

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062921\
 Data File : VL037261.D
 Acq On : 29 Jun 2021 22:49
 Operator : SY/AP
 Sample : M2887-04 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-4

Manual Integrations
 APPROVED

MMDadoda
 7/5/2021 3:39:02 PM

Quant Time: Jun 30 10:09:15 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 1
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1657126	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	4800272	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	4440682	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	3336200	9.91	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	4667148	45.300	ppbv	95
10) Heptane	8.11	43	399445	1.601	ppbv	98
13) Ethanol	3.61	45	163342	10.249	ppbv	51
15) Acetone	3.84	43	5479906	29.325	ppbv	99
17) tert-Butyl alcohol	4.30	59	105943	0.613	ppbv #	71
19) Isopropyl Alcohol	3.98	45	94026	0.831	ppbv #	91
20) Methylene Chloride	4.34	84	2050762	18.331	ppbv	98
26) Hexane	5.68	57	1710199	8.364	ppbv #	45
30) Cyclohexane	7.12	84	76271m	0.448	ppbv	
34) 2-Butanone	5.24	43	3429342	18.369	ppbv	100
36) Benzene	6.88	78	535503	1.380	ppbv	98
51) 2-Hexanone	10.13	43	581137m	4.658	ppbv	
53) Toluene	9.80	91	666648	1.438	ppbv	98
58) Ethyl Benzene	12.70	91	141870	0.232	ppbv	90
59) m/p-Xylene	12.96	91	311580	0.601	ppbv	97
60) o-Xylene	13.68	91	117748m	0.239	ppbv	
61) Styrene	13.52	104	31805m	0.125	ppbv	
69) p-Isopropyltoluene	17.64	119	267106m	0.381	ppbv	
73) 1,3,5-Trimethylbenzene	15.99	105	68637m	0.127	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	167034	0.299	ppbv #	69

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

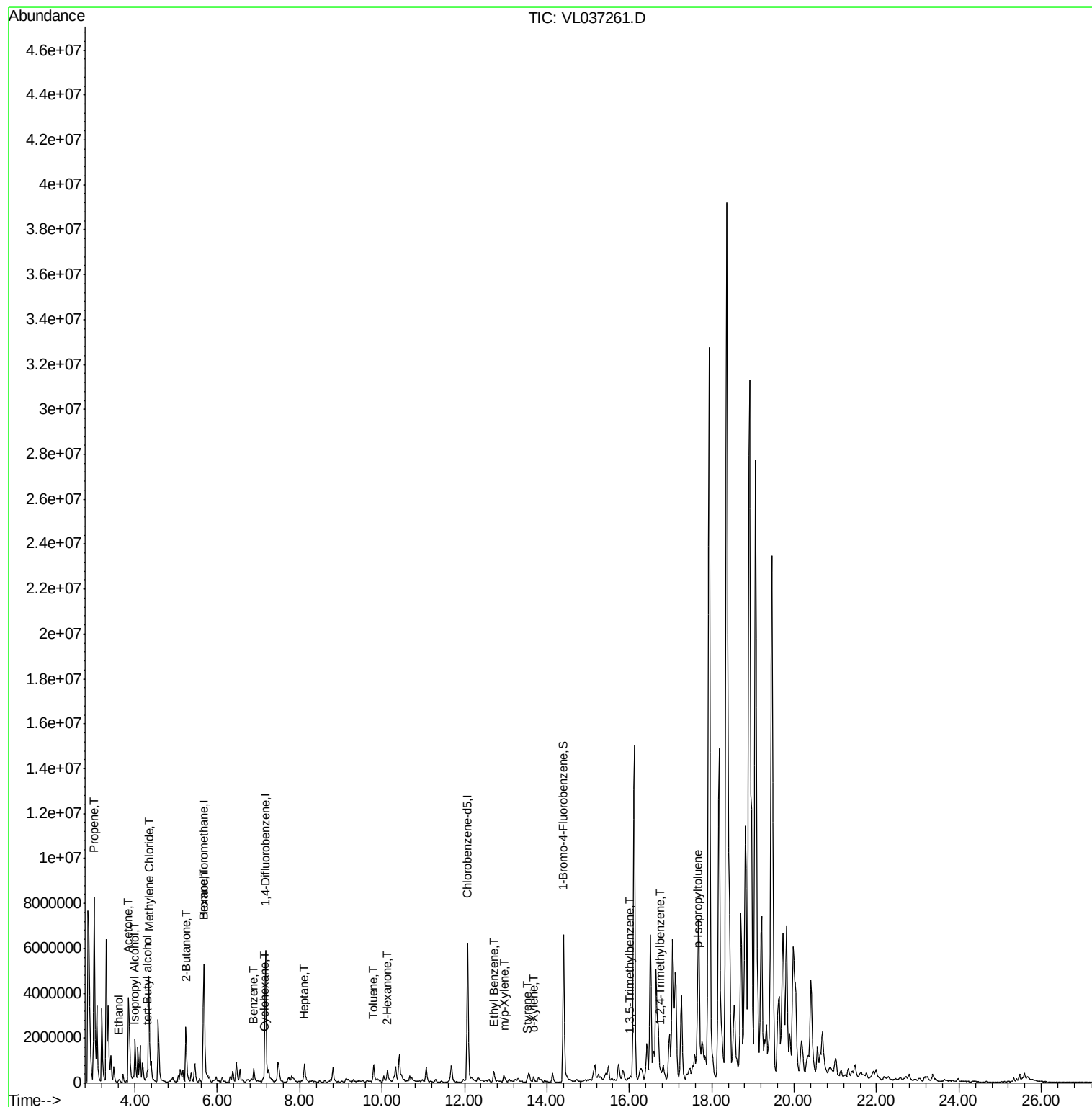
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062921\
Data File : VL037261.D
Acq On : 29 Jun 2021 22:49
Operator : SY/AP
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

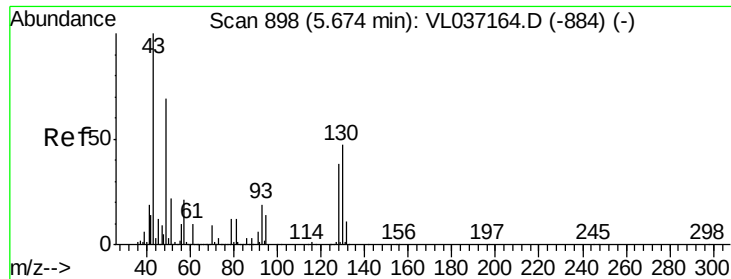
Instrument :
MSVOA_L
ClientSampleId :
SV-4

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Quant Time: Jun 30 10:09:15 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun
QLast Update : Wed Jun 16 14:06:32 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL037261.D

Acq: 29 Jun 2021 22:49

Instrument :

MSVOA_L

ClientSampled :

SV-4

Tot Ion: 49 Resp: 1657126

Ion Ratio Lower Upper

49 100

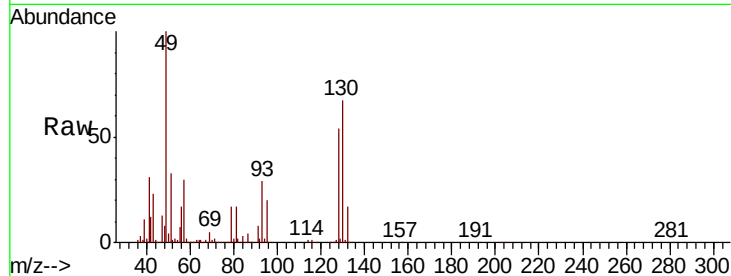
128 55.6 29.3 88.0

130 69.9 35.9 107.8

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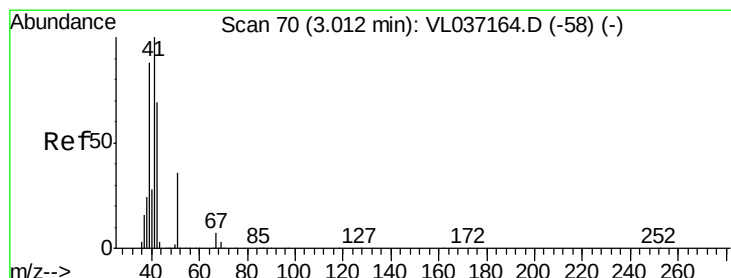
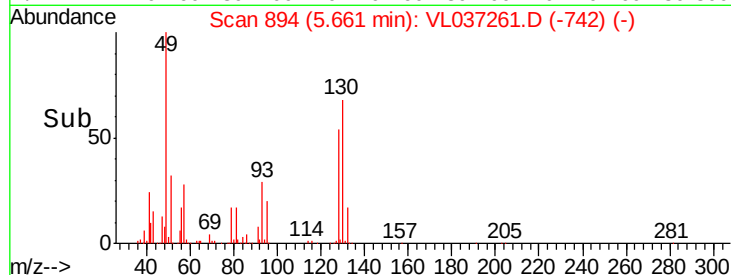
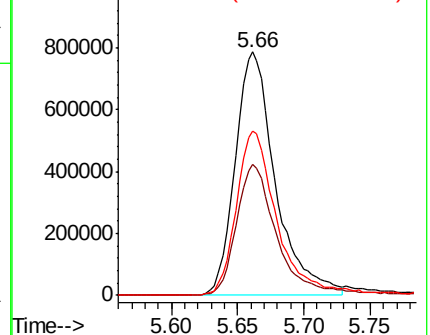
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#9

