

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040721\
 Data File : VL036740.D
 Acq On : 7 Apr 2021 23:59
 Operator : SY/AP
 Sample : M1929-08DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FS-SV02DL

Manual Integrations
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 4/12/2021 11:16:32 AM

Quant Time: Apr 10 23:25:43 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr 08 01:58:43 2021
 QLast Update : Thu Apr 08 01:58:43 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1246080	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3091407	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	2680953	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	2054313	9.61	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	2297229	30.952	ppbv	90
10) Heptane	8.11	43	31210	0.165	ppbv #	28
13) Ethanol	3.61	45	132627m	15.006	ppbv	
20) Methylene Chloride	4.34	84	33684m	0.587	ppbv	
26) Hexane	5.68	57	736678	5.444	ppbv #	45
27) Carbon Disulfide	4.54	76	137249	1.030	ppbv	94
30) Cyclohexane	7.13	84	122821	1.119	ppbv	92
36) Benzene	6.88	78	1198147	4.202	ppbv	99
44) 2,2,4-Trimethylpentane	7.86	57	798061	1.590	ppbv #	88
53) Toluene	9.80	91	802061	2.642	ppbv	99
58) Ethyl Benzene	12.71	91	103015	0.264	ppbv	92
59) m/p-Xylene	12.99	91	81069m	0.238	ppbv	

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

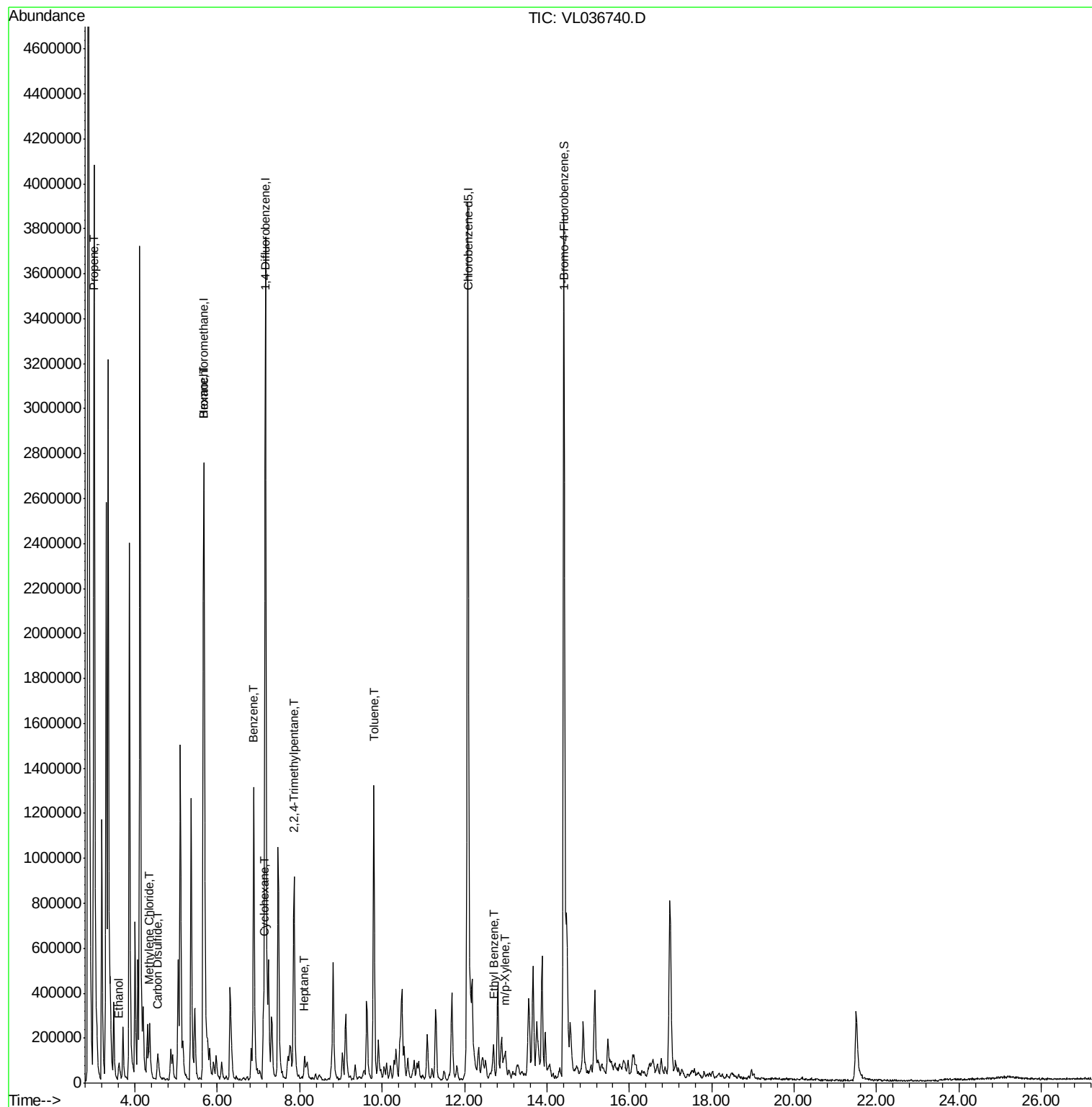
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040721\
Data File : VL036740.D
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Sample : M1929-08DL 10X
Misc : 400mL/MSVOA L
ALS Vial : 10 Sample Multiplier: 1

