

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052319\
 Data File : VL033792.D
 Acq On : 24 May 2019 3:22
 Operator : SY/AP
 Sample : K2929-06DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3009-55DL

Manual Integrations
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 5/28/2019 2:53:57 AM

Quant Time: May 24 07:30:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1030008	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2654624	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2632514	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	2063994	9.67	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.70%

Target Compounds					Ovalue
9) Propene	3.04	41	395231	7.876 ppbv	91
10) Heptane	8.24	43	86920m	0.612 ppbv	
13) Ethanol	3.66	45	52158	3.216 ppbv	98
15) Acetone	3.89	43	1750102	12.246 ppbv	95
17) tert-Butyl alcohol	4.37	59	27153	0.235 ppbv #	87
26) Hexane	5.78	57	81281	0.753 ppbv #	67
27) Carbon Disulfide	4.62	76	52917	0.357 ppbv #	84
29) Chloroform	5.84	83	19643m	0.099 ppbv	
30) Cyclohexane	7.25	84	10592m	0.117 ppbv	
34) 2-Butanone	5.33	43	170312	1.035 ppbv	96
36) Benzene	7.00	78	106360	0.440 ppbv	98
53) Toluene	9.94	91	959301	3.683 ppbv	100
58) Ethyl Benzene	12.86	91	157631	0.452 ppbv	94
59) m/p-Xylene	13.11	91	532937	1.749 ppbv	97
60) o-Xylene	13.84	91	159406	0.519 ppbv	97
72) 4-Ethyltoluene	15.99	105	36856m	0.105 ppbv	
74) 1,2,4-Trimethylbenzene	16.92	105	87372	0.234 ppbv #	67

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

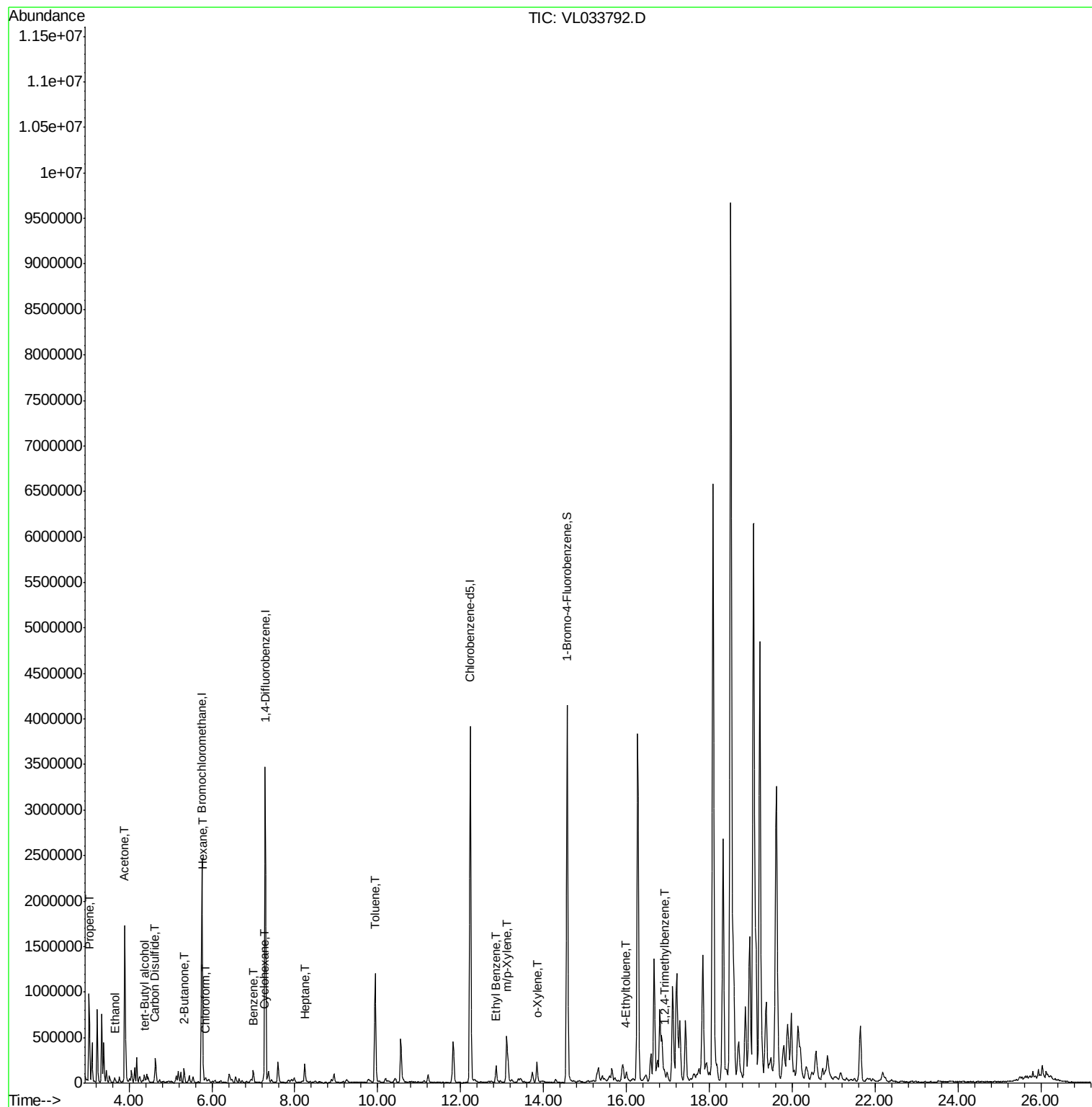
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL052319\
Data File : VL033792.D
Acq On : 24 May 2019 3:22
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Sample : K2929-06DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

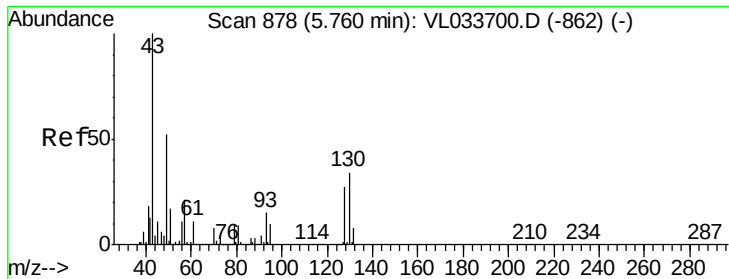
Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3009-55DL

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Quant Time: May 24 07:30:40 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

Lab File: VL033792.D

Acq: 24 May 2019 3:22

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3009-55DL

Tot Ion: 49 Resp: 1030008

Ion Ratio Lower Upper

49 100

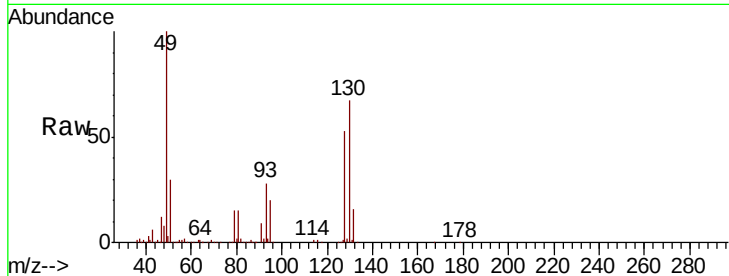
128 52.5 25.2 75.6

130 67.4 32.5 97.5

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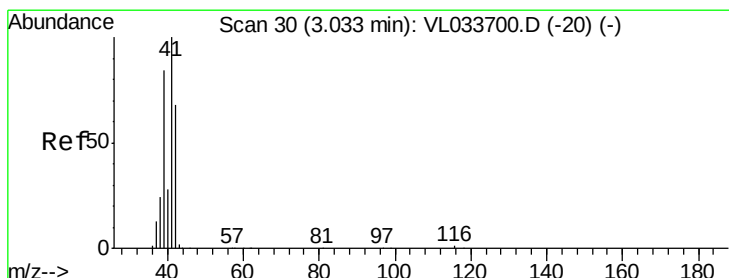
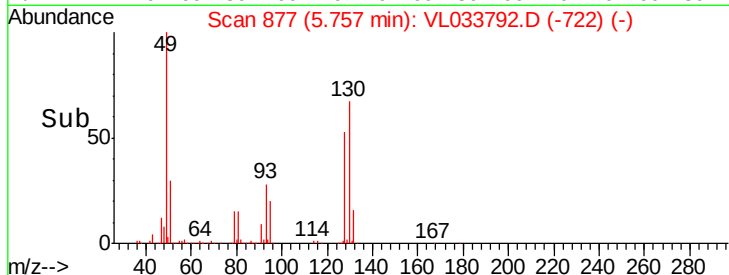
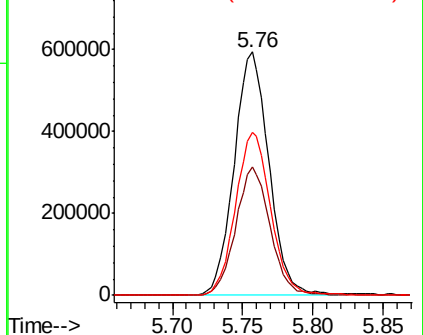
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 7.876 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033792.D