Propene

Concen: 45.300 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL037261.D

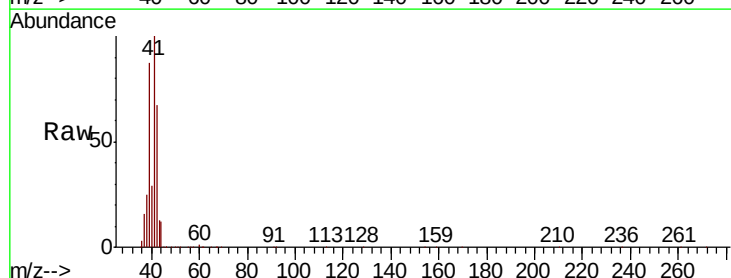
Acq: 29 Jun 2021 22:49

Tgt Ion: 41 Resp: 4667148

Ion Ratio Lower Upper

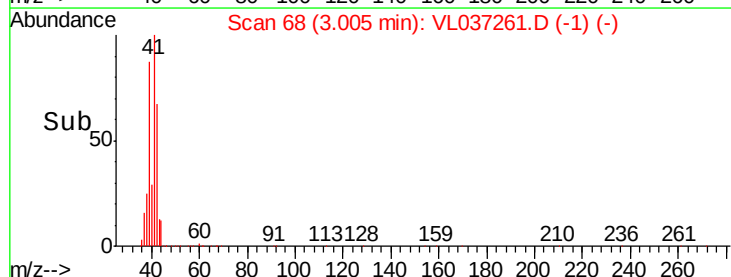
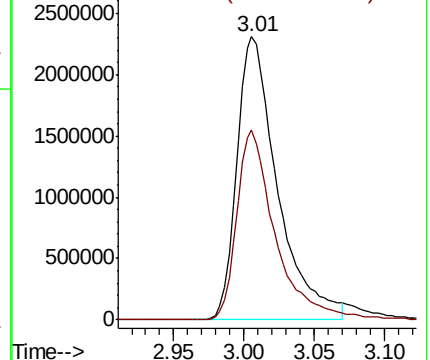
41 100

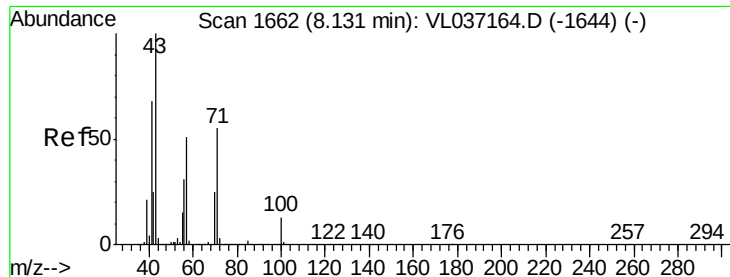
42 64.0 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





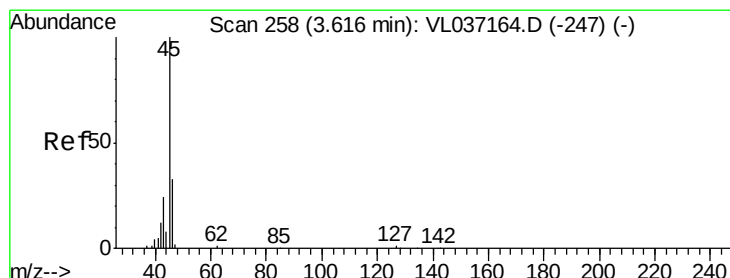
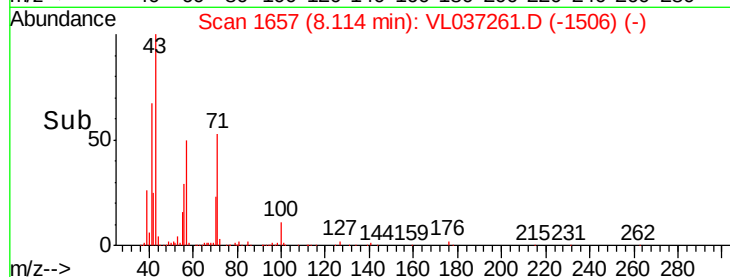
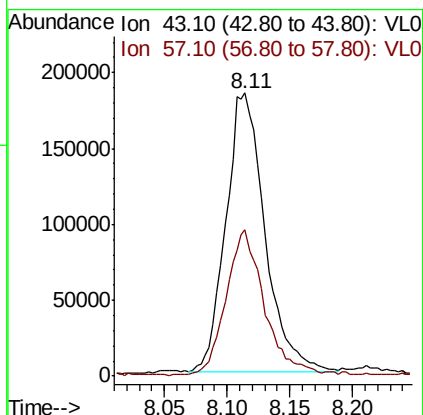
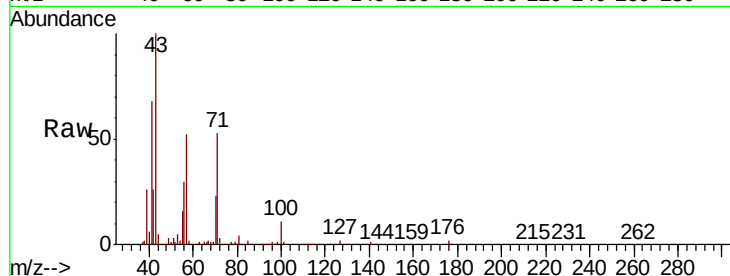
#10
Heptane
Concen: 1.601 ppbv
RT: 8.11 min Scan# 1657
Delta R.T. -0.02 min
Lab File: VL037261.D
Acq: 29 Jun 2021 22:49

Instrument :
MSVOA_L
ClientSampled :
SV-4

Tot Ion: 43 Resp: 399445
Ion Ratio Lower Upper
43 100
57 52.0 40.6 61.0

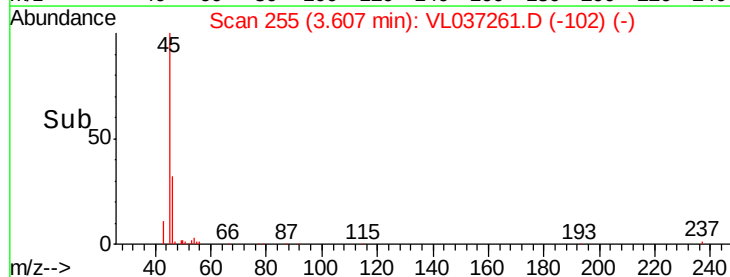
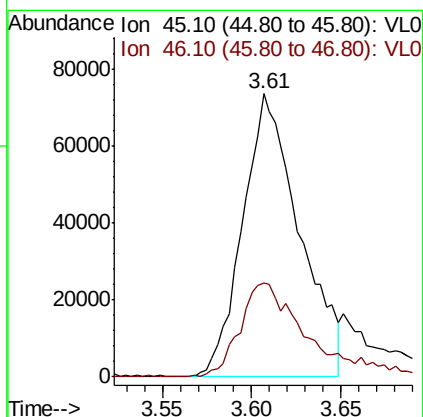
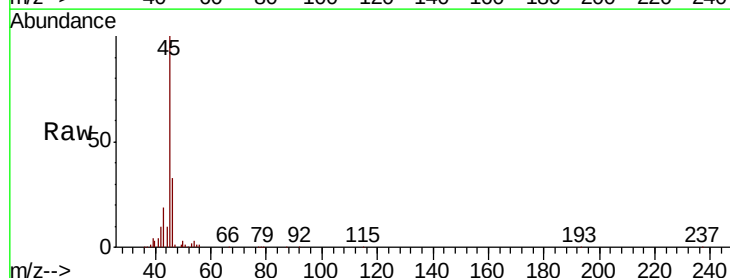
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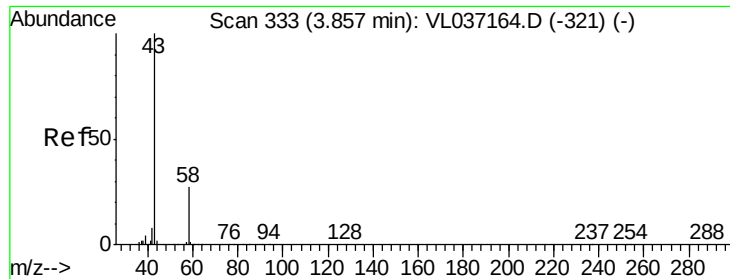
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#13
Ethanol
Concen: 10.249 ppbv
RT: 3.61 min Scan# 255
Delta R.T. -0.01 min
Lab File: VL037261.D
Acq: 29 Jun 2021 22:49