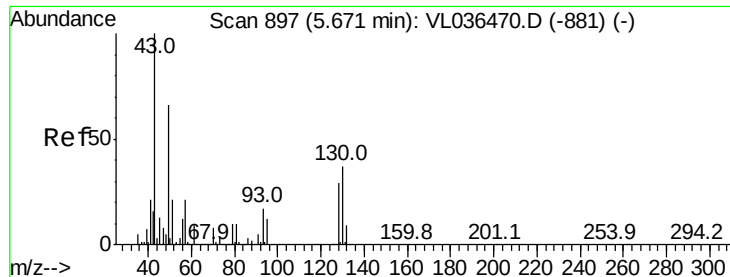
Instrument :
MSVOA_L
ClientSampleId :
FS-SV02DL

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Quant Time: Apr 10 23:25:43 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Apr
QLast Update : Thu Apr 08 01:58:43 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: VL036740.D

Acq: 7 Apr 2021 23:59

Instrument :

MSVOA_L

ClientSampleId :

FS-SV02DL

Tot Ion: 49 Resp: 1246080

Ion Ratio Lower Upper

49 100

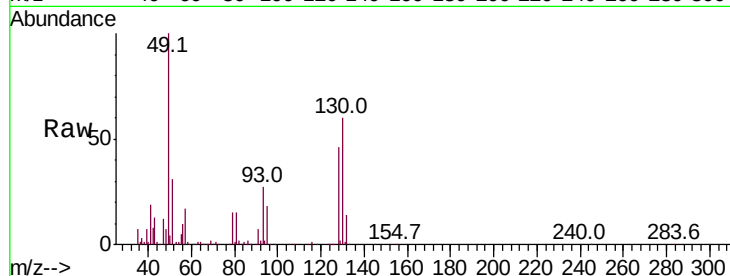
128 46.8 23.5 70.6

130 59.9 29.1 87.4

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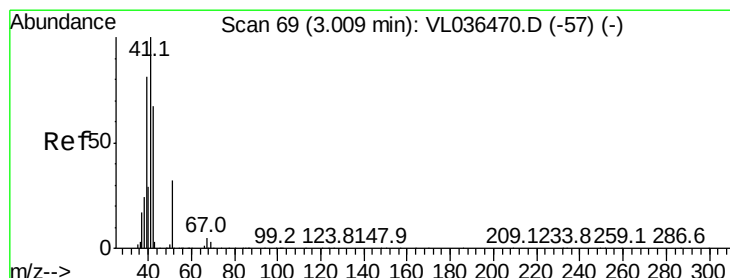
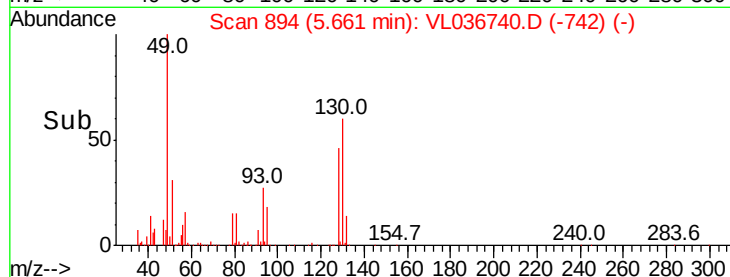
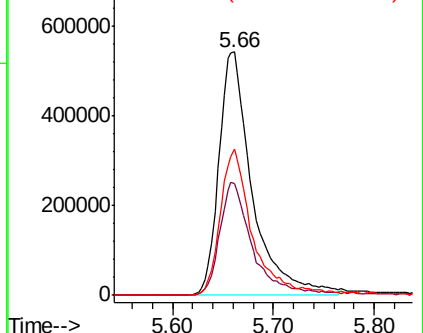
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#9

