

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL092821\
 Data File : VL037715.D
 Acq On : 28 Sep 2021 23:10
 Operator : SY/AP
 Sample : M3948-04DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4DL

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/30/2021
 Supervised By : Amit Patel 10/01/2021

Quant Time: Sep 29 20:56:18 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091621A
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument:
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Supervised By
 : apatel
 10/1/2021 10:11:36 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1380395	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	4071339	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3617605	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2858642	10.93	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.30%

Target Compounds

						Qvalue
9) Propene	3.02	41	641937	6.989	ppbv	90
10) Heptane	8.12	43	56514m	0.264	ppbv	
13) Ethanol	3.62	45	23494m	2.615	ppbv	
15) Acetone	3.85	43	5421657	37.802	ppbv	99
17) tert-Butyl alcohol	4.31	59	70954m	0.583	ppbv	
30) Cyclohexane	7.13	84	73598m	0.522	ppbv	
34) 2-Butanone	5.25	43	596278	3.604	ppbv	96
36) Benzene	6.90	78	218865	0.645	ppbv #	93
38) Trichloroethene	7.84	130	42839m	0.302	ppbv	
44) 2,2,4-Trimethylpentane	7.88	57	76213m	0.134	ppbv	
52) Tetrachloroethene	11.23	164	41558m	0.319	ppbv	
53) Toluene	9.81	91	102337m	0.271	ppbv	
58) Ethyl Benzene	12.71	91	123004m	0.256	ppbv	
59) m/p-Xylene	12.97	91	632528m	1.511	ppbv	
60) o-Xylene	13.69	91	298470	0.749	ppbv	98
62) Isopropylbenzene	14.67	105	175798	0.316	ppbv	100
64) n-propylbenzene	15.56	120	29928m	0.208	ppbv	
67) sec-Butylbenzene	17.30	105	71890	0.106	ppbv	97
69) p-Isopropyltoluene	17.65	119	122501	0.220	ppbv	98
72) 4-Ethyltoluene	15.83	105	95290m	0.208	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	161967	0.380	ppbv	90
74) 1,2,4-Trimethylbenzene	16.76	105	424765	0.946	ppbv #	77

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

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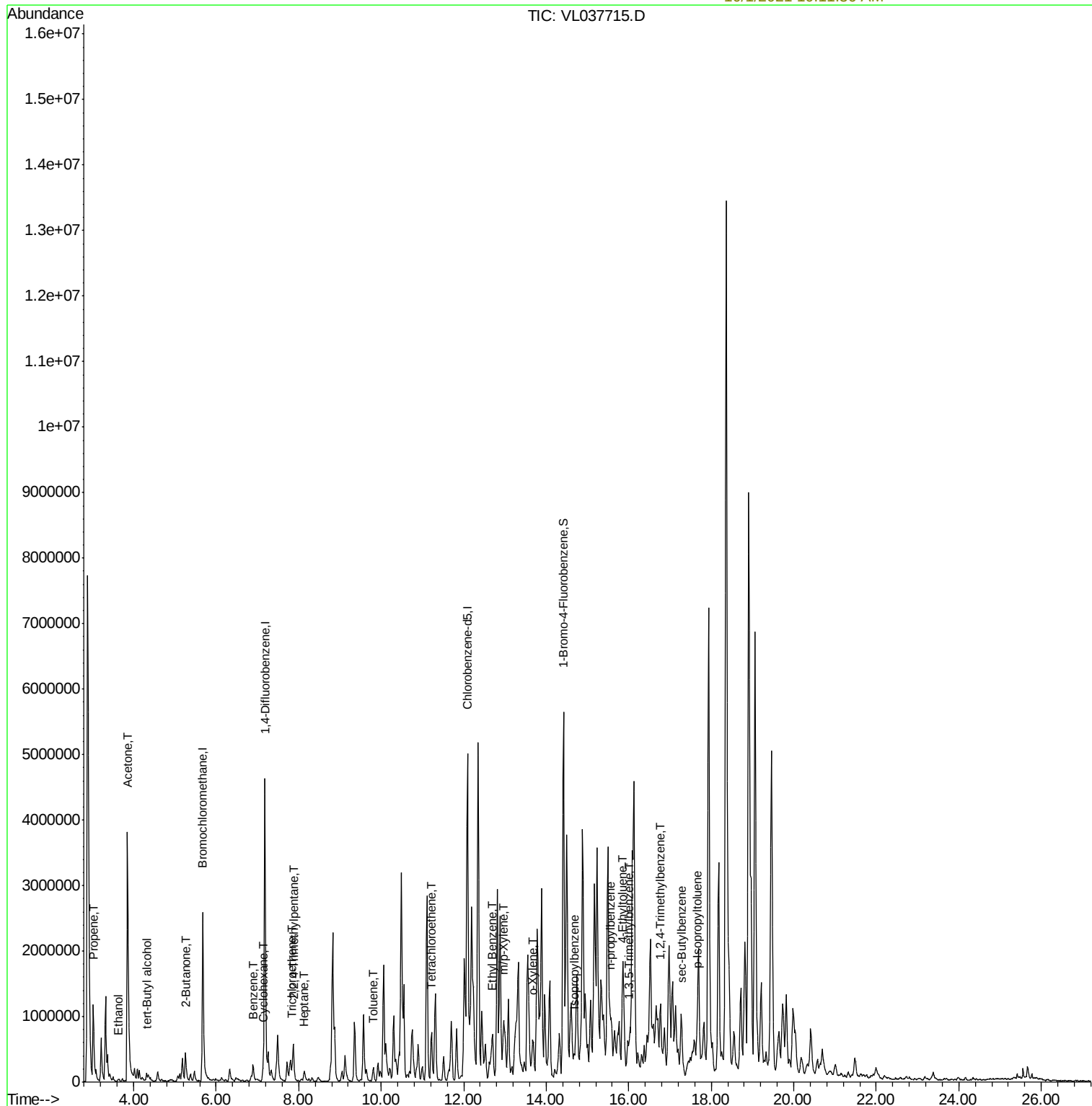
Instrument :
MSVOA_L
ClientSampleId :
SV4DL

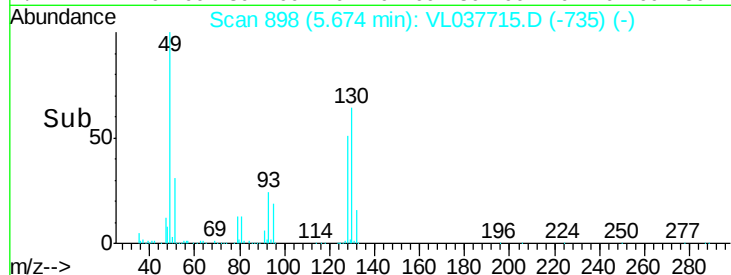
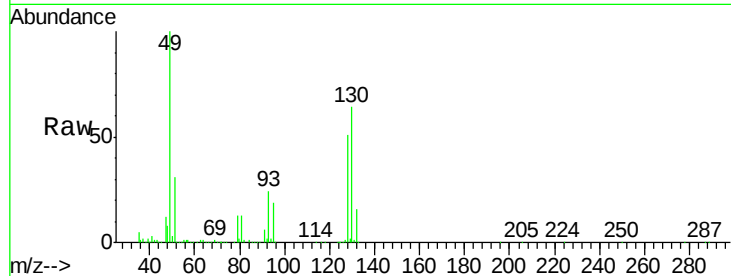
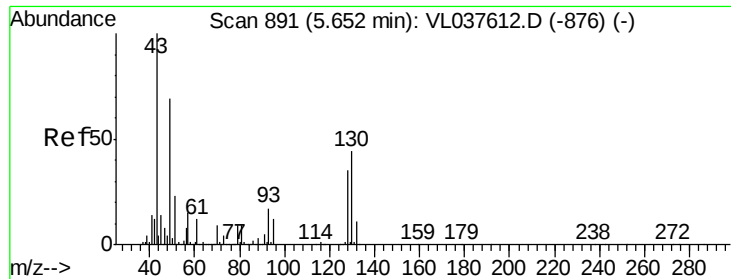
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL091621
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 28 Sep 2021 23:10

Tgt Ion:

Ion Ratio

49 100

128 53.

130 68.

Manual Integrations

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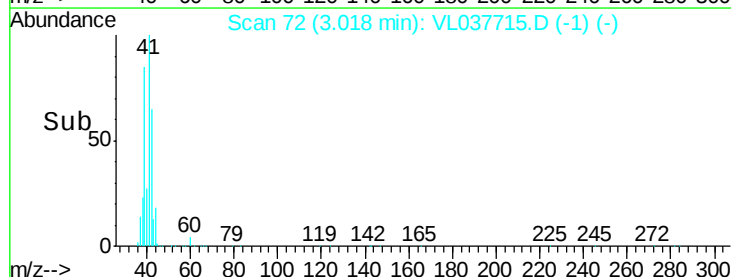
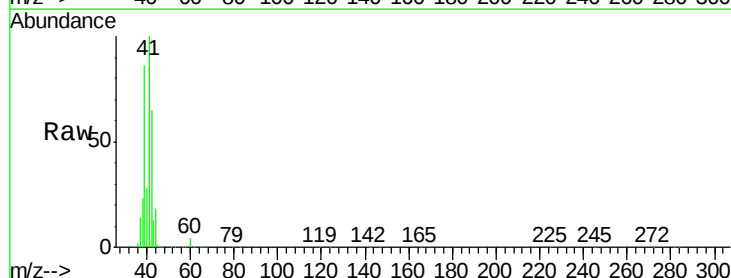
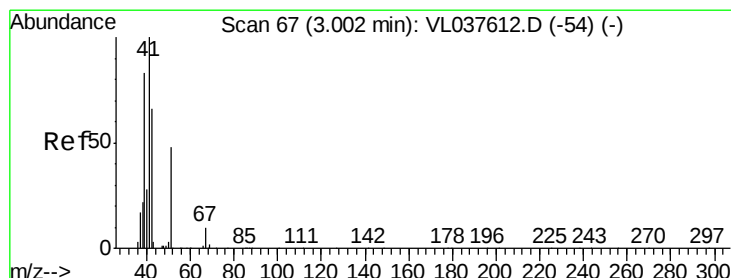
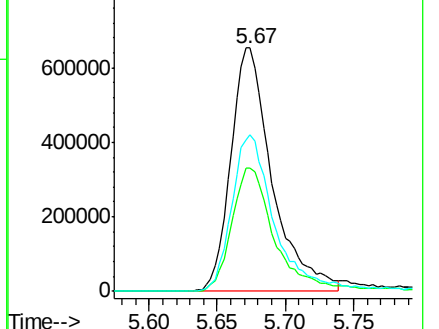
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: apatel

Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#9

Propene

Concen: 6.989 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.02 min

Lab File: VL037715.D

Acq: 28 Sep 2021 23:10

Tgt Ion: 41 Resp: 641937

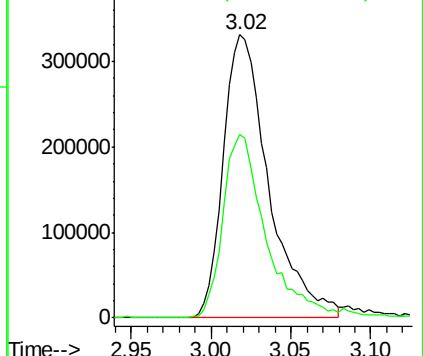
Ion Ratio Lower Upper

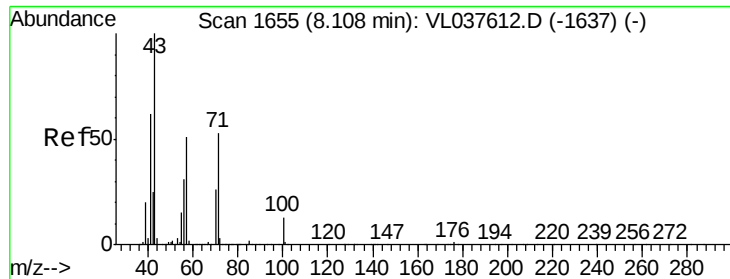
41 100

42 62.8 57.2 85.8

Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





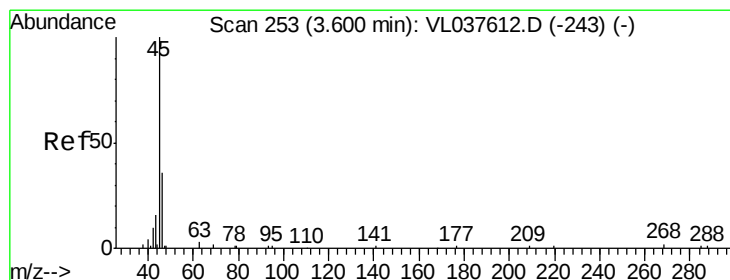
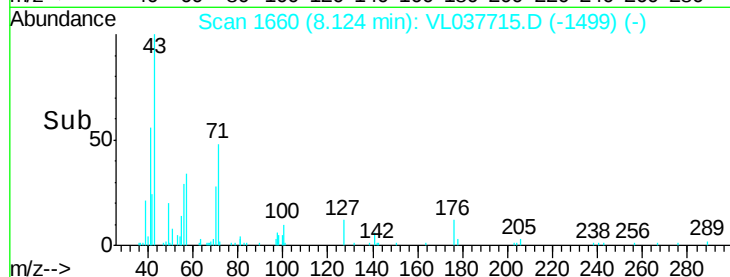
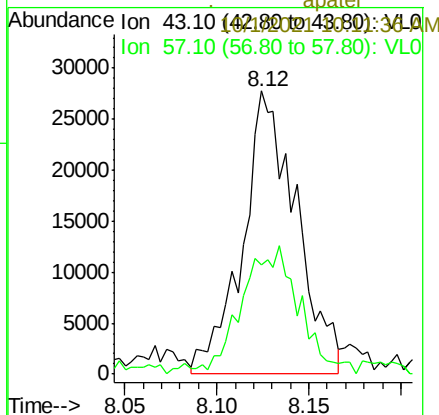
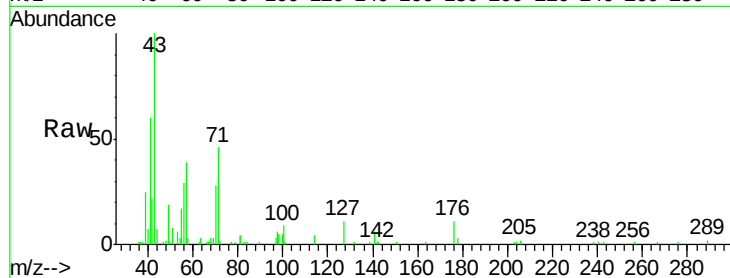
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Heptane
Concen: 0.264 ppbv m
RT: 8.12
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
SV4DL
Acq: 28 Sep 2021 23:10

Tgt Ion:
Ion Ratio
43 100
57 48.

Manual Integrations
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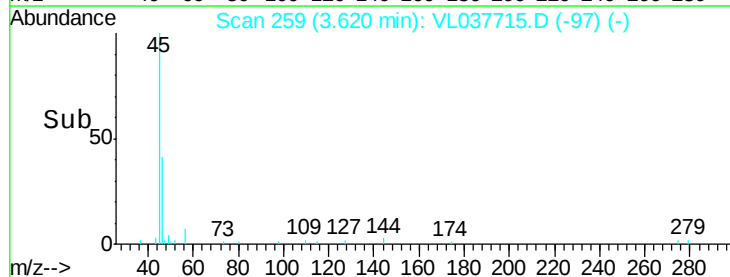
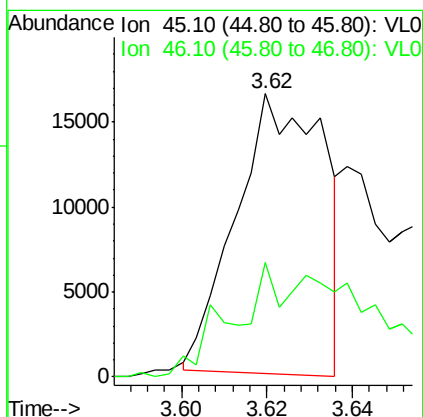
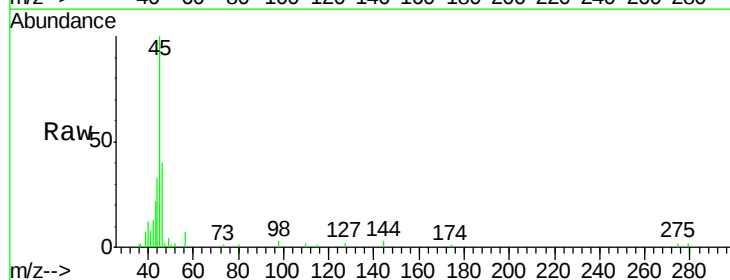
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Supervised By :Amit Patel 10/01/2021

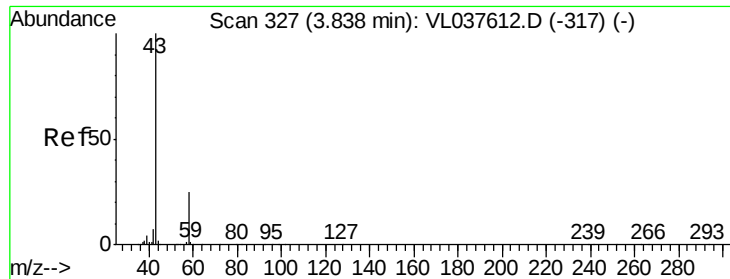
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#13
Ethanol
Concen: 2.615 ppbv m
RT: 3.62 min Scan# 259
Delta R.T. 0.02 min
Lab File: VL037715.D
Acq: 28 Sep 2021 23:10

Tgt Ion: 45 Resp: 23494
Ion Ratio Lower Upper
45 100
46 77.9 17.2 68.8#





#15

Acetone

Concen: 37.802 ppbv

RT: 3.85 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 28 Sep 2021 23:10 SV4DL

Tgt Ion:

Ion Ratio

43 100

58 30.