Tgt Ion: 45 Resp: 163342
Ion Ratio Lower Upper
45 100
46 40.9 34.2 137.0





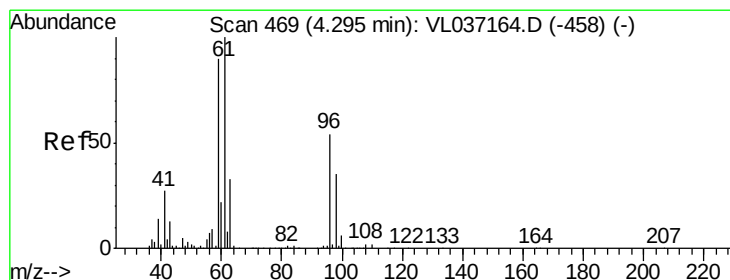
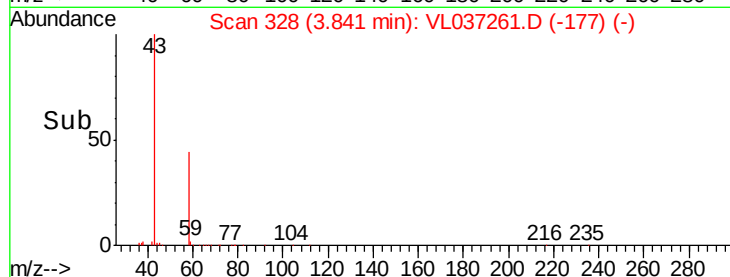
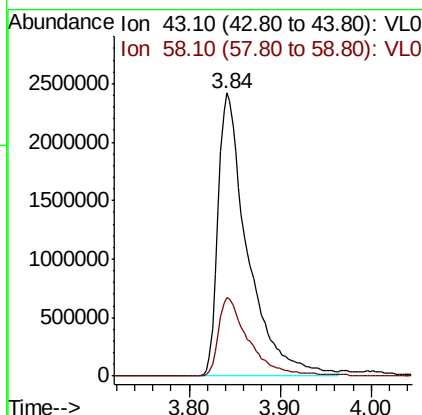
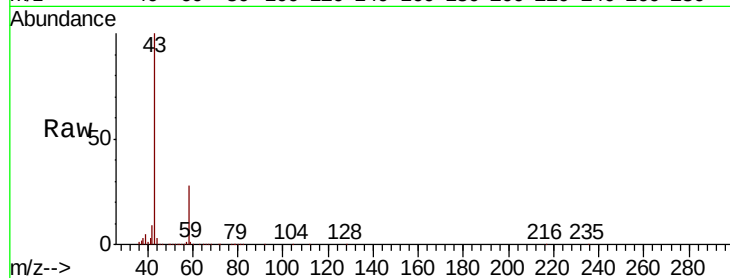
#15
Acetone
Concen: 29.325 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.02 min
Lab File: VL037261.D
Acq: 29 Jun 2021 22:49

Instrument :
MSVOA_L
ClientSampled :
SV-4

Tot Ion: 43 Resp: 5479906
Ion Ratio Lower Upper
43 100
58 29.3 23.7 35.5

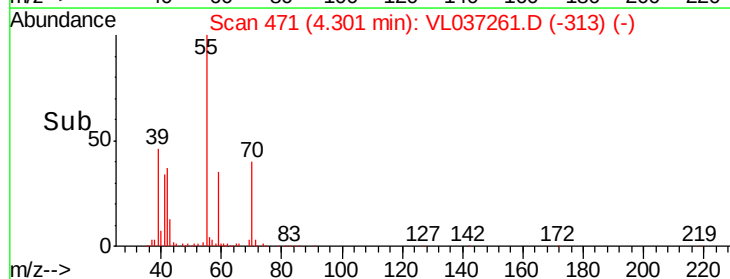
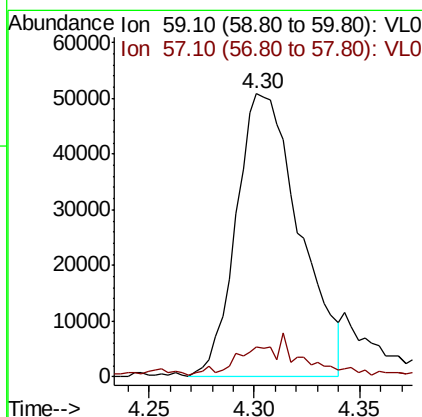
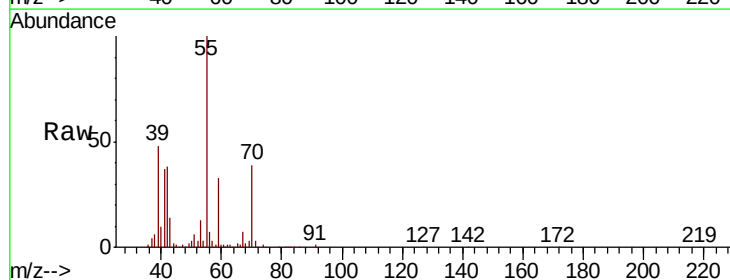
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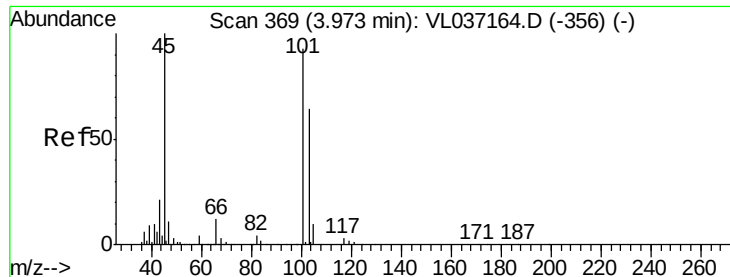
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#17
tert-Butyl alcohol
Concen: 0.613 ppbv
RT: 4.30 min Scan# 471
Delta R.T. 0.01 min
Lab File: VL037261.D
Acq: 29 Jun 2021 22:49

Tgt Ion: 59 Resp: 105943
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#





#19

Isopropyl Alcohol

Concen: 0.831 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.00 min

Lab File: VL037261.D

Acq: 29 Jun 2021 22:49

Instrument :

MSVOA_L

ClientSampled :

SV-4

Tot Ion: 45 Resp: 94026

Ion Ratio Lower Upper

45 100

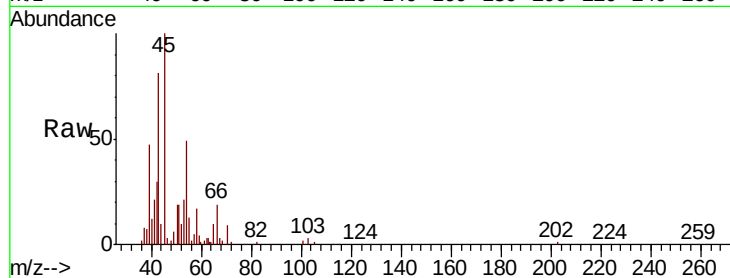
58 0.0 2.4 3.6#

Manual Integrations

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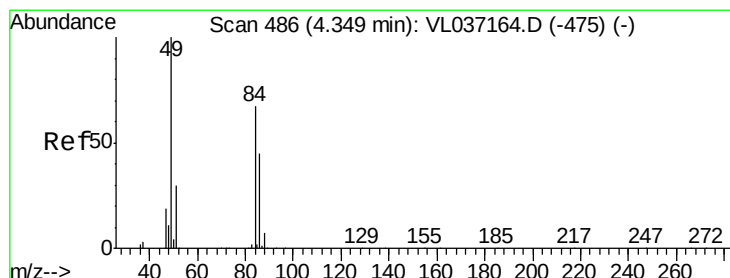
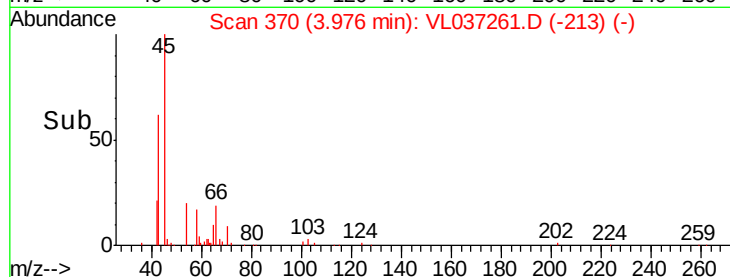
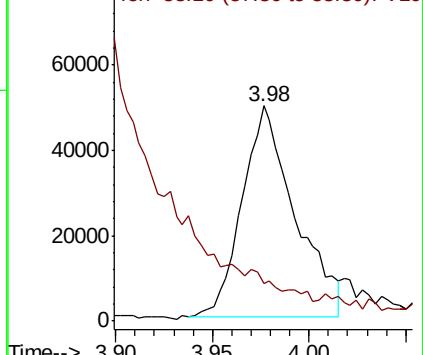
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 18.331 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL037261.D

Acq: 29 Jun 2021 22:49

Tgt Ion: 84 Resp: 2050762

Ion Ratio Lower Upper

84 100

49 147.2 119.7 179.5

51 44.9 36.1 54.1

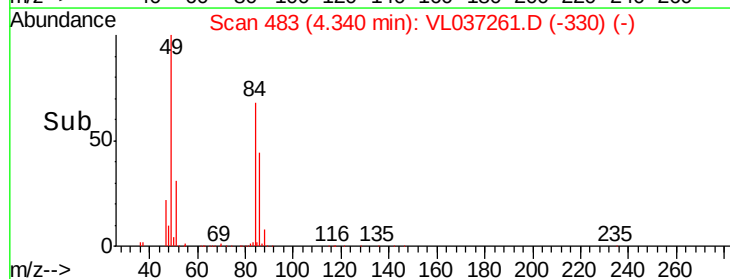
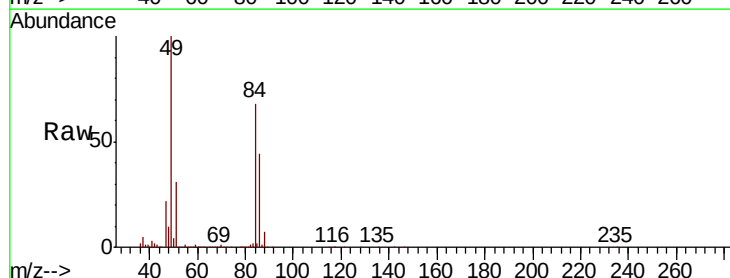
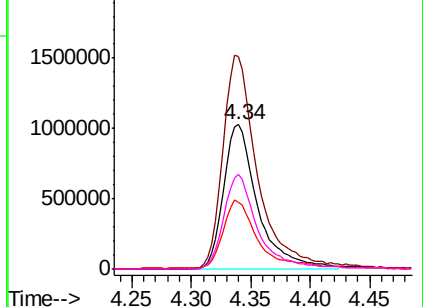
86 65.5 53.7 80.5

