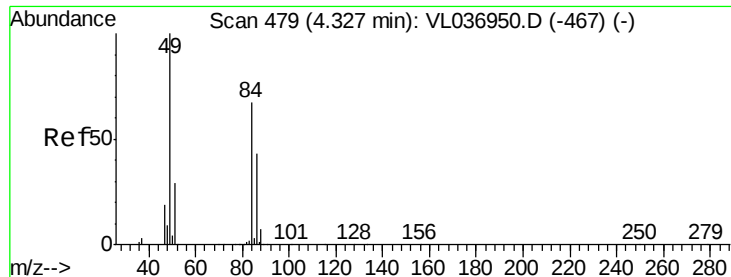
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#19
Isopropyl Alcohol
Concen: 0.762 ppbv m
RT: 3.97 min Scan# 368
Delta R.T. 0.01 min
Lab File: VL037076.D
Acq: 1 Jun 2021 18:58

Tgt Ion: 45 Resp: 68615
Ion Ratio Lower Upper
45 100
58 0.0 37.2 55.8#





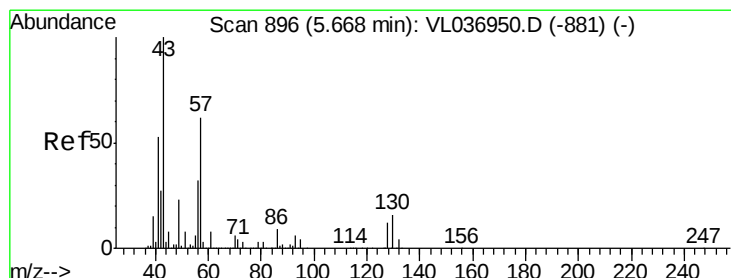
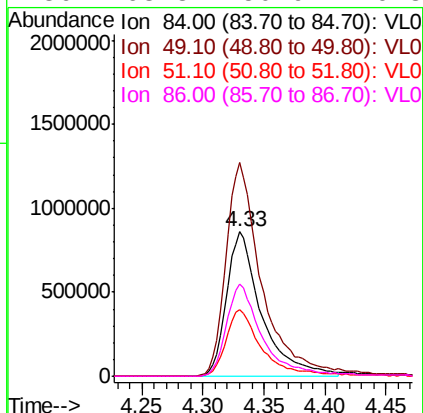
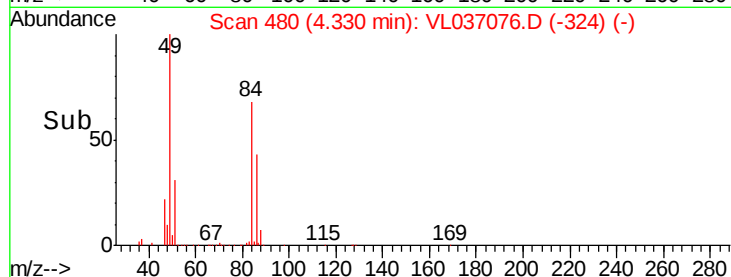
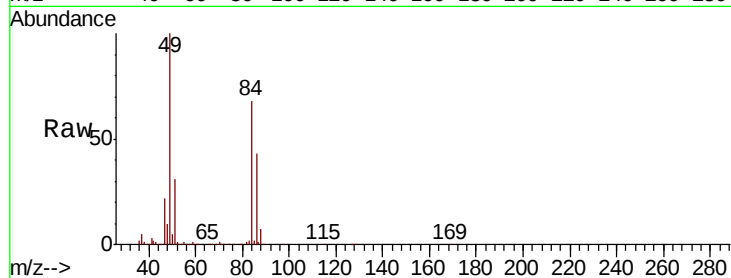
#20
Methvlene Chloride
Concen: 19.238 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL037076.D
Acq: 1 Jun 2021 18:58

Instrument :
MSVOA_L
ClientSampleId :
HSG4

Tot Ion	Ratio	Lower	Upper
84	100		
49	147.9	119.8	179.6
51	45.8	35.1	52.7
86	63.8	50.9	76.3

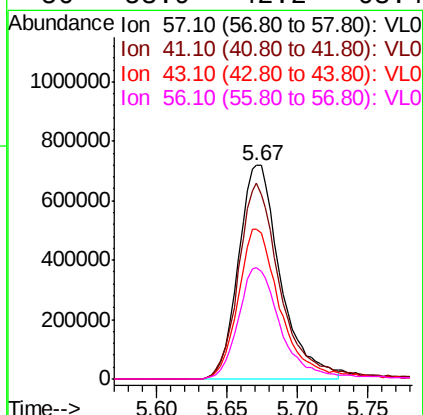
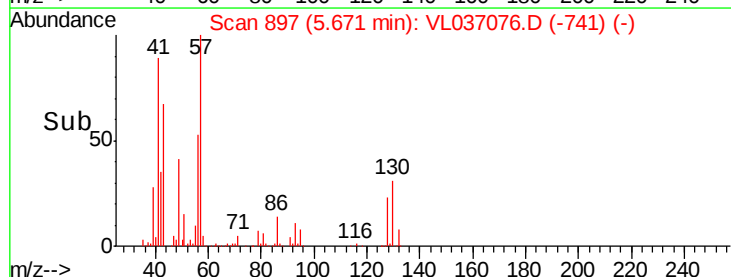
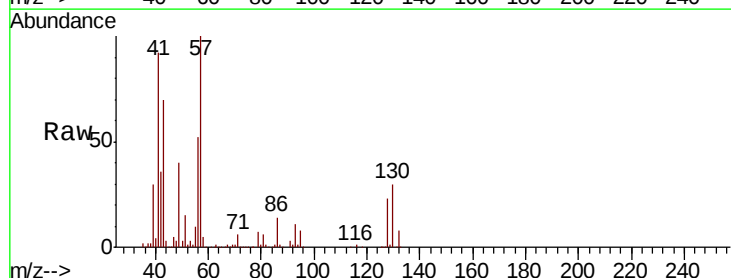
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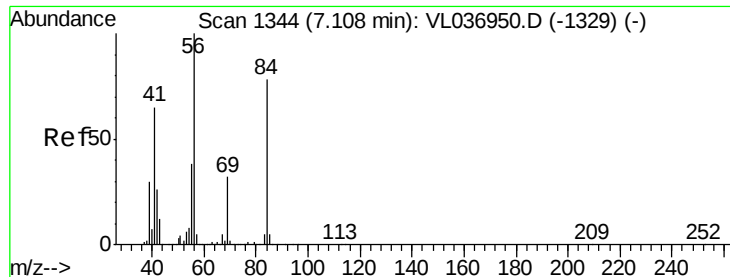
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#26
Hexane
Concen: 7.281 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL037076.D
Acq: 1 Jun 2021 18:58