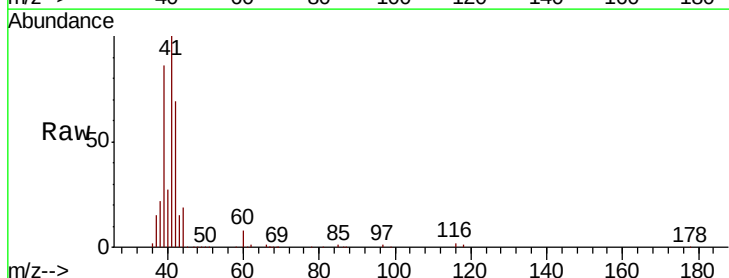
Acq: 24 May 2019 3:22

Tgt Ion: 41 Resp: 395231

Ion Ratio Lower Upper

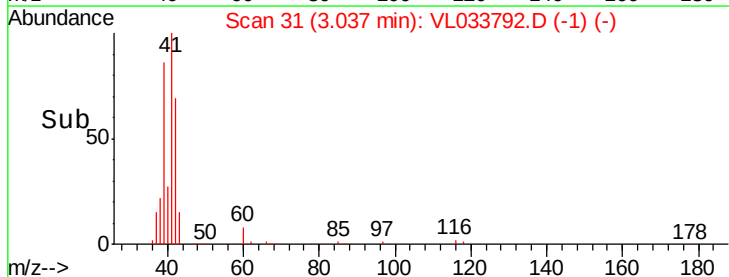
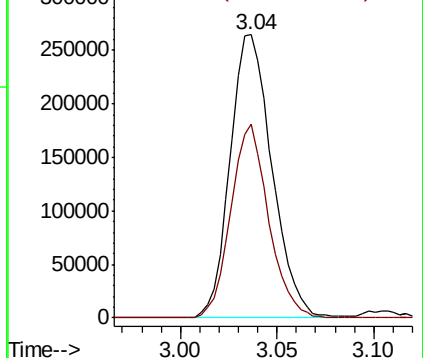
41 100

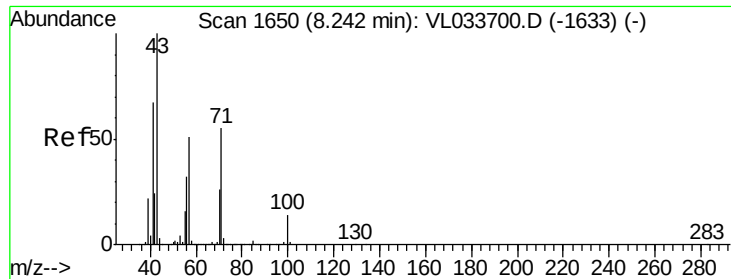
42 62.4 56.1 84.1



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





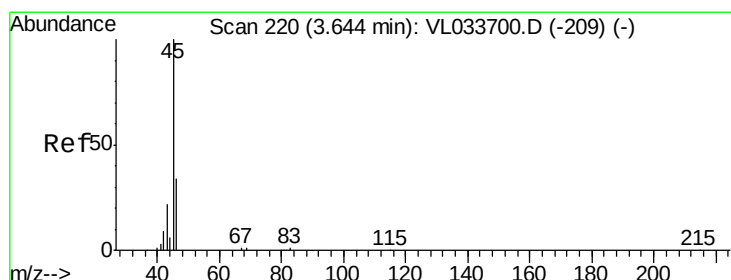
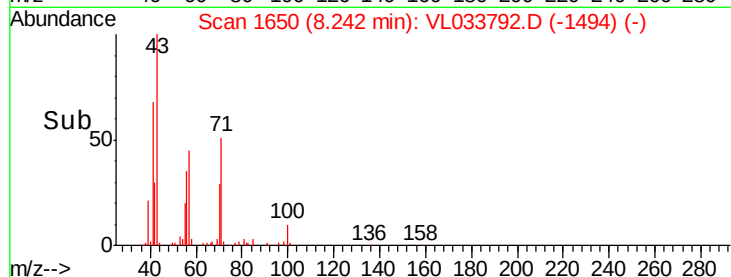
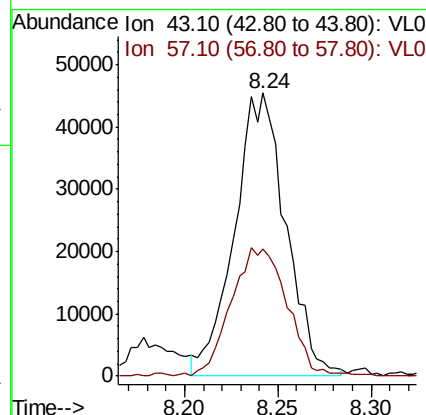
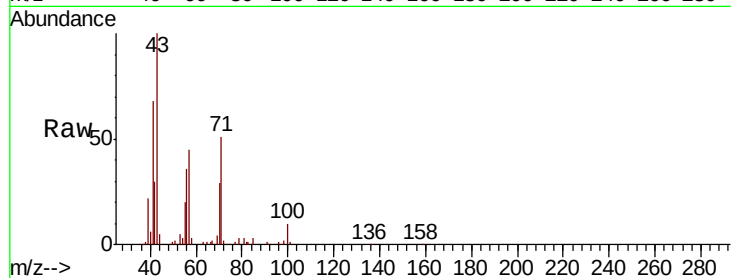
#10
Heptane
Concen: 0.612 ppbv m
RT: 8.24 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VL033792.D
Acq: 24 May 2019 3:22

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3009-55DL

Tot Ion: 43 Resp: 86920
Ion Ratio Lower Upper
43 100
57 0.0 41.4 62.0#

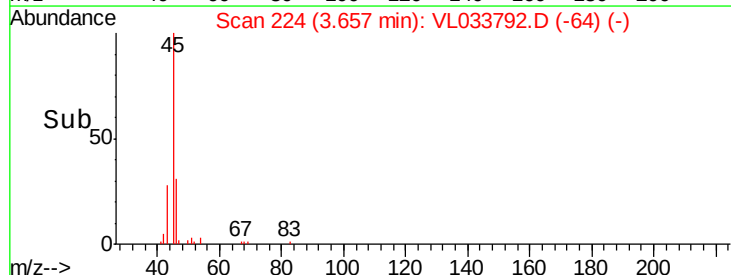
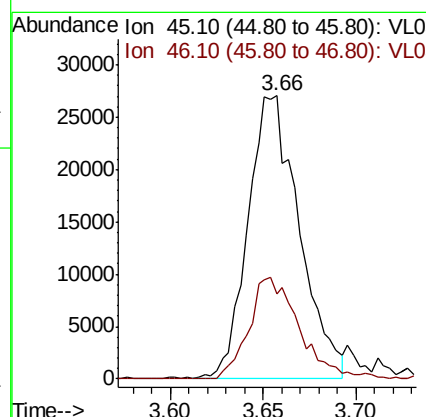
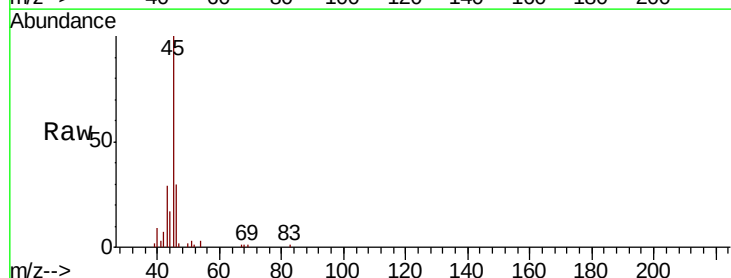
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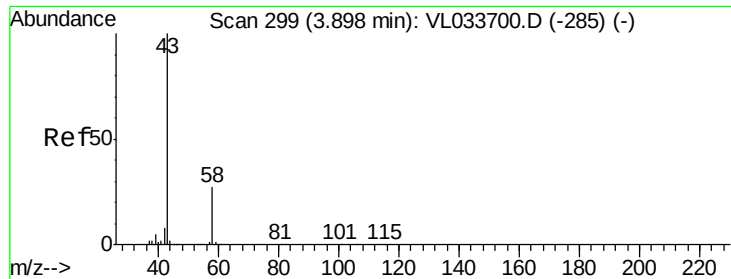
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#13
Ethanol
Concen: 3.216 ppbv
RT: 3.66 min Scan# 224
Delta R.T. 0.01 min
Lab File: VL033792.D
Acq: 24 May 2019 3:22