Propene

Concen: 30.952 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL036740.D

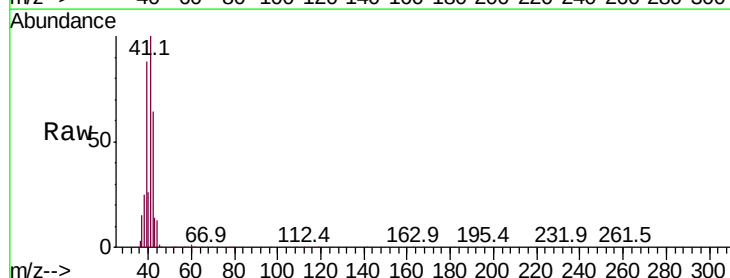
Acq: 7 Apr 2021 23:59

Tgt Ion: 41 Resp: 2297229

Ion Ratio Lower Upper

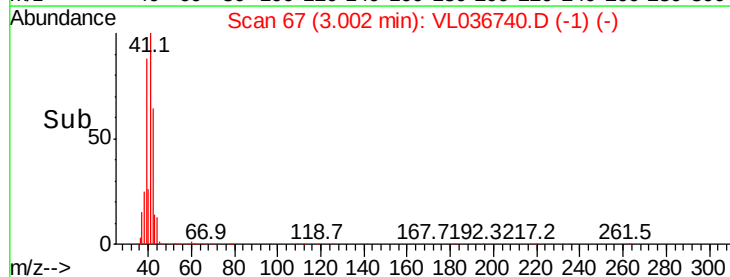
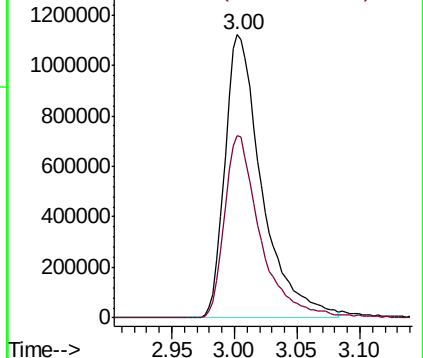
41 100

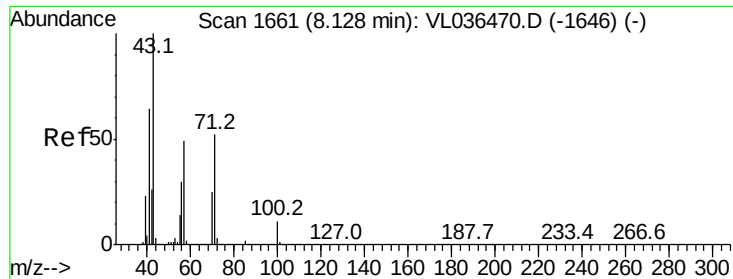
42 62.9 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





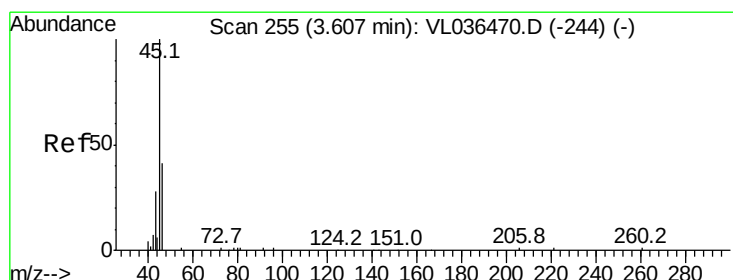
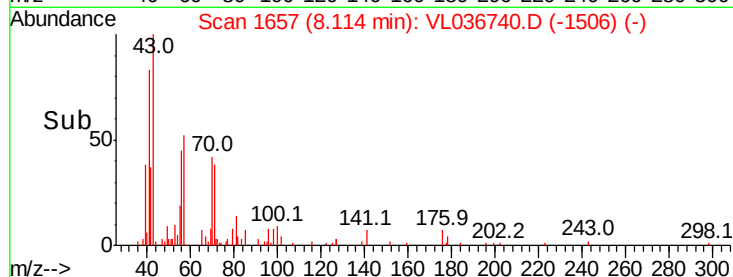
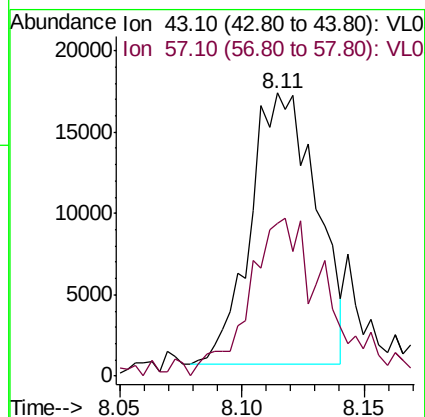
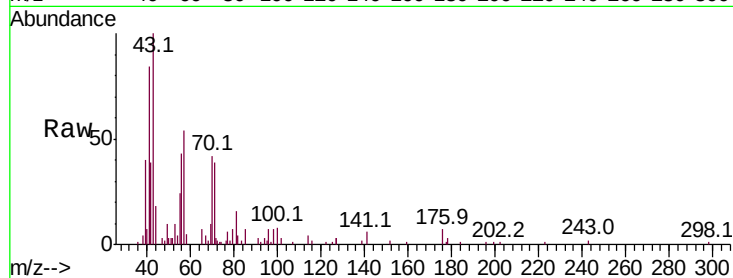
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Heptane
Concen: 0.165 ppbv
RT: 8.11 min Scan# 1657
Delta R.T. -0.01 min
Lab File: VL036740.D
Acq: 7 Apr 2021 23:59

