

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
 Data File : VL037775.D
 Acq On : 5 Oct 2021 15:59
 Operator : SY/AP
 Sample : M4012-05 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P24

Manual Integrations
 APPROVED

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 10/11/2021 7:36:12 PM

Quant Time: Oct 06 05:55:51 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 0
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1424891	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3935961	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3409228	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2336356	9.80	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	3.13	50	14785m	0.147	ppbv	
9) Propene	3.02	41	83276	0.827	ppbv #	72
13) Ethanol	3.60	45	15018851	1823.035	ppbv	84
15) Acetone	3.83	43	6209927	48.548	ppbv	100
17) tert-Butyl alcohol	4.29	59	57055m	0.433	ppbv	
19) Isopropyl Alcohol	3.97	45	3603361	45.281	ppbv #	99
20) Methylene Chloride	4.33	84	180939	2.800	ppbv	94
26) Hexane	5.67	57	90566	0.512	ppbv #	77
29) Chloroform	5.73	83	57642m	0.228	ppbv	
34) 2-Butanone	5.23	43	74514	0.469	ppbv #	86
37) 1,2-Dichloroethane	6.28	62	15307	0.097	ppbv #	84
52) Tetrachloroethene	11.20	164	7603m	0.058	ppbv	
53) Toluene	9.78	91	394047	1.058	ppbv	100
58) Ethyl Benzene	12.69	91	65597m	0.143	ppbv	
59) m/p-Xylene	12.95	91	143916m	0.366	ppbv	
60) o-Xylene	13.68	91	51836m	0.138	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	40514m	0.099	ppbv	

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

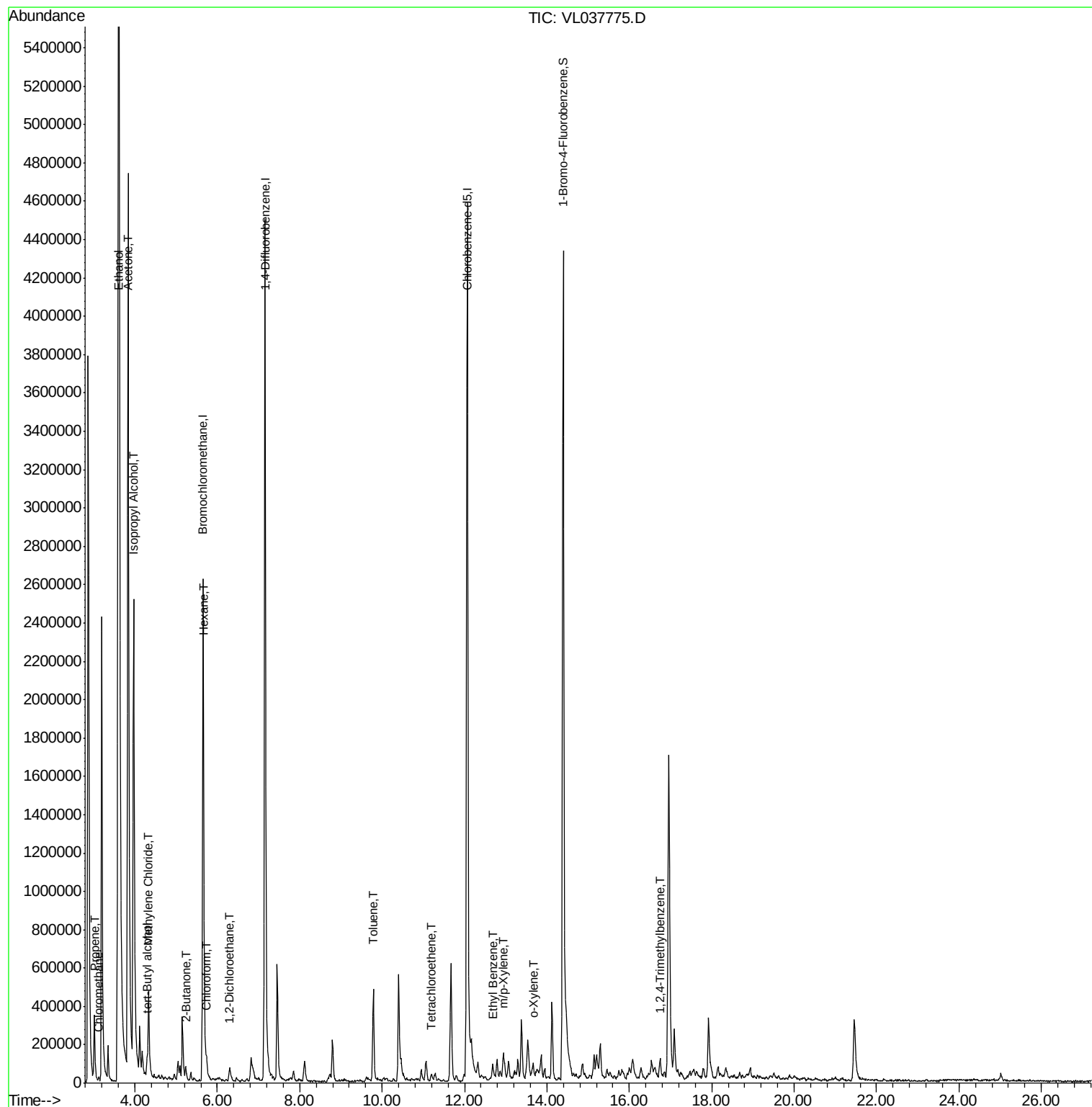
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Data File : VL037775.D
Acq On : 5 Oct 2021 15:59
Operator : SY/AP
Sample : M4012-05 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

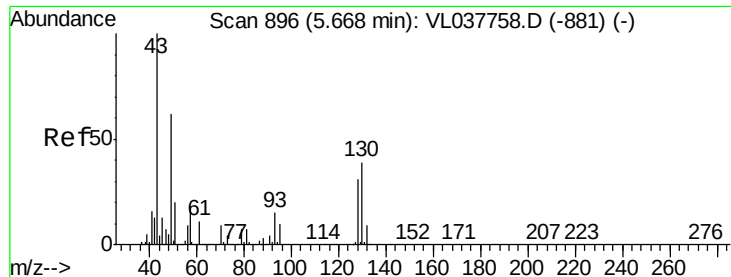
Instrument :
MSVOA_L
ClientSampleId :
C0P24

Manual Integrations
APPROVED

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Quant Time: Oct 06 05:55:51 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration





#1

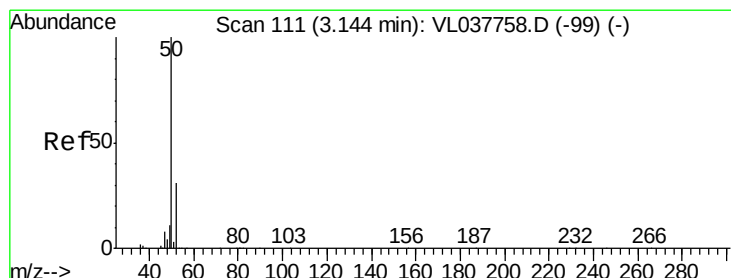
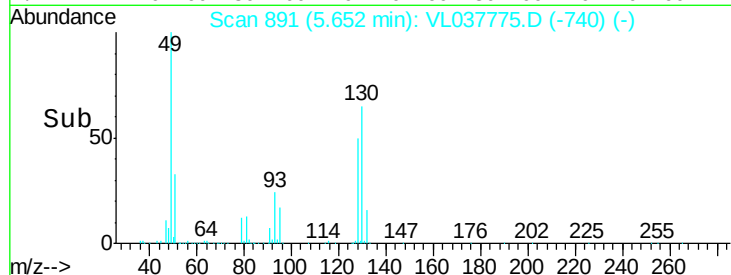
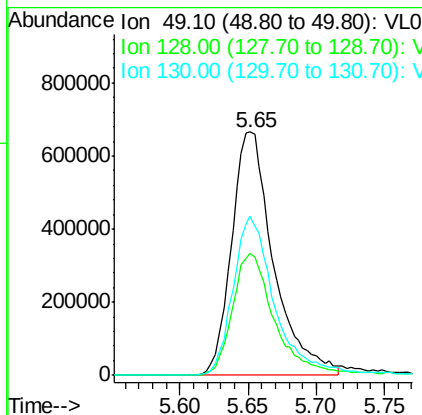
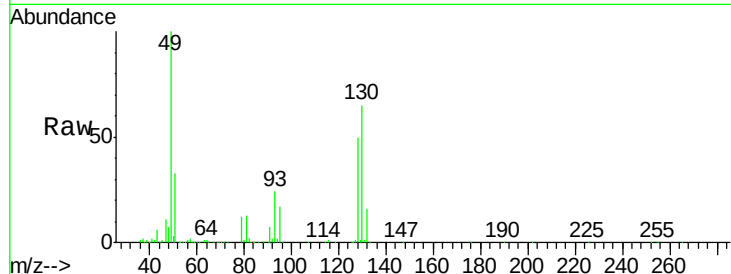
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 891
Delta R.T. -0.02 min
Lab File: VL037775.D
Acq: 5 Oct 2021 15:59