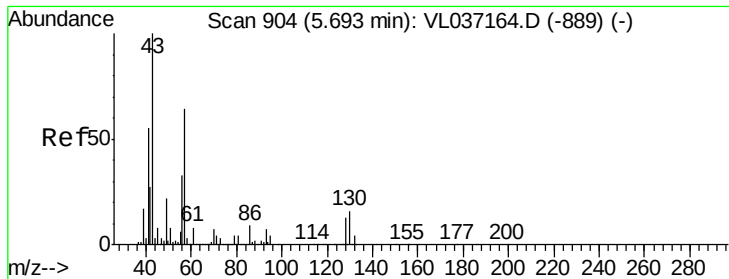
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





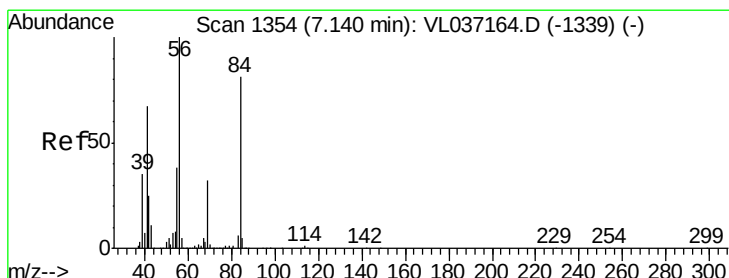
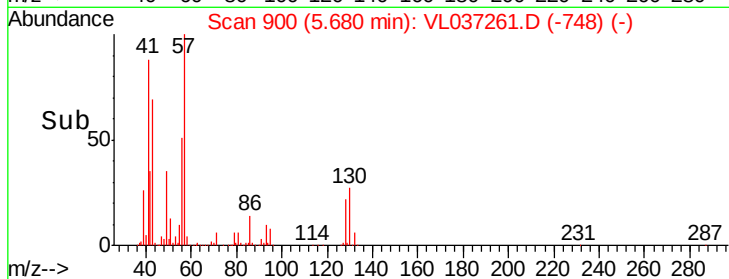
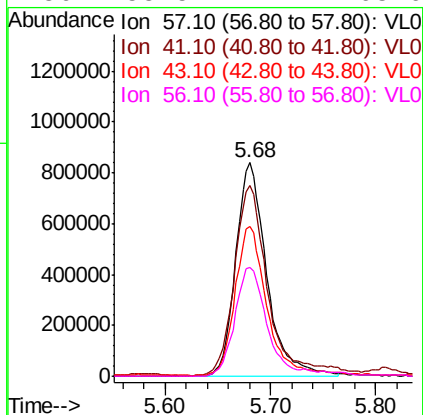
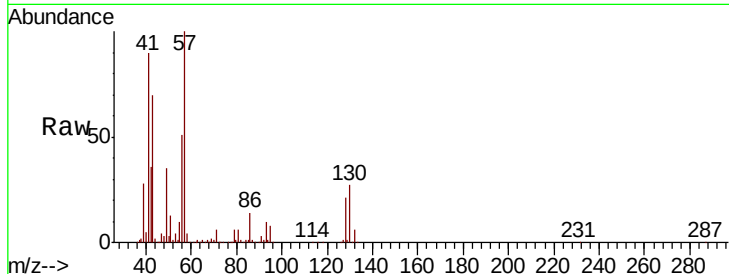
#26
Hexane
Concen: 8.364 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL037261.D
Acq: 29 Jun 2021 22:49

Instrument :
MSVOA_L
ClientSampleId :
SV-4

Tot Ion: 57 Resp: 1710199
Ion Ratio Lower Upper
57 100
41 97.7 73.5 110.3
43 73.1 170.7 256.1#
56 55.5 42.4 63.6

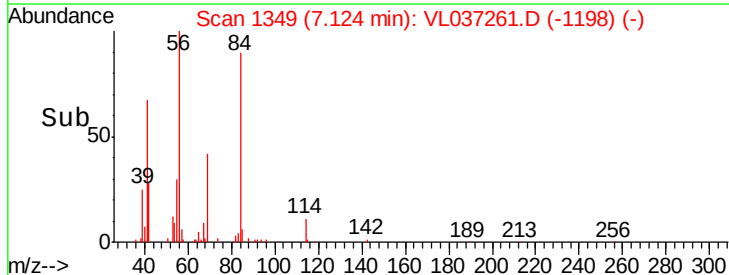
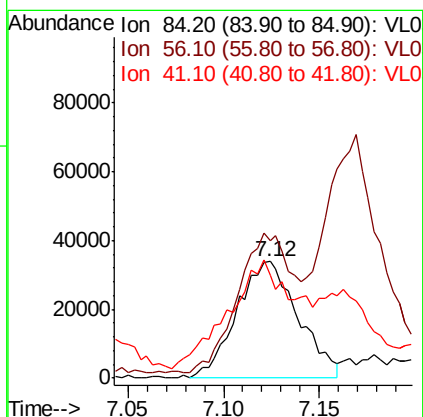
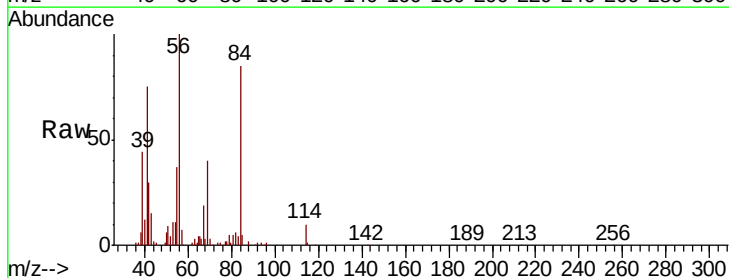
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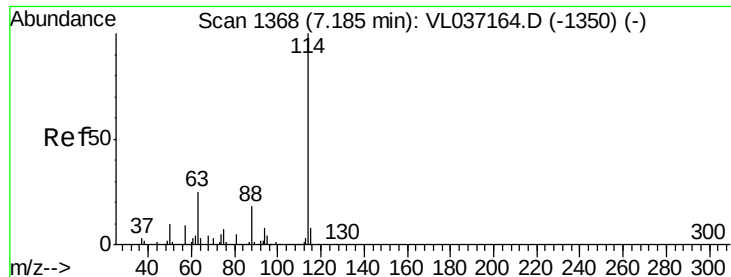
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#30
Cyclohexane
Concen: 0.448 ppbv m
RT: 7.12 min Scan# 1349
Delta R.T. -0.02 min
Lab File: VL037261.D
Acq: 29 Jun 2021 22:49

Tgt Ion: 84 Resp: 76271
Ion Ratio Lower Upper
84 100
56 101.3 107.7 161.5#
41 103.4 69.0 103.6





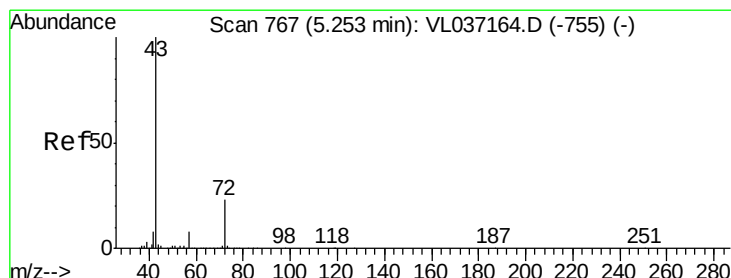
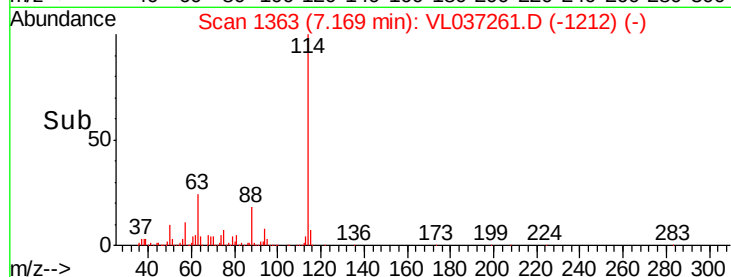
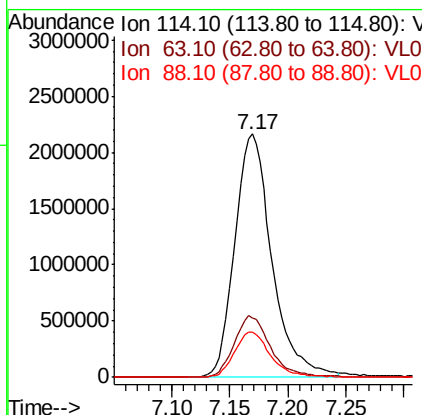
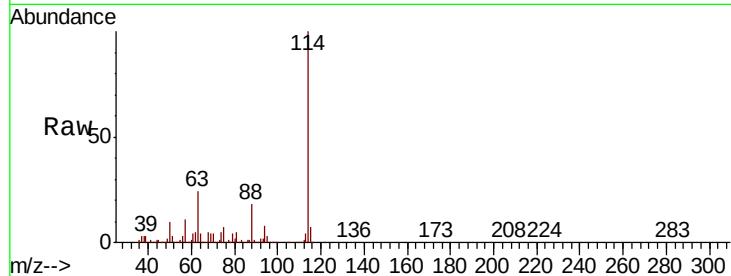
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 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.02 min
 Lab File: VL037261.D
 Acq: 29 Jun 2021 22:49