Tgt Ion	Ratio	Lower	Upper
57	100		
41	92.3	70.5	105.7
43	72.1	165.8	248.8#
56	53.9	42.2	63.4





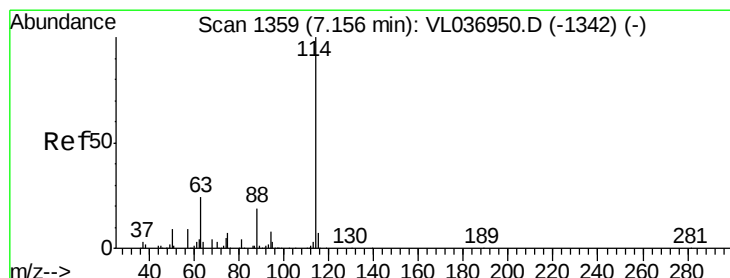
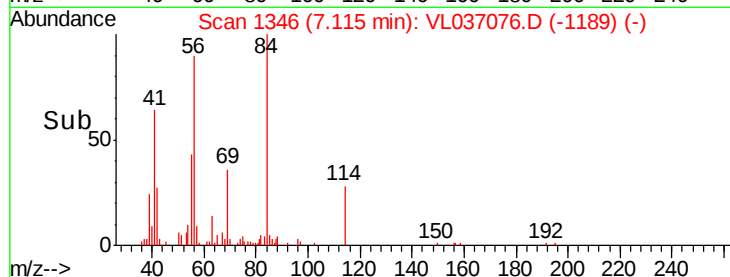
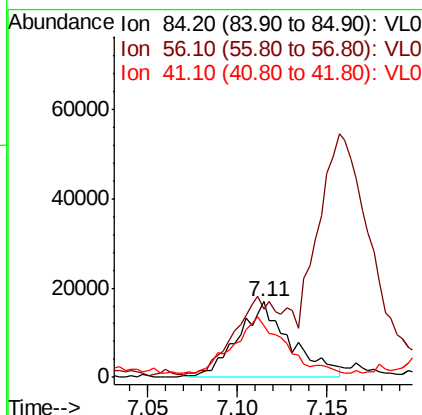
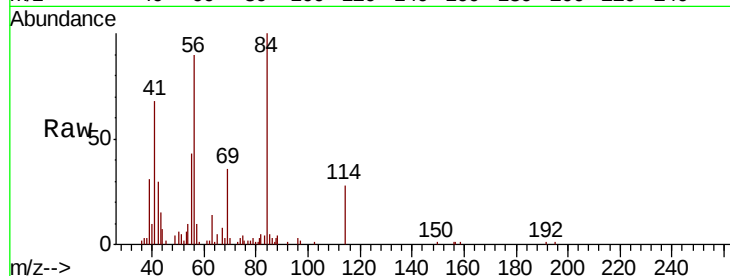
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Cyclohexane
Concen: 0.197 ppbv m
RT: 7.11 min Scan# 1346
Delta R.T. 0.01 min
Lab File: VL037076.D
Acq: 1 Jun 2021 18:58

Instrument :
MSVOA_L
ClientSampled :
HSG4

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	107.9	161.9#
41	72.6	65.5	98.3

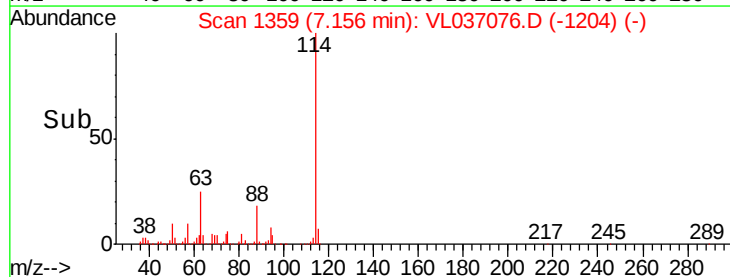
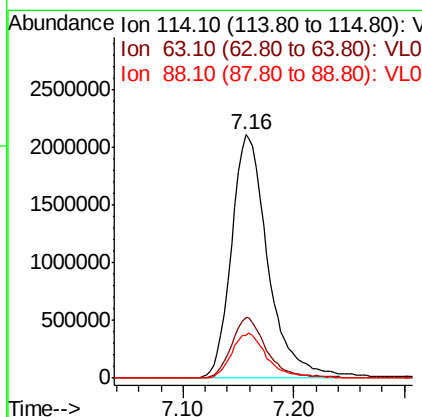
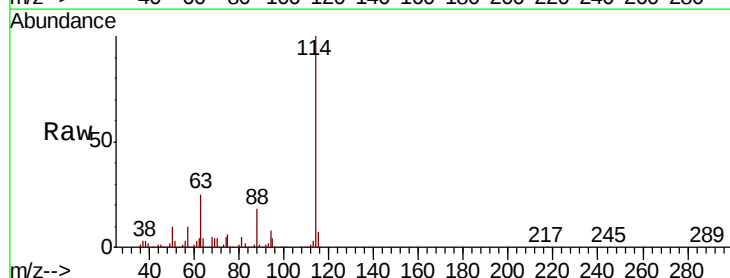
Manual Integrations
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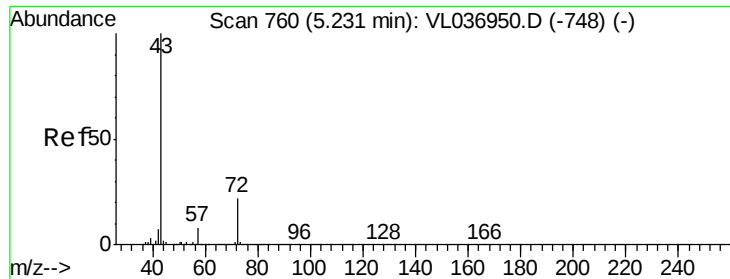
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL037076.D
Acq: 1 Jun 2021 18:58