Instrument :
MSVOA_L
ClientSampleId :
FS-SV02DL

Tot Ion: 43 Resp: 31210
Ion Ratio Lower Upper
43 100
57 0.0 39.0 58.6#

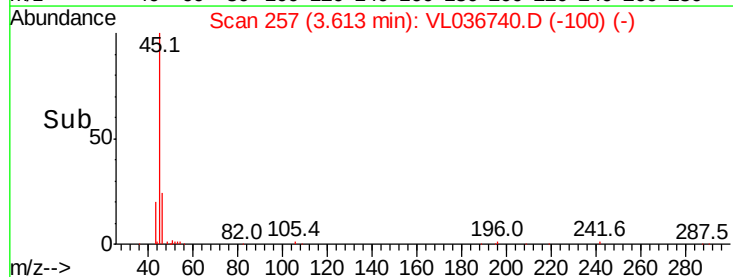
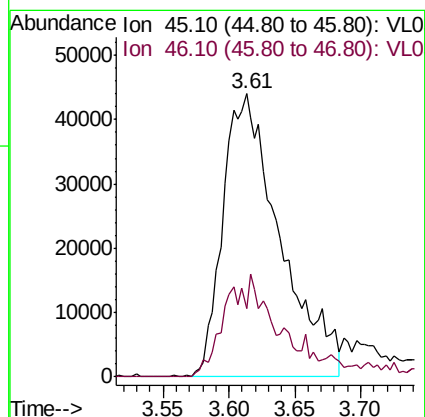
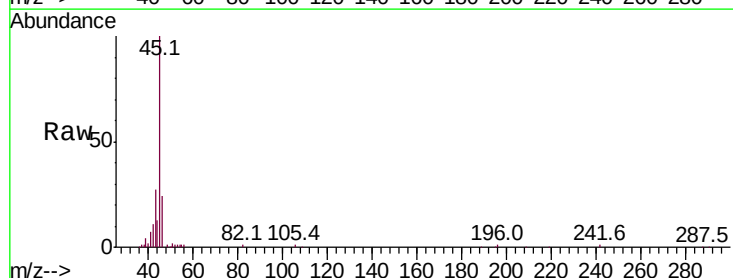
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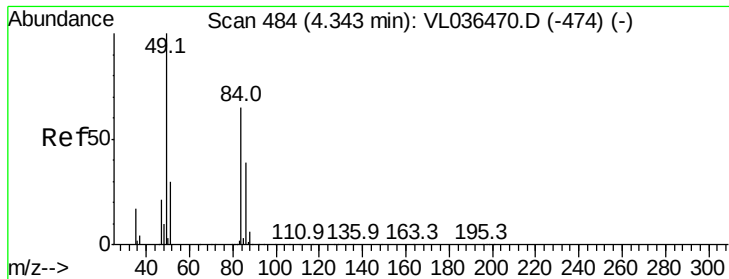
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#13
Ethanol
Concen: 15.006 ppbv m
RT: 3.61 min Scan# 257
Delta R.T. 0.01 min
Lab File: VL036740.D
Acq: 7 Apr 2021 23:59

Tgt Ion: 45 Resp: 132627
Ion Ratio Lower Upper
45 100
46 0.0 16.6 66.2#





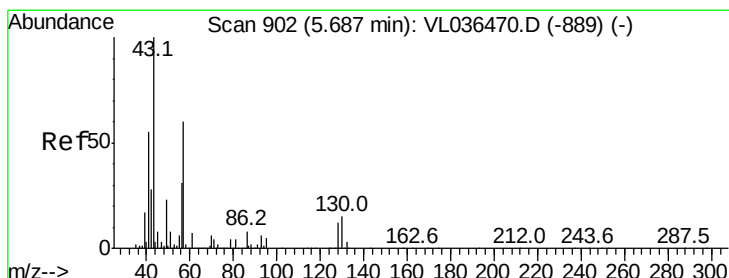
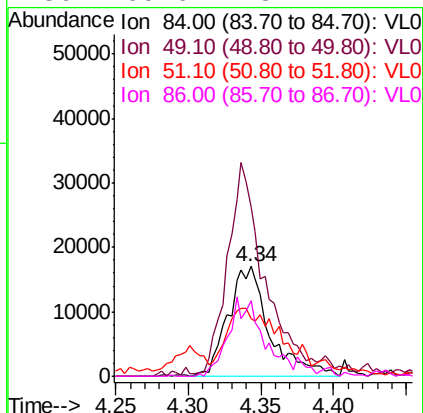
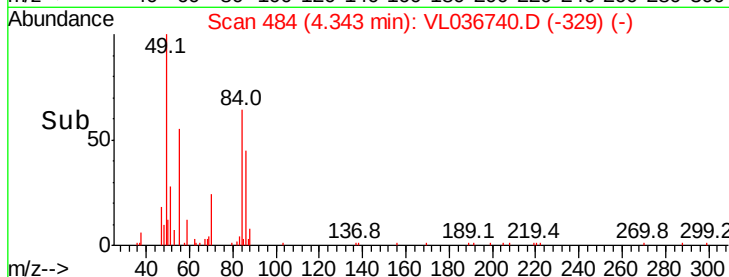
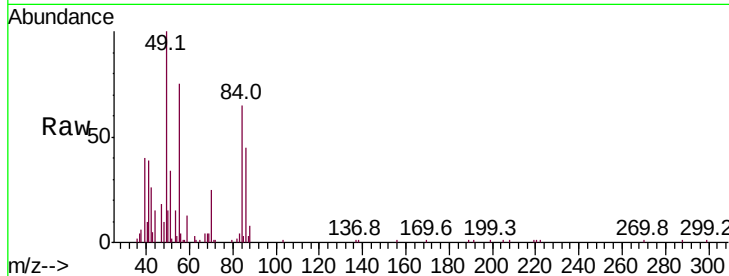
#20
Methvlene Chloride
Concen: 0.587 ppbv m
RT: 4.34 min Scan# 484
Delta R.T. -0.00 min
Lab File: VL036740.D
Acq: 7 Apr 2021 23:59

