

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030620\
 Data File : VL034833.D
 Acq On : 7 Mar 2020 2:55
 Operator : SY/AP
 Sample : L1698-07DL2 600X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1-4DL2

Manual Integrations
 APPROVED

Quant Time: Mar 07 09:46:24 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar 07 09:46:24 2020
 QLast Update : Wed Mar 04 06:36:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	905138	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.18	114	2044610	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.11	117	2023213	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1600205	9.49	ppbv	-0.03	MMDadoda
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.90%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.22	62	126238	2.151	ppbv	94
9) Propene	2.97	41	23872	0.588	ppbv	94
26) Hexane	5.68	57	57407	0.702	ppbv #	41
30) Cyclohexane	7.13	84	26778m	0.428	ppbv	
31) cis-1,2-Dichloroethene	5.54	61	753032	8.973	ppbv	98
32) 1,1,1-Trichloroethane	6.50	97	36985m	0.272	ppbv	
36) Benzene	6.89	78	376199	2.153	ppbv	98
38) Trichloroethene	7.84	130	36304	0.533	ppbv	91
53) Toluene	9.82	91	509545	2.756	ppbv	99
58) Ethyl Benzene	12.73	91	105526m	0.423	ppbv	
59) m/p-Xylene	12.99	91	93805m	0.435	ppbv	
60) o-Xylene	13.72	91	45768m	0.210	ppbv	
61) Styrene	13.55	104	42942m	0.317	ppbv	

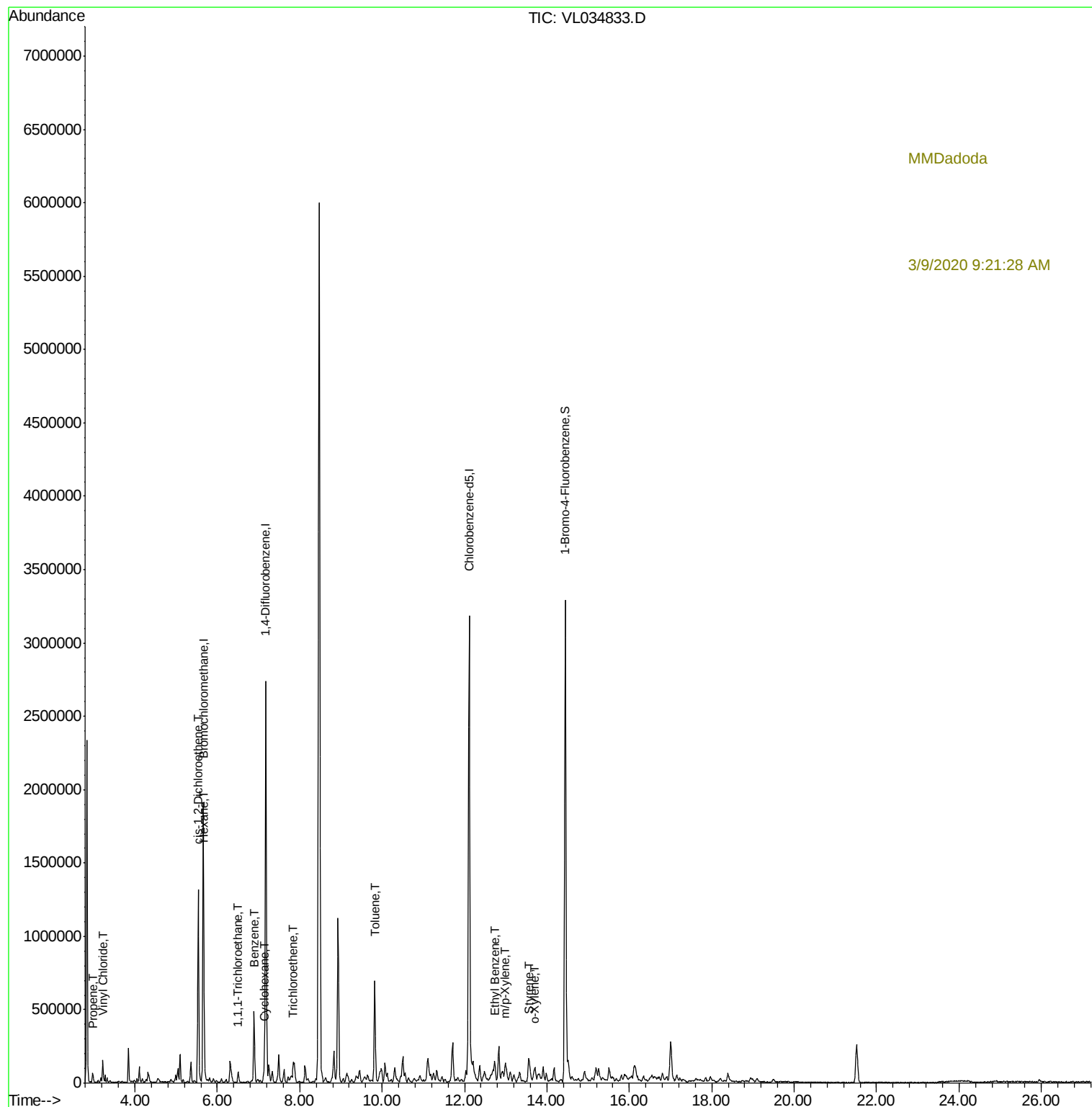
(#) = qualifier out of range (m) = manual integration (+) = signals summed

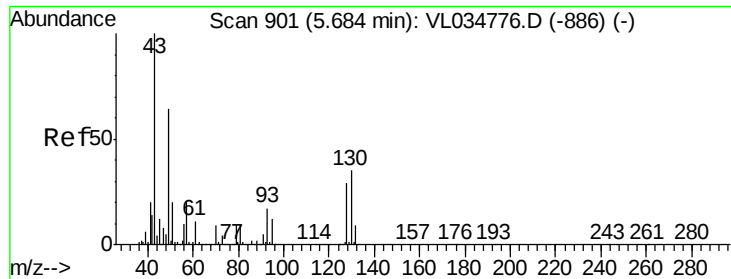
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL030620\
Data File : VL034833.D
Acq On : 7 Mar 2020 2:55
Operator : SY/AP
Sample : L1698-07DL2 600X
Misc : 400ml/MSVOA L
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SS-1-4DL2

Manual Integrations
APPROVED

Quant Time: Mar 07 09:46:24 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar
QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration





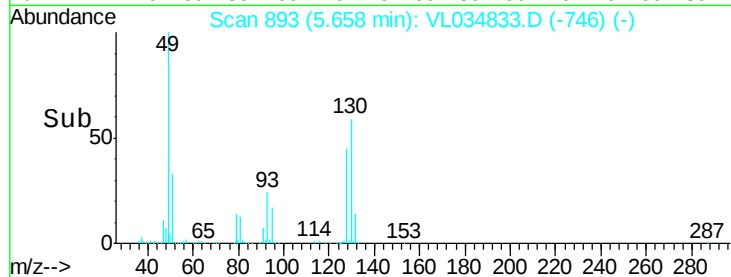
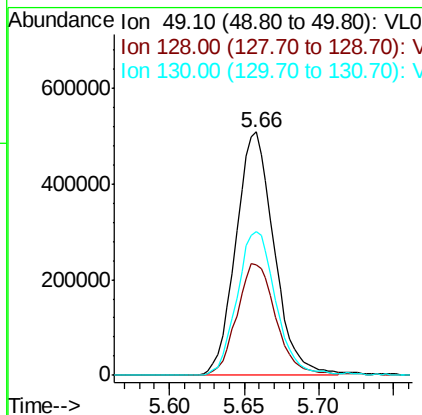
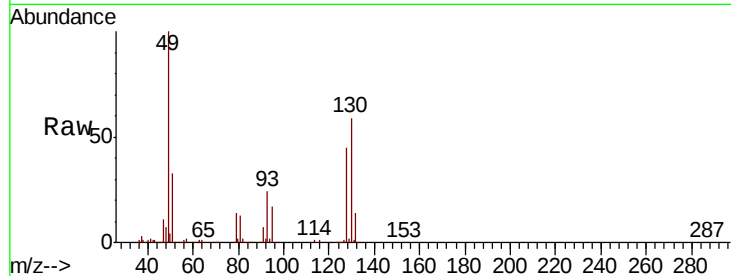
#1

Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 893
 Delta R.T. -0.03 min
 Lab File: VL034833.D
 Acq: 7 Mar 2020 2:55

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1-4DL2

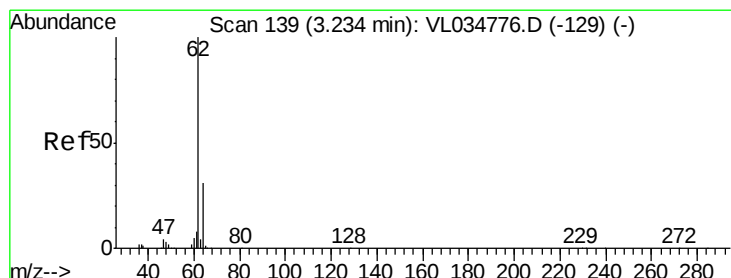
Tot Ion	Ratio	Lower	Upper
49	100		
128	47.6	21.6	64.6
130	60.6	27.4	82.2

Manual Integrations
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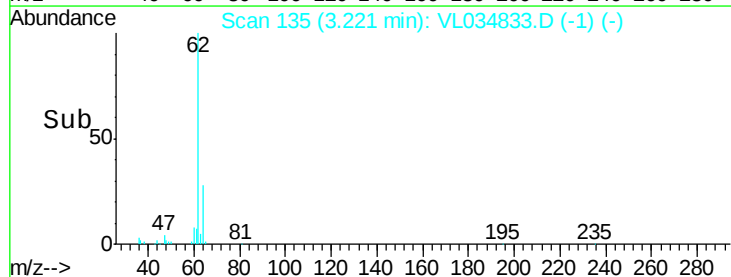
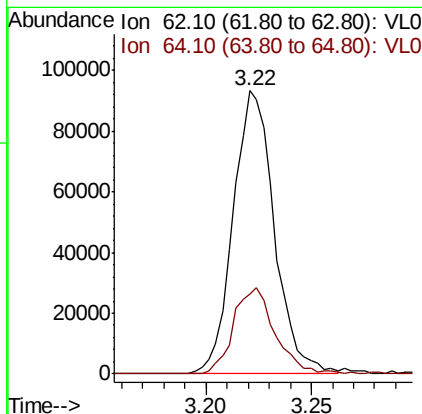
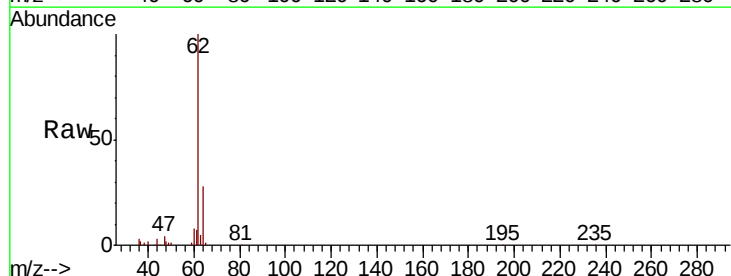
3/9/2020 9:21:28 AM

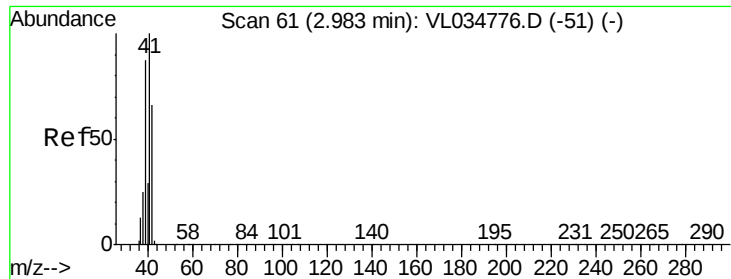


#5

Vinyl Chloride
 Concen: 2.151 ppbv
 RT: 3.22 min Scan# 135
 Delta R.T. -0.01 min
 Lab File: VL034833.D
 Acq: 7 Mar 2020 2:55

Tgt Ion	Ratio	Lower	Upper
62	100		
64	28.3	25.1	37.7





#9

Propene

Concen: 0.588 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.01 min

Lab File: VL034833.D

Acq: 7 Mar 2020 2:55

Instrument :

MSVOA_L

ClientSampled :