Instrument :
MSVOA_L
ClientSampled :
C0P24

Tgt Ion: 49 Resp: 1424891
Ion Ratio Lower Upper
49 100
128 51.5 27.1 81.3
130 65.9 33.2 99.6

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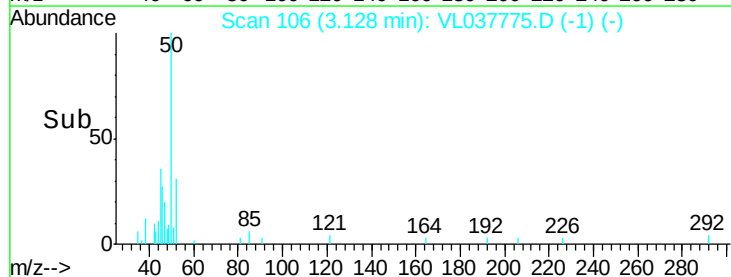
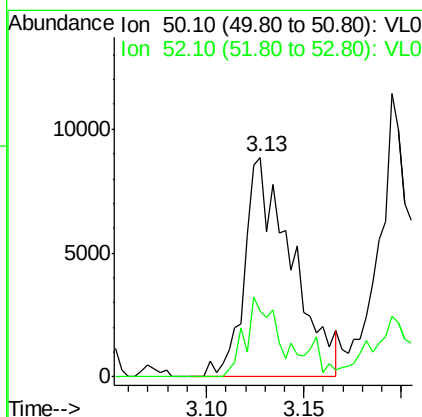
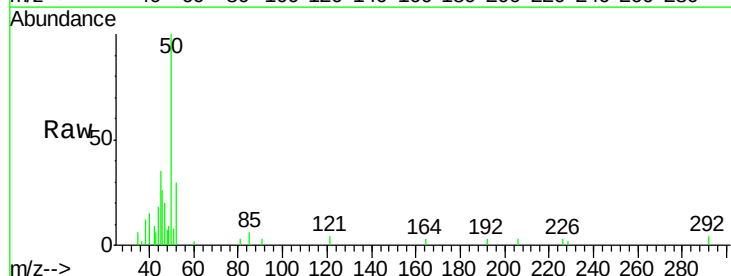
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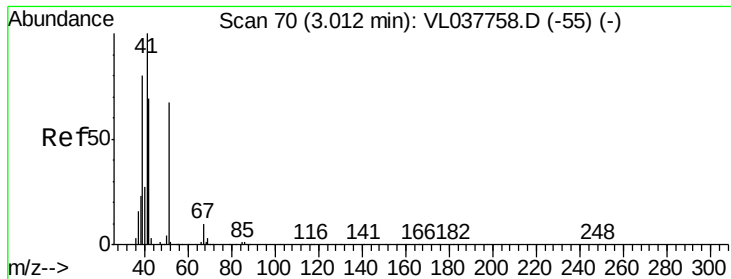


#4

Chloromethane
Concen: 0.147 ppbv m
RT: 3.13 min Scan# 106
Delta R.T. -0.02 min
Lab File: VL037775.D
Acq: 5 Oct 2021 15:59

Tgt Ion: 50 Resp: 14785
Ion Ratio Lower Upper
50 100
52 30.2 24.4 36.6





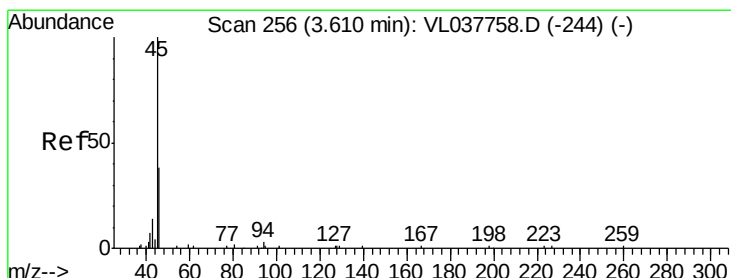
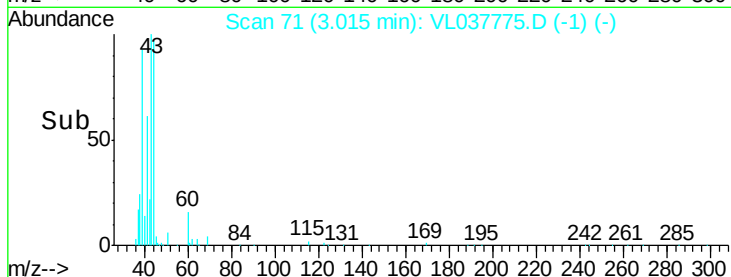
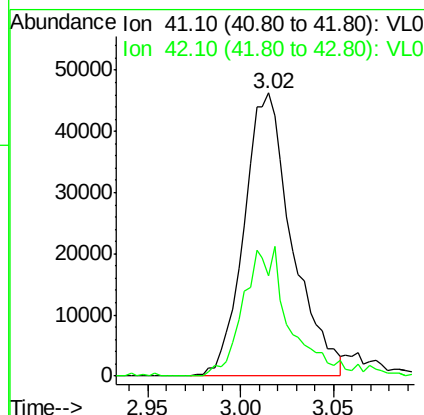
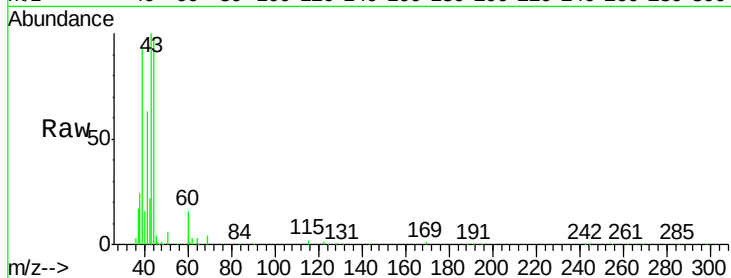
#9
 Propene
 Concen: 0.827 ppbv
 RT: 3.02 min Scan# 71
 Delta R.T. 0.00 min
 Lab File: VL037775.D
 Acq: 5 Oct 2021 15:59