Instrument :
 MSVOA_L
 ClientSampled :
 SV-4

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.3	19.6	29.4
88	18.5	14.2	21.2

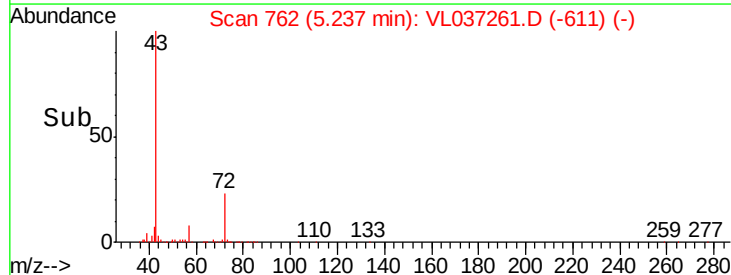
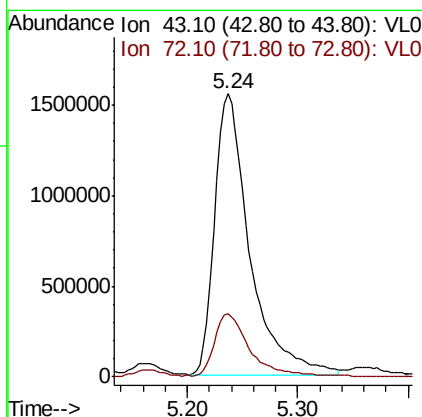
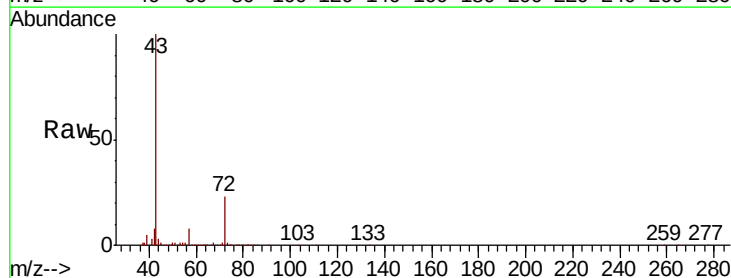
Manual Integrations
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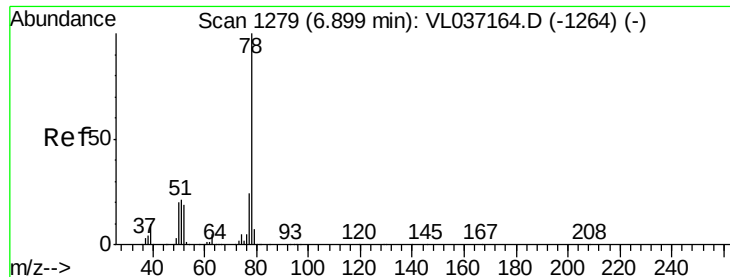
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#34
 2-Butanone
 Concen: 18.369 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. -0.02 min
 Lab File: VL037261.D
 Acq: 29 Jun 2021 22:49

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.4	18.9	28.3





#36

Benzene

Concen: 1.380 ppbv

RT: 6.88 min Scan# 1274

Delta R.T. -0.02 min

Lab File: VL037261.D

Acq: 29 Jun 2021 22:49

Instrument :

MSVOA_L

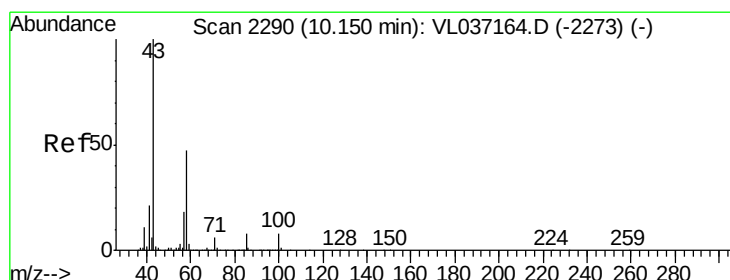
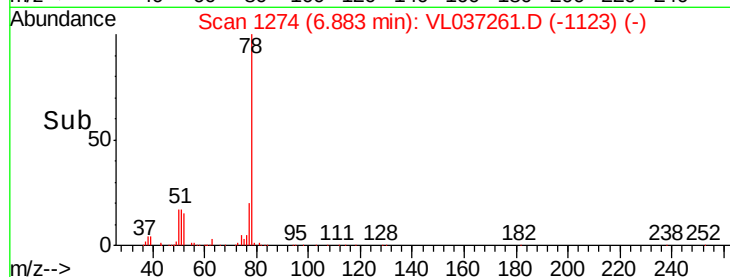
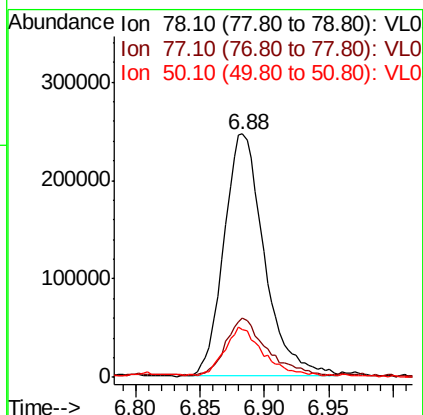
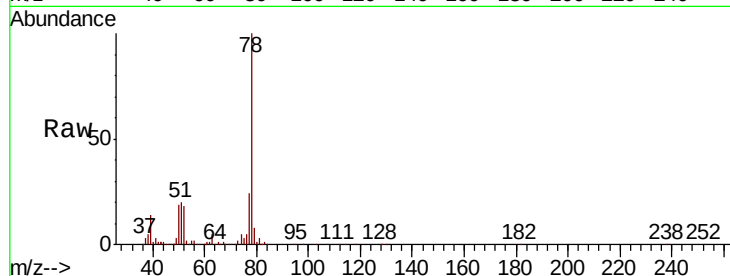
ClientSampled :

SV-4

Tot Ion:	78	Resp:	535503
Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.0	28.6
50	18.7	15.7	23.5

Manual Integrations
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#51

2-Hexanone

Concen: 4.658 ppbv m

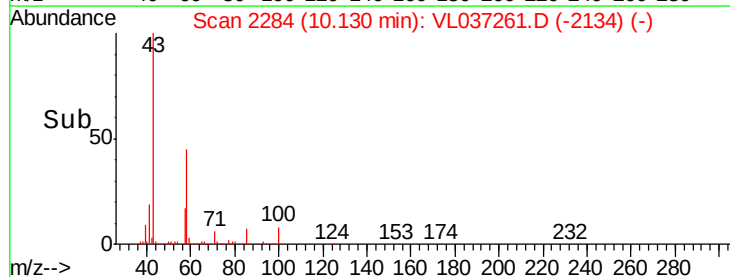
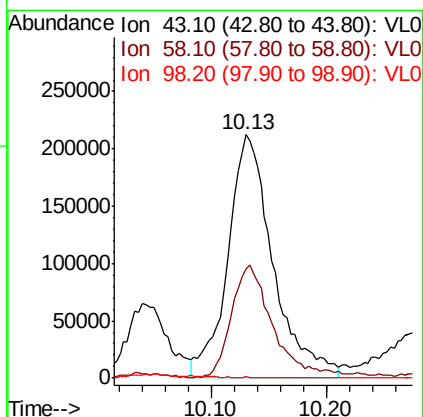
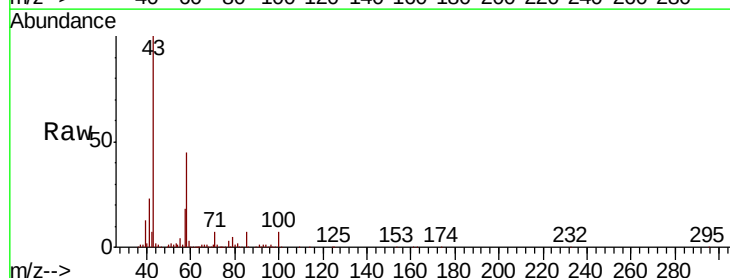
RT: 10.13 min Scan# 2284