SS-1-4DL2

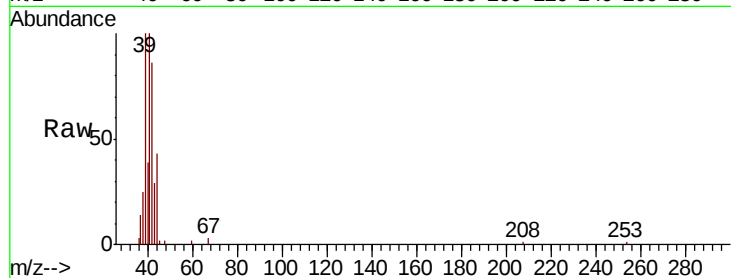
Tot Ion: 41 Resp: 23872

Ion Ratio Lower Upper

41 100

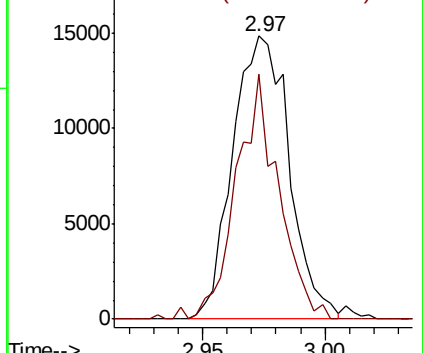
42 64.7 55.6 83.4

Manual Integrations
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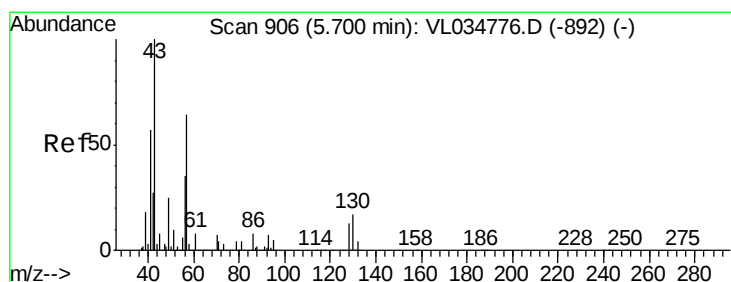
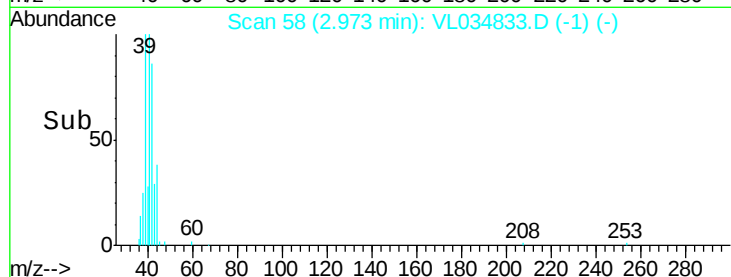
Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



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#26

Hexane

Concen: 0.702 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.02 min

Lab File: VL034833.D

Acq: 7 Mar 2020 2:55

Tgt Ion: 57 Resp: 57407

Ion Ratio Lower Upper

57 100

41 94.7 72.0 108.0

43 72.0 179.1 268.7#

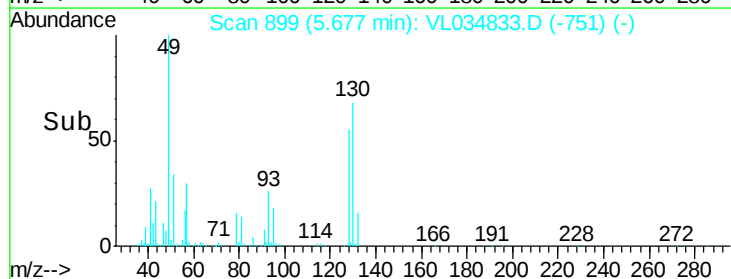
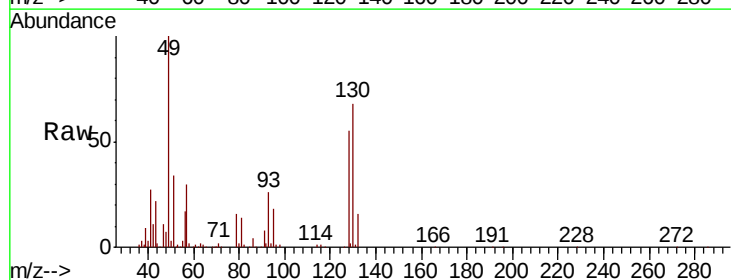
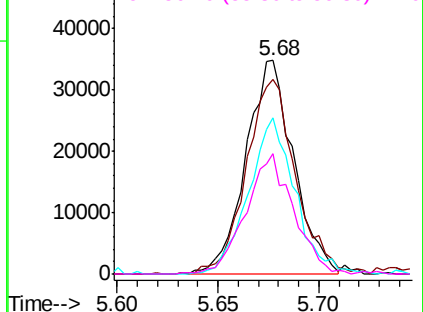
56 56.7 42.6 63.8

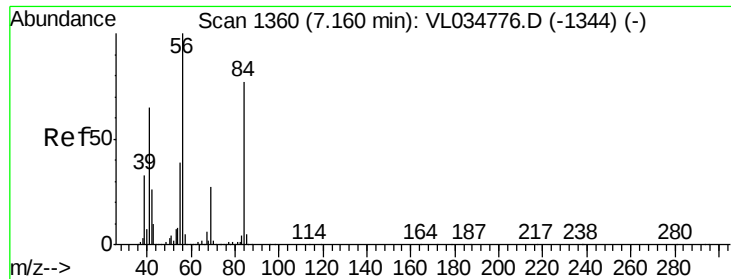
Abundance Ion 57.10 (56.80 to 57.80): VL0

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



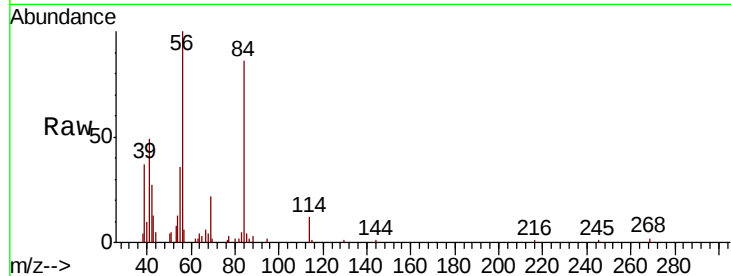


#30
Cyclohexane
Concen: 0.428 ppbv m
RT: 7.13 min Scan# 1352
Delta R.T. -0.03 min
Lab File: VL034833.D
Acq: 7 Mar 2020 2:55

Instrument :
MSVOA_L
ClientSampleId :
SS-1-4DL2

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	113.2	169.8#
41	0.0	70.2	105.4#

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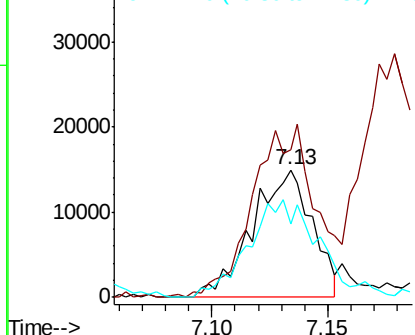


Abundance

Ion 84.20 (83.90 to 84.90): VL0

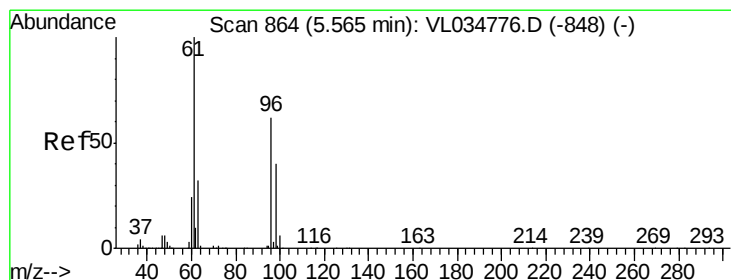
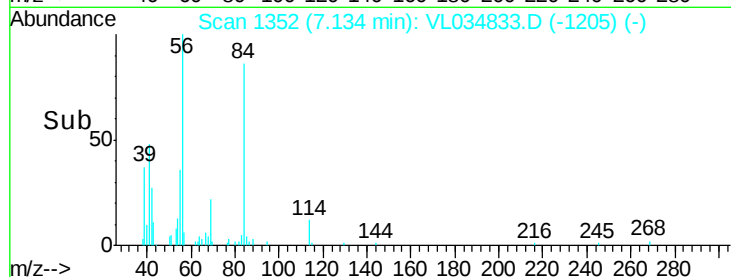
Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