Manual Integrations

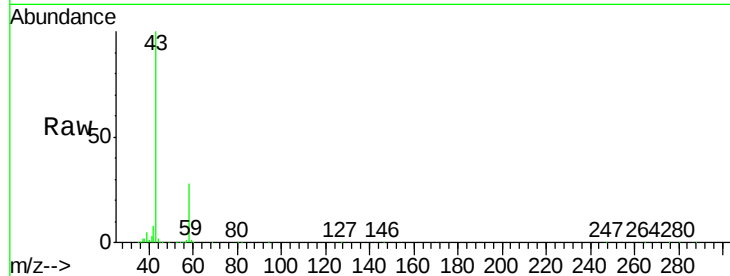
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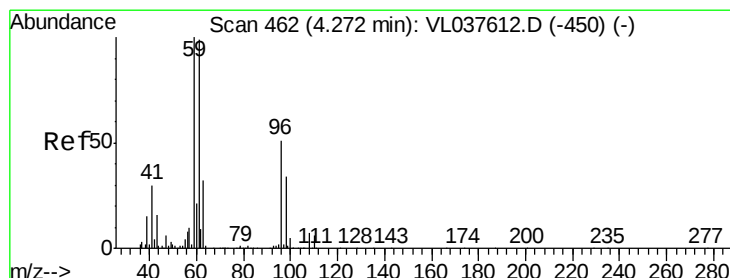
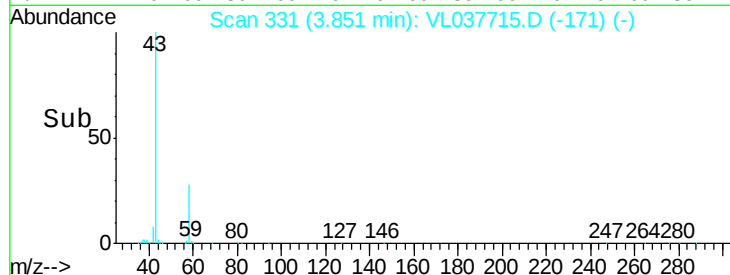
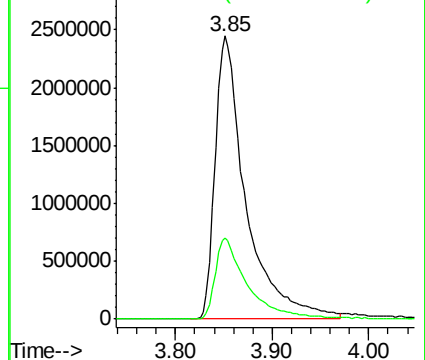
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Abundance Ion 43.10 (42.80 to 43.80): 36.0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.583 ppbv m

RT: 4.31 min Scan# 475

Delta R.T. 0.04 min

Lab File: VL037715.D

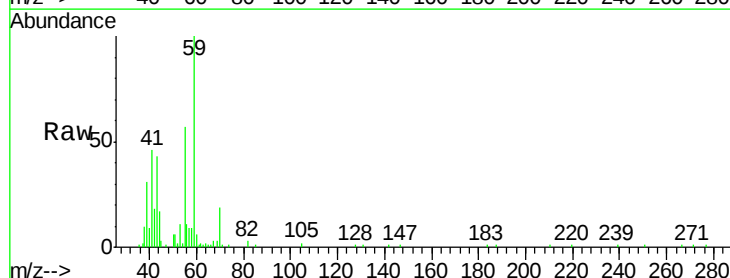
Acq: 28 Sep 2021 23:10

Tgt Ion: 59 Resp: 70954

Ion Ratio Lower Upper

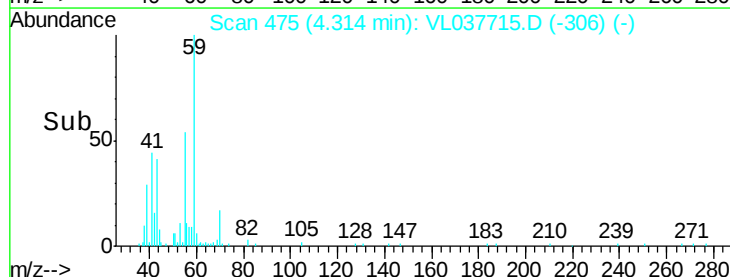
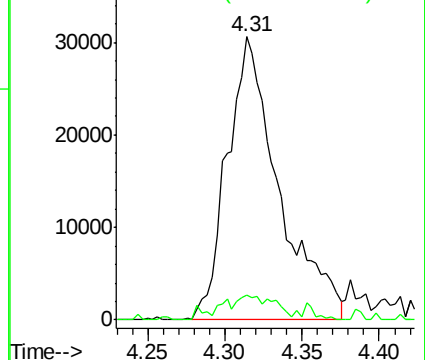
59 100

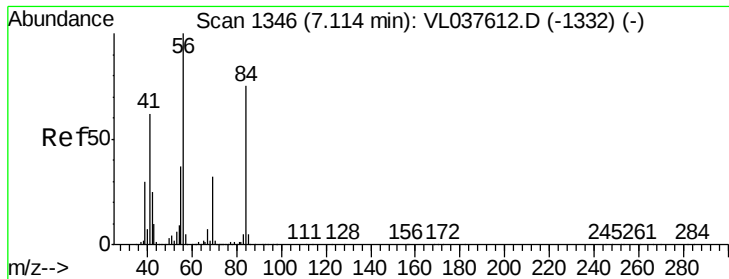
57 10.8 8.4 12.6



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





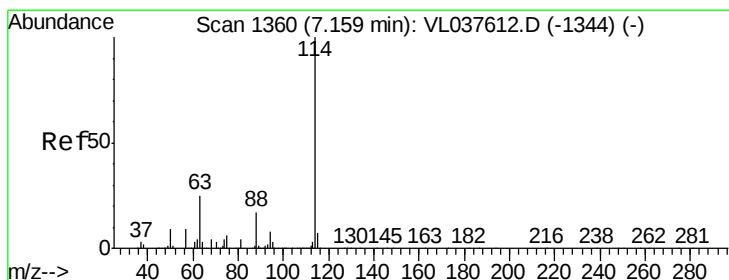
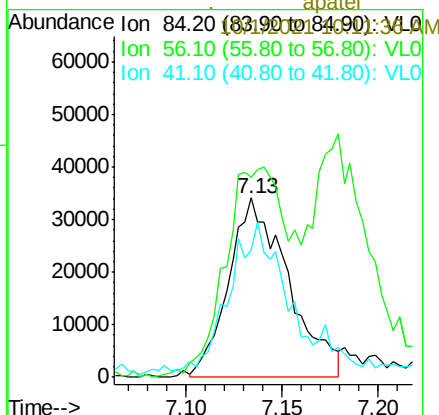
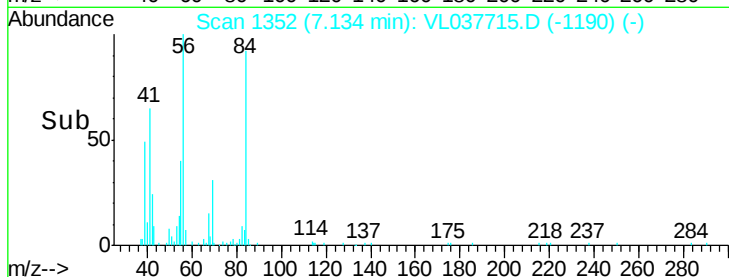
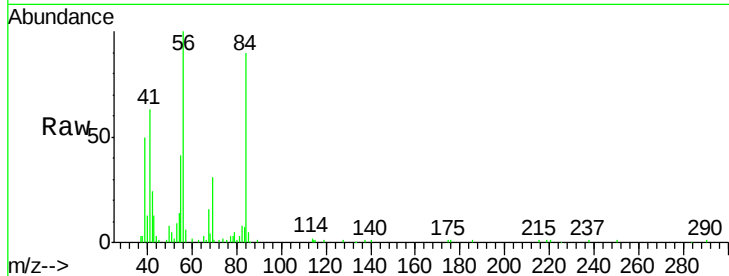
#30
Cyclohexane
Concen: 0.522 ppbv m
RT: 7.13
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV4DL
Acq: 28 Sep 2021 23:10

Tgt Ion:
Ion Ratio
84 100
56 0.
41 0.

Manual Integrations
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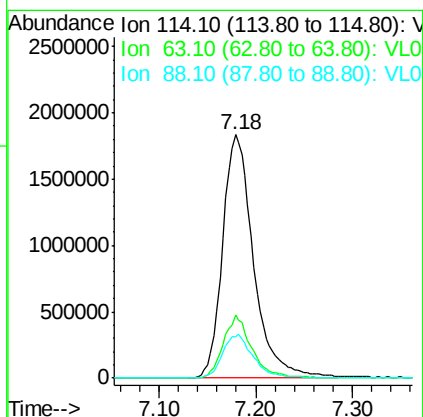
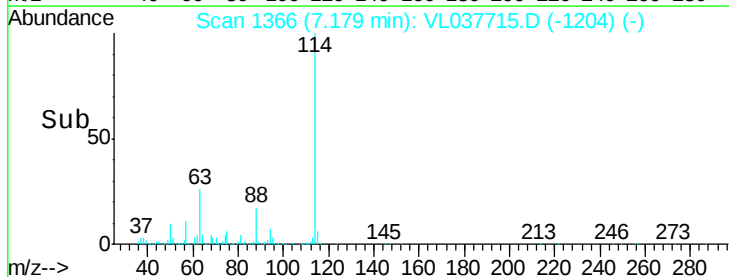
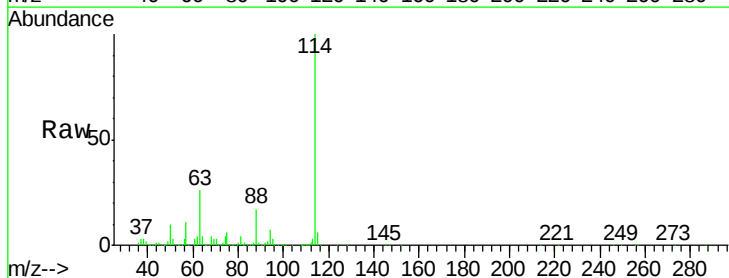
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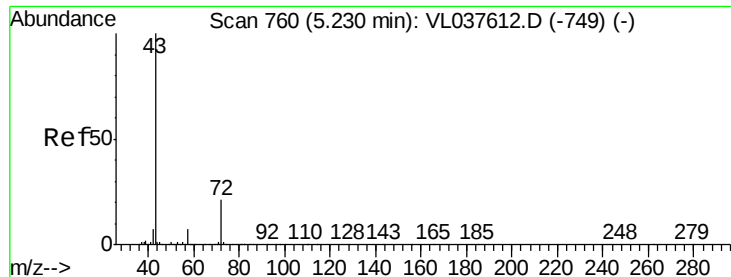
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: apatel



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. 0.02 min
Lab File: VL037715.D
Acq: 28 Sep 2021 23:10

Tgt Ion:114 Resp: 4071339
Ion Ratio Lower Upper
114 100
63 24.0 19.6 29.4
88 18.0 14.2 21.4





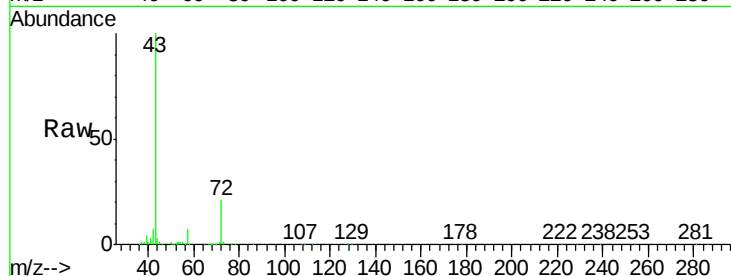
#34
2-Butanone
Concen: 3.604 ppbv
RT: 5.25
Delta R.T.:
Lab File: SV4DL
Acq: 28 Sep 2021 23:10

Tgt Ion:
Ion Ratio
43 100
72 25.