Instrument :
MSVOA_L
ClientSampled :
FS-SV02DL

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	154.2	122.9	184.3	
51	52.2	36.9	55.3	
86	69.6	48.2	72.4	

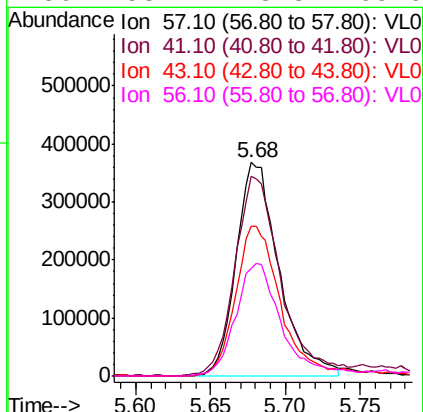
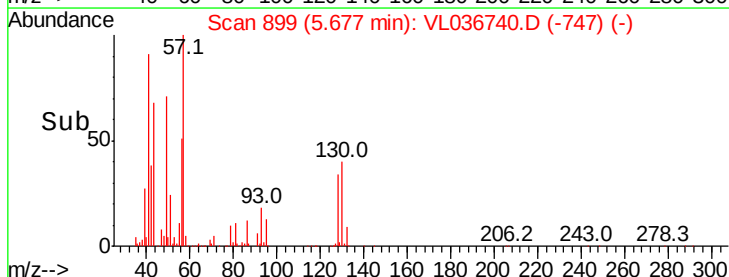
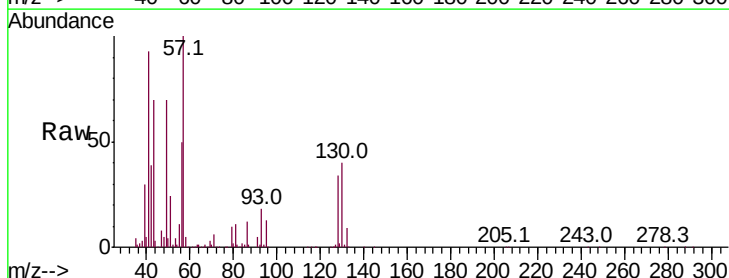
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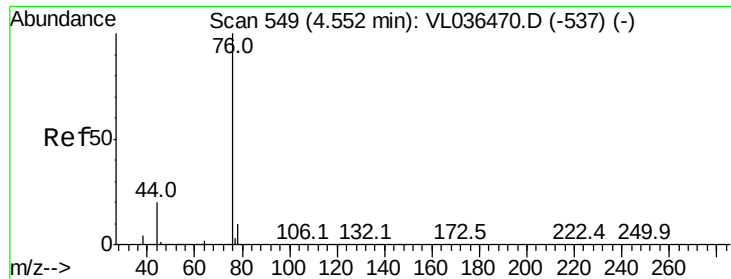
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#26
Hexane
Concen: 5.444 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL036740.D
Acq: 7 Apr 2021 23:59

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	104.2	77.2	115.8	
43	76.4	173.8	260.6#	
56	58.4	43.8	65.6	





#27

Carbon Disulfide

Concen: 1.030 ppbv

RT: 4.54 min Scan# 546

Delta R.T. -0.01 min

Lab File: VL036740.D

Acq: 7 Apr 2021 23:59

Instrument :

MSVOA_L

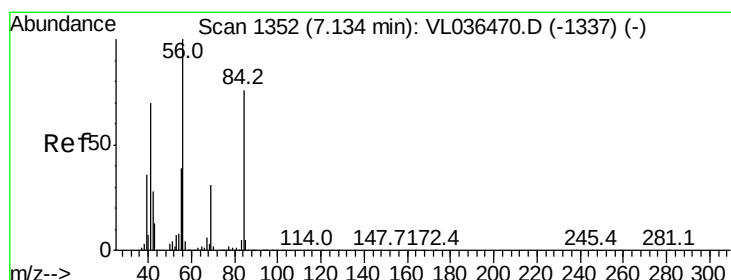
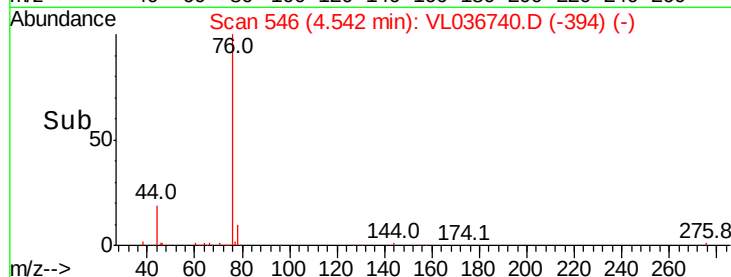
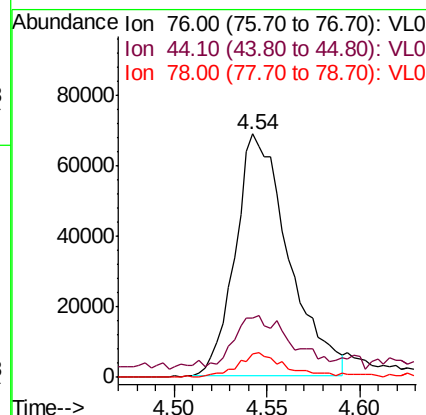
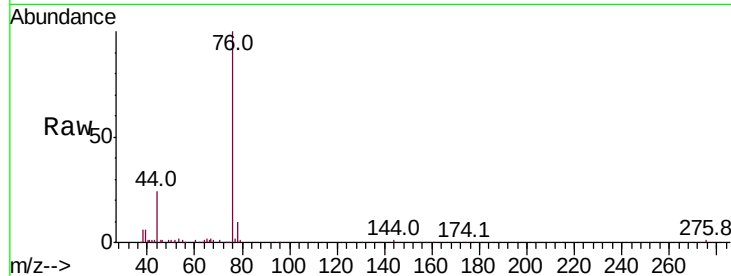
ClientSampleId :