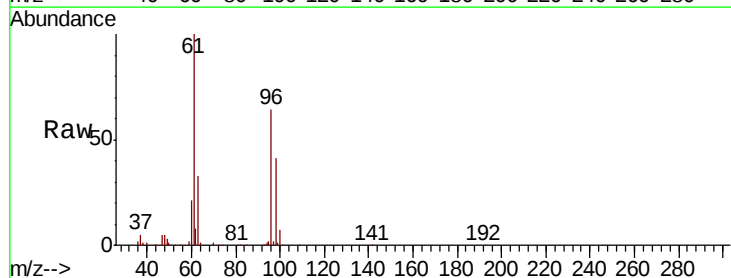
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#31
cis-1,2-Dichloroethene
Concen: 8.973 ppbv
RT: 5.54 min Scan# 856
Delta R.T. -0.03 min
Lab File: VL034833.D
Acq: 7 Mar 2020 2:55

Tgt Ion	Ratio	Lower	Upper
61	100		
96	63.7	49.7	74.5
98	41.2	31.9	47.9

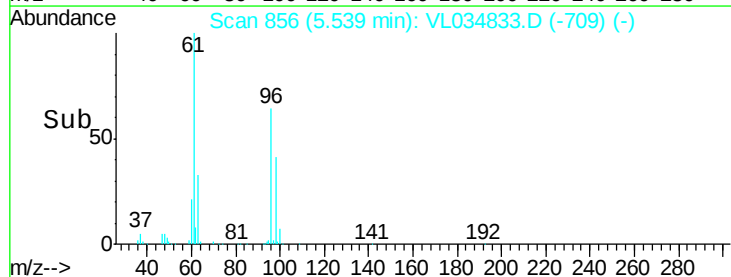
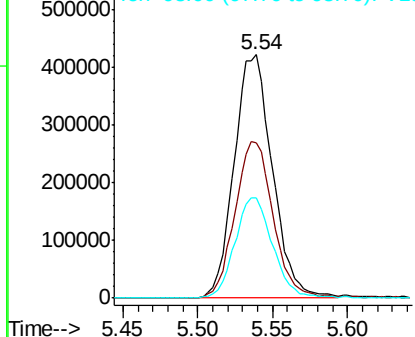


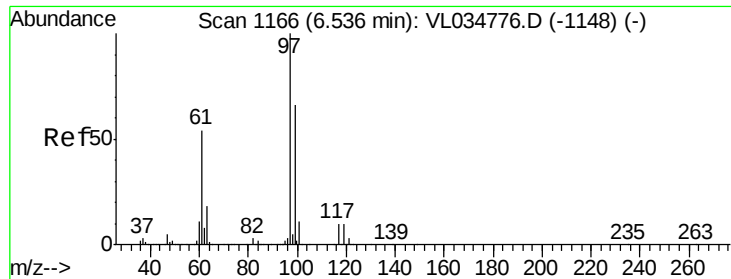
Abundance

Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



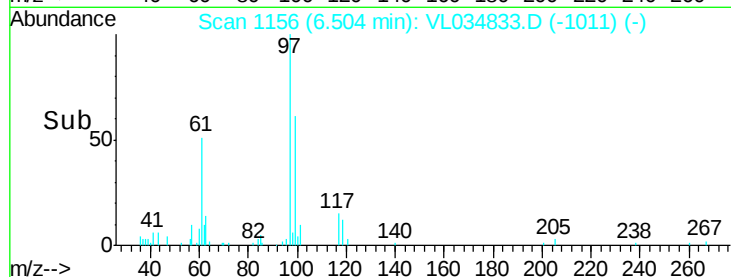
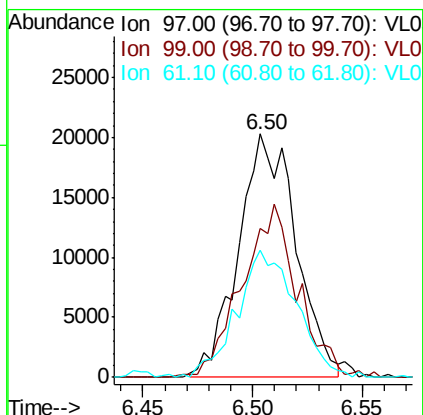
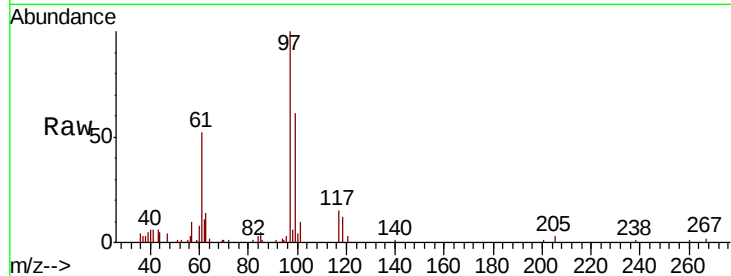


#32
 1,1,1-Trichloroethane
 Concen: 0.272 ppbv m
 RT: 6.50 min Scan# 1156
 Delta R.T. -0.03 min
 Lab File: VL034833.D
 Acq: 7 Mar 2020 2:55

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1-4DL2

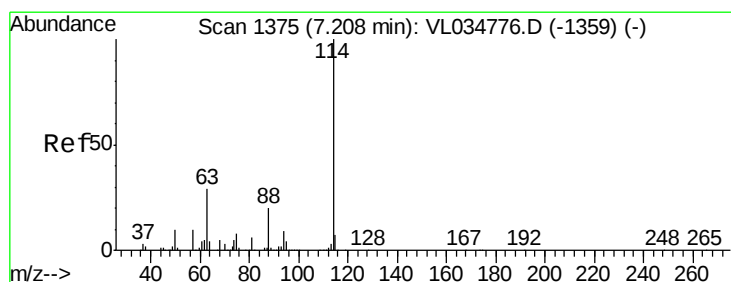
Tot Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.7	77.5#
61	55.3	43.4	65.0