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P24

Tgt Ion: 41 Resp: 83276
 Ion Ratio Lower Upper
 41 100
 42 45.1 54.2 81.2#

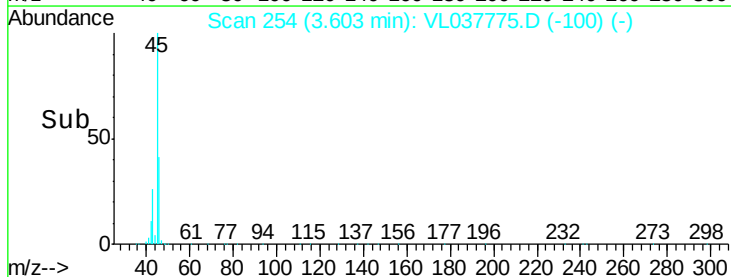
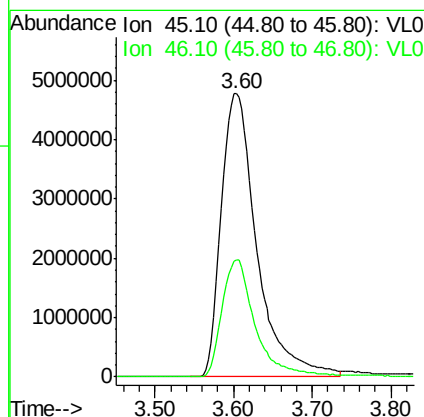
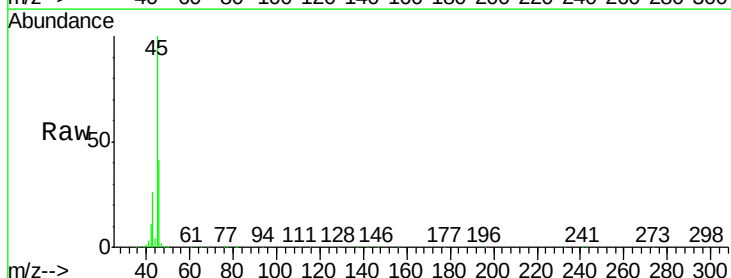
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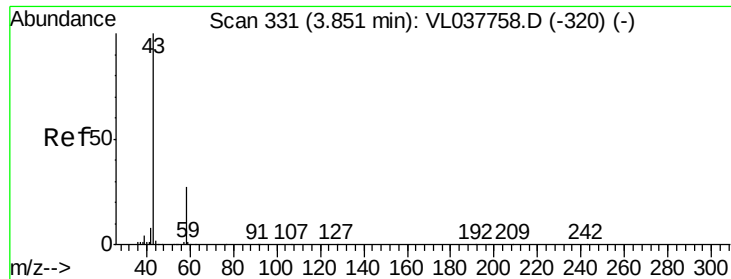
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#13
 Ethanol
 Concen: 1823.035 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. -0.01 min
 Lab File: VL037775.D
 Acq: 5 Oct 2021 15:59

Tgt Ion: 45 Resp: 15018851
 Ion Ratio Lower Upper
 45 100
 46 39.2 20.2 81.0





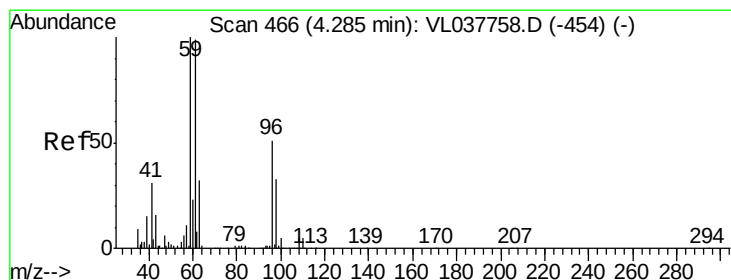
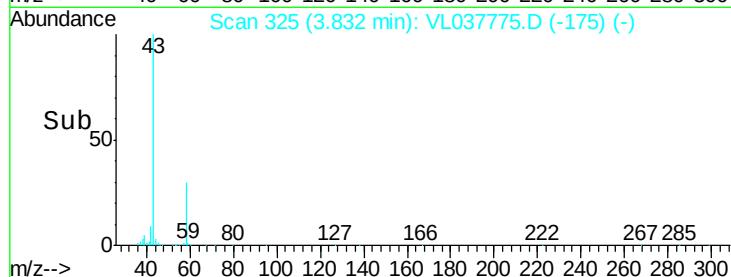
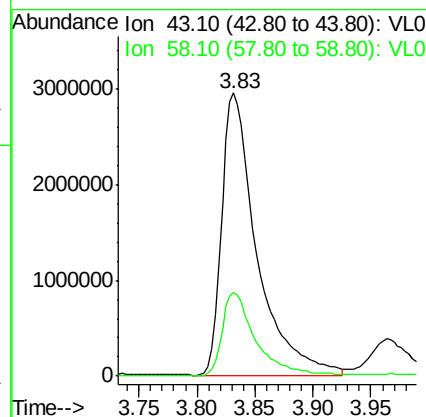
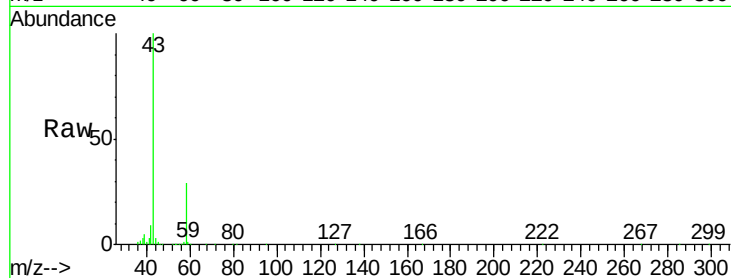
#15
Acetone
Concen: 48.548 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.02 min
Lab File: VL037775.D
Acq: 5 Oct 2021 15:59

Instrument :
MSVOA_L
ClientSampleId :
C0P24

Tgt Ion: 43 Resp: 6209927
Ion Ratio Lower Upper
43 100
58 28.9 23.0 34.6

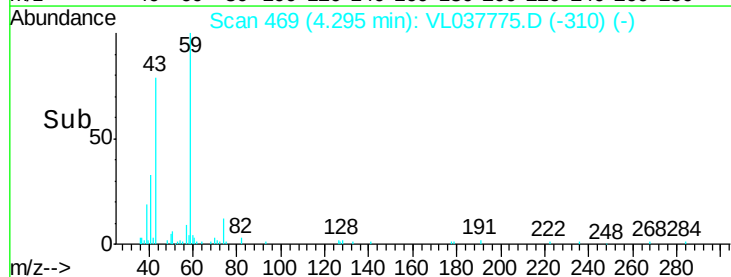
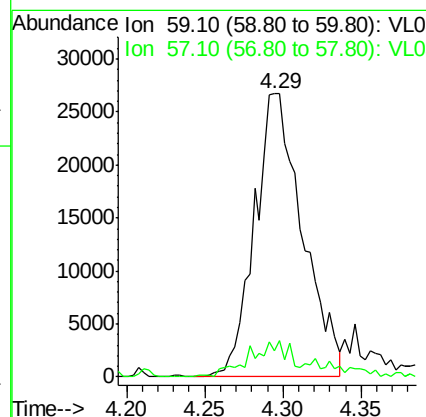
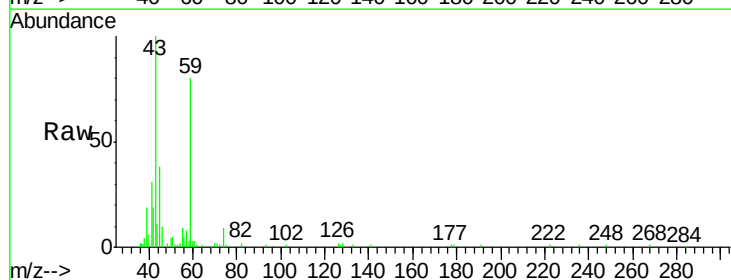
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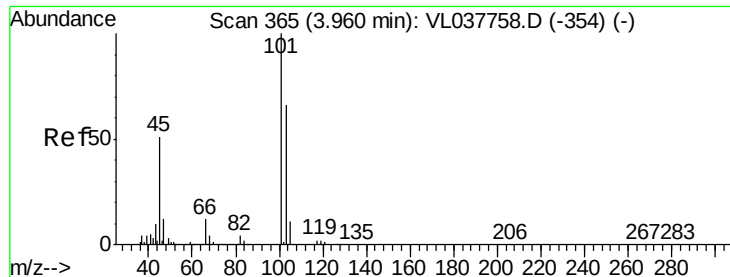
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#17
tert-Butyl alcohol
Concen: 0.433 ppbv m
RT: 4.29 min Scan# 469
Delta R.T. 0.01 min
Lab File: VL037775.D
Acq: 5 Oct 2021 15:59