FS-SV02DL

Tot Ion:	76	Resp:	137249
Ion Ratio	Lower	Upper	
76	100		
44	26.1	17.5	26.3
78	10.8	8.6	13.0

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#30

Cyclohexane

Concen: 1.119 ppbv

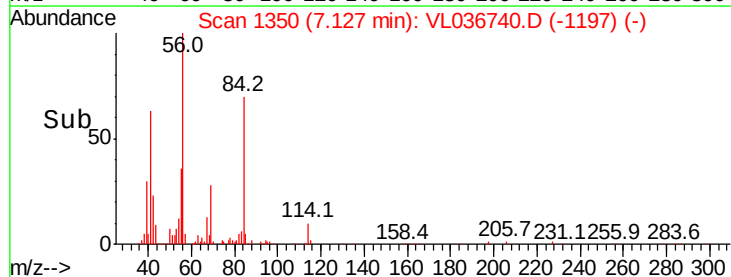
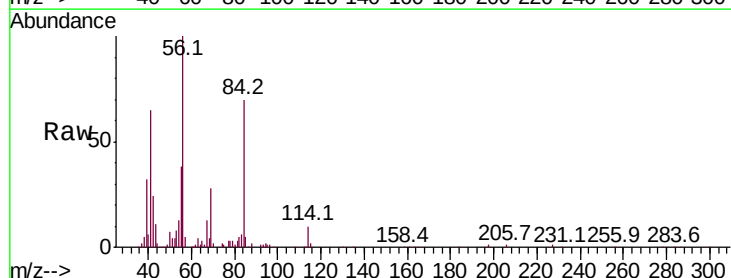
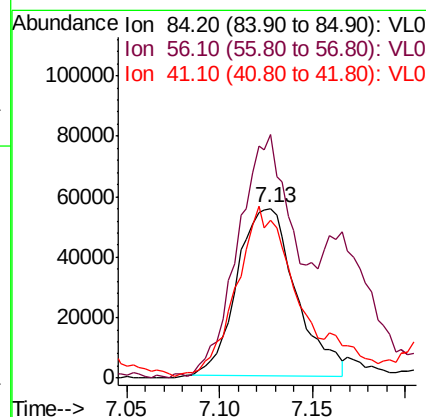
RT: 7.13 min Scan# 1350

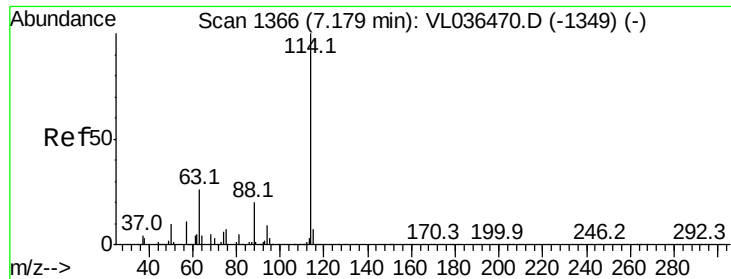
Delta R.T. -0.01 min

Lab File: VL036740.D

Acq: 7 Apr 2021 23:59

Tgt Ion:	84	Resp:	122821
Ion Ratio	Lower	Upper	
84	100		
56	141.3	114.6	171.8
41	110.3	75.3	112.9