Manual Integrations
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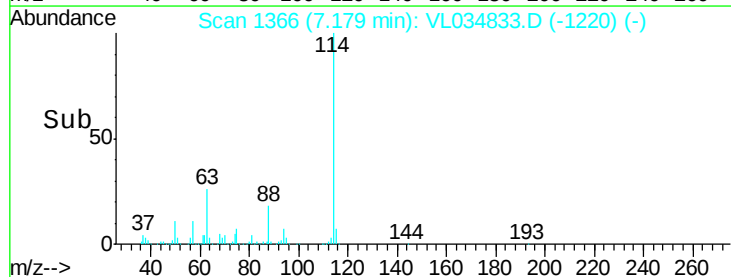
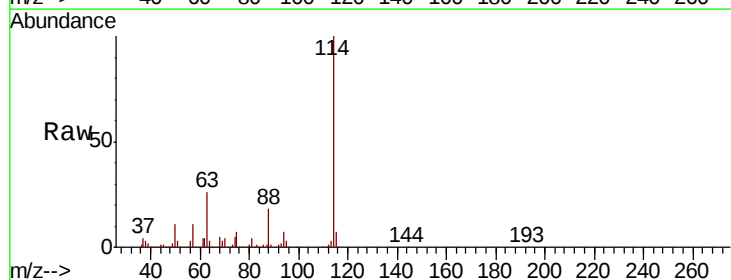
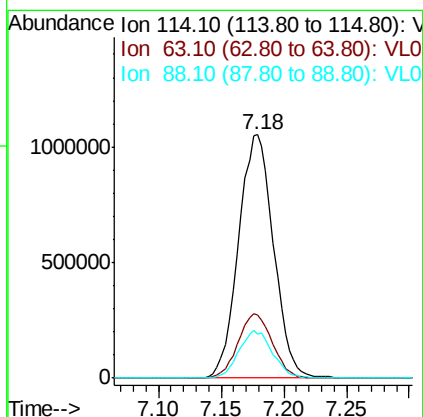
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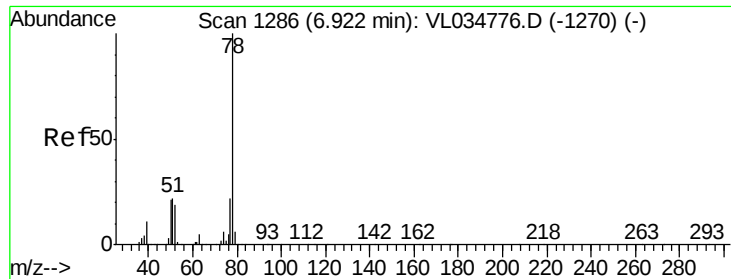
3/9/2020 9:21:28 AM



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.03 min
 Lab File: VL034833.D
 Acq: 7 Mar 2020 2:55

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.8	23.6	35.4
88	18.8	15.8	23.8



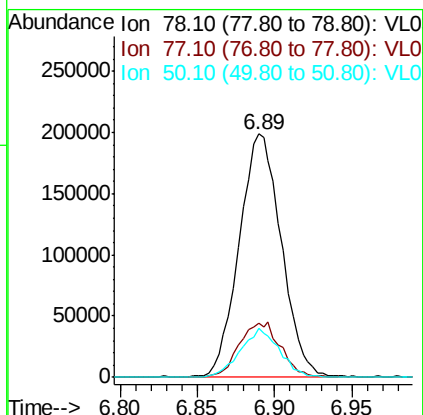
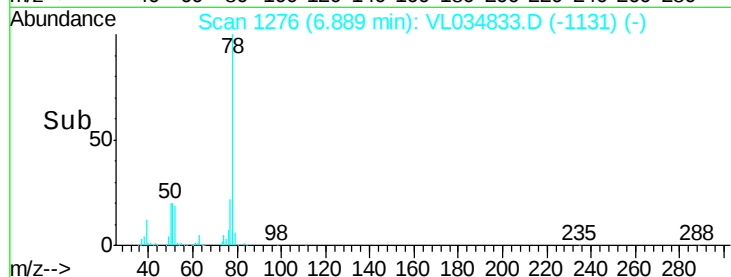
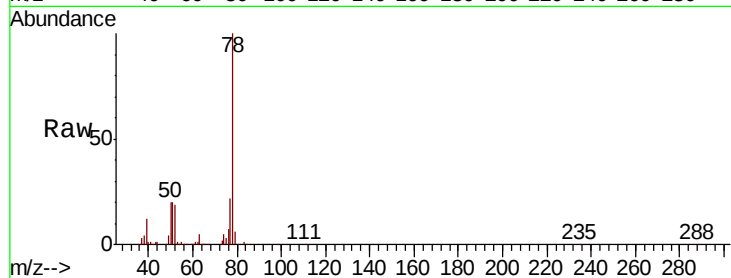


#36
Benzene
Concen: 2.153 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.03 min
Lab File: VL034833.D
Acq: 7 Mar 2020 2:55

Instrument :
MSVOA_L
ClientSampleId :
SS-1-4DL2

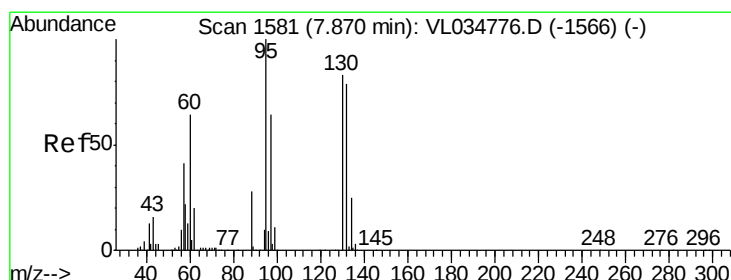
Tot Ion:	78	Resp:	376199
Ion	Ratio	Lower	Upper
78	100		
77	22.0	18.0	27.0
50	20.1	16.9	25.3

Manual Integrations
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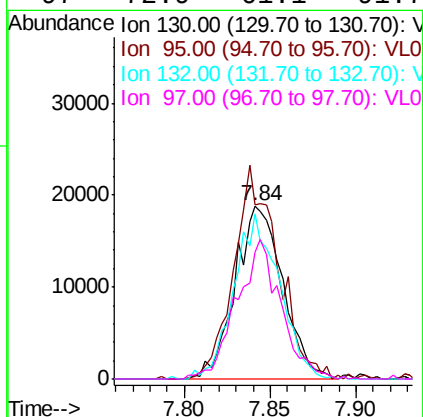
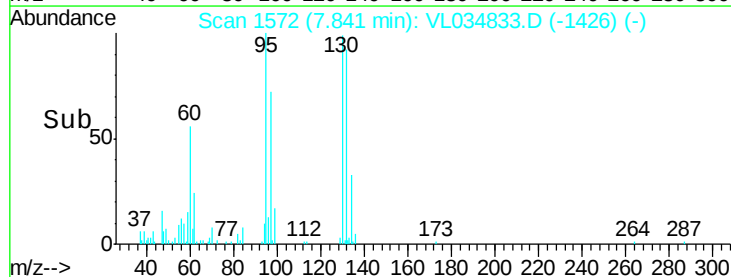
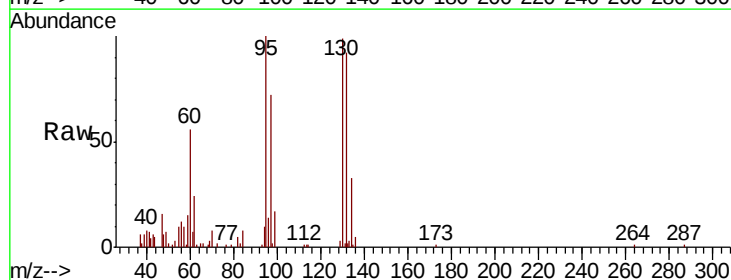
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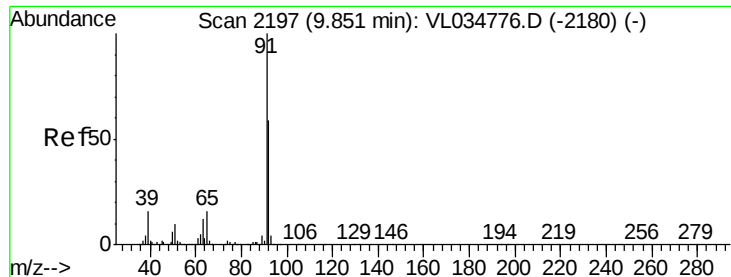
3/9/2020 9:21:28 AM