Tgt Ion: 59 Resp: 57055
Ion Ratio Lower Upper
59 100
57 26.1 8.6 13.0#





#19

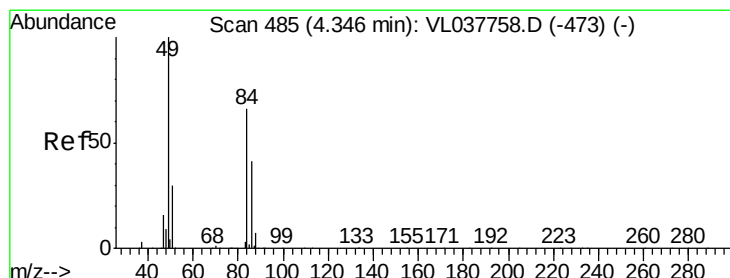
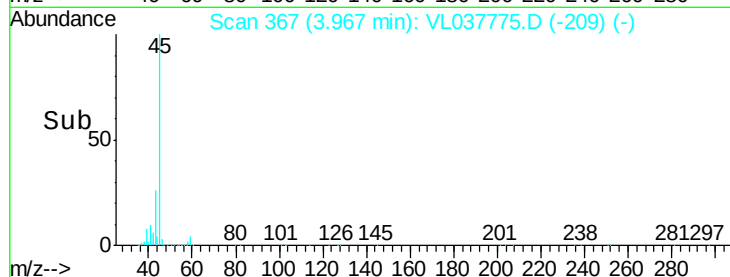
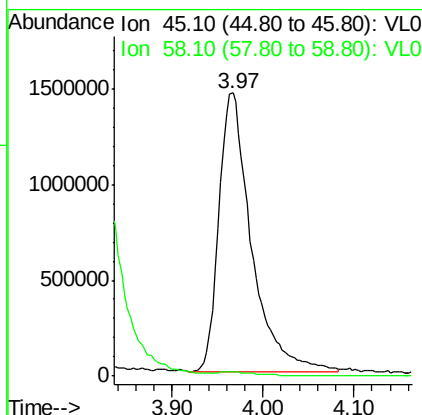
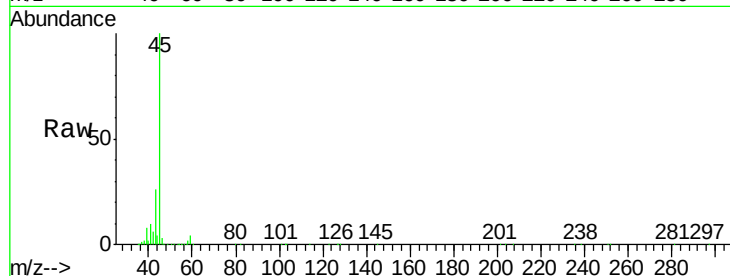
Isopropyl Alcohol
 Concen: 45.281 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. 0.01 min
 Lab File: VL037775.D
 Acq: 5 Oct 2021 15:59

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P24

Tgt Ion: 45 Resp: 3603361
 Ion Ratio Lower Upper
 45 100
 58 1.8 1.1 1.7#

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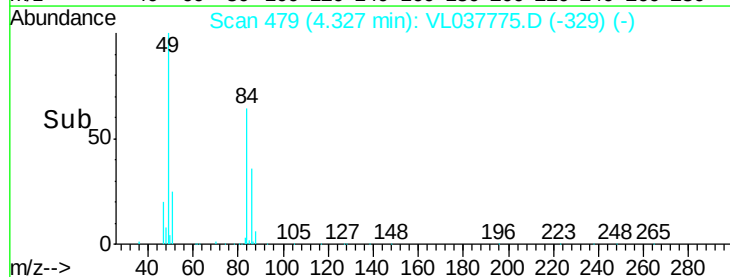
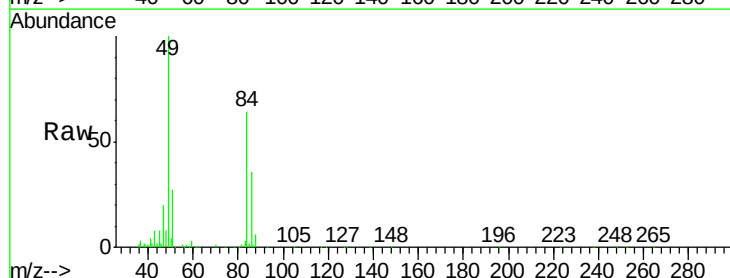
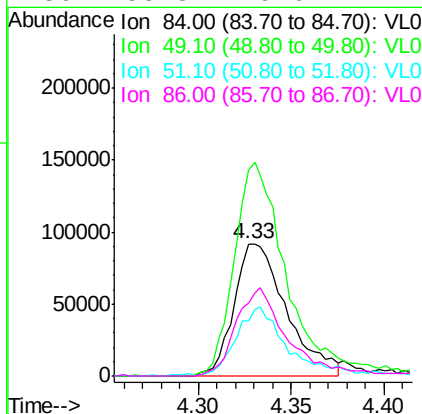
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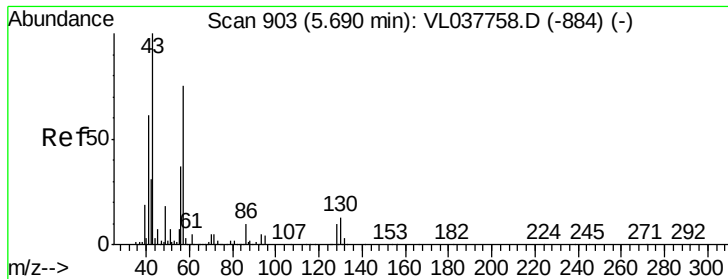


#20

Methylene Chloride
 Concen: 2.800 ppbv
 RT: 4.33 min Scan# 479
 Delta R.T. -0.02 min
 Lab File: VL037775.D
 Acq: 5 Oct 2021 15:59

Tgt Ion: 84 Resp: 180939
 Ion Ratio Lower Upper
 84 100
 49 155.6 120.7 181.1
 51 40.0 36.2 54.4
 86 55.3 49.6 74.4





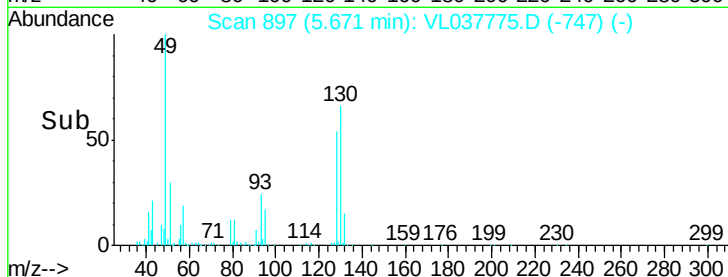
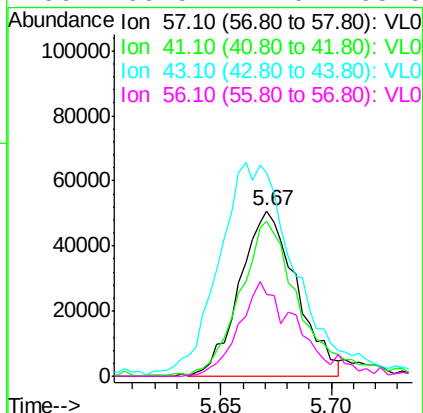
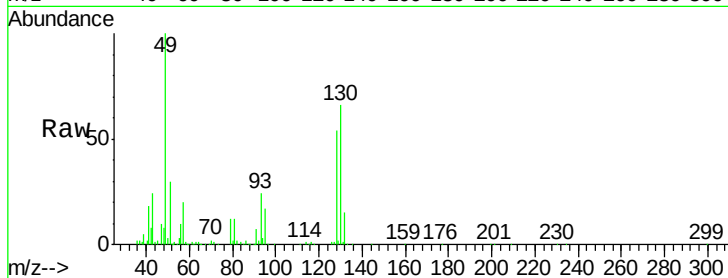
#26
Hexane
Concen: 0.512 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.02 min
Lab File: VL037775.D
Acq: 5 Oct 2021 15:59

Instrument :
MSVOA_L
ClientSampleId :
C0P24

Tgt Ion	Ratio	Lower	Upper
57	100		
41	103.4	69.6	104.4
43	170.0	171.4	257.0#
56	60.5	42.0	63.0