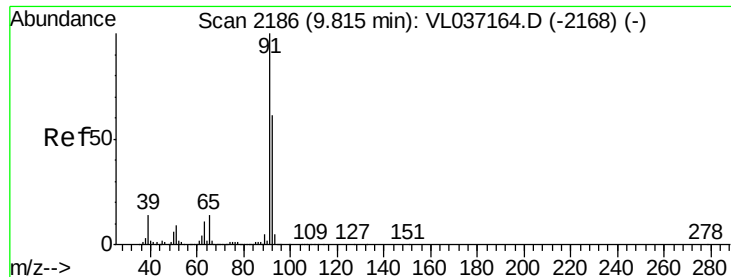
Delta R.T. -0.02 min

Lab File: VL037261.D

Acq: 29 Jun 2021 22:49

Tgt Ion:	43	Resp:	581137
Ion	Ratio	Lower	Upper
43	100		
58	43.0	38.4	57.6
98	0.0	0.3	0.5#





#53

Toluene

Concen: 1.438 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.02 min

Lab File: VL037261.D

Acq: 29 Jun 2021 22:49

Instrument :

MSVOA_L

ClientSampled :

SV-4

Tot Ion: 91 Resp: 666648

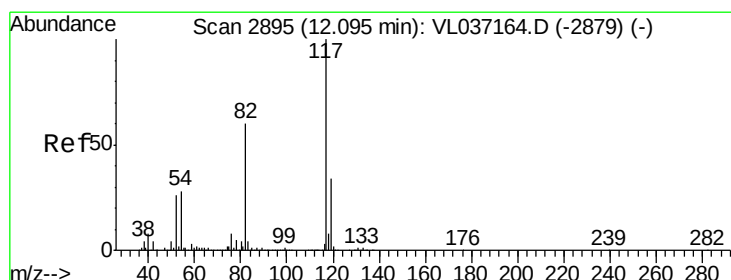
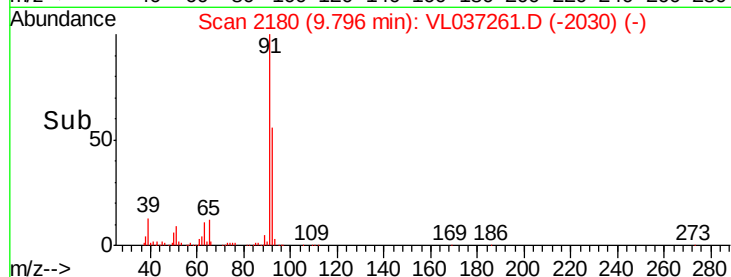
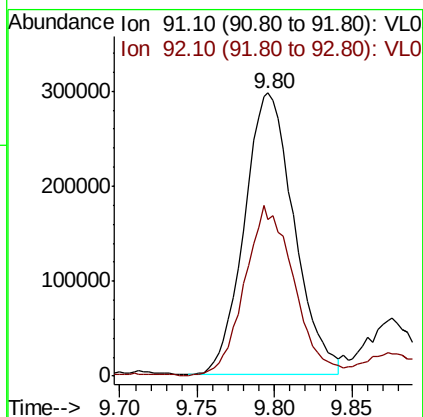
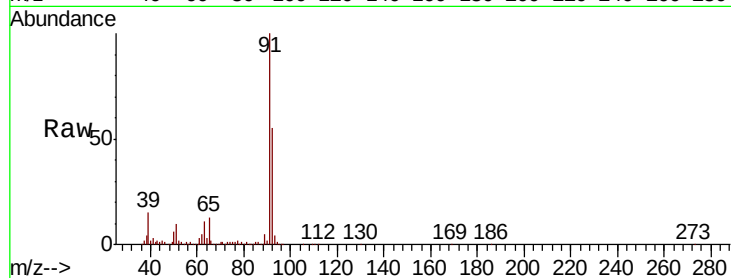
Ion Ratio Lower Upper

91 100

92 59.2 48.3 72.5

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.02 min

Lab File: VL037261.D

Acq: 29 Jun 2021 22:49

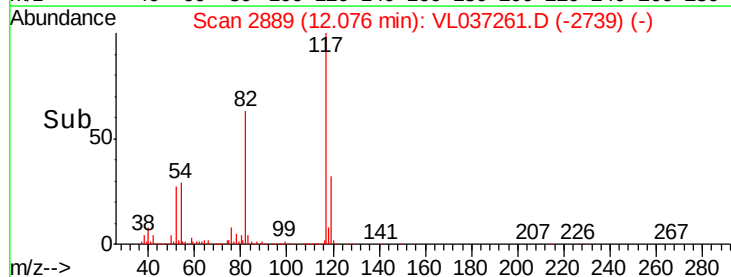
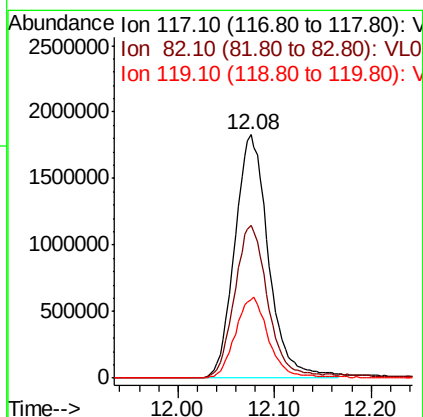
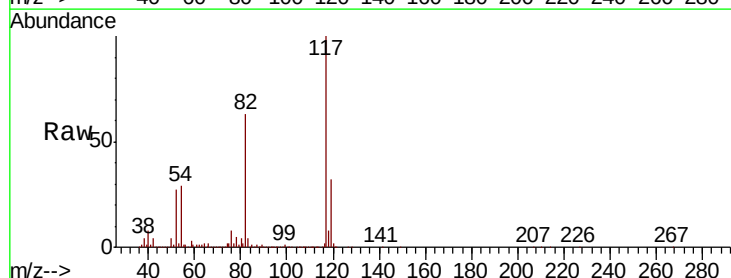
Tgt Ion: 117 Resp: 4440682

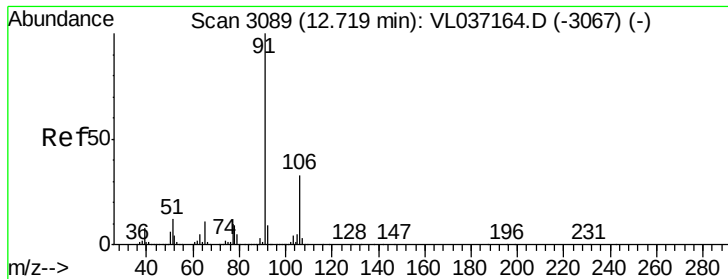
Ion Ratio Lower Upper

117 100

82 64.5 51.7 77.5

119 33.6 47.6 71.4#





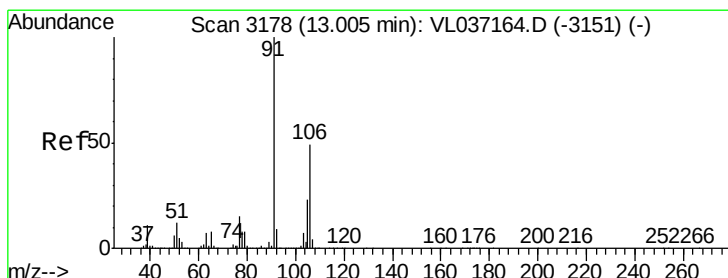
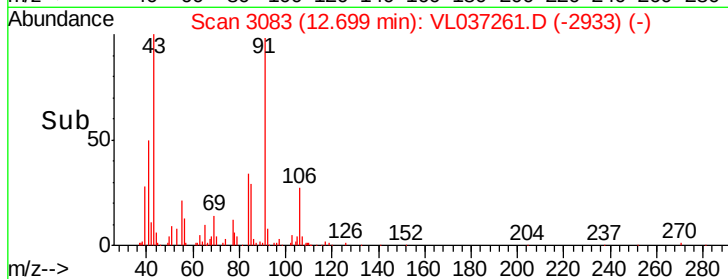
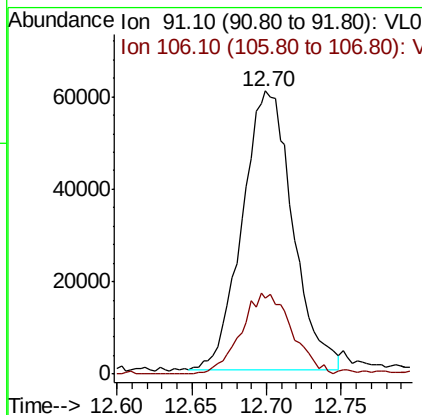
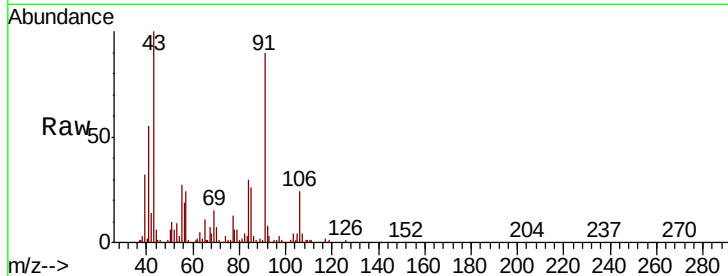
#58
Ethyl Benzene
Concen: 0.232 ppbv
RT: 12.70 min Scan# 3083
Delta R.T. -0.02 min
Lab File: VL037261.D
Acq: 29 Jun 2021 22:49