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.6	19.6	29.4
88	18.3	14.6	21.8





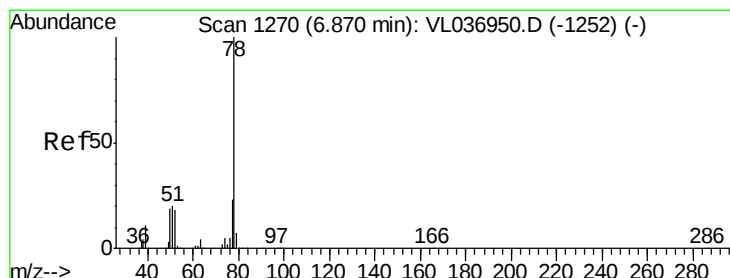
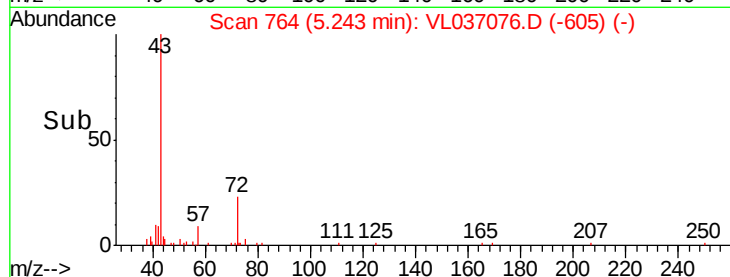
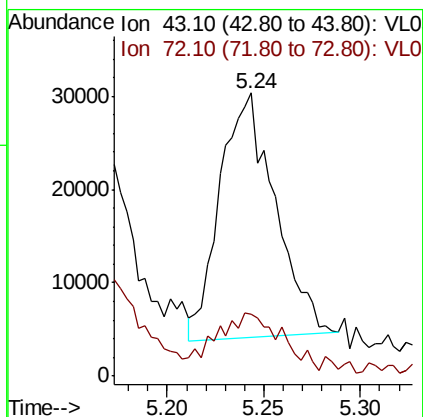
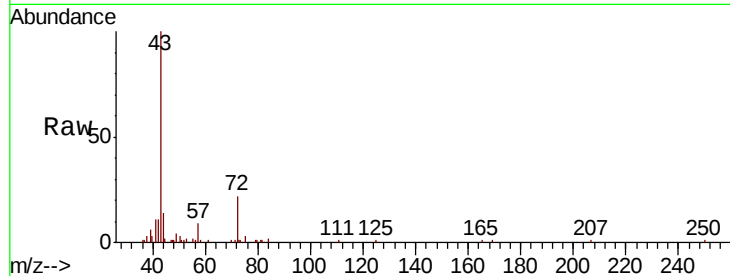
#34
2-Butanone
Concen: 0.296 ppbv
RT: 5.24 min Scan# 764
Delta R.T. 0.01 min
Lab File: VL037076.D
Acq: 1 Jun 2021 18:58