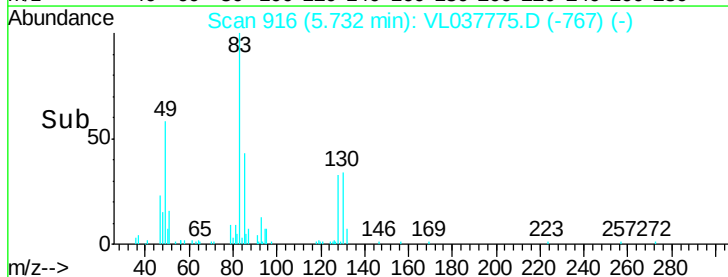
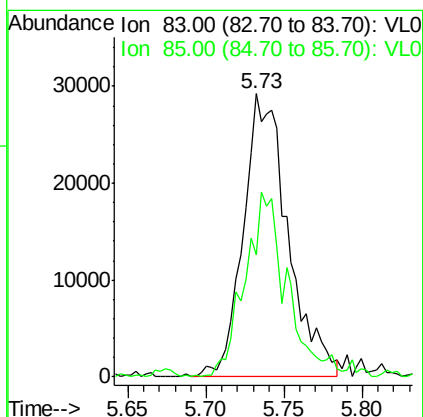
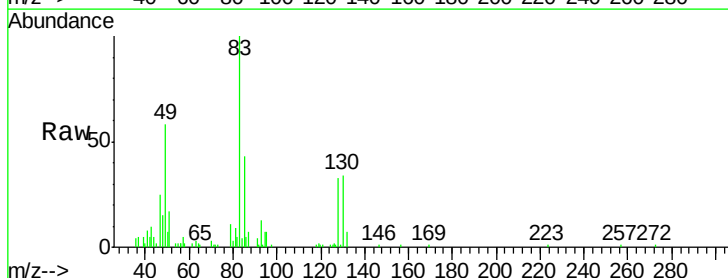
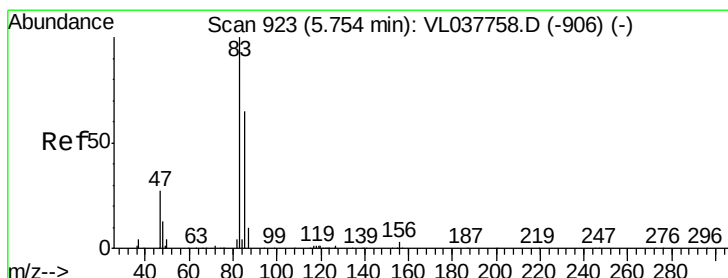
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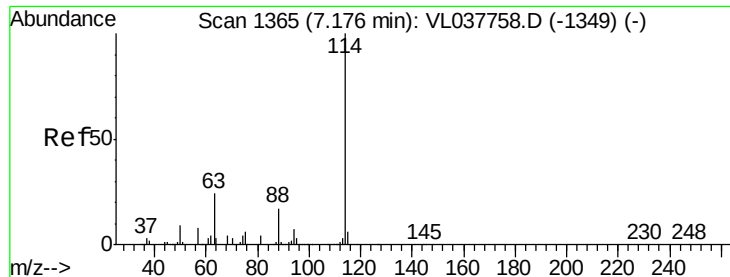
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#29
Chloroform
Concen: 0.228 ppbv m
RT: 5.73 min Scan# 916
Delta R.T. -0.02 min
Lab File: VL037775.D
Acq: 5 Oct 2021 15:59

Tgt Ion	Ratio	Lower	Upper
83	100		
85	43.0	51.8	77.8#





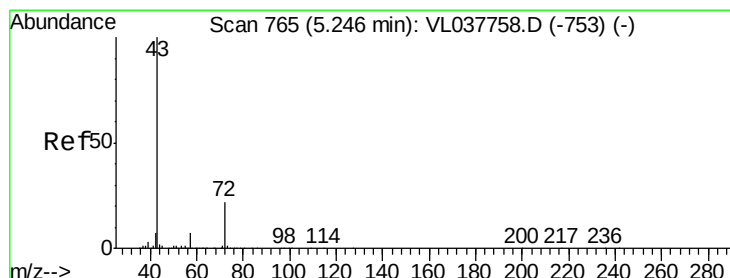
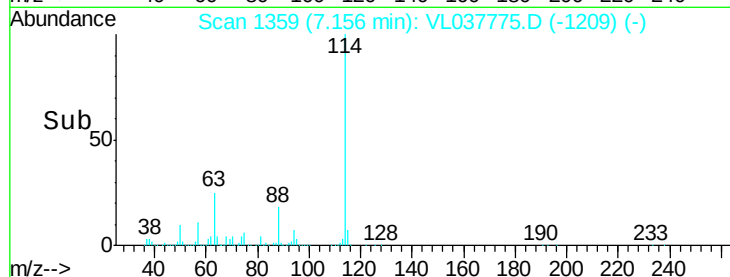
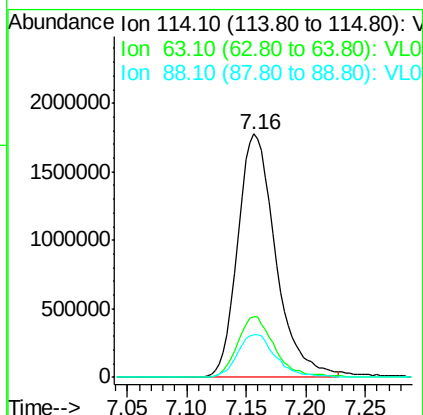
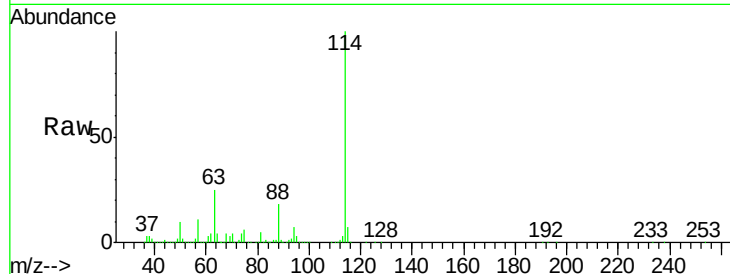
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 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.02 min
 Lab File: VL037775.D
 Acq: 5 Oct 2021 15:59

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P24

Tgt Ion: 114 Resp: 3935961
 Ion Ratio Lower Upper
 114 100
 63 24.7 19.4 29.2
 88 18.0 14.4 21.6

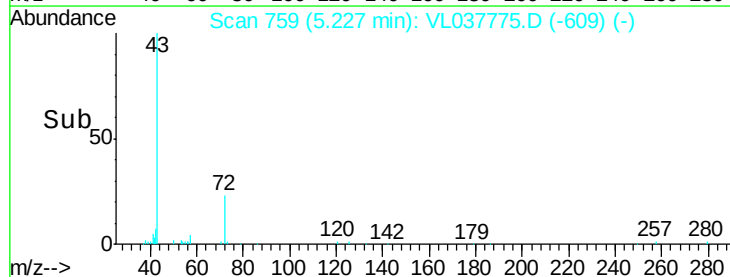
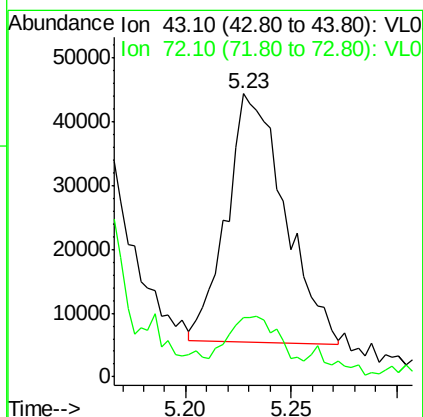
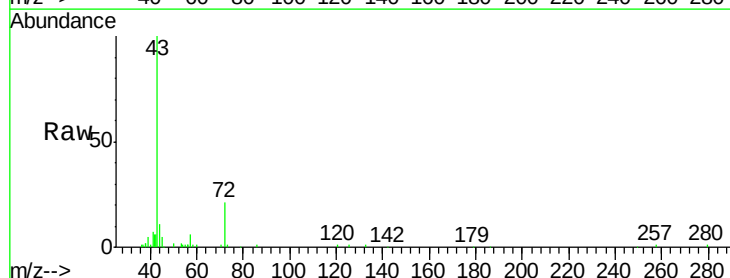
Manual Integrations
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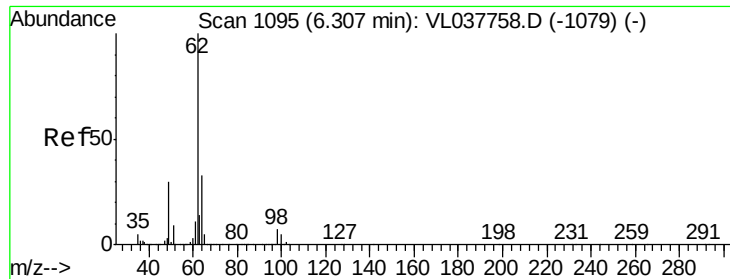
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#34
 2-Butanone
 Concen: 0.469 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. -0.02 min
 Lab File: VL037775.D
 Acq: 5 Oct 2021 15:59