Instrument :
MSVOA_L
ClientSampleId :
SV-4

Tot Ion: 91 Resp: 141870
Ion Ratio Lower Upper
91 100
106 27.5 26.3 39.5

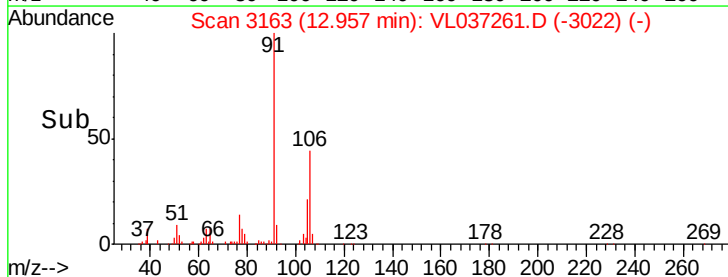
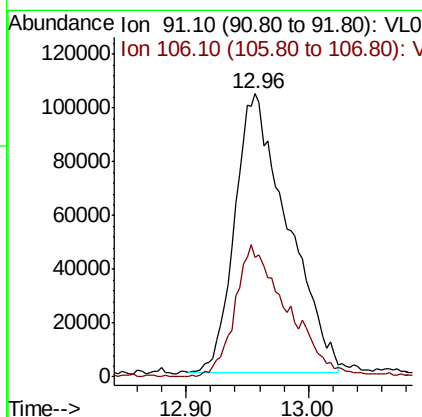
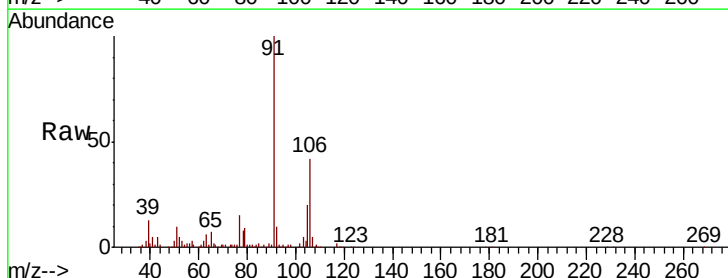
Manual Integrations
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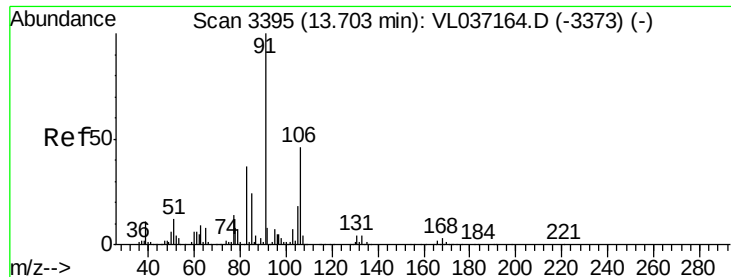
MMDadoda
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#59
m/p-Xylene
Concen: 0.601 ppbv
RT: 12.96 min Scan# 3163
Delta R.T. -0.05 min
Lab File: VL037261.D
Acq: 29 Jun 2021 22:49

Tgt Ion: 91 Resp: 311580
Ion Ratio Lower Upper
91 100
106 48.0 37.0 55.4





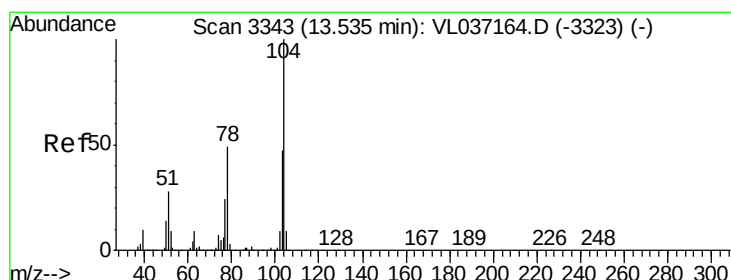
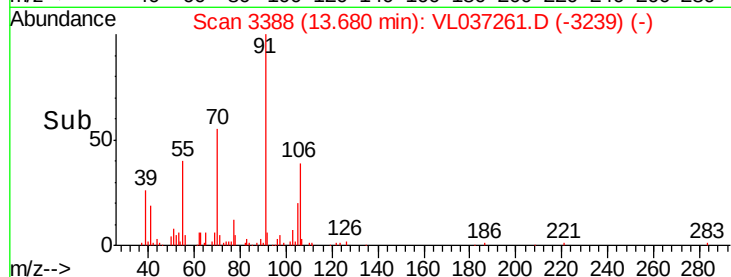
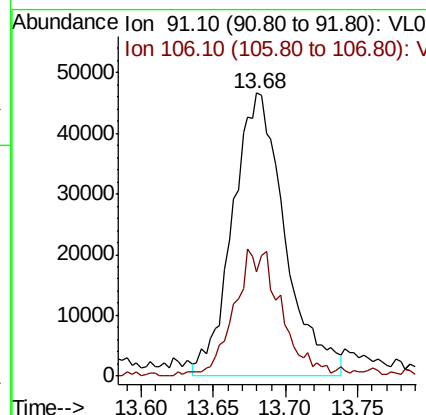
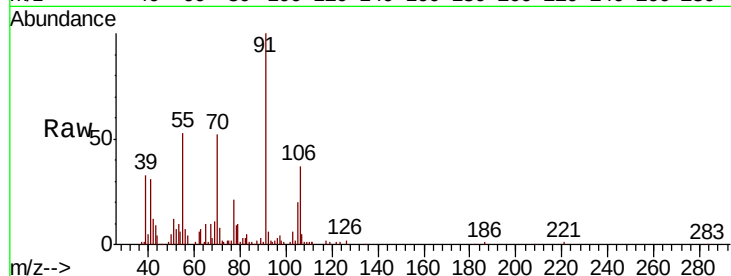
#60
o-Xylene
Concen: 0.239 ppbv m
RT: 13.68 min Scan# 3388
Delta R.T. -0.02 min
Lab File: VL037261.D
Acq: 29 Jun 2021 22:49

Instrument :
MSVOA_L
ClientSampled :
SV-4

Tot Ion: 91 Resp: 117748
Ion Ratio Lower Upper
91 100
106 40.4 23.0 69.0

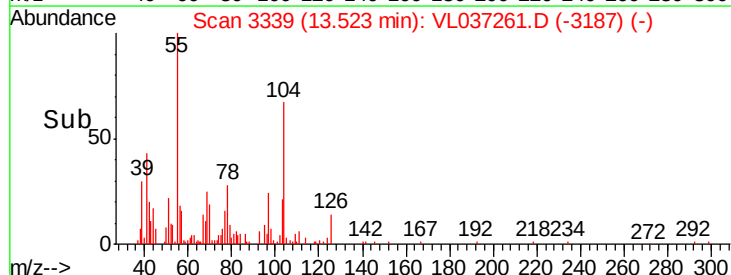
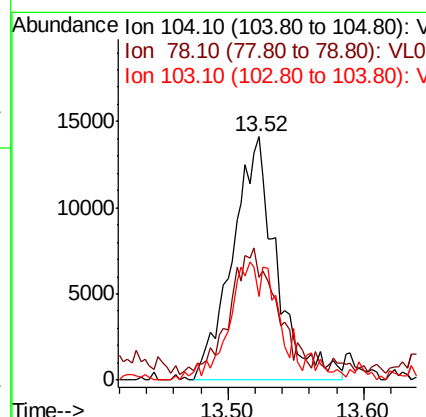
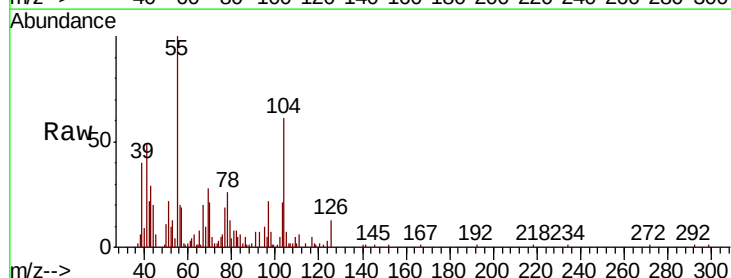
Manual Integrations
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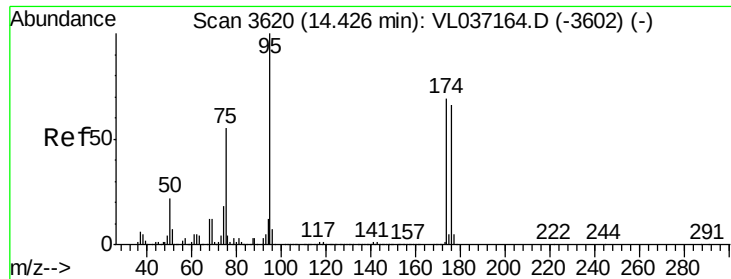
MMDadoda
7/5/2021 3:39:02 PM



#61
Styrene
Concen: 0.125 ppbv m
RT: 13.52 min Scan# 3339
Delta R.T. -0.01 min
Lab File: VL037261.D
Acq: 29 Jun 2021 22:49

Tgt Ion:104 Resp: 31805
Ion Ratio Lower Upper
104 100
78 56.8 39.7 59.5
103 59.6 37.6 56.4#