Tgt Ion: 45 Resp: 52158
Ion Ratio Lower Upper
45 100
46 35.5 14.8 59.0





#15

Acetone

Concen: 12.246 ppbv

RT: 3.89 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033792.D

Acq: 24 May 2019 3:22

Instrument :

MSVOA_L

ClientSampleId :

BPS1-SG-3009-55DL

Tot Ion: 43 Resp: 1750102

Ion Ratio Lower Upper

43 100

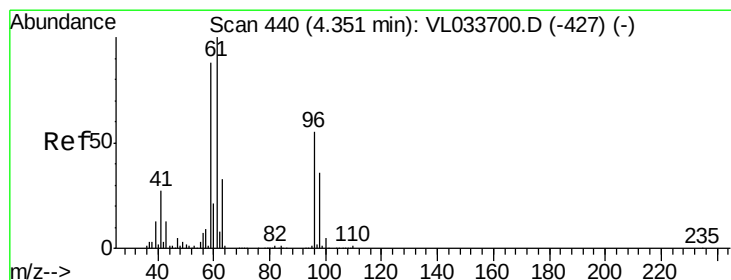
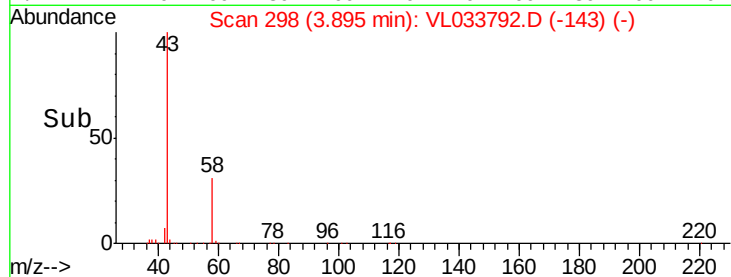
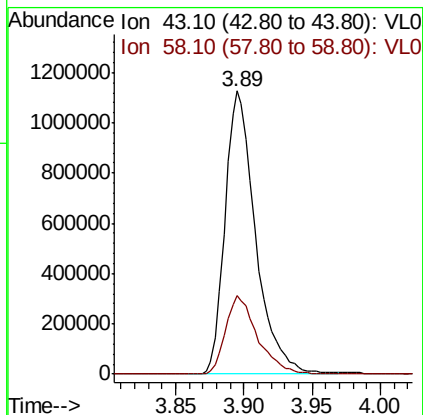
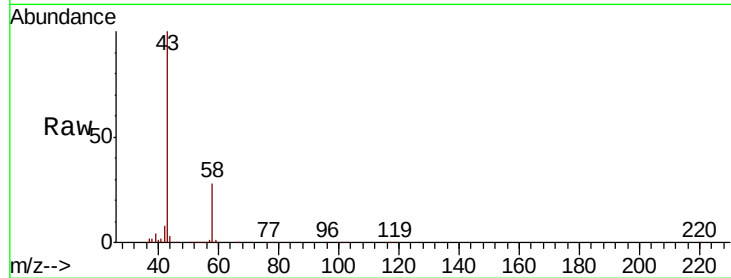
58 29.0 21.3 31.9

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#17

tert-Butyl alcohol

Concen: 0.235 ppbv

RT: 4.37 min Scan# 446

Delta R.T. 0.02 min

Lab File: VL033792.D

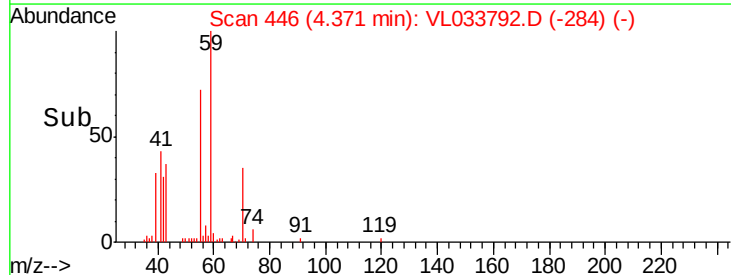
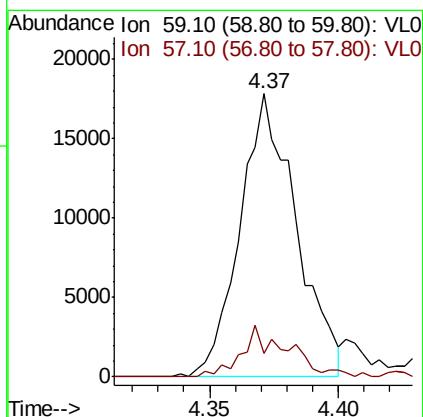
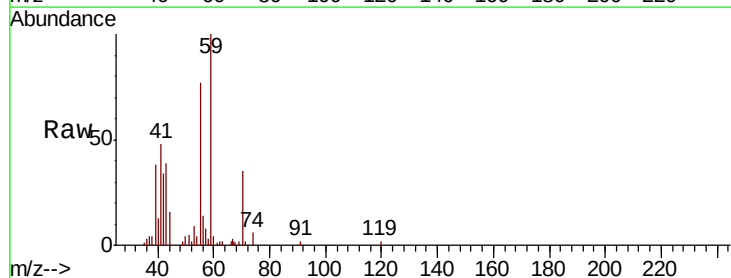
Acq: 24 May 2019 3:22