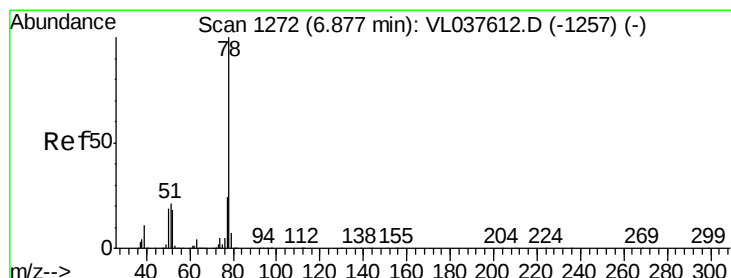
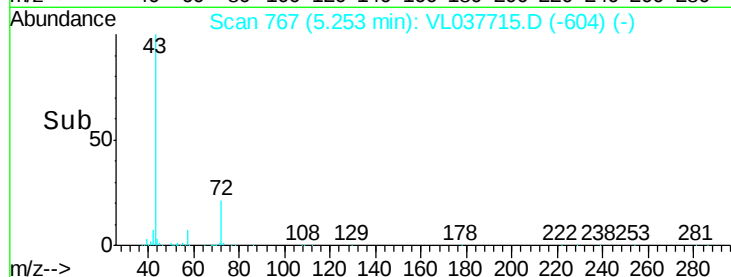
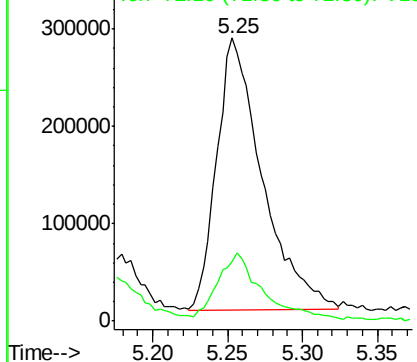
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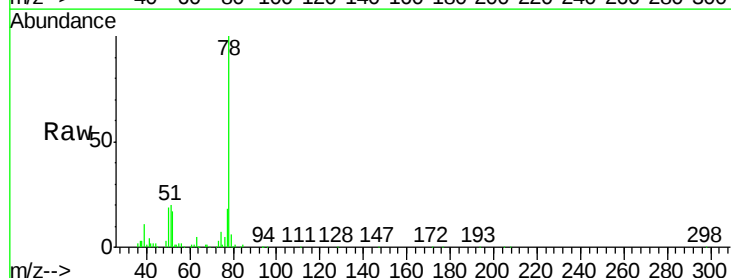


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 72.10 (71.80 to 72.80): VL0

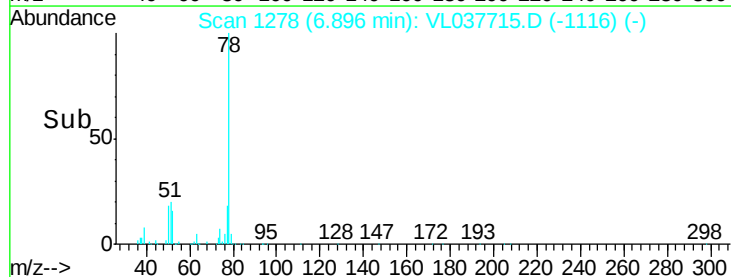
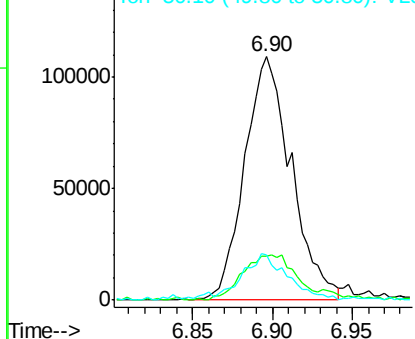


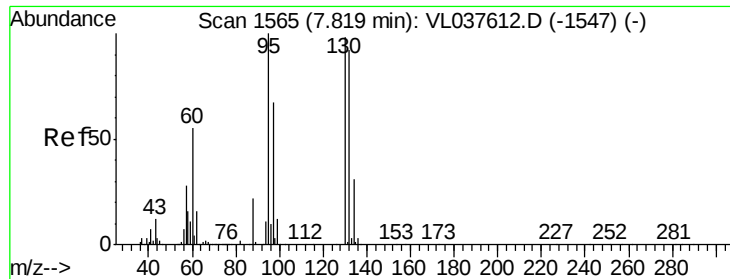
#36
Benzene
Concen: 0.645 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. 0.02 min
Lab File: VL037715.D
Acq: 28 Sep 2021 23:10

Tgt Ion: 78 Resp: 218865
Ion Ratio Lower Upper
78 100
77 17.9 19.0 28.4#
50 18.6 14.8 22.2



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



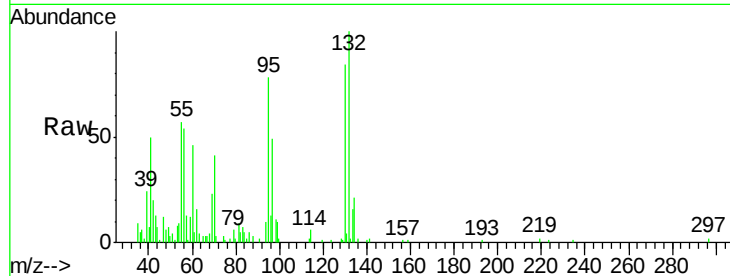


#38
 Trichloroethene
 Concen: 0.302 ppbv m
 RT: 7.84
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 28 Sep 2021 23:10

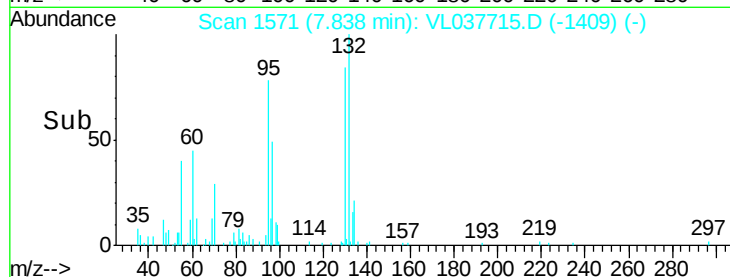
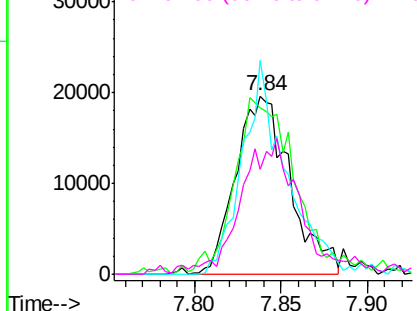
Tgt Ion: 1
 Ion Ratio
 130 100
 95 93.1
 132 119.1
 97 58.8

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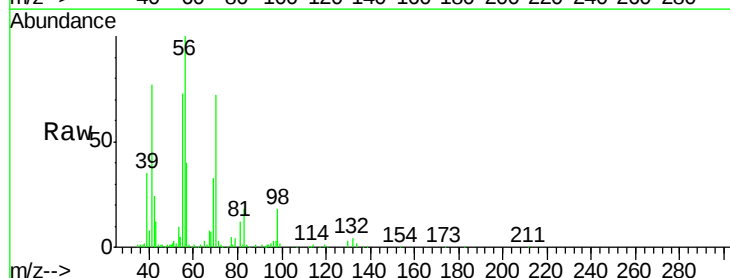
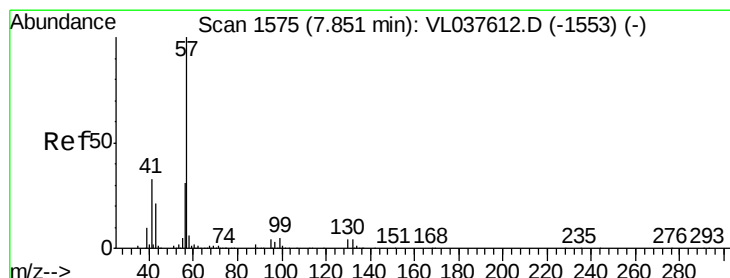


Abundance Ion 130.00 (129.70 to 130.70): VL0
 Ion 95.00 (94.70 to 95.70): VL0
 Ion 132.00 (131.70 to 132.70): VL0
 Ion 97.00 (96.70 to 97.70): VL0

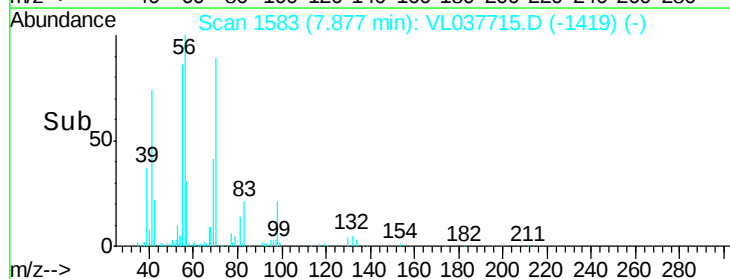
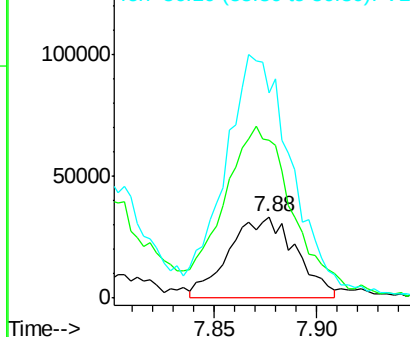