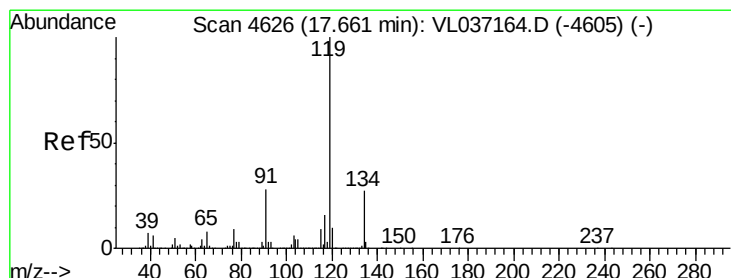
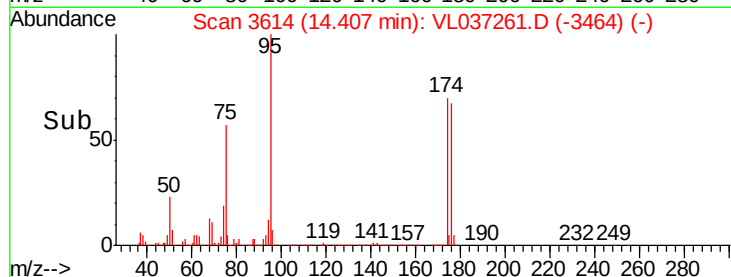
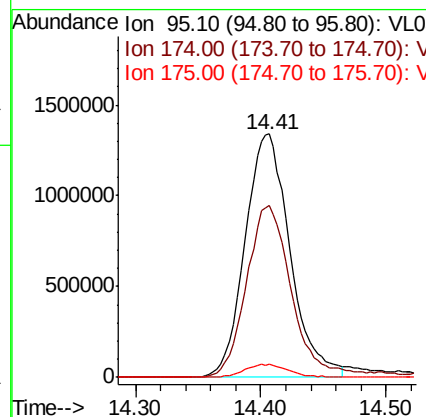
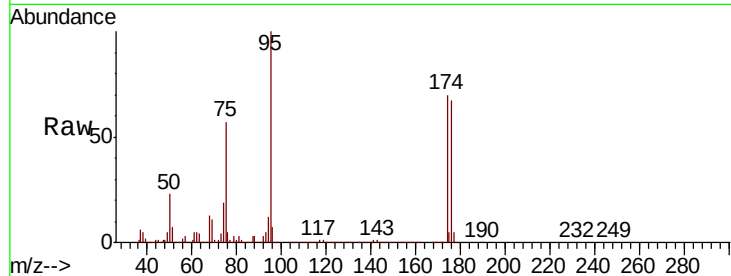
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.914 ppbv
 RT: 14.41 min Scan# 3614
 Delta R.T. -0.02 min
 Lab File: VL037261.D
 Acq: 29 Jun 2021 22:49

Instrument :
 MSVOA_L
 ClientSampled :
 SV-4

Tot Ion	Ratio	Lower	Upper
95	100		
174	74.4	57.0	85.4
175	5.3	4.4	6.6

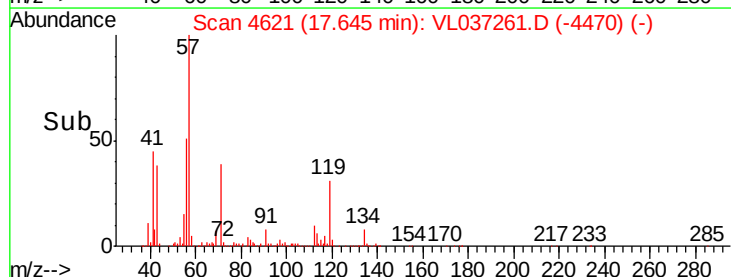
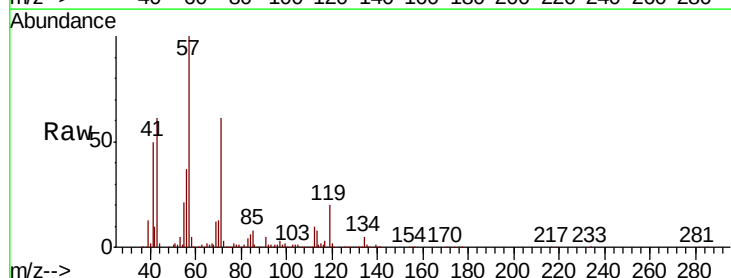
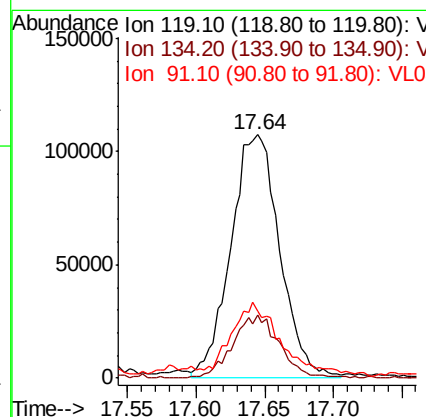
Manual Integrations
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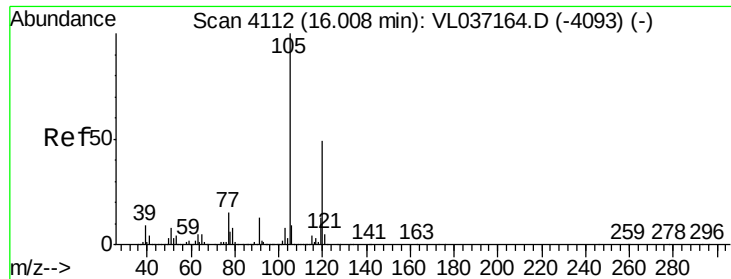
MMDadoda
 7/5/2021 3:39:02 PM



#69
 p-Isopropyltoluene
 Concen: 0.381 ppbv m
 RT: 17.64 min Scan# 4621
 Delta R.T. -0.02 min
 Lab File: VL037261.D
 Acq: 29 Jun 2021 22:49

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.8	20.9	31.3
91	31.4	22.6	34.0





#73

1,3,5-Trimethylbenzene

Concen: 0.127 ppbv m

RT: 15.99 min Scan# 4106

Delta R.T. -0.02 min

Lab File: VL037261.D

Acq: 29 Jun 2021 22:49

Instrument :

MSVOA_L

ClientSampled :

SV-4

Tot Ion:105 Resp: 68637

Ion Ratio Lower Upper

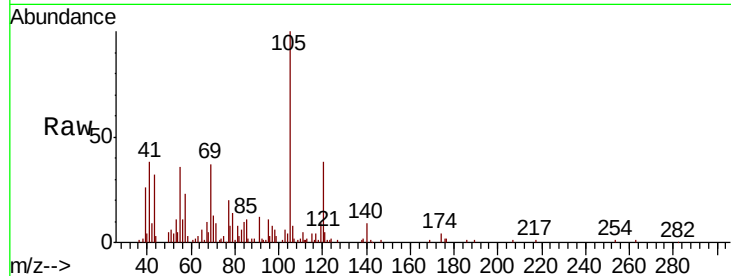
105 100

120 38.4 39.4 59.2#

Manual Integrations
APPROVED

MMDadoda

7/5/2021 3:39:02 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

15.99

30000

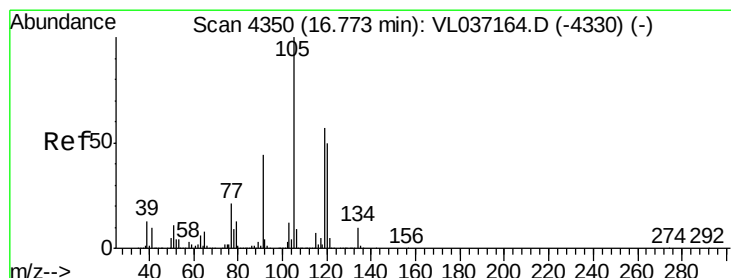
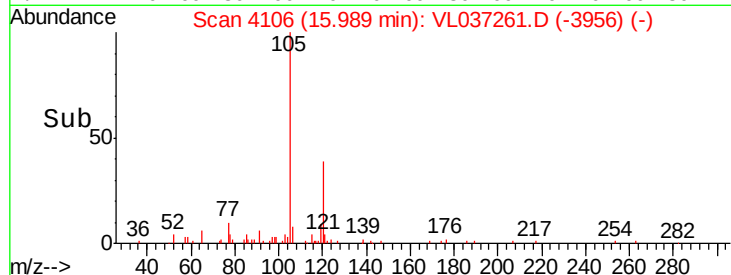
20000

10000

0

15.90 15.95 16.00 16.05

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.299 ppbv

RT: 16.75 min Scan# 4344

Delta R.T. -0.02 min

Lab File: VL037261.D

Acq: 29 Jun 2021 22:49

Tgt Ion:105 Resp: 167034

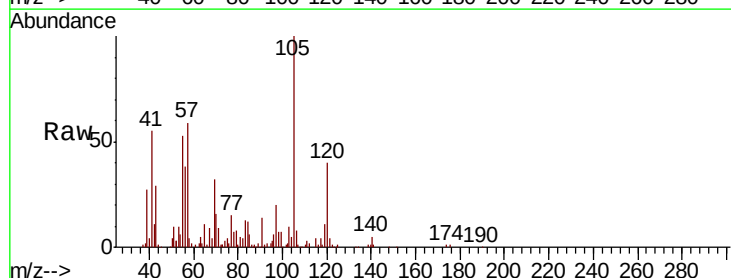
Ion Ratio Lower Upper

105 100

120 40.2 39.8 59.8

91 10.9 37.0 55.4#

77 11.3 17.0 25.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

16.75

100000

80000

60000

40000

20000

0

16.65 16.70 16.75 16.80

Time-->