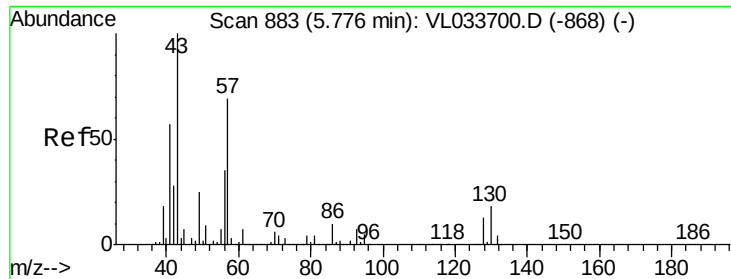
Tgt Ion: 59 Resp: 27153

Ion Ratio Lower Upper

59 100

57 15.5 8.4 12.6#





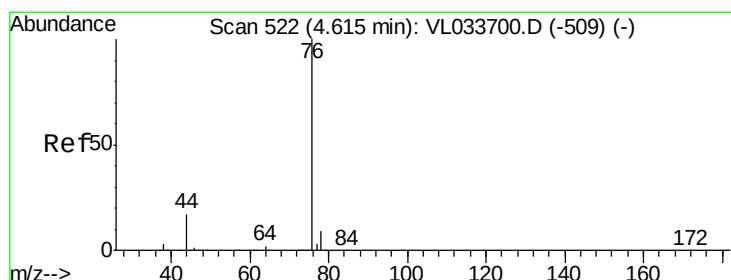
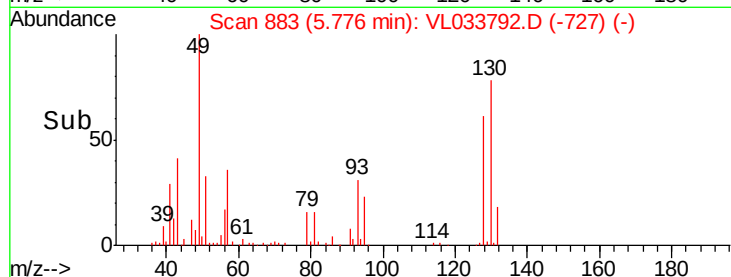
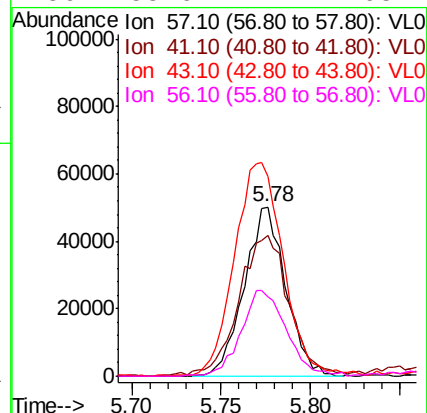
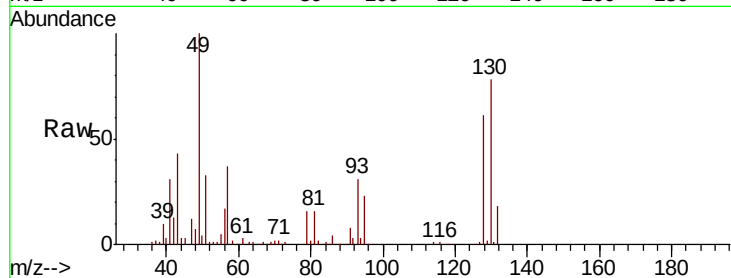
#26
Hexane
Concen: 0.753 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL033792.D
Acq: 24 May 2019 3:22

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3009-55DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	99.8	69.8	104.6
43	151.0	181.8	272.6#
56	55.6	42.1	63.1

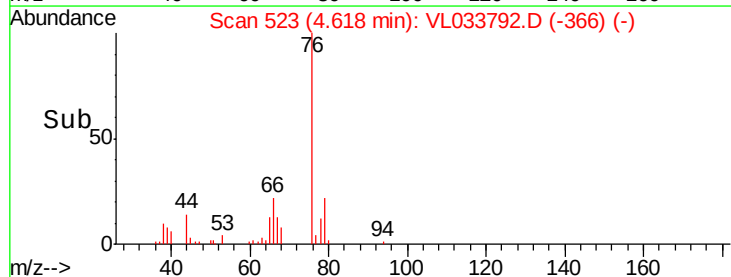
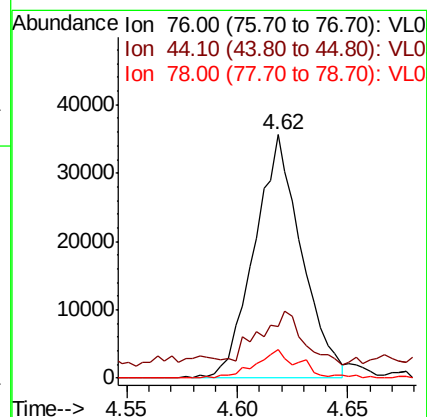
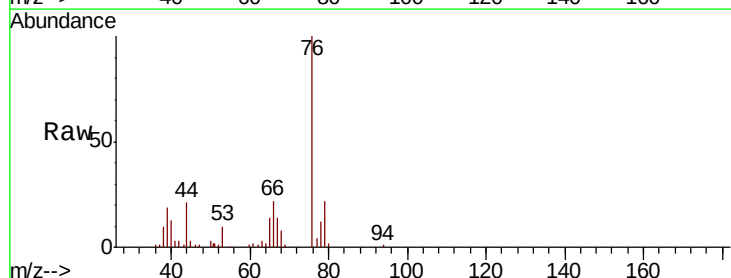
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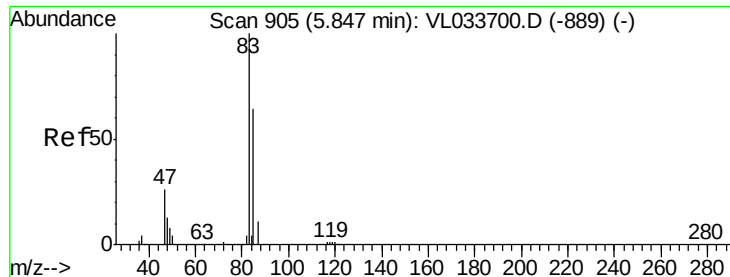
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#27
Carbon Disulfide
Concen: 0.357 ppbv
RT: 4.62 min Scan# 523
Delta R.T. 0.00 min
Lab File: VL033792.D
Acq: 24 May 2019 3:22

Tgt Ion	Ratio	Lower	Upper
76	100		
44	26.9	13.8	20.8#
78	11.1	7.4	11.0#





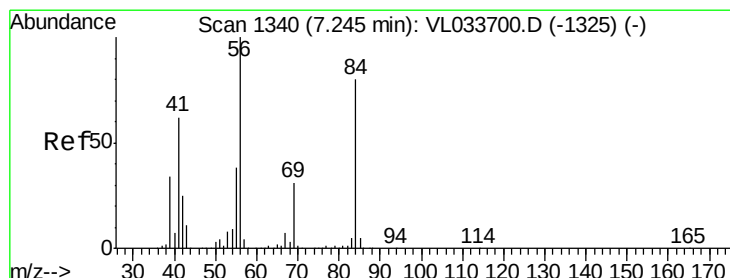
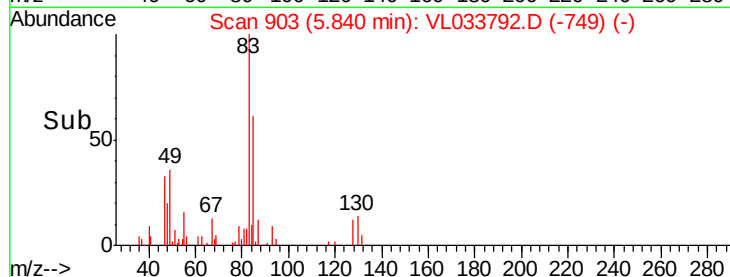
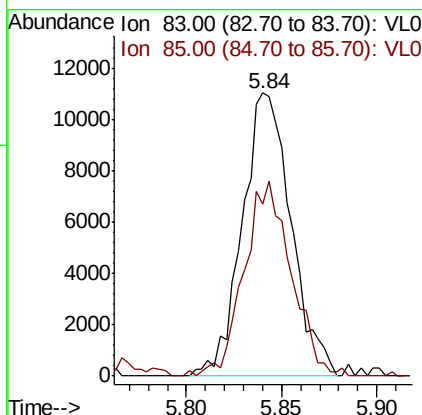
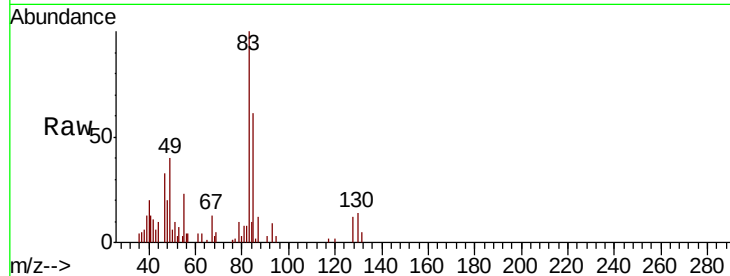
#29
Chloroform
Concen: 0.099 ppbv m
RT: 5.84 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL033792.D
Acq: 24 May 2019 3:22