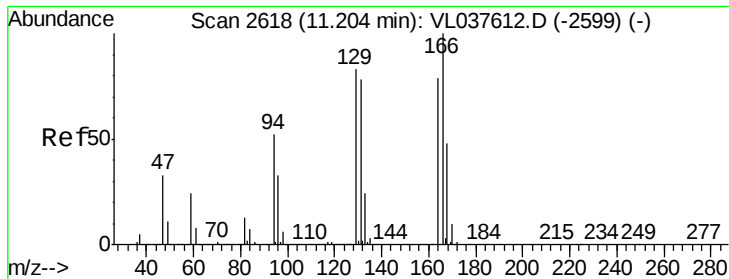
#44
 2,2,4-Trimethylpentane
 Concen: 0.134 ppbv m
 RT: 7.88 min Scan# 1583
 Delta R.T.: 0.03 min
 Lab File: VL037715.D
 Acq: 28 Sep 2021 23:10

Tgt Ion: 57 Resp: 76213
 Ion Ratio Lower Upper
 57 100
 41 211.1 26.1 39.1#
 56 304.8 25.7 38.5#



Abundance Ion 57.10 (56.80 to 57.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 56.10 (55.80 to 56.80): VL0



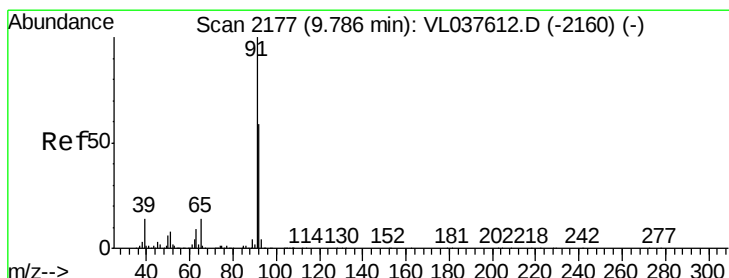
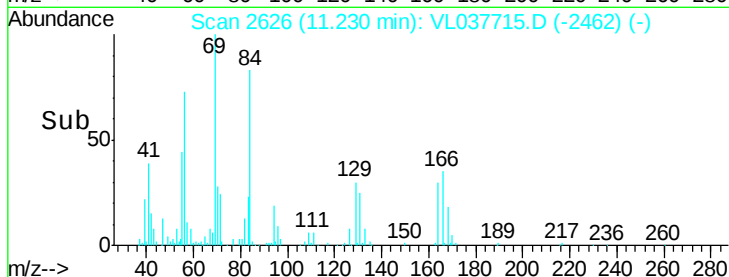
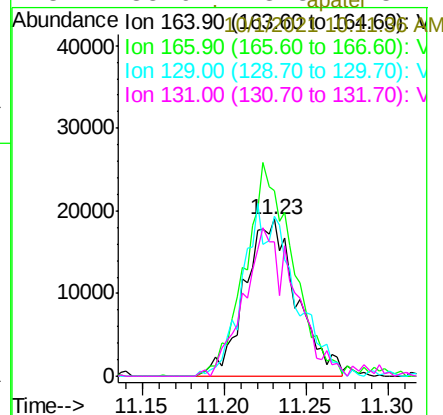
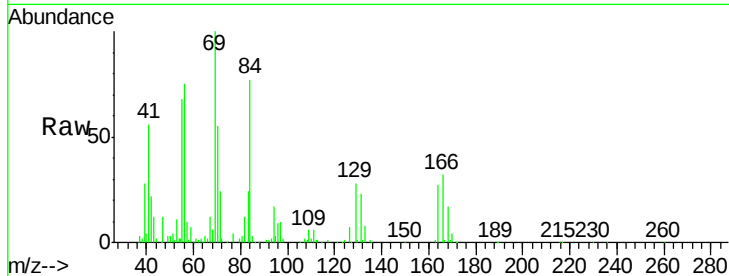


#52
Tetrachloroethene
Concen: 0.319 ppbv m
RT: 11.23
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
SV4DL
Acq: 28 Sep 2021 23:10

Tgt Ion: 1
Ion Ratio
164 100
166 118.
129 102.
131 85.9
78.8 118.2

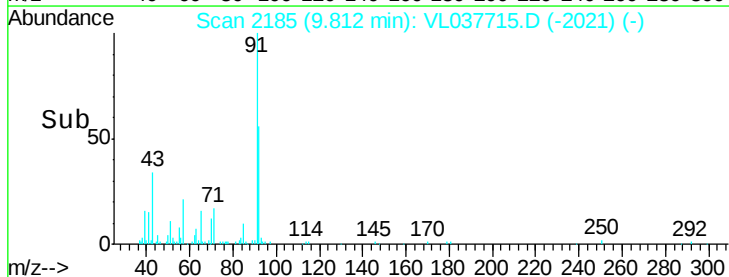
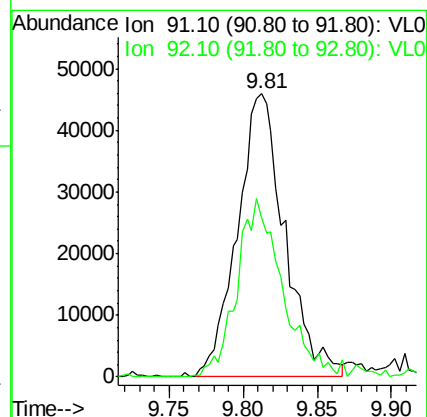
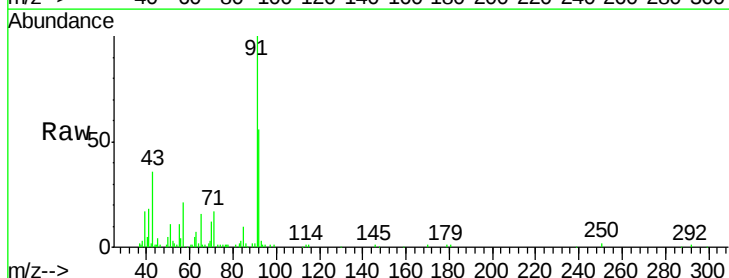
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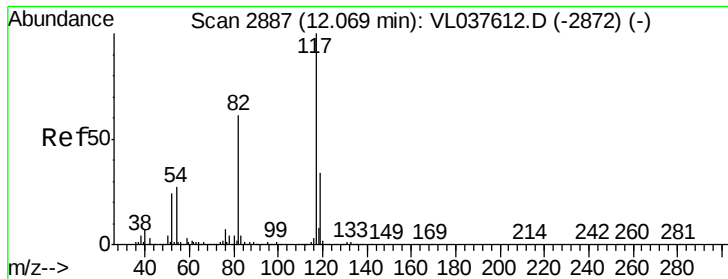
Reviewed By : Semsettin Yesilyurt 09/30/2021
Supervised By : Amit Patel 10/01/2021



#53
Toluene
Concen: 0.271 ppbv m
RT: 9.81 min Scan# 2185
Delta R.T. 0.03 min
Lab File: VL037715.D
Acq: 28 Sep 2021 23:10

Tgt Ion: 91 Resp: 102337
Ion Ratio Lower Upper
91 100
92 60.1 48.9 73.3





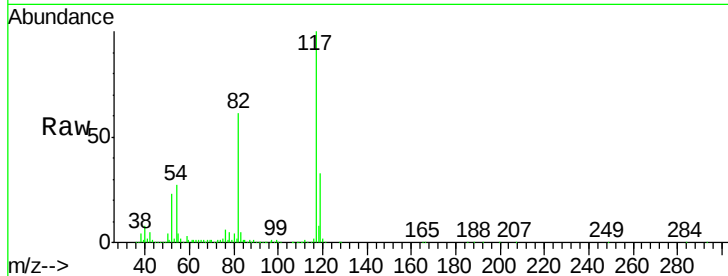
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId : SV4DL
Acq: 28 Sep 2021 23:10

Tgt Ion: 117
Ion Ratio: 100
82 61.1
119 33.3

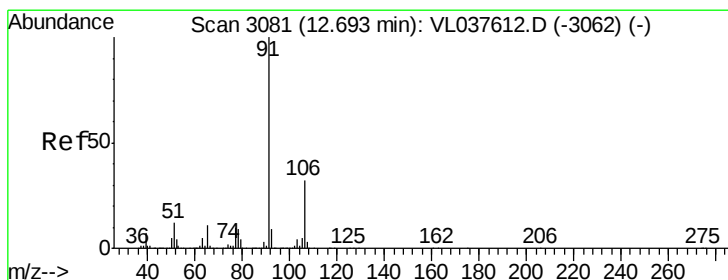
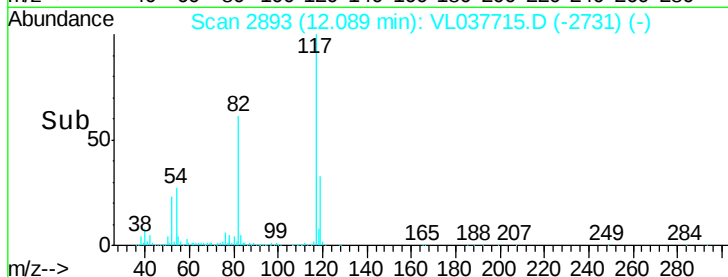
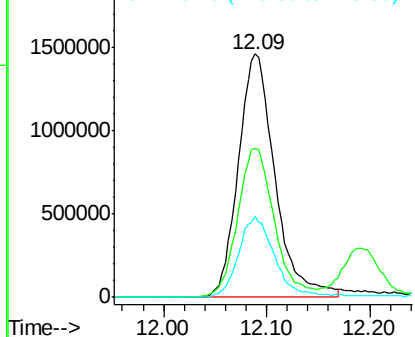
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Supervised By : apatel