#38
Trichloroethene
Concen: 0.533 ppbv
RT: 7.84 min Scan# 1572
Delta R.T. -0.03 min
Lab File: VL034833.D
Acq: 7 Mar 2020 2:55

Tgt Ion:	130	Resp:	36304
Ion	Ratio	Lower	Upper
130	100		
95	99.8	95.8	143.8
132	95.7	76.1	114.1
97	72.9	61.1	91.7





#53

Toluene

Concen: 2.756 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. -0.03 min

Lab File: VL034833.D

Acq: 7 Mar 2020 2:55

Instrument :

MSVOA_L

ClientSampleId :

SS-1-4DL2

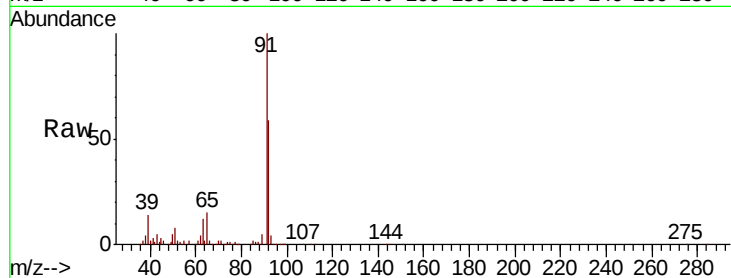
Tot Ion: 91 Resp: 509545

Ion Ratio Lower Upper

91 100

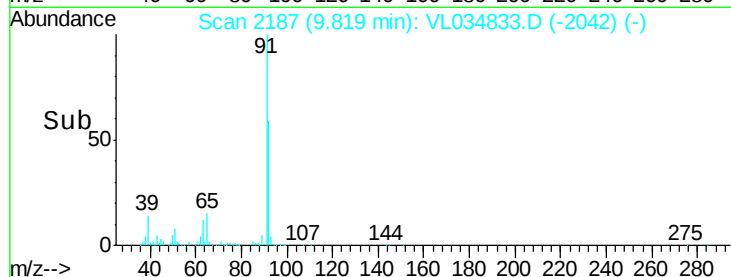
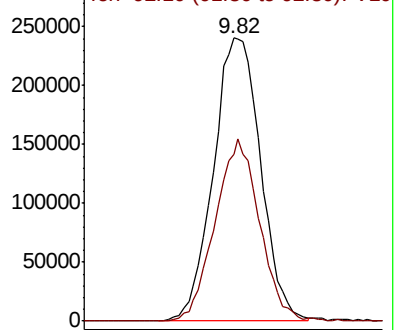
92 60.7 48.2 72.2

Manual Integrations
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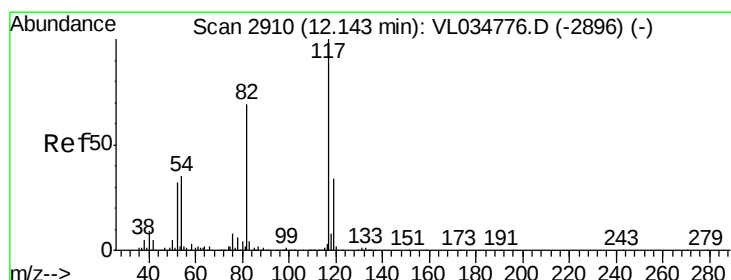
Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



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3/9/2020 9:21:28 AM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. -0.03 min

Lab File: VL034833.D

Acq: 7 Mar 2020 2:55

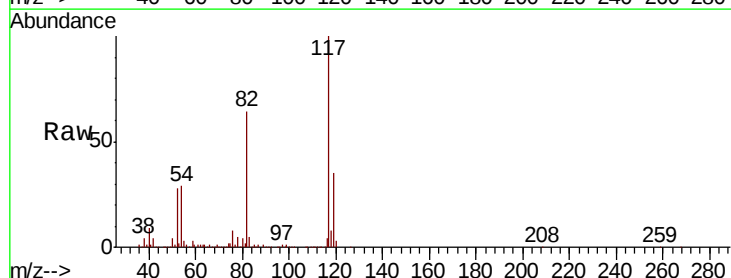
Tgt Ion: 117 Resp: 2023213

Ion Ratio Lower Upper

117 100

82 65.5 53.9 80.9

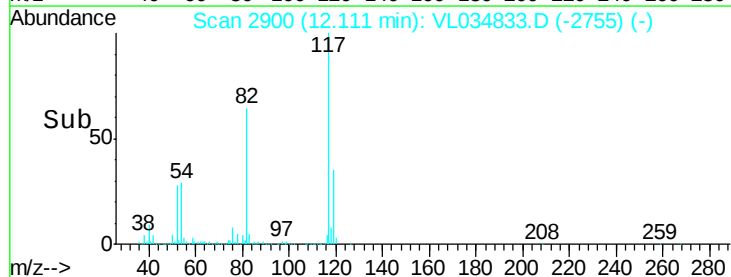
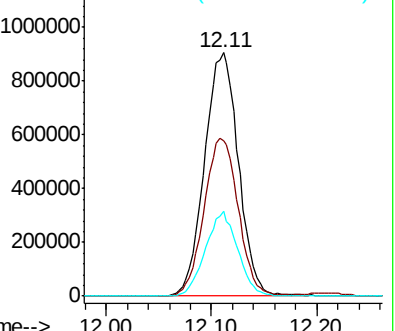
119 33.1 25.0 37.4