Tgt Ion: 43 Resp: 74514
 Ion Ratio Lower Upper
 43 100
 72 29.3 18.2 27.2#





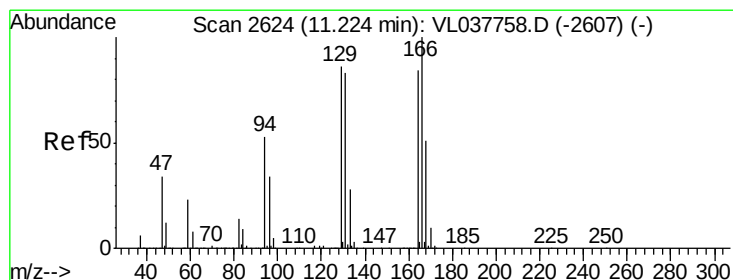
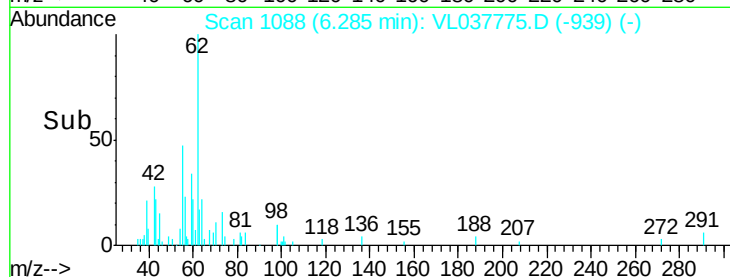
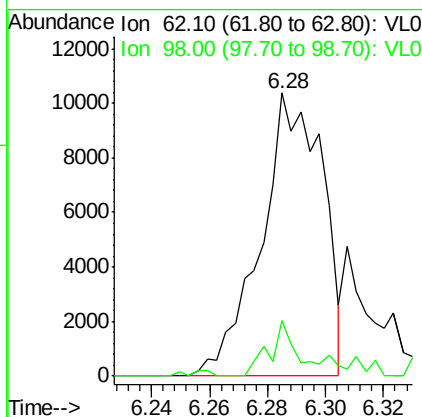
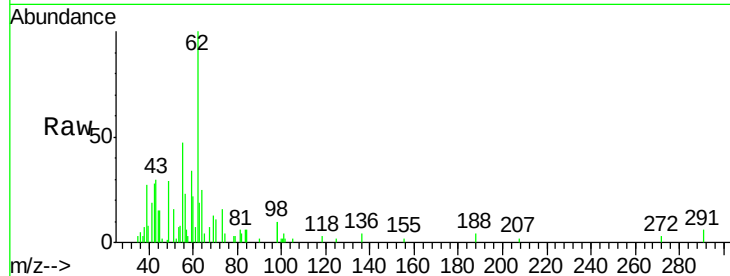
#37
 1,2-Dichloroethane
 Concen: 0.097 ppbv
 RT: 6.28 min Scan# 1088
 Delta R.T. -0.02 min
 Lab File: VL037775.D
 Acq: 5 Oct 2021 15:59

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P24

Tgt Ion	Ratio	Lower	Upper
62	100		
98	13.1	6.1	9.1#

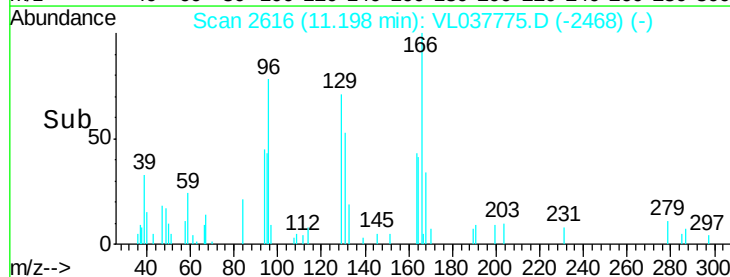
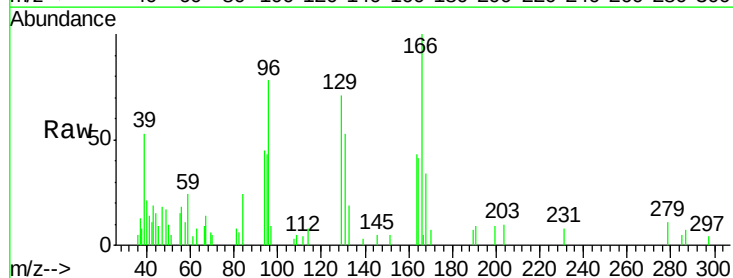
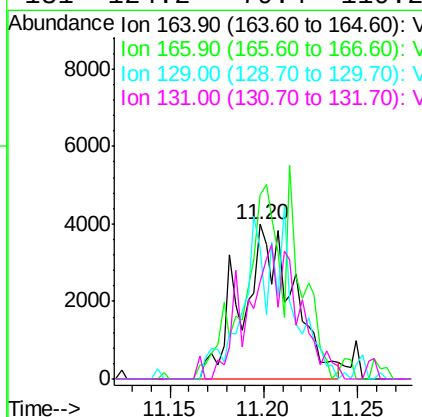
Manual Integrations
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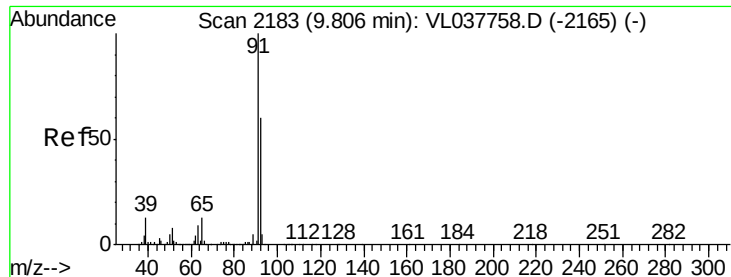
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#52
 Tetrachloroethene
 Concen: 0.058 ppbv m
 RT: 11.20 min Scan# 2616
 Delta R.T. -0.03 min
 Lab File: VL037775.D
 Acq: 5 Oct 2021 15:59

Tgt Ion	Ratio	Lower	Upper
164	100		
166	234.7	95.4	143.2#
129	165.8	82.2	123.4#
131	124.2	79.4	119.2#





#53

Toluene

Concen: 1.058 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.02 min

Lab File: VL037775.D

Acq: 5 Oct 2021 15:59

Instrument :

MSVOA_L

ClientSampled :

C0P24

Tgt Ion: 91 Resp: 394047

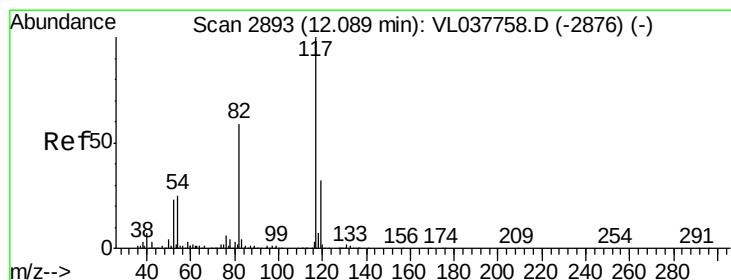
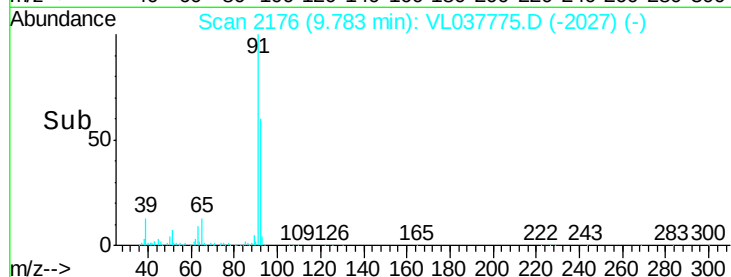
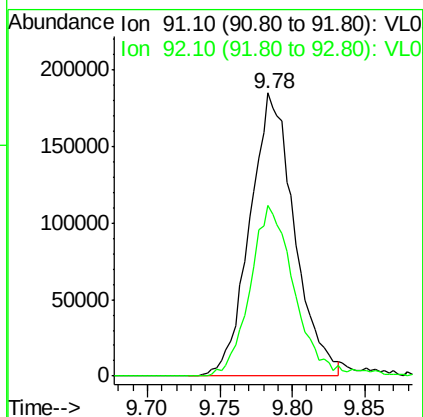
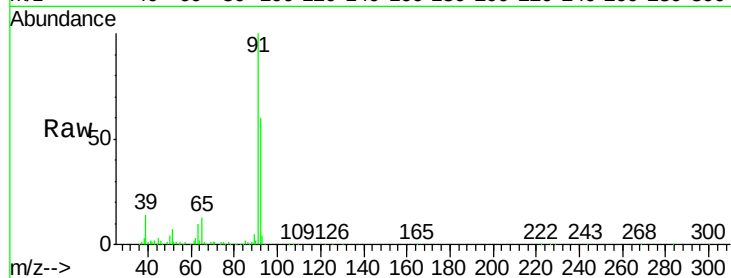
Ion Ratio Lower Upper