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3009-55DL

Tot Ion	83	Resp	19643
Ion Ratio	100	Lower	Upper
85	61.0	51.5	77.3

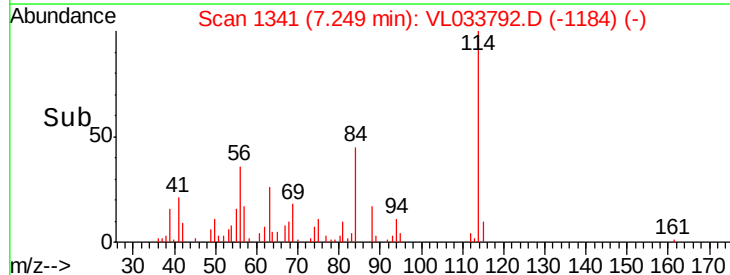
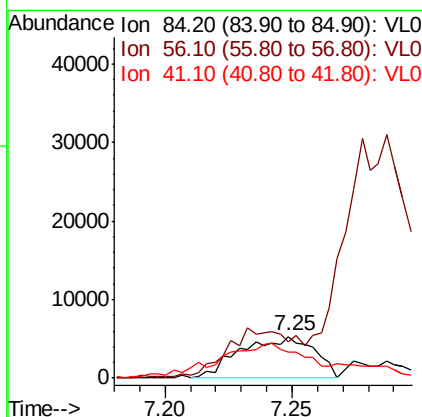
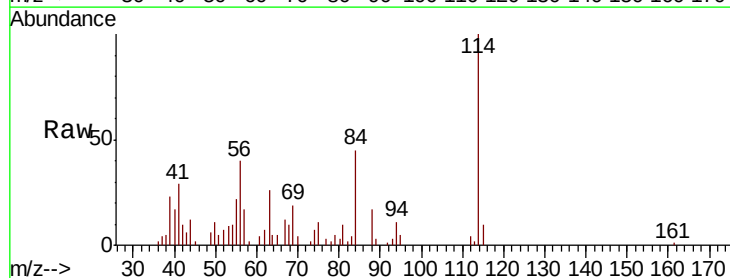
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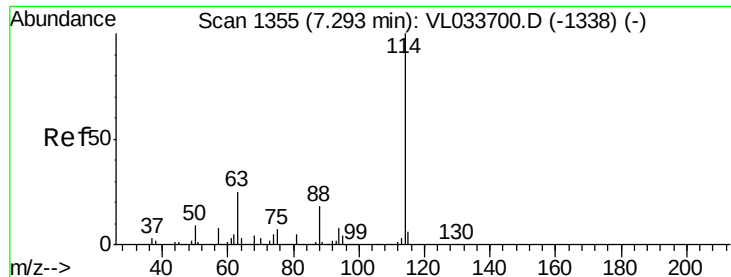
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#30
Cyclohexane
Concen: 0.117 ppbv m
RT: 7.25 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VL033792.D
Acq: 24 May 2019 3:22

Tgt Ion	84	Resp	10592
Ion Ratio	100	Lower	Upper
56	0.0	107.7	161.5#
41	123.7	66.0	99.0#





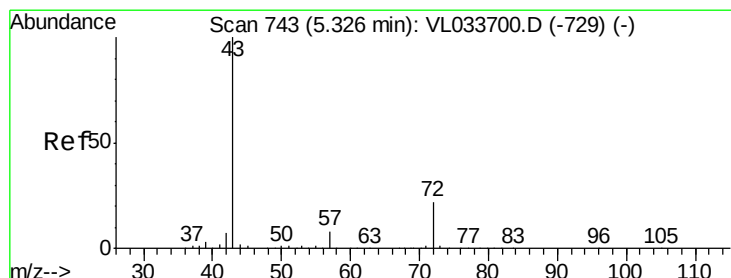
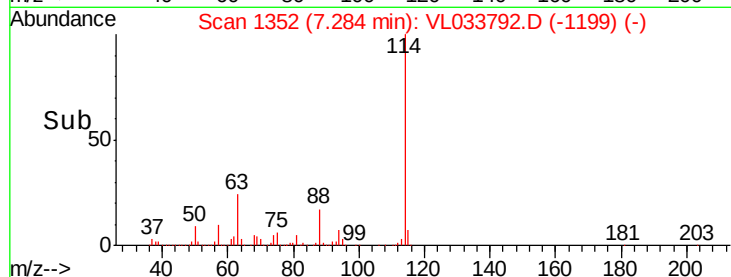
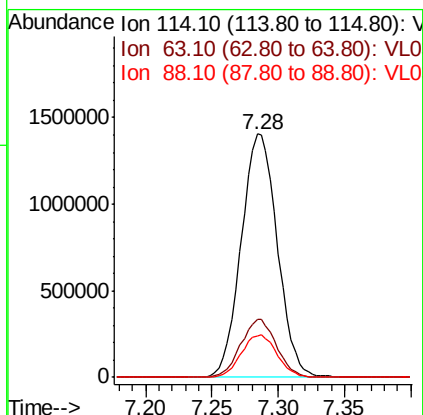
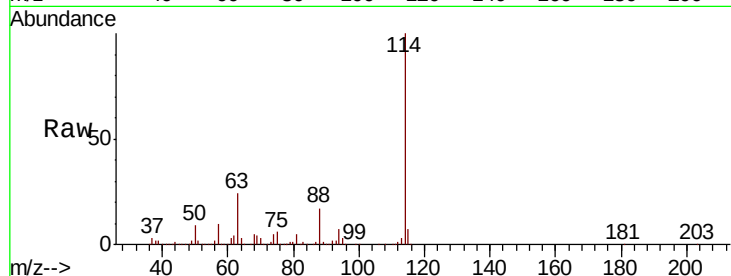
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.28 min Scan# 1352
 Delta R.T. -0.01 min
 Lab File: VL033792.D
 Acq: 24 May 2019 3:22

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3009-55DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.6	20.9	31.3
88	17.5	14.3	21.5

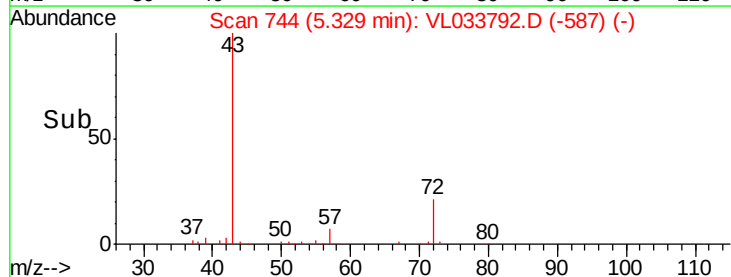
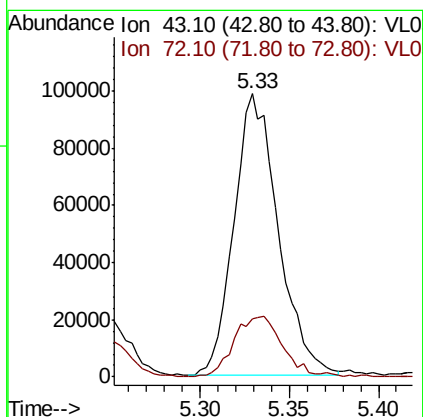
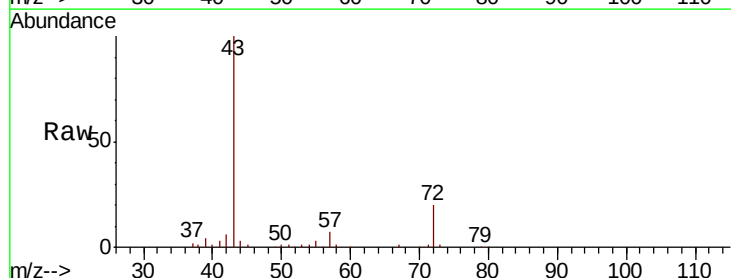
Manual Integrations
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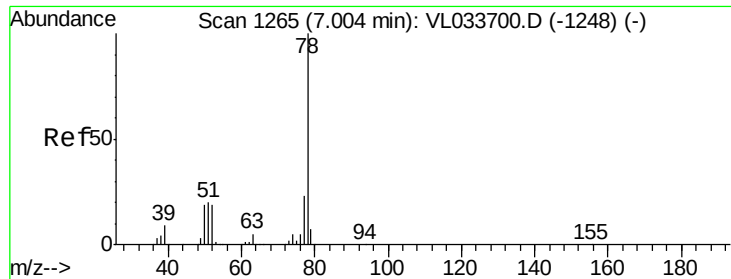
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#34
 2-Butanone
 Concen: 1.035 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033792.D
 Acq: 24 May 2019 3:22