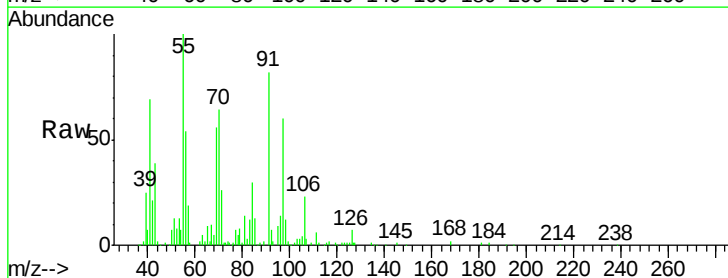


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): V
Ion 119.10 (118.80 to 119.80): V

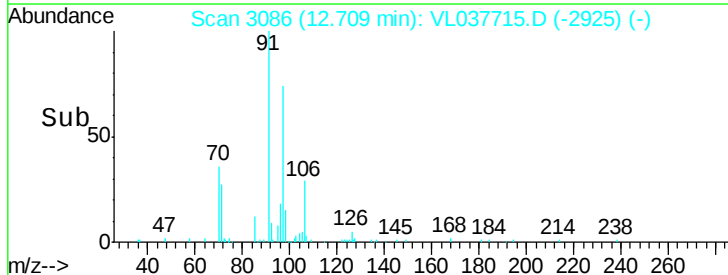
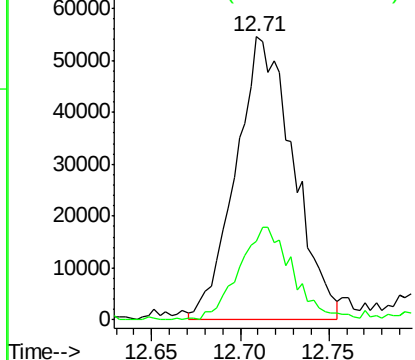


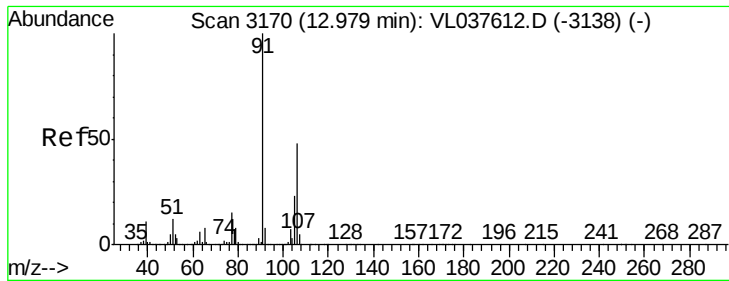
#58
Ethyl Benzene
Concen: 0.256 ppbv m
RT: 12.71 min Scan# 3086
Delta R.T.: 0.02 min
Lab File: VL037715.D
Acq: 28 Sep 2021 23:10

Tgt Ion: 91 Resp: 123004
Ion Ratio Lower Upper
91 100
106 27.6 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): V
Ion 106.10 (105.80 to 106.80): V





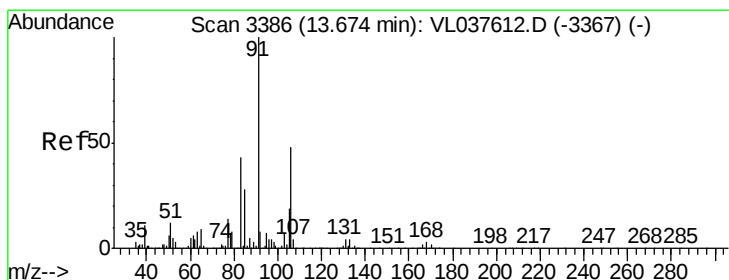
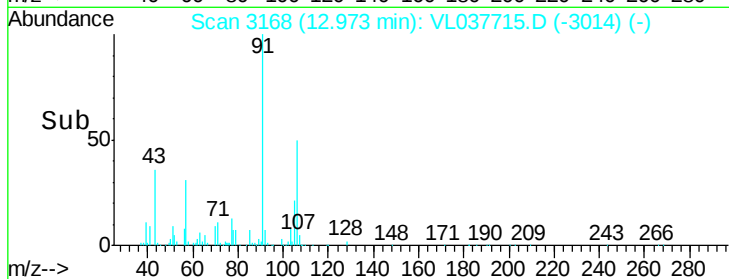
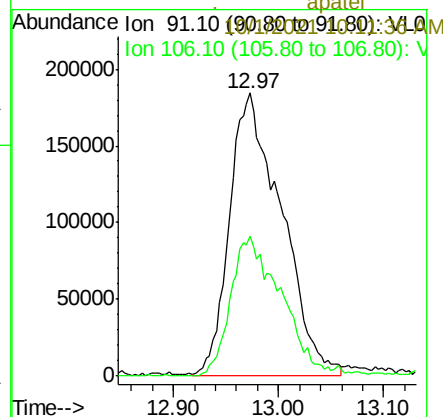
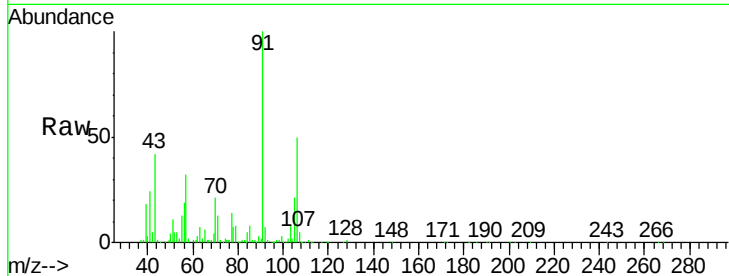
#59
m/p-Xylene
Concen: 1.511 ppbv m
RT: 12.97
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
SV4DL
Acq: 28 Sep 2021 23:10

Tgt Ion:
Ion Ratio
91 100
106 0.

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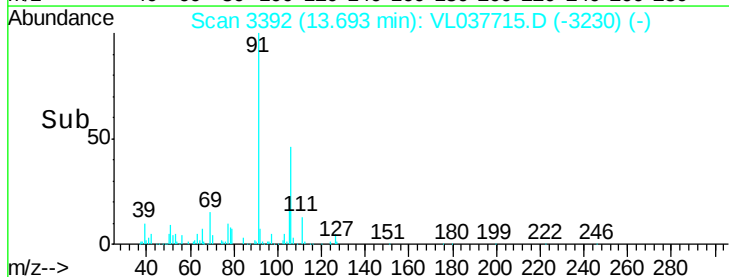
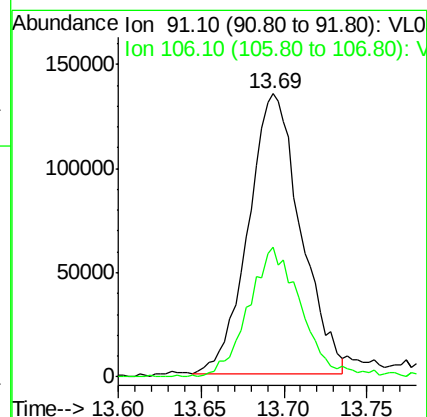
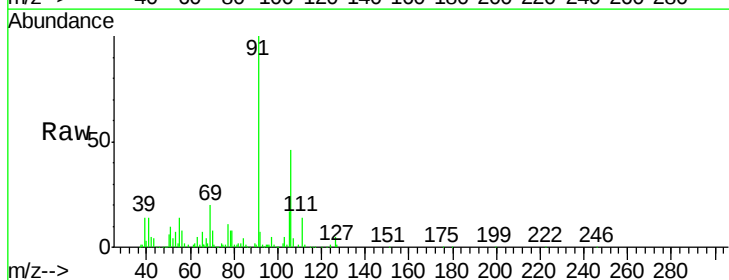
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Supervised By :Amit Patel 10/01/2021

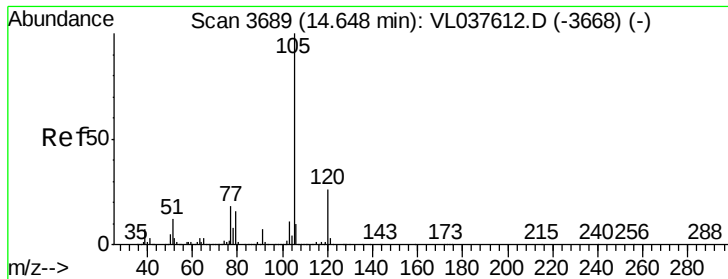
Supervised By
: apatel



#60
o-Xylene
Concen: 0.749 ppbv
RT: 13.69 min Scan# 3392
Delta R.T. 0.02 min
Lab File: VL037715.D
Acq: 28 Sep 2021 23:10

Tgt Ion: 91 Resp: 298470
Ion Ratio Lower Upper
91 100
106 47.0 23.0 69.0





#62

Isopropylbenzene

Concen: 0.316 ppbv

RT: 14.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 28 Sep 2021 23:10

Tgt Ion:1

Ion Ratio

105 100

120 26.