91 100

92 60.6 48.4 72.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.02 min

Lab File: VL037775.D

Acq: 5 Oct 2021 15:59

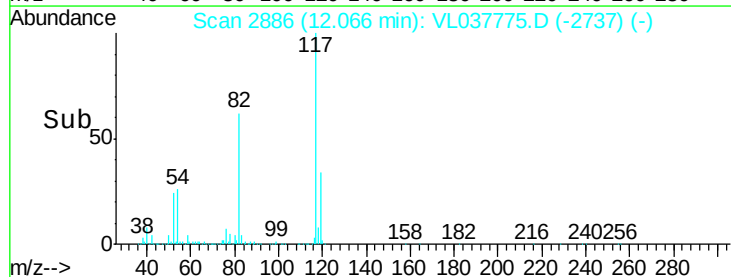
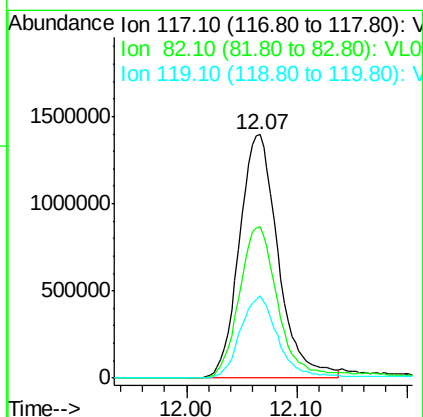
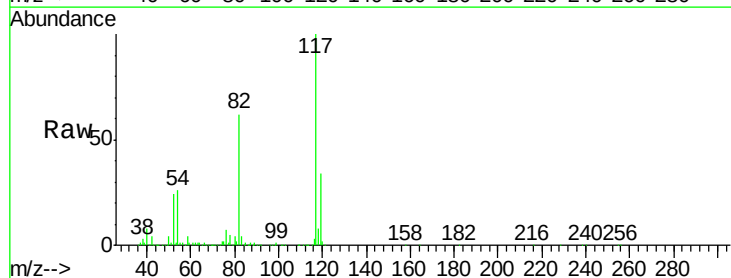
Tgt Ion: 117 Resp: 3409228

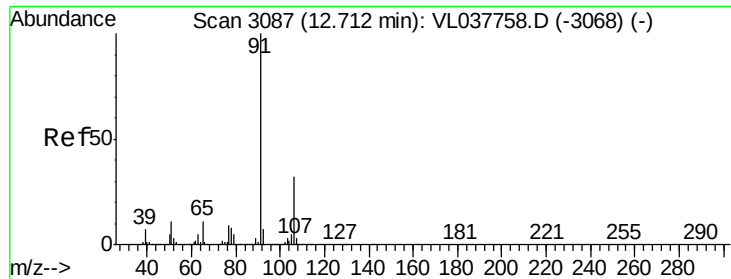
Ion Ratio Lower Upper

117 100

82 65.0 52.2 78.2

119 33.3 26.0 39.0





#58

Ethyl Benzene

Concen: 0.143 ppbv m

RT: 12.69 min Scan# 3080

Delta R.T. -0.02 min

Lab File: VL037775.D

Acq: 5 Oct 2021 15:59

Instrument :

MSVOA_L

ClientSampleId :

C0P24

Tgt Ion: 91 Resp: 65597

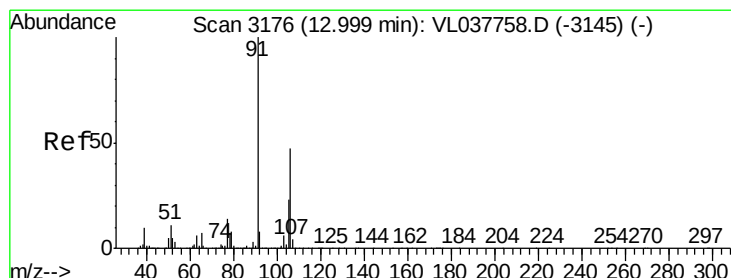
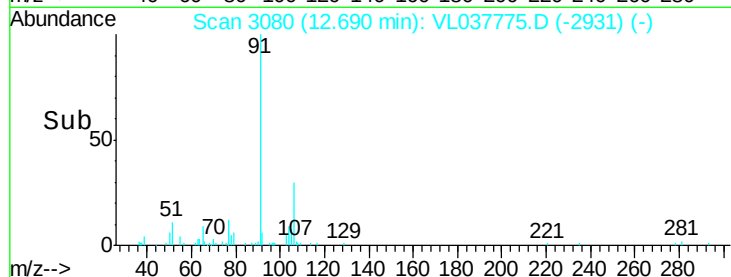
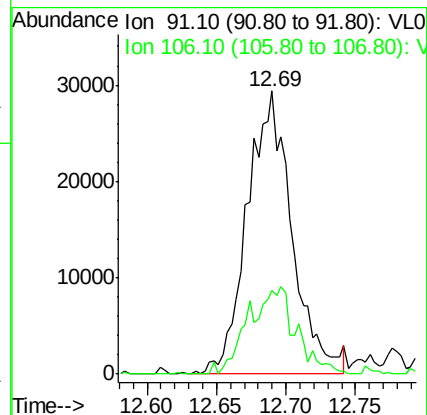
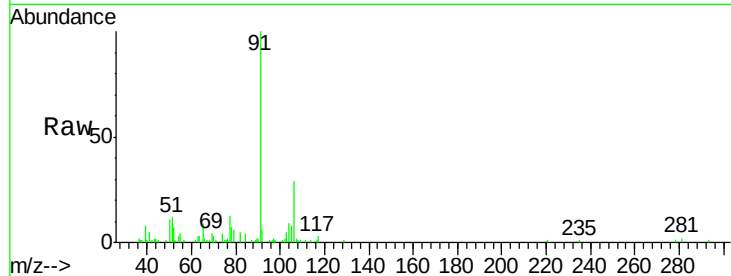
Ion Ratio Lower Upper

91 100

106 29.4 25.3 37.9

Manual Integrations
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#59

m/p-Xylene

Concen: 0.366 ppbv m

RT: 12.95 min Scan# 3160

Delta R.T. -0.05 min

Lab File: VL037775.D

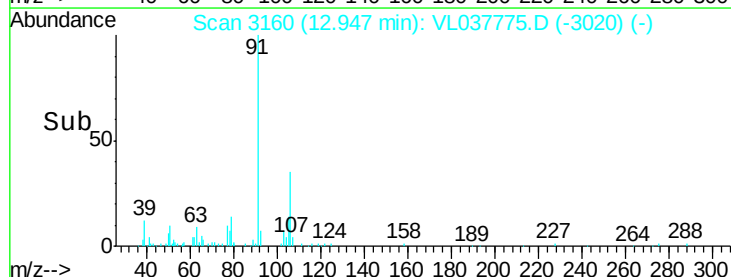
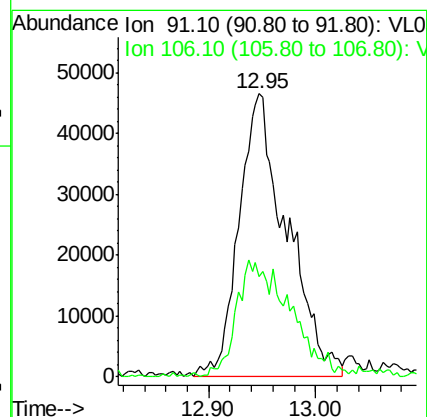
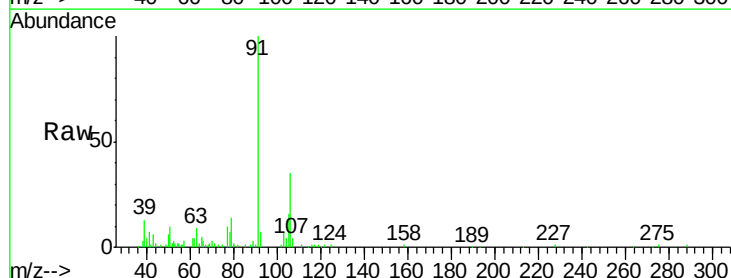
Acq: 5 Oct 2021 15:59