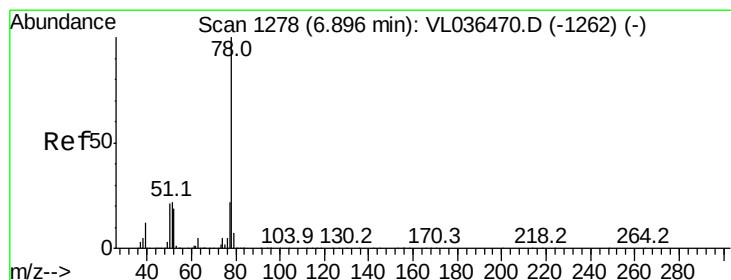
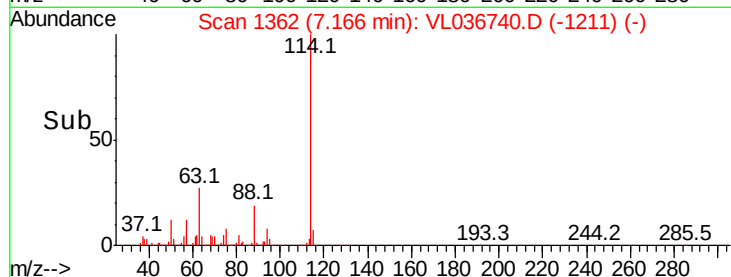
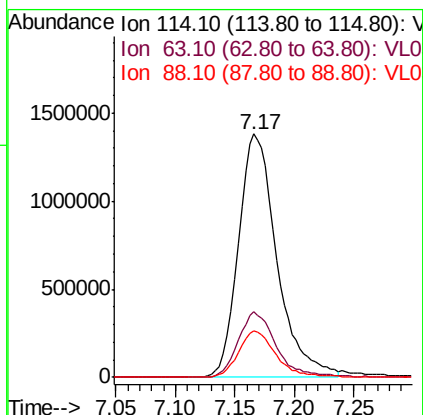
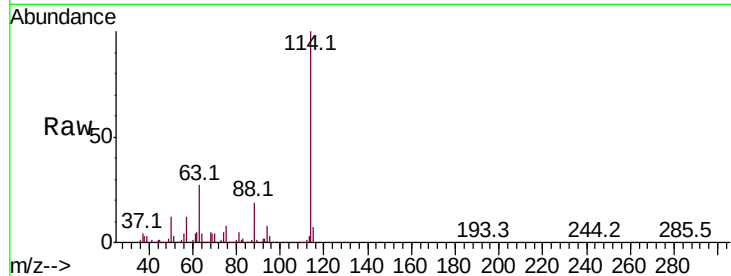
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.01 min
 Lab File: VL036740.D
 Acq: 7 Apr 2021 23:59

Instrument :
 MSVOA_L
 ClientSampleId :
 FS-SV02DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.1	22.4	33.6
88	18.9	15.4	23.0

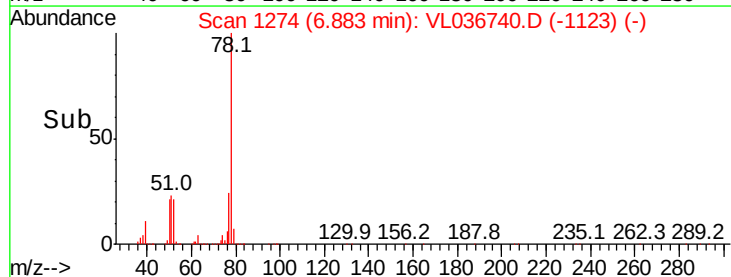
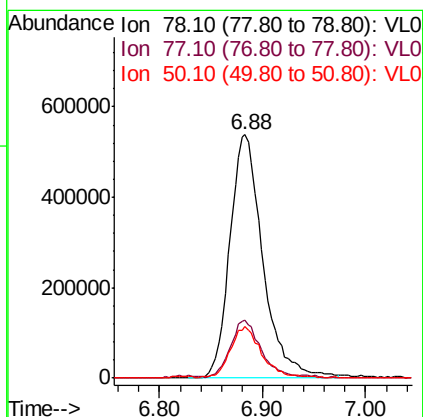
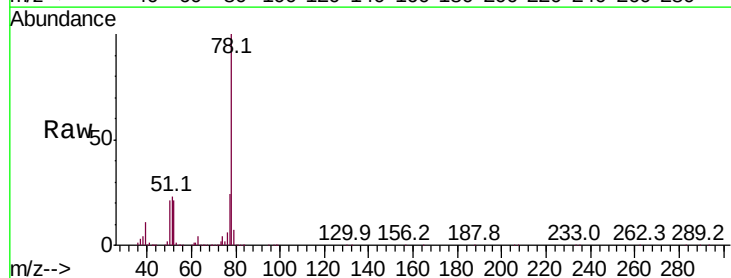
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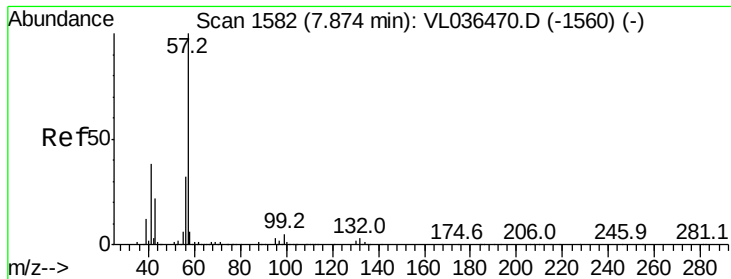
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#36
 Benzene
 Concen: 4.202 ppbv
 RT: 6.88 min Scan# 1274
 Delta R.T. -0.01 min
 Lab File: VL036740.D
 Acq: 7 Apr 2021 23:59