Manual Integrations

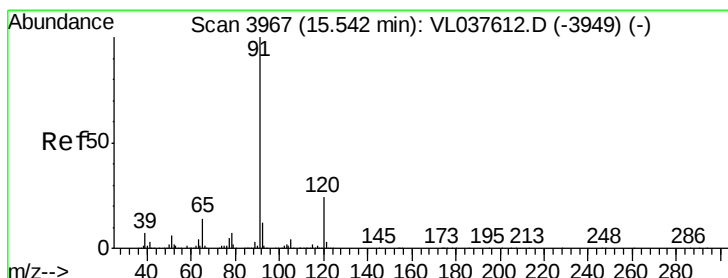
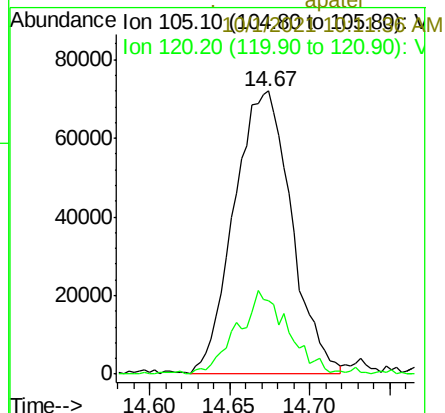
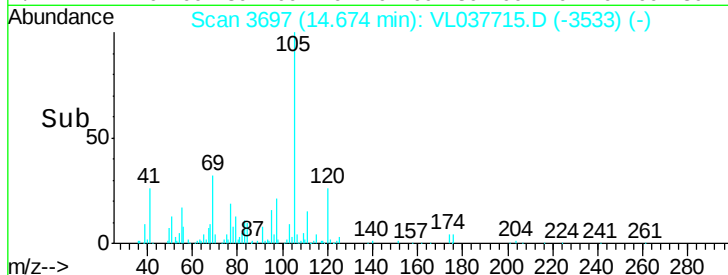
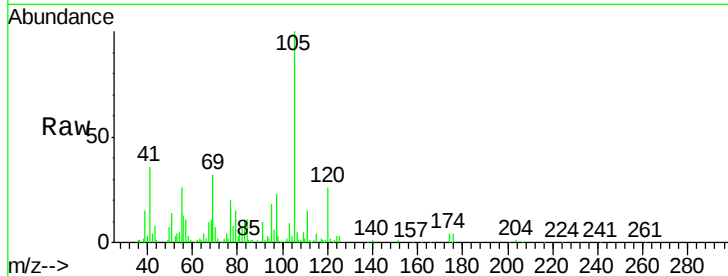
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Supervised By :Amit Patel 10/01/2021

Supervised By

: apatel



#64

n-propylbenzene

Concen: 0.208 ppbv m

RT: 15.56 min Scan# 3973

Delta R.T. 0.02 min

Lab File: VL037715.D

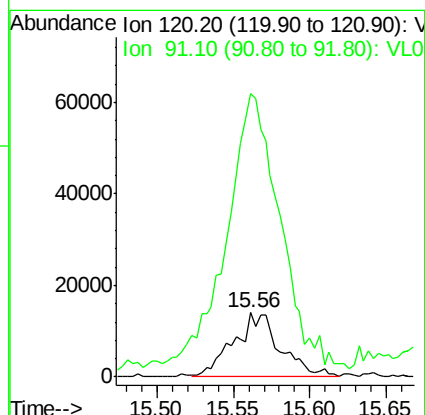
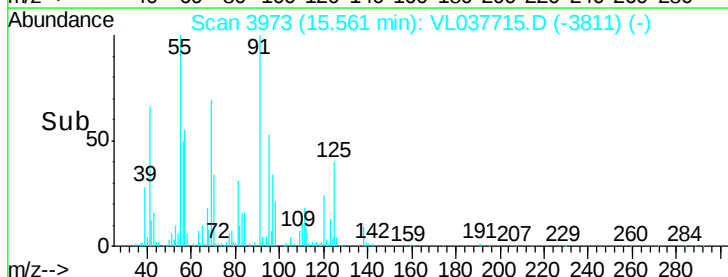
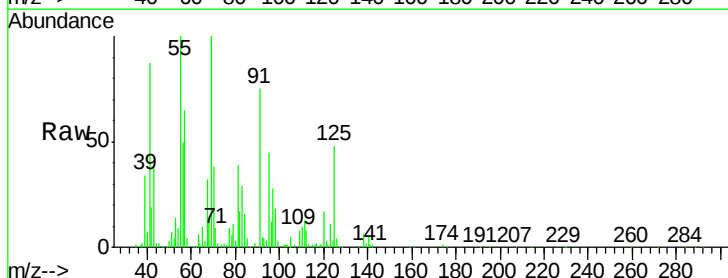
Acq: 28 Sep 2021 23:10

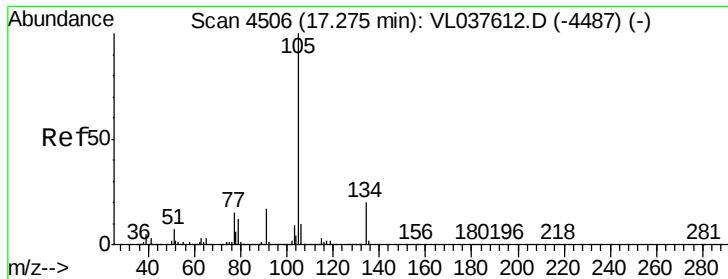
Tgt Ion:120 Resp: 29928

Ion Ratio Lower Upper

120 100

91 0.0 345.0 517.4#





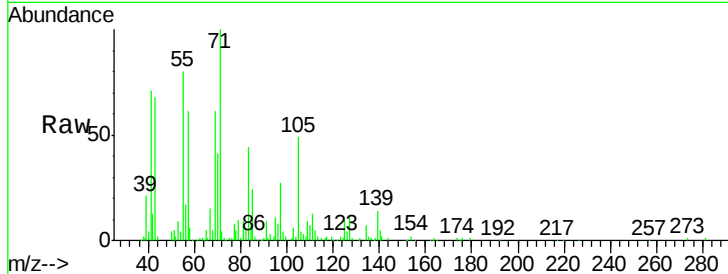
#67
 sec-Butylbenzene
 Concen: 0.106 ppbv
 RT: 17.30
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV4DL
 Acq: 28 Sep 2021 23:10

Tgt Ion: 1
 Ion Ratio
 105 100
 134 21.

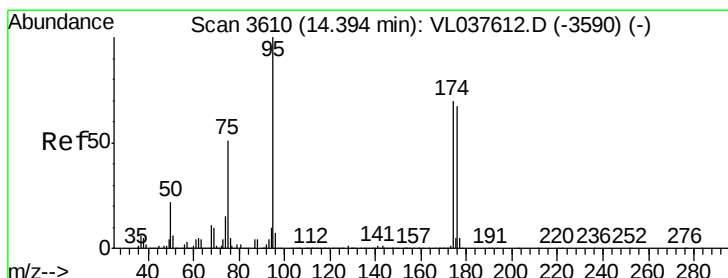
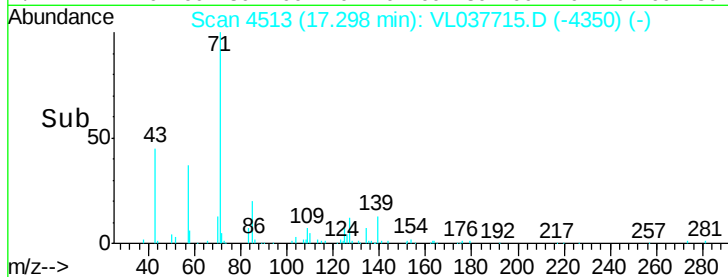
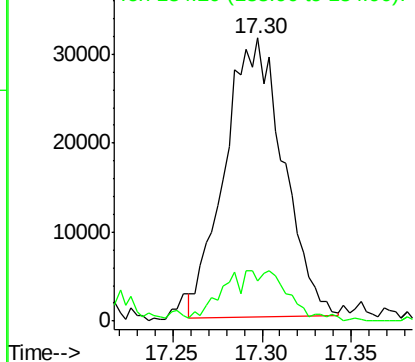
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 : apatel

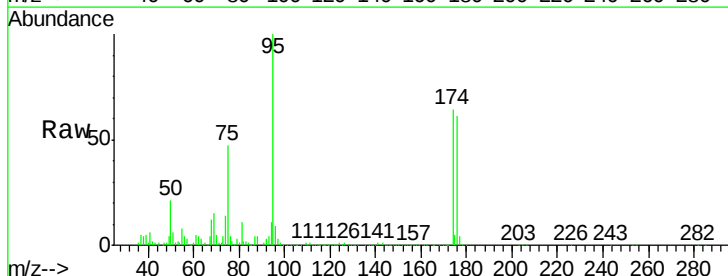


Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 134.20 (133.90 to 134.90): V

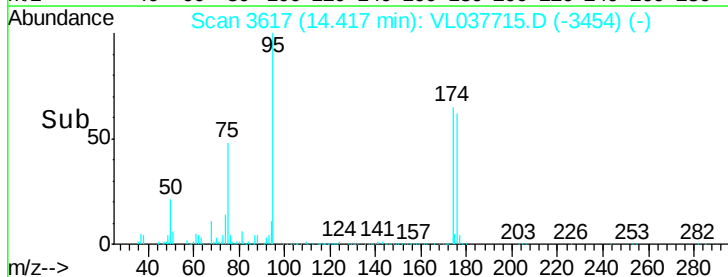
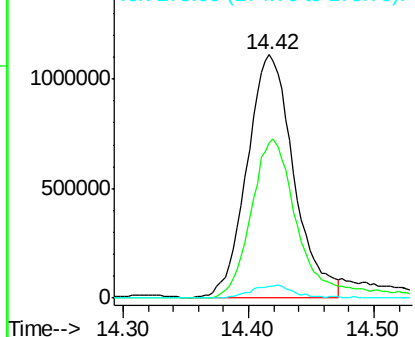