Instrument :
MSVOA_L
ClientSampled :
HSG4

Tot Ion: 43 Resp: 51848
Ion Ratio Lower Upper
43 100
72 34.8 19.0 28.4#

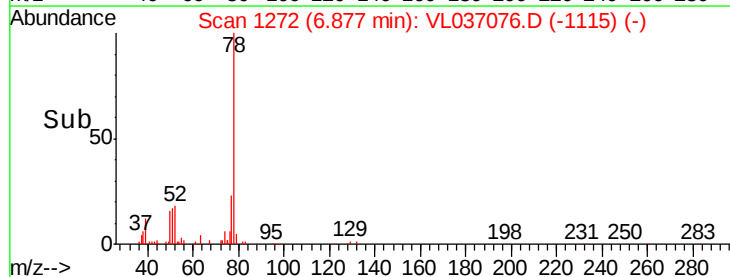
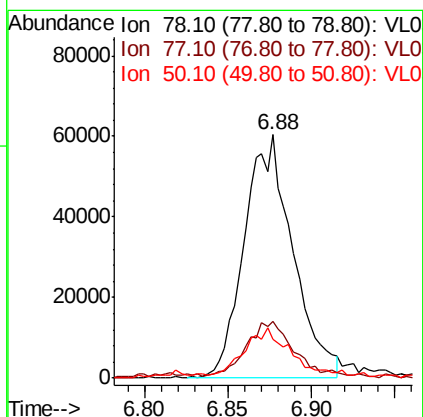
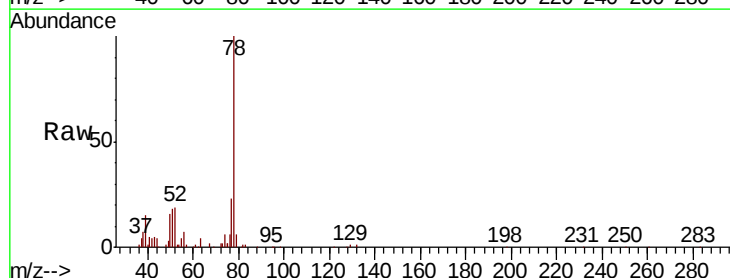
Manual Integrations
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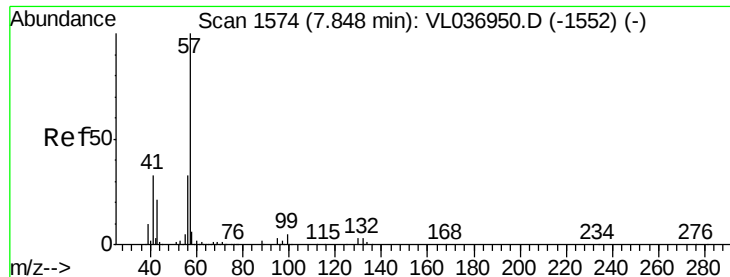
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#36
Benzene
Concen: 0.295 ppbv m
RT: 6.88 min Scan# 1272
Delta R.T. 0.01 min
Lab File: VL037076.D
Acq: 1 Jun 2021 18:58

Tgt Ion: 78 Resp: 122261
Ion Ratio Lower Upper
78 100
77 23.3 18.6 28.0
50 16.0 15.0 22.4





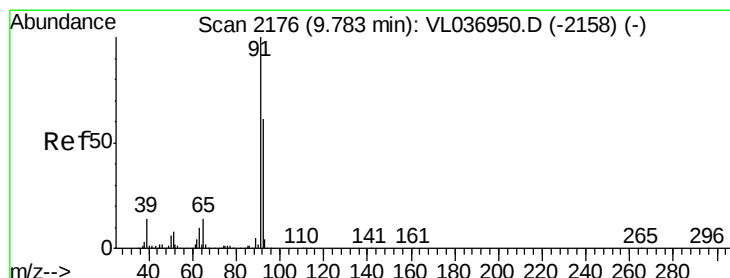
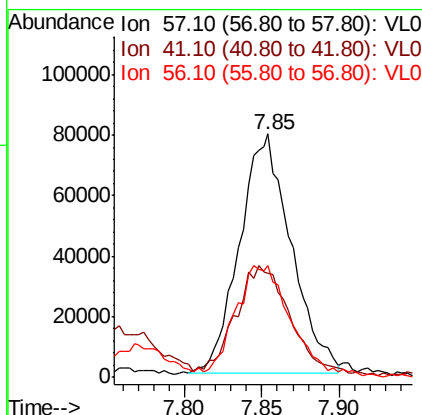
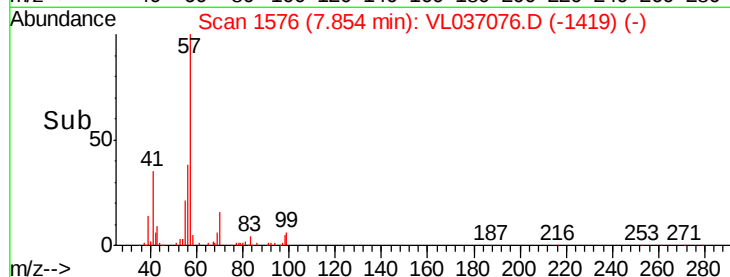
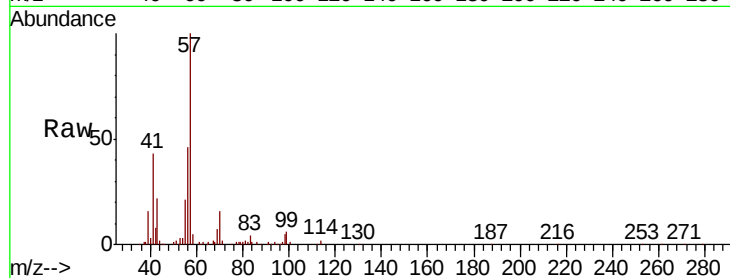
#44
 2,2,4-Trimethylpentane
 Concen: 0.257 ppbv
 RT: 7.85 min Scan# 1576
 Delta R.T. 0.01 min
 Lab File: VL037076.D
 Acq: 1 Jun 2021 18:58