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.9	17.8	26.6





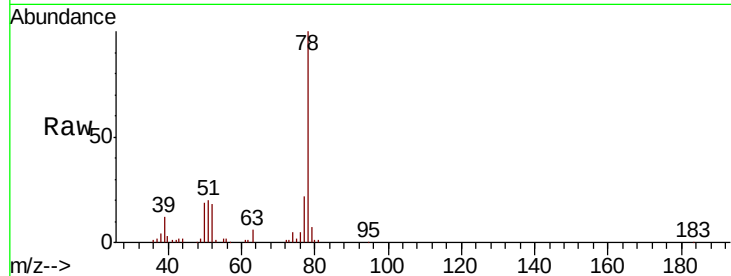
#36
Benzene
Concen: 0.440 ppbv
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033792.D
Acq: 24 May 2019 3:22

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3009-55DL

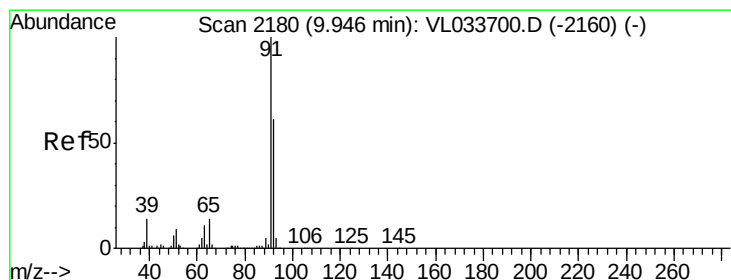
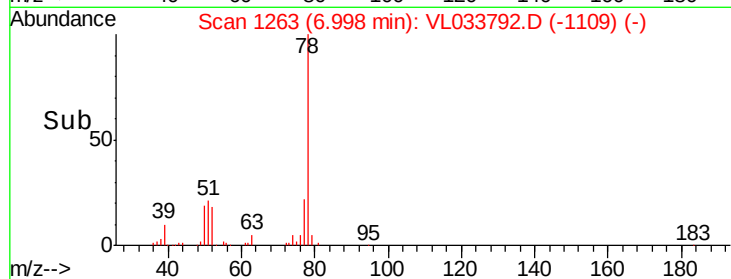
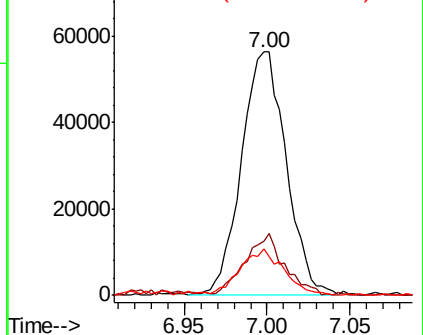
Tot Ion	Ratio	Lower	Upper
78	100		
77	21.3	18.4	27.6
50	19.3	15.5	23.3

Manual Integrations
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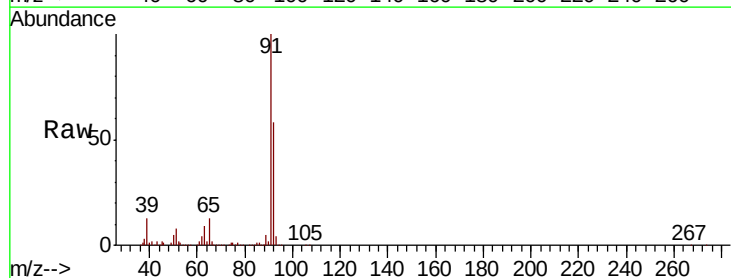


Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

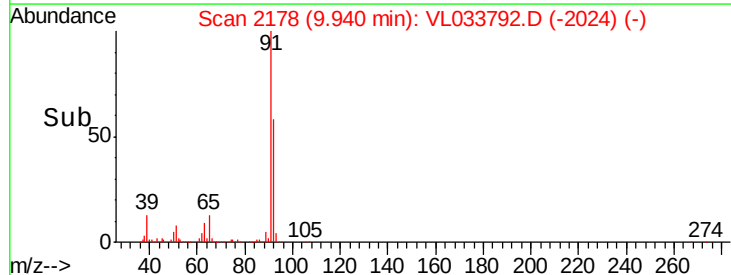
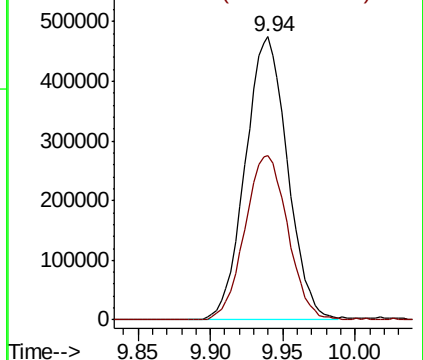


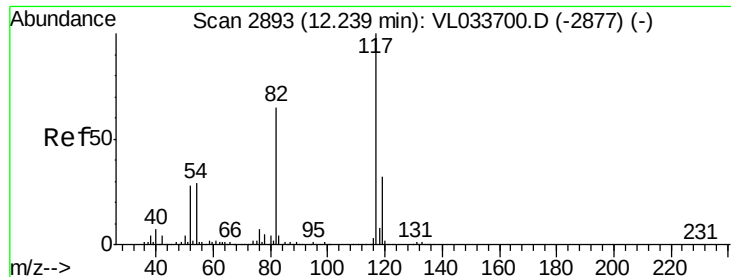
#53
Toluene
Concen: 3.683 ppbv
RT: 9.94 min Scan# 2178
Delta R.T. -0.01 min
Lab File: VL033792.D
Acq: 24 May 2019 3:22

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.7	47.6	71.4



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0





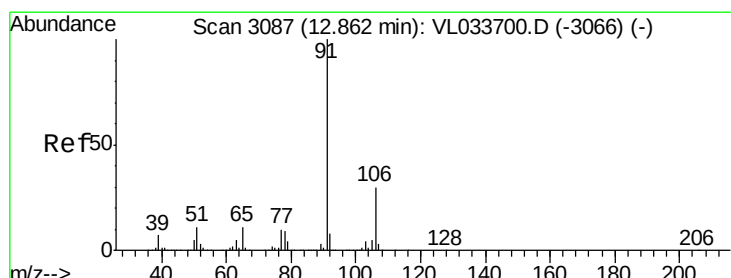
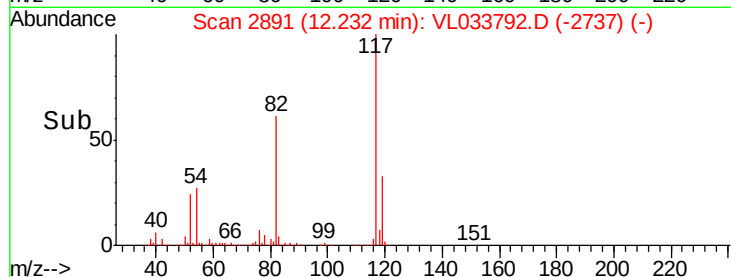
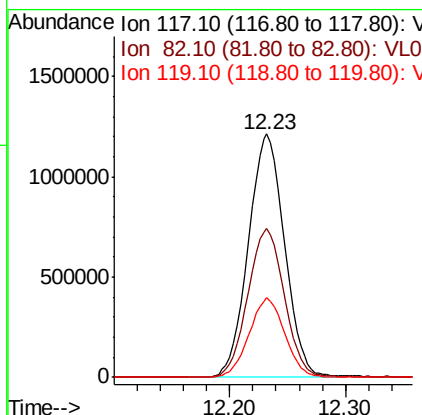
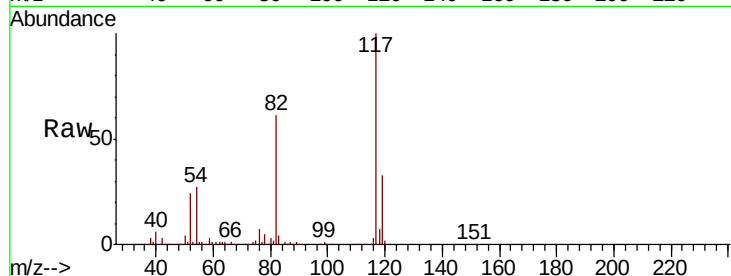
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033792.D
Acq: 24 May 2019 3:22