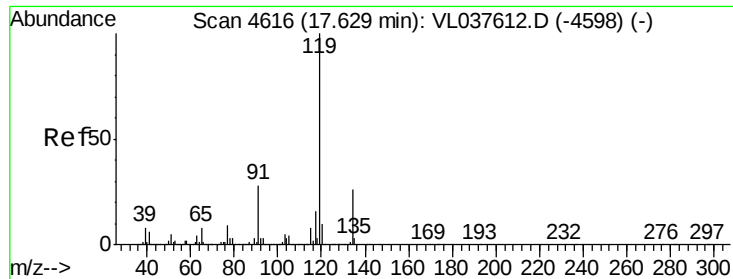
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.934 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T. 0.02 min
 Lab File: VL037715.D
 Acq: 28 Sep 2021 23:10

Tgt Ion: 95 Resp: 2858642
 Ion Ratio Lower Upper
 95 100
 174 69.4 56.3 84.5
 175 5.4 4.4 6.6

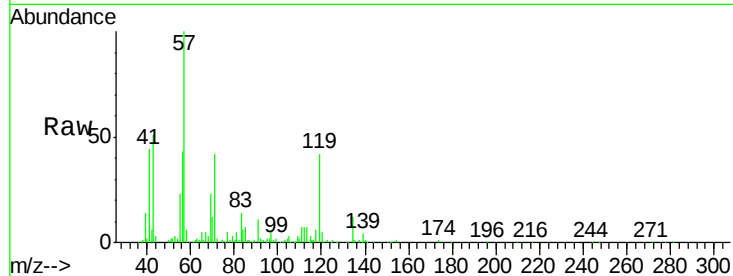


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V





#69
p-Isopropyltoluene
Concen: 0.220 ppbv
RT: 17.65
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 28 Sep 2021 23:10

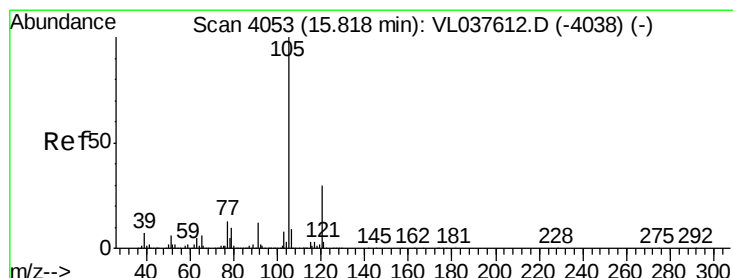
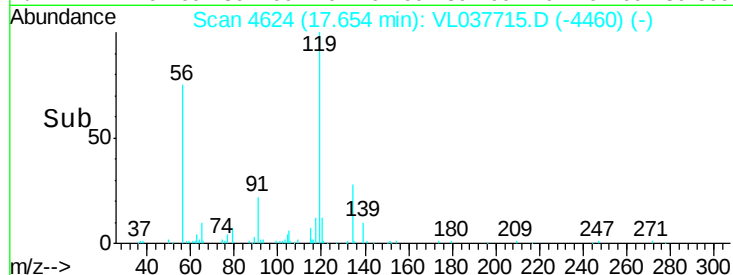
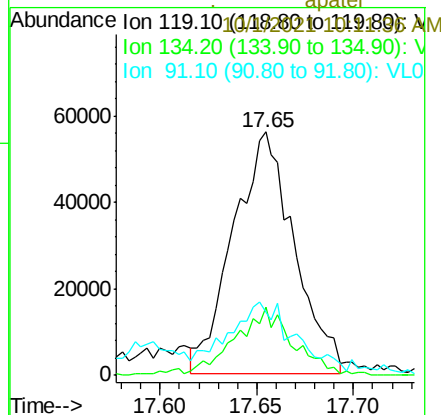


Tgt Ion:1
Ion Rati
119 100
134 27.
91 28.

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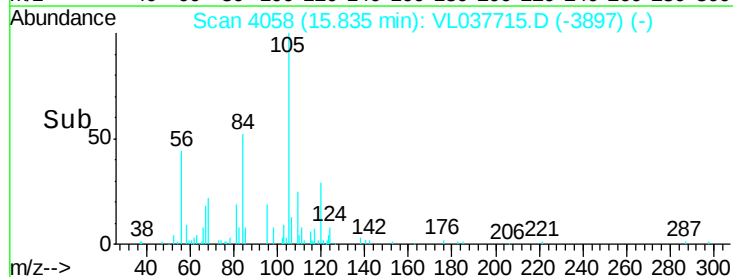
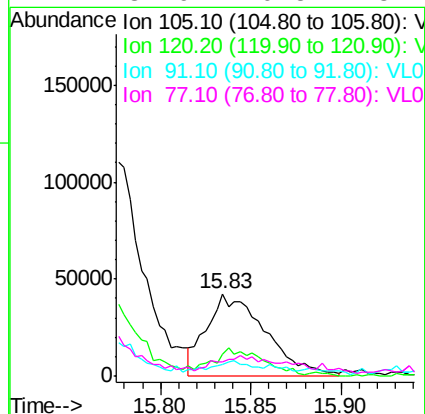
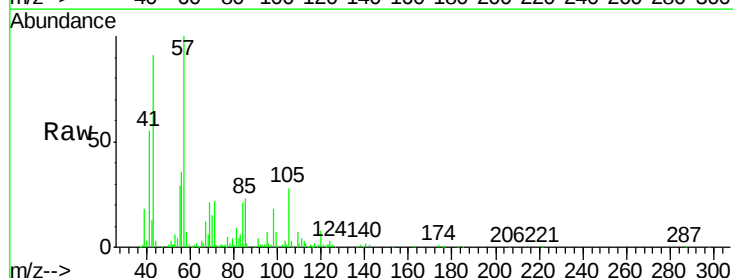
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Supervised By :Amit Patel 10/01/2021

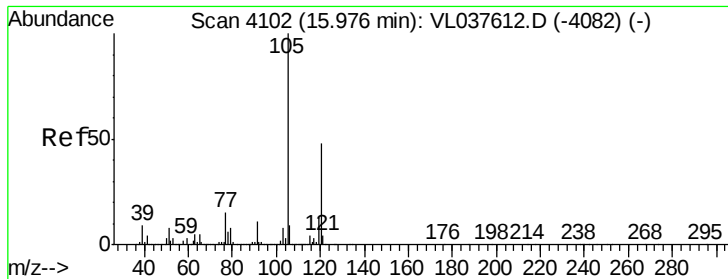
Supervised By
: apatel



#72
4-Ethyltoluene
Concen: 0.208 ppbv m
RT: 15.83 min Scan# 4058
Delta R.T. 0.02 min
Lab File: VL037715.D
Acq: 28 Sep 2021 23:10

Tgt Ion:105 Resp: 95290
Ion Ratio Lower Upper
105 100
120 30.9 24.7 37.1
91 20.7 9.9 14.9#
77 31.9 10.5 15.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.380 ppbv

RT: 16.00

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

SV4DL

Acq: 28 Sep 2021 23:10

Tgt Ion:1

Ion Rati

105 100

120 41.

Manual Integrations

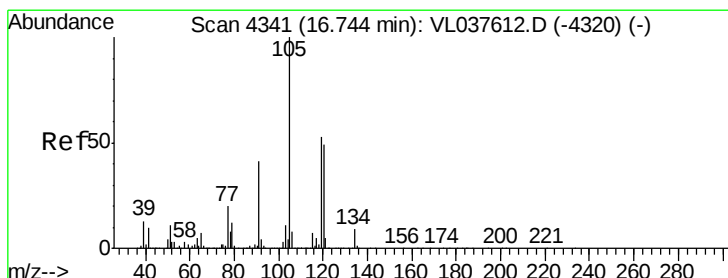
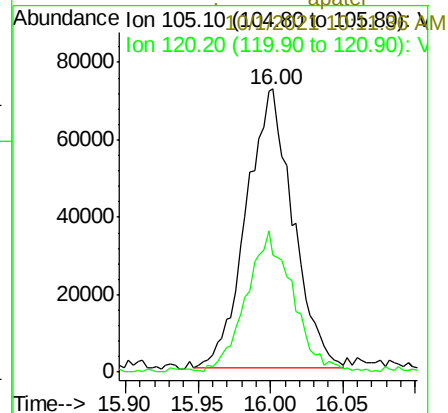
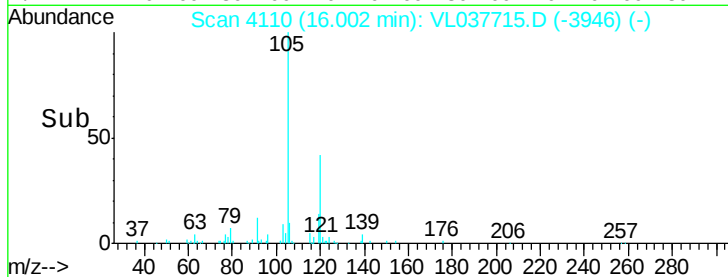
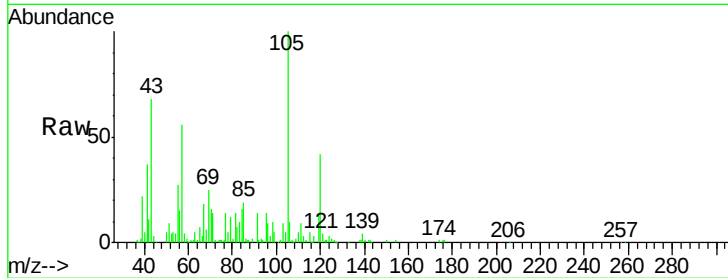
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Supervised By :Amit Patel 10/01/2021

Supervised By

: apatel



#74

1,2,4-Trimethylbenzene

Concen: 0.946 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. 0.02 min

Lab File: VL037715.D

Acq: 28 Sep 2021 23:10

Tgt Ion:105 Resp: 424765

Ion Ratio Lower Upper

105 100

120 39.8 39.4 59.0

91 16.0 33.3 49.9#

77 14.4 15.7 23.5#