Instrument :
 MSVOA_L
 ClientSampled :
 HSG4

Tot Ion	Ratio	Lower	Upper
57	100		
41	48.6	27.0	40.4#
56	49.4	25.4	38.2#

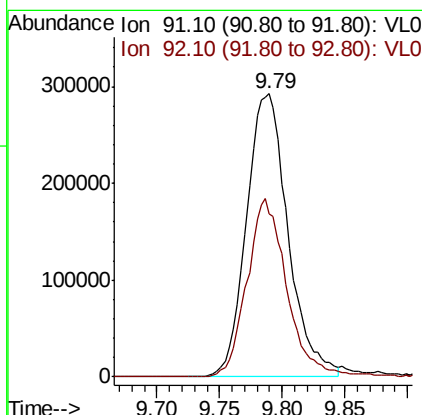
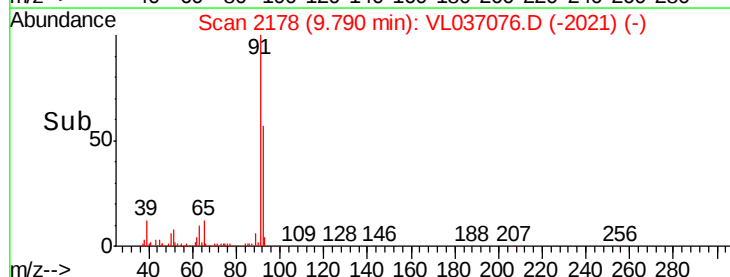
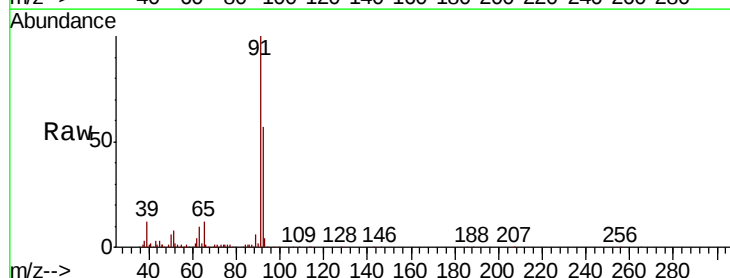
Manual Integrations
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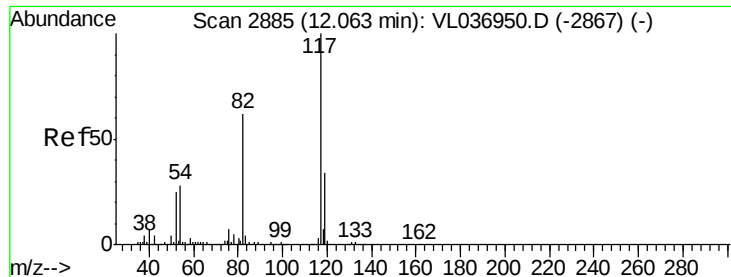
MMDadoda
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#53
 Toluene
 Concen: 1.371 ppbv
 RT: 9.79 min Scan# 2178
 Delta R.T. 0.01 min
 Lab File: VL037076.D
 Acq: 1 Jun 2021 18:58

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.3	49.5	74.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. 0.00 min

Lab File: VL037076.D

Acq: 1 Jun 2021 18:58

Instrument :

MSVOA_L

ClientSampleId :

HSG4

Tot Ion:117 Resp: 4452189

Ion Ratio Lower Upper

117 100

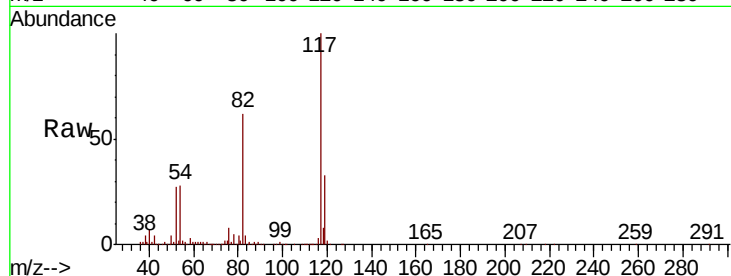
82 63.5 52.6 79.0

119 33.4 46.6 70.0#

Manual Integrations
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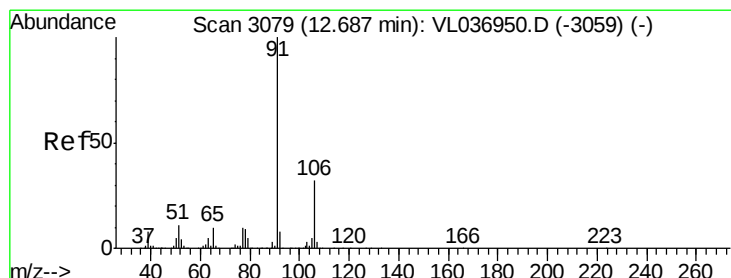
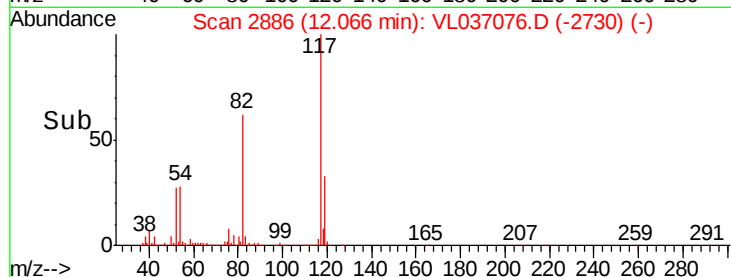
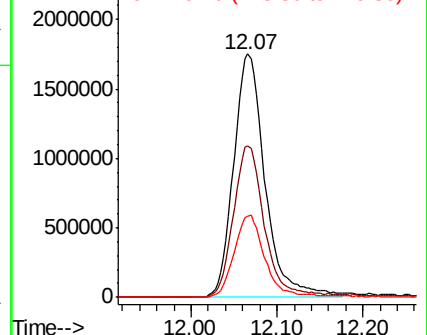
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.211 ppbv