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3009-55DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	62.4	49.4	74.0
119	32.4	24.9	37.3

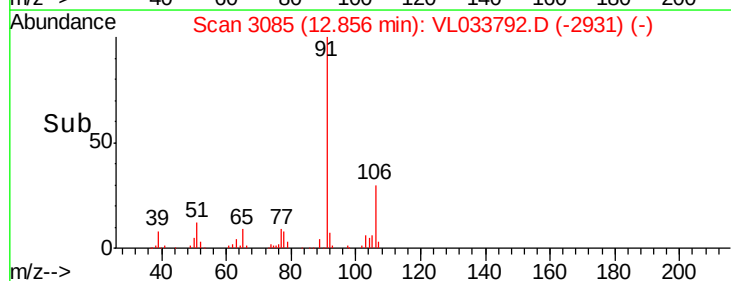
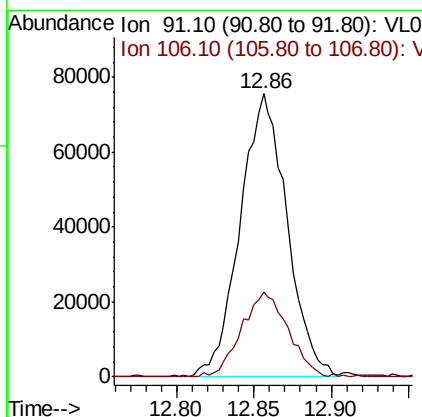
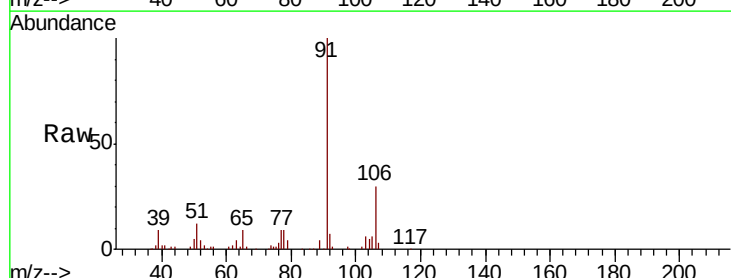
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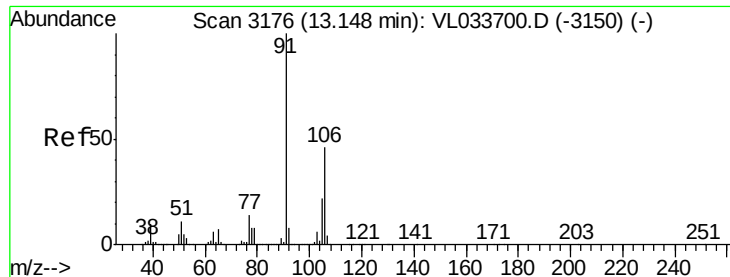
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#58
Ethyl Benzene
Concen: 0.452 ppbv
RT: 12.86 min Scan# 3085
Delta R.T. -0.01 min
Lab File: VL033792.D
Acq: 24 May 2019 3:22

Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.0	23.9	35.9





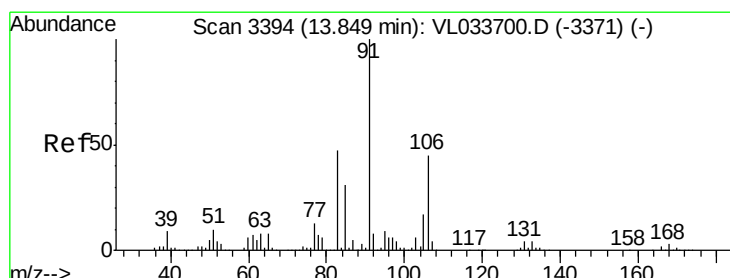
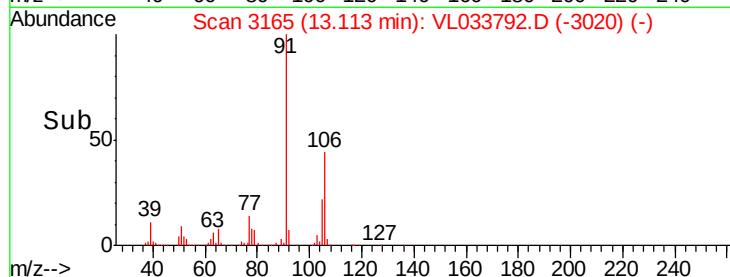
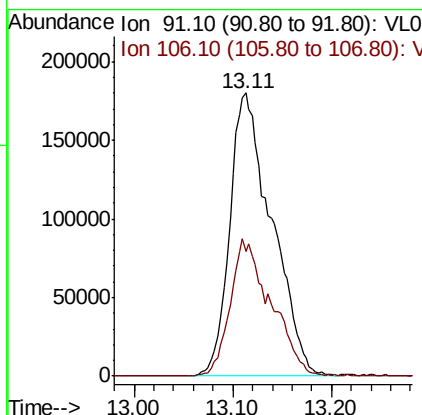
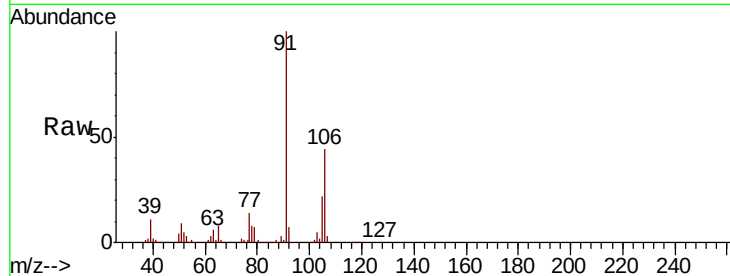
#59
m/p-Xylene
Concen: 1.749 ppbv
RT: 13.11 min Scan# 3165
Delta R.T. -0.04 min
Lab File: VL033792.D
Acq: 24 May 2019 3:22

Instrument :
MSVOA_L
ClientSampleId :
BPS1-SG-3009-55DL

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
106	46.7	35.8	53.6	

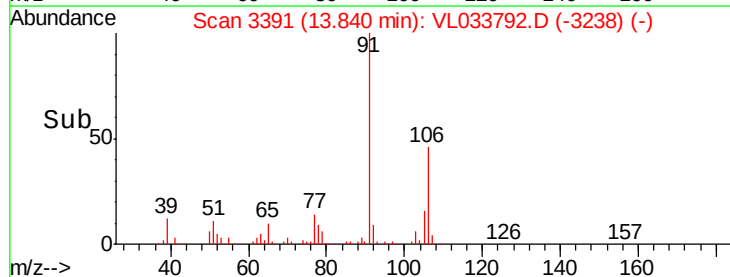
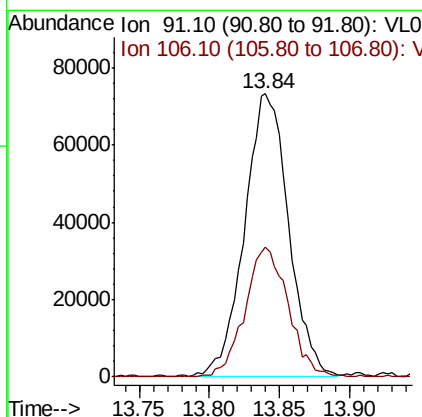
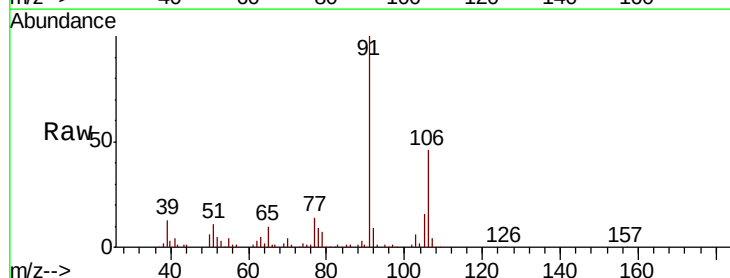
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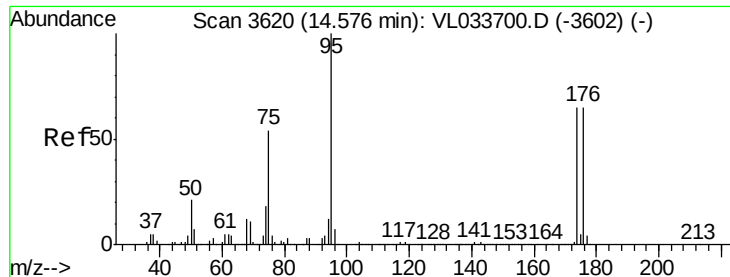
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#60
o-Xylene
Concen: 0.519 ppbv
RT: 13.84 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL033792.D
Acq: 24 May 2019 3:22