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.0	27.0
50	21.0	16.5	24.7





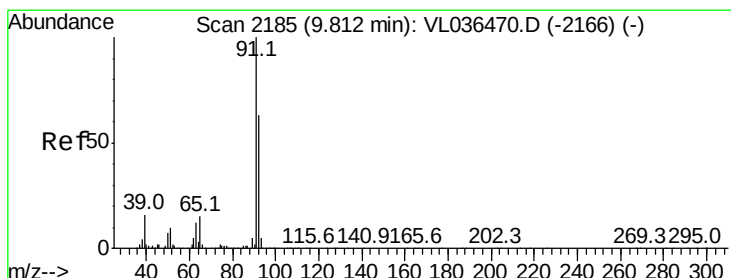
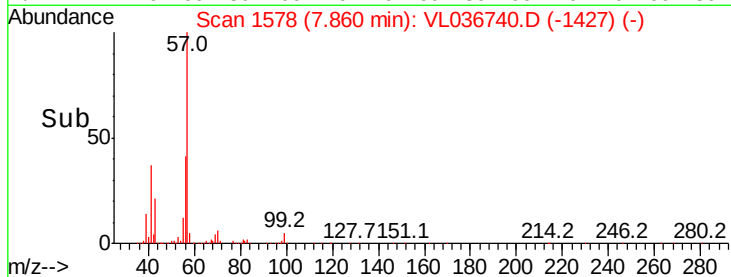
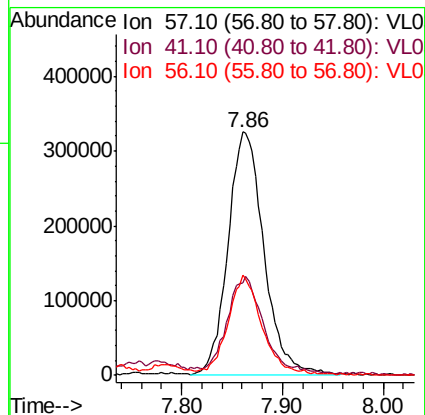
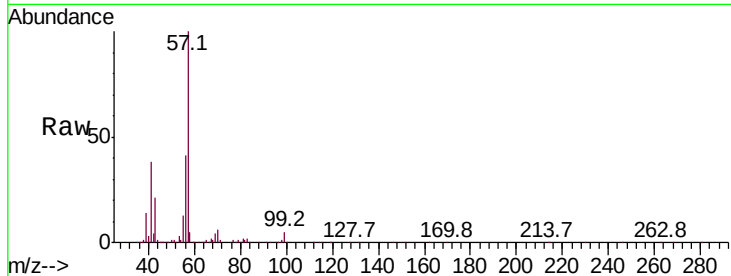
#44
 2,2,4-Trimethylpentane
 Concen: 1.590 ppbv
 RT: 7.86 min Scan# 1578
 Delta R.T. -0.01 min
 Lab File: VL036740.D
 Acq: 7 Apr 2021 23:59

Instrument :
 MSVOA_L
 ClientSampleId :
 FS-SV02DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	43.5	28.8	43.2#
56	38.8	26.1	39.1

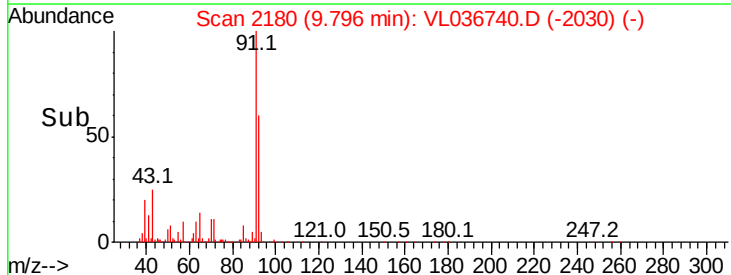
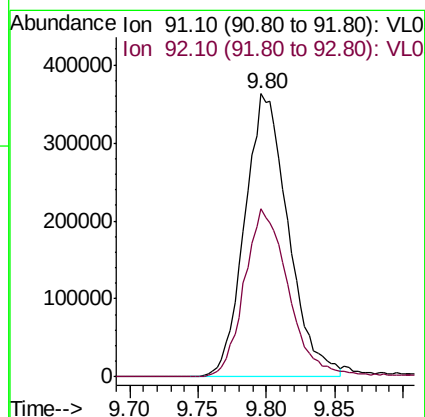
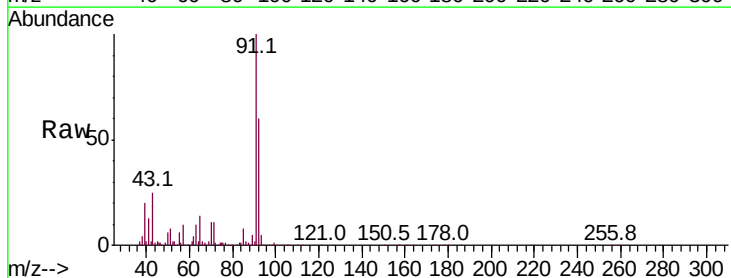
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