RT: 12.69 min Scan# 3081

Delta R.T. 0.01 min

Lab File: VL037076.D

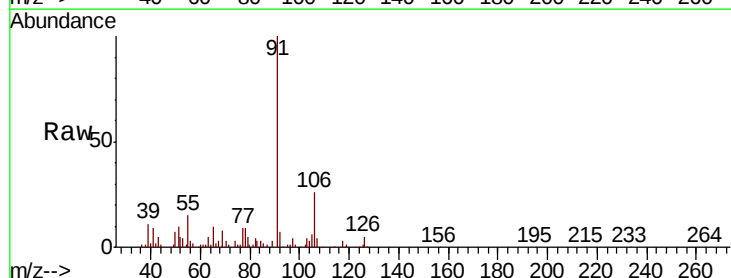
Acq: 1 Jun 2021 18:58

Tgt Ion: 91 Resp: 132764

Ion Ratio Lower Upper

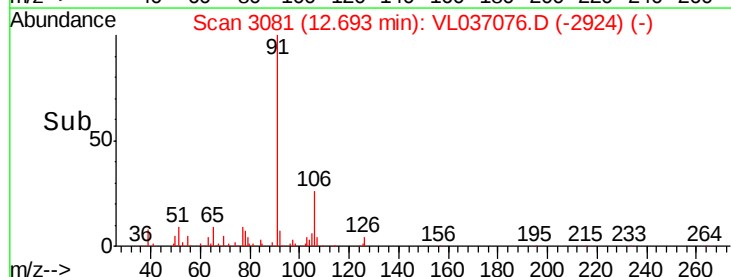
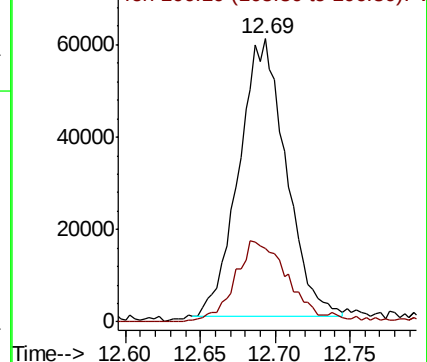
91 100

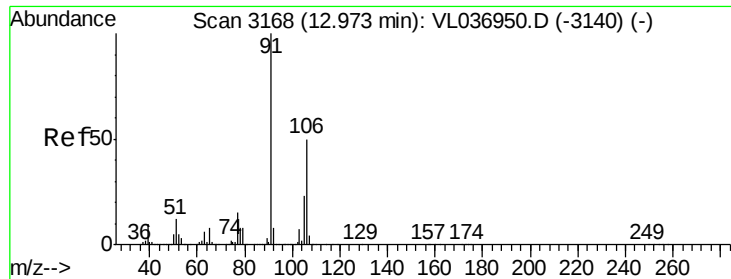
106 25.8 25.6 38.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





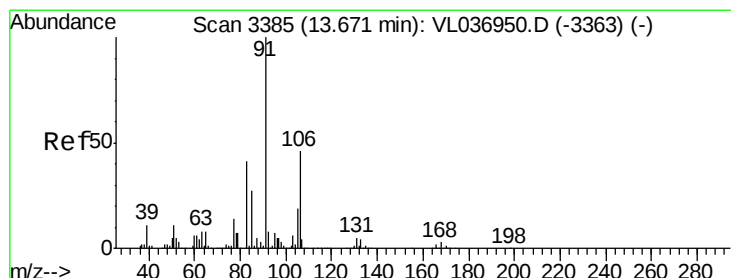
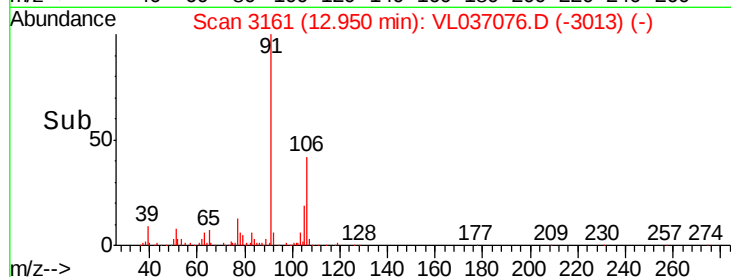
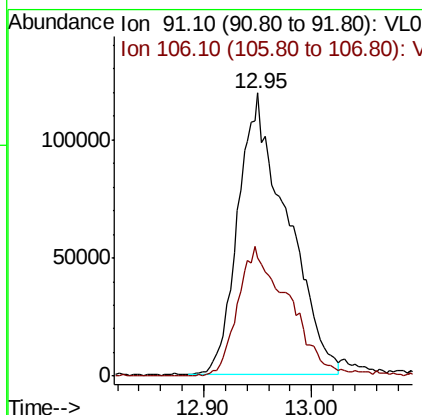
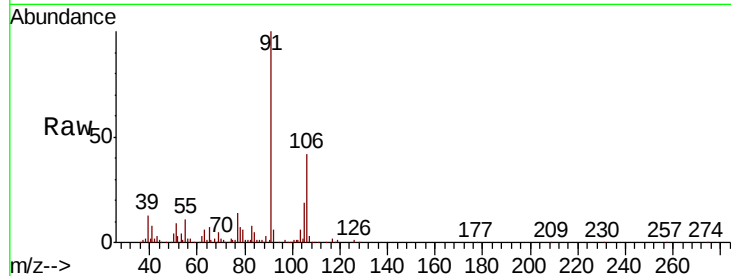
#59
m/p-Xylene
Concen: 0.727 ppbv
RT: 12.95 min Scan# 3161
Delta R.T. -0.02 min
Lab File: VL037076.D
Acq: 1 Jun 2021 18:58