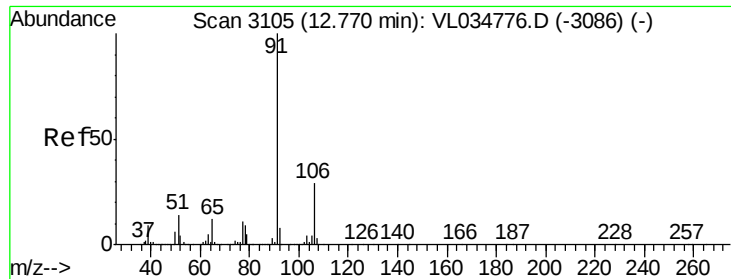


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



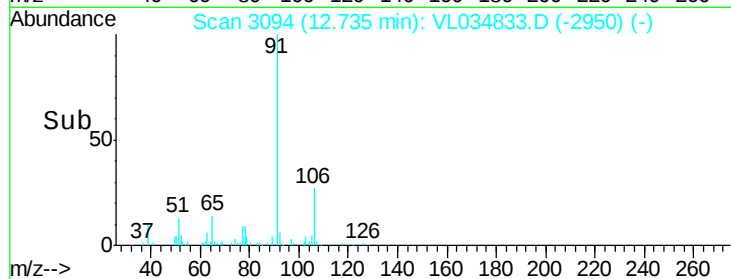
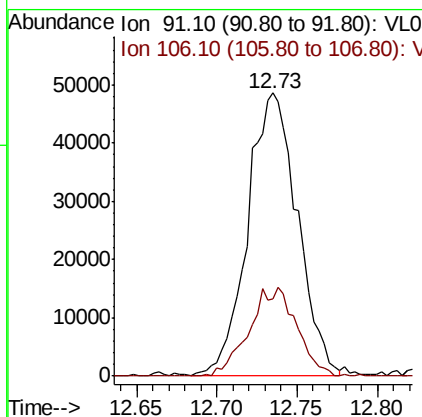
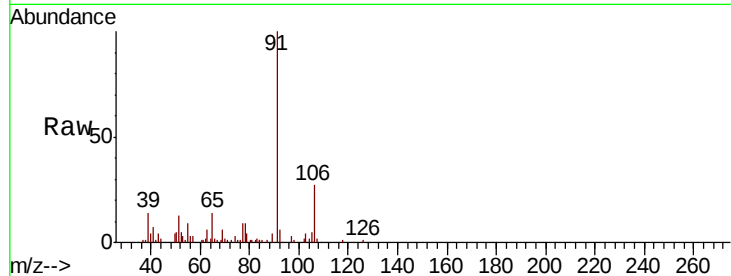


#58
Ethyl Benzene
Concen: 0.423 ppbv m
RT: 12.73 min Scan# 3094
Delta R.T. -0.04 min
Lab File: VL034833.D
Acq: 7 Mar 2020 2:55

Instrument :
MSVOA_L
ClientSampleId :
SS-1-4DL2

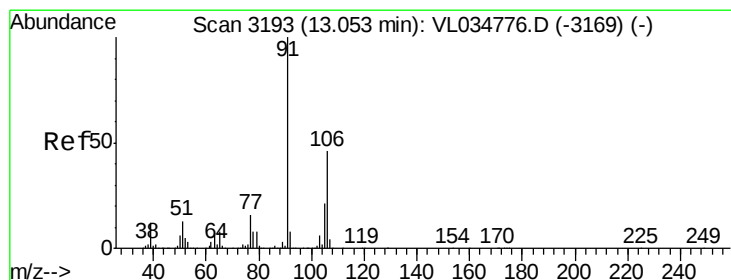
Tot Ion: 91 Resp: 105526
Ion Ratio Lower Upper
91 100
106 27.2 22.8 34.2

Manual Integrations
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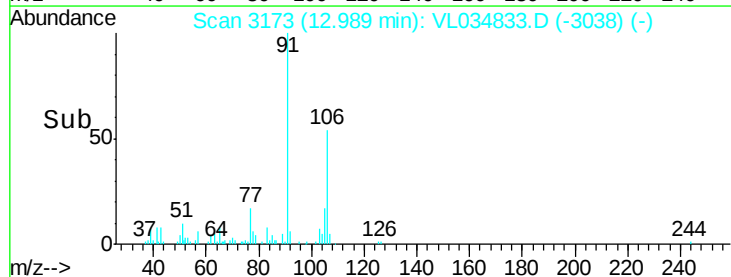
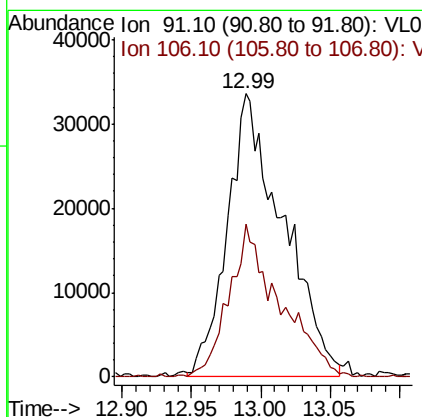
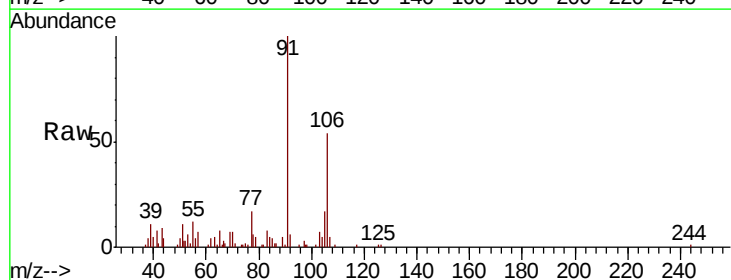
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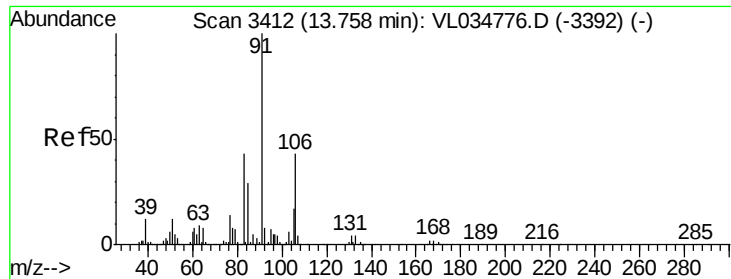
3/9/2020 9:21:28 AM



#59
m/p-Xylene
Concen: 0.435 ppbv m
RT: 12.99 min Scan# 3173
Delta R.T. -0.06 min
Lab File: VL034833.D
Acq: 7 Mar 2020 2:55

Tgt Ion: 91 Resp: 93805
Ion Ratio Lower Upper
91 100
106 0.0 35.8 53.8#



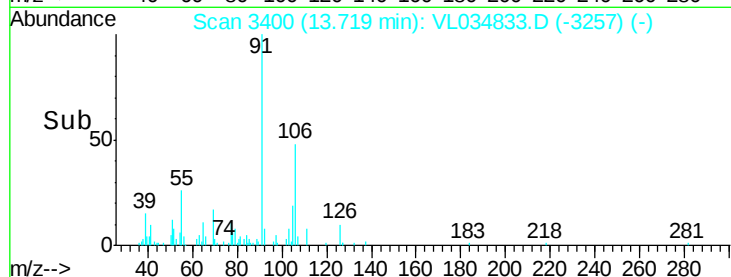
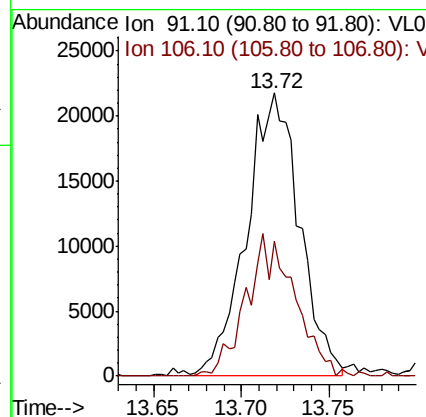
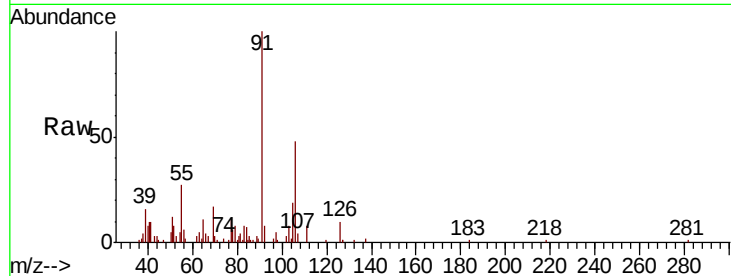