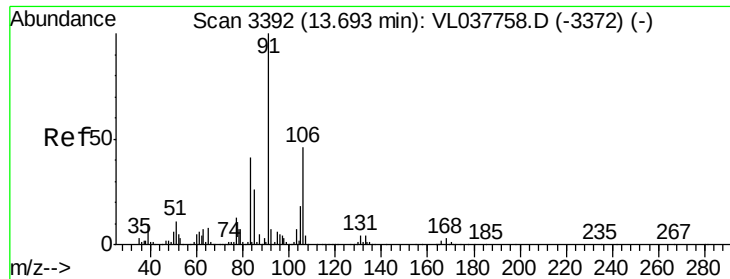
Tgt Ion: 91 Resp: 143916

Ion Ratio Lower Upper

91 100

106 0.0 36.7 55.1#





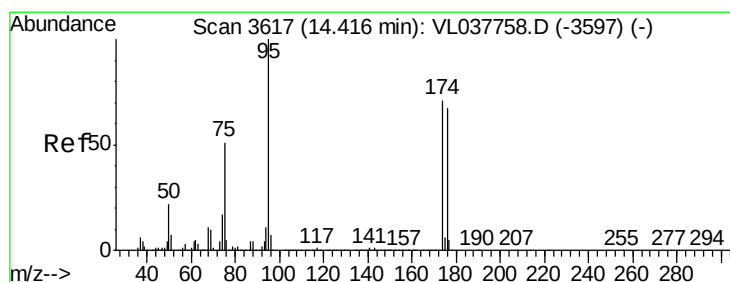
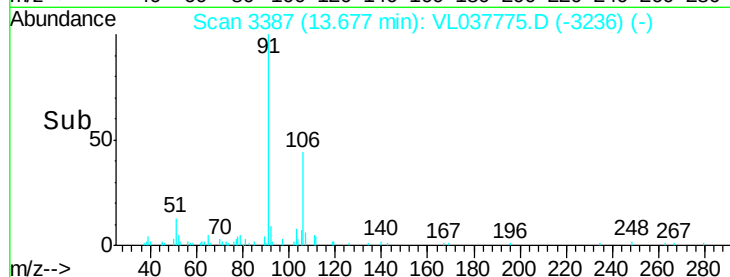
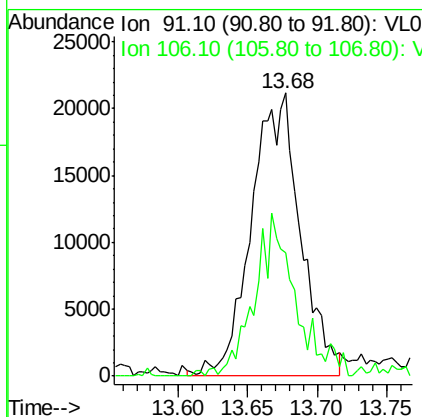
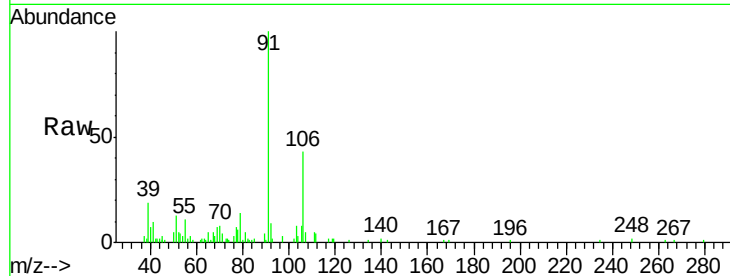
#60
o-Xylene
Concen: 0.138 ppbv m
RT: 13.68 min Scan# 3387
Delta R.T. -0.02 min
Lab File: VL037775.D
Acq: 5 Oct 2021 15:59

Instrument :
MSVOA_L
ClientSampled :
C0P24

Tgt Ion: 91 Resp: 51836
Ion Ratio Lower Upper
91 100
106 48.6 23.5 70.5

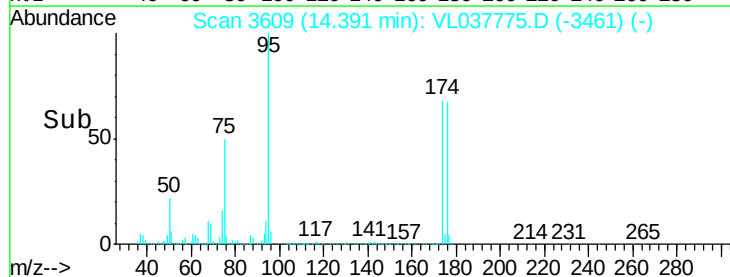
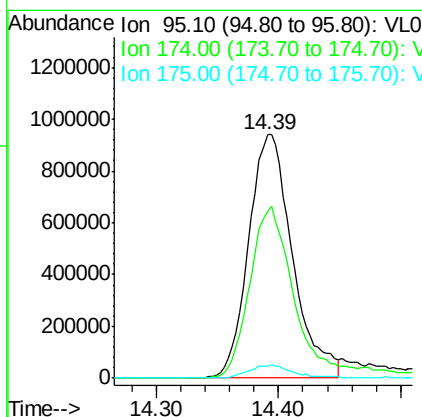
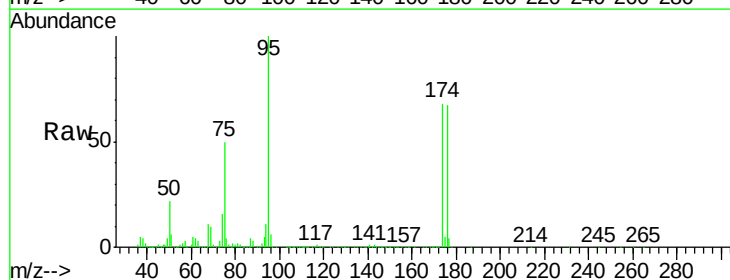
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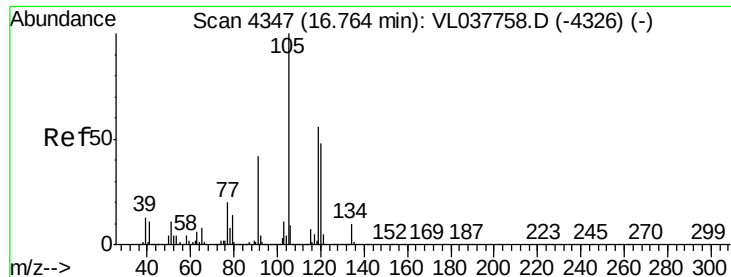
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.800 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.03 min
Lab File: VL037775.D
Acq: 5 Oct 2021 15:59

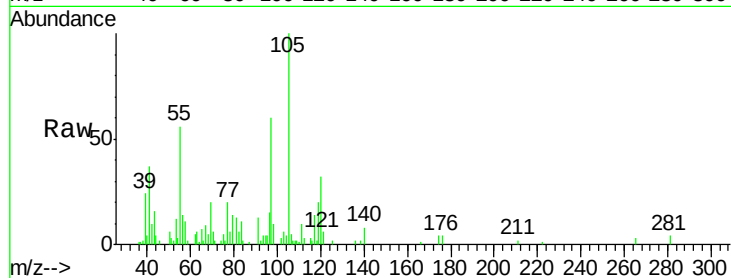
Tgt Ion: 95 Resp: 2336356
Ion Ratio Lower Upper
95 100
174 76.9 57.8 86.6
175 5.4 4.7 7.1





#74
 1,2,4-Trimethylbenzene
 Concen: 0.099 ppbv m
 RT: 16.74 min Scan# 4341
 Delta R.T. -0.02 min
 Lab File: VL037775.D
 Acq: 5 Oct 2021 15:59

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P24



Tgt Ion	Ratio	Resp Lower	Resp Upper
105	100		
120	31.9	38.4	57.6#
91	13.2	34.2	51.2#
77	20.1	15.8	23.8

Manual Integrations
 APPROVED

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