Instrument :
MSVOA_L
ClientSampled :
HSG4

Tot Ion: 91 Resp: 377868
Ion Ratio Lower Upper
91 100
106 48.8 37.4 56.2

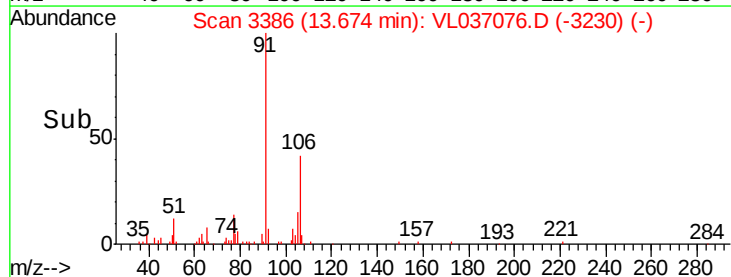
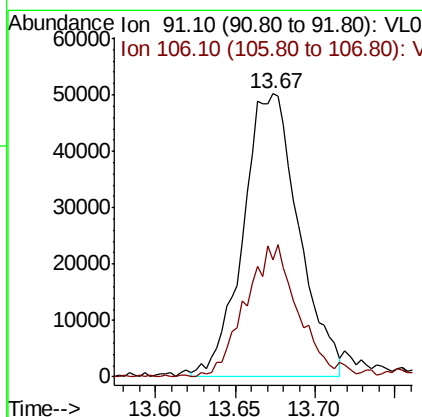
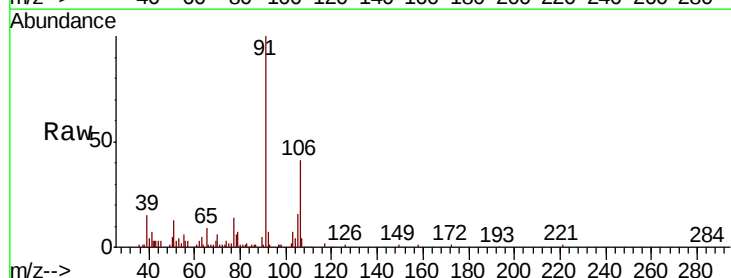
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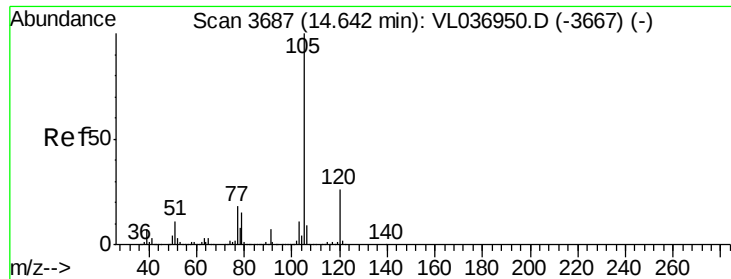
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#60
o-Xylene
Concen: 0.247 ppbv m
RT: 13.67 min Scan# 3386
Delta R.T. 0.00 min
Lab File: VL037076.D
Acq: 1 Jun 2021 18:58

Tgt Ion: 91 Resp: 122132
Ion Ratio Lower Upper
91 100
106 45.1 23.4 70.3





#62

Isopropylbenzene

Concen: 0.166 ppbv m

RT: 14.65 min Scan# 3689

Delta R.T. 0.01 min

Lab File: VL037076.D

Acq: 1 Jun 2021 18:58

Instrument :

MSVOA_L

ClientSampled :

HSG4

Tot Ion:105 Resp: 117973

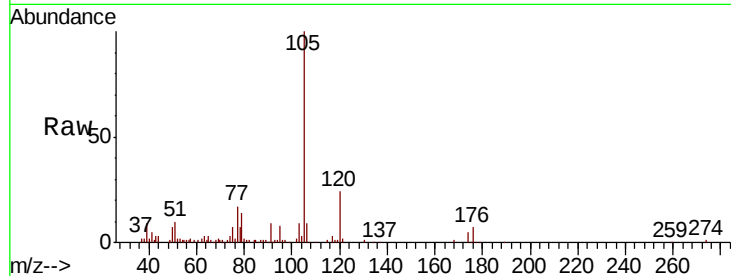
Ion Ratio Lower Upper

105 100

120 28.6 21.7 32.5

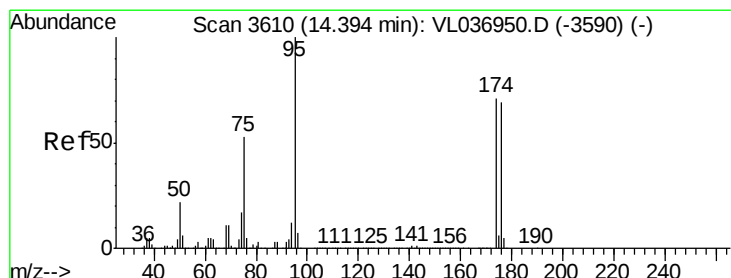
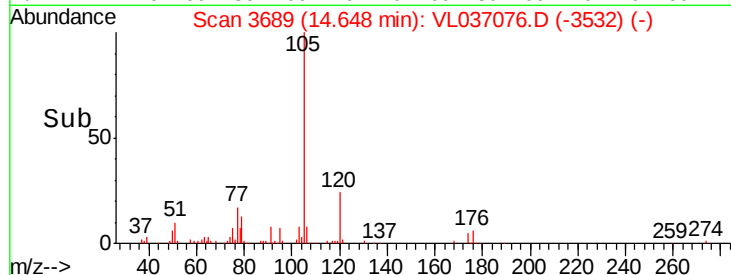
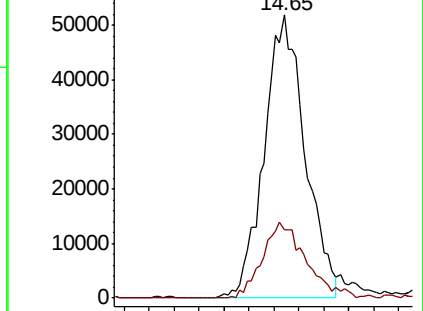
Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.639 ppbv