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
106	45.4	21.6	64.8	





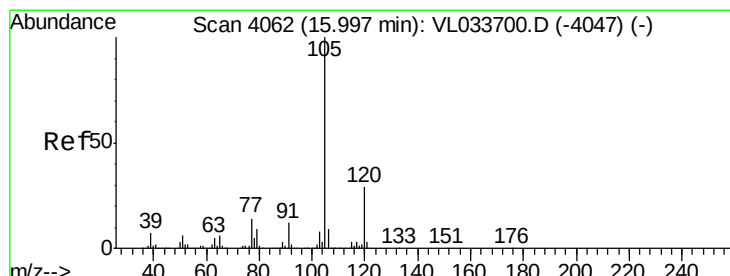
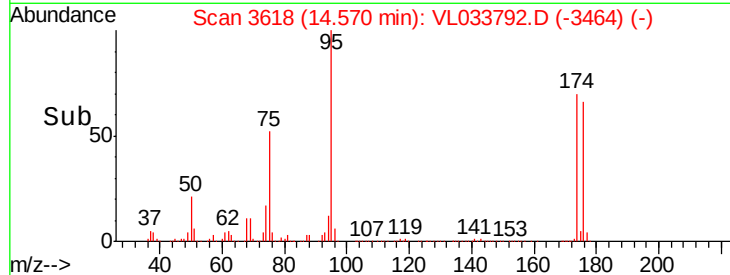
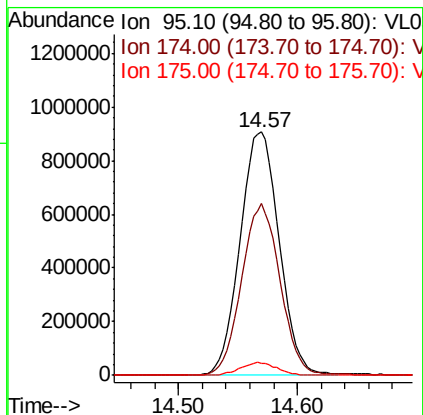
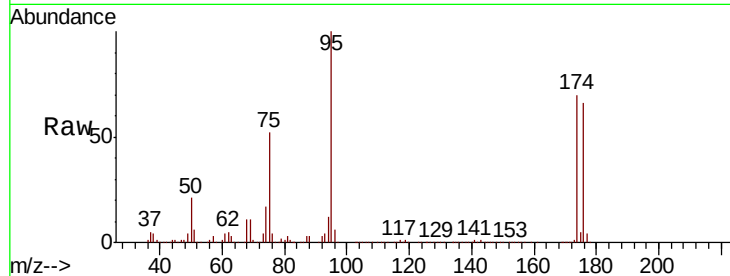
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.671 ppbv
 RT: 14.57 min Scan# 3618
 Delta R.T. -0.01 min
 Lab File: VL033792.D
 Acq: 24 May 2019 3:22

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3009-55DL

Tot Ion:	95	Resp:	2063994
Ion	Ratio	Lower	Upper
95	100		
174	69.7	53.9	80.9
175	5.0	3.8	5.8

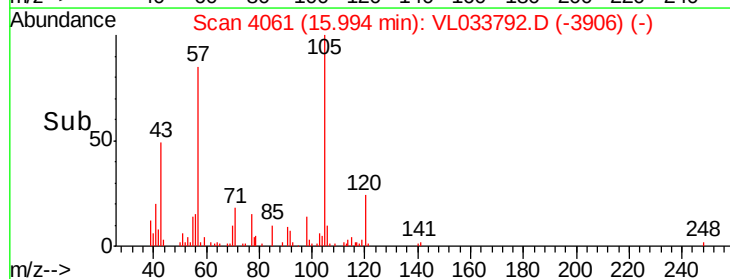
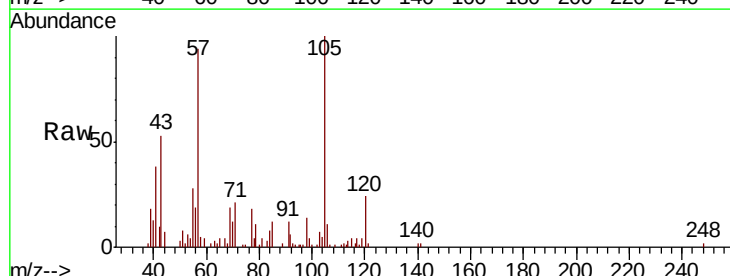
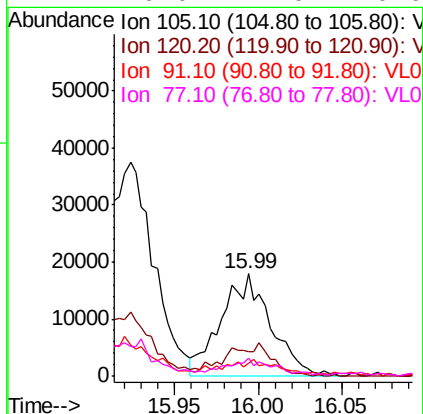
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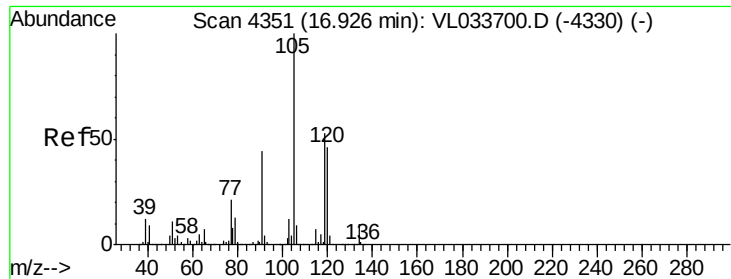
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#72
 4-Ethyltoluene
 Concen: 0.105 ppbv m
 RT: 15.99 min Scan# 4061
 Delta R.T. -0.00 min
 Lab File: VL033792.D
 Acq: 24 May 2019 3:22

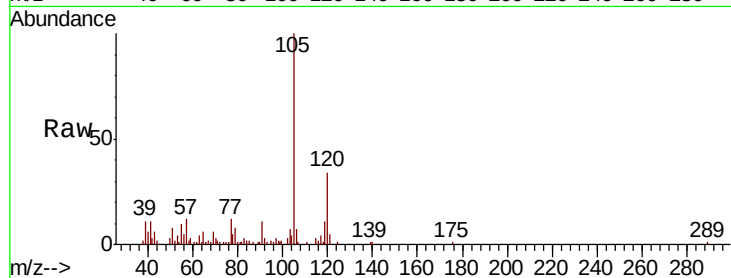
Tgt Ion:	105	Resp:	36856
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.1	34.7#
91	0.0	10.4	15.6#
77	0.0	11.0	16.6#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.234 ppbv
 RT: 16.92 min Scan# 4349
 Delta R.T. -0.01 min
 Lab File: VL033792.D
 Acq: 24 May 2019 3:22

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-SG-3009-55DL



Tot Ion:	105	Resp:	87372
Ion Ratio		Lower	Upper
105	100		
120	33.7	36.8	55.2#
91	11.1	35.4	53.0#
77	9.8	16.8	25.2#

Manual Integrations
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