#60
o-Xylene
Concen: 0.210 ppbv m
RT: 13.72 min Scan# 3400
Delta R.T. -0.04 min
Lab File: VL034833.D
Acq: 7 Mar 2020 2:55

Instrument :
MSVOA_L
ClientSampled :
SS-1-4DL2

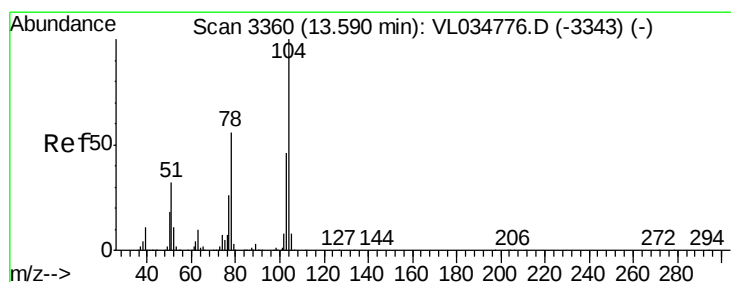
Tot Ion: 91 Resp: 45768
Ion Ratio Lower Upper
91 100
106 0.0 21.7 65.1#

Manual Integrations
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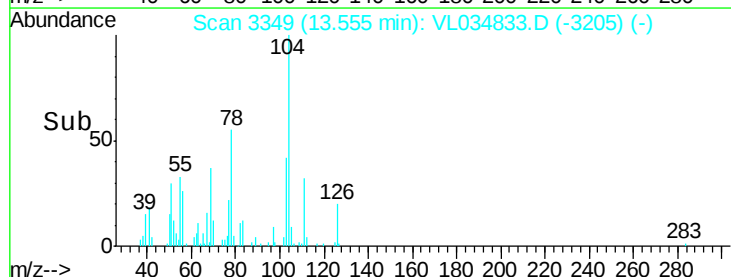
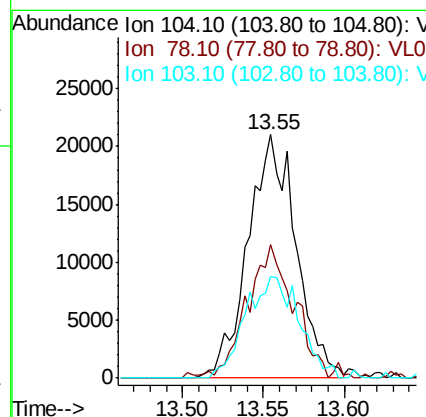
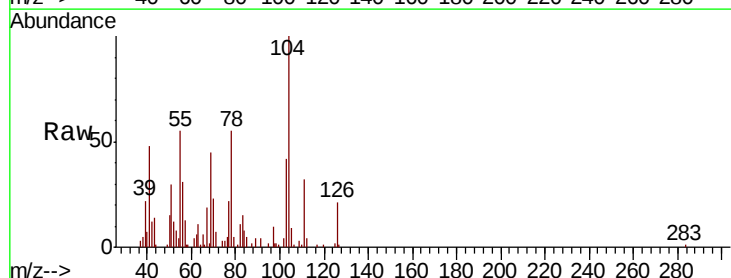
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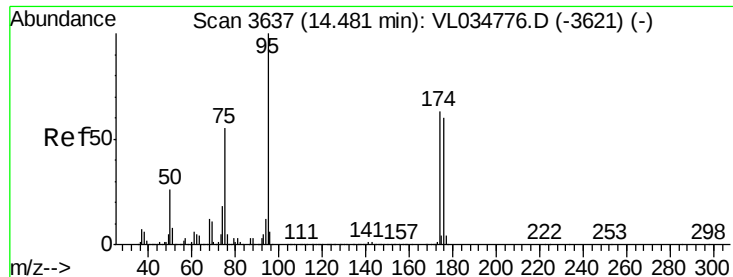
3/9/2020 9:21:28 AM



#61
Styrene
Concen: 0.317 ppbv m
RT: 13.55 min Scan# 3349
Delta R.T. -0.04 min
Lab File: VL034833.D
Acq: 7 Mar 2020 2:55

Tgt Ion: 104 Resp: 42942
Ion Ratio Lower Upper
104 100
78 54.6 44.7 67.1
103 46.7 38.2 57.2



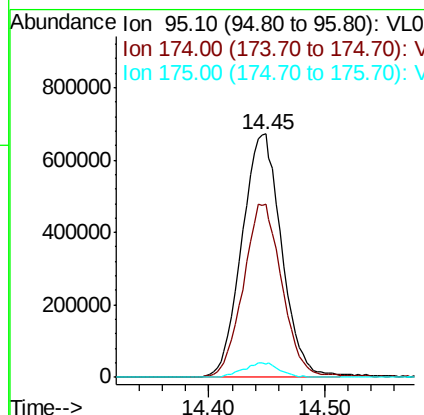
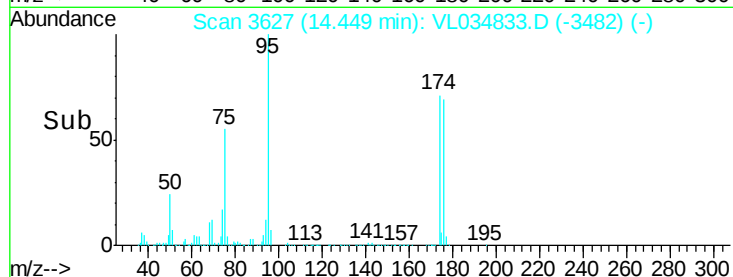
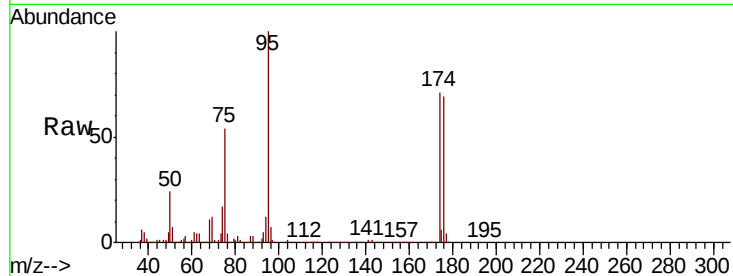


#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.485 ppbv
 RT: 14.45 min Scan# 3627
 Delta R.T. -0.03 min
 Lab File: VL034833.D
 Acq: 7 Mar 2020 2:55

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1-4DL2

Tot Ion	Ratio	Lower	Upper
95	100		
174	69.9	50.6	76.0
175	5.4	3.8	5.6

Manual Integrations
 APPROVED



MMDadoda

3/9/2020 9:21:28 AM