RT: 14.40 min Scan# 3611

Delta R.T. 0.00 min

Lab File: VL037076.D

Acq: 1 Jun 2021 18:58

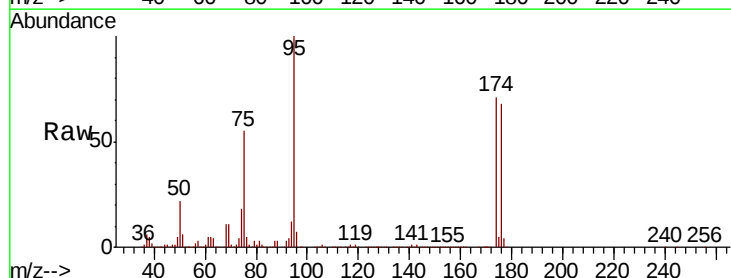
Tgt Ion: 95 Resp: 3223803

Ion Ratio Lower Upper

95 100

174 77.3 58.4 87.6

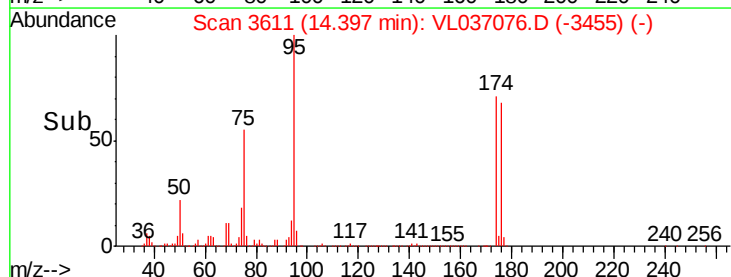
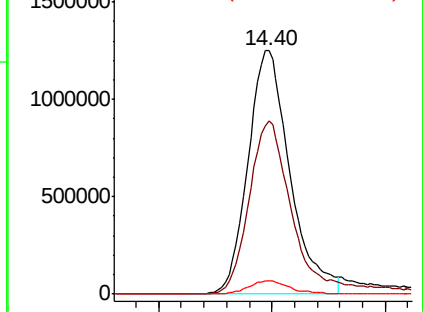
175 5.6 4.4 6.6

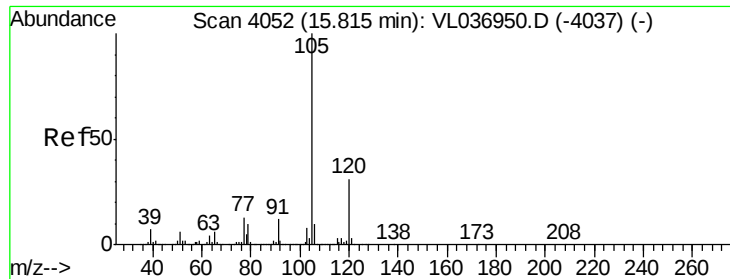


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#72

4-Ethyltoluene

Concen: 0.101 ppbv m

RT: 15.82 min Scan# 4053

Delta R.T. 0.00 min

Lab File: VL037076.D

Acq: 1 Jun 2021 18:58

Instrument :

MSVOA_L

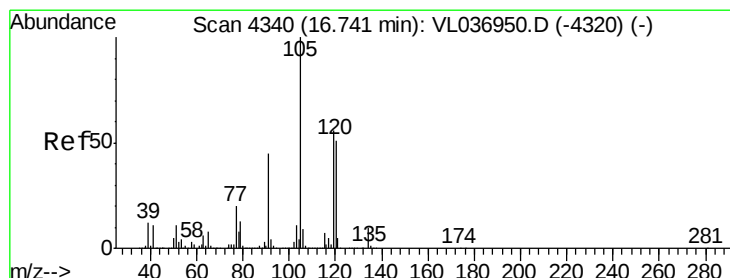
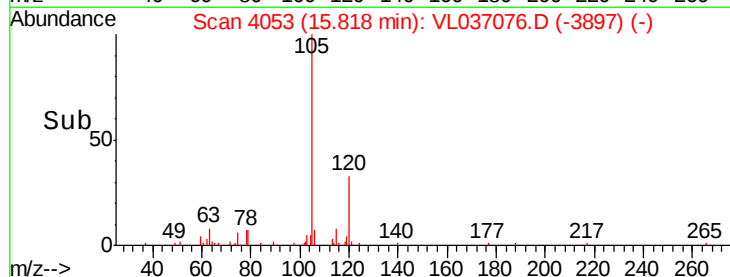
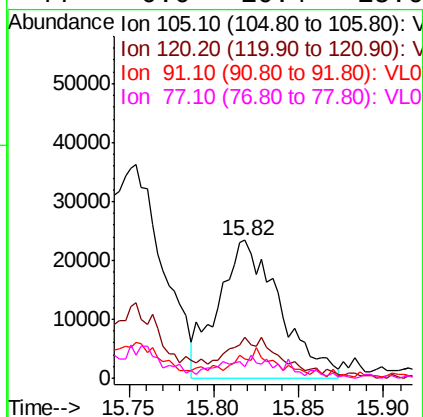
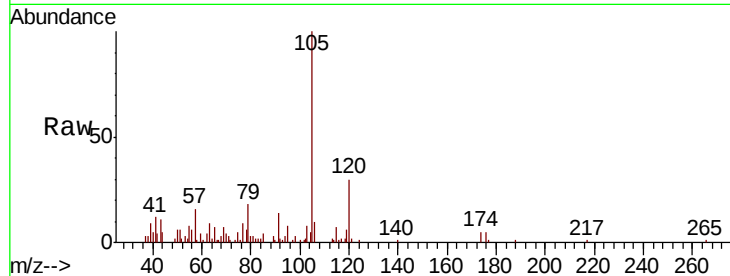
ClientSampled :

HSG4

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.5	24.6	37.0
91	0.0	9.8	14.6#
77	0.0	10.4	15.6#

Manual Integrations
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#74

1,2,4-Trimethylbenzene

Concen: 0.248 ppbv

RT: 16.74 min Scan# 4341

Delta R.T. 0.00 min

Lab File: VL037076.D

Acq: 1 Jun 2021 18:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	36.6	40.6	61.0#
91	13.3	37.4	56.0#
77	12.8	16.2	24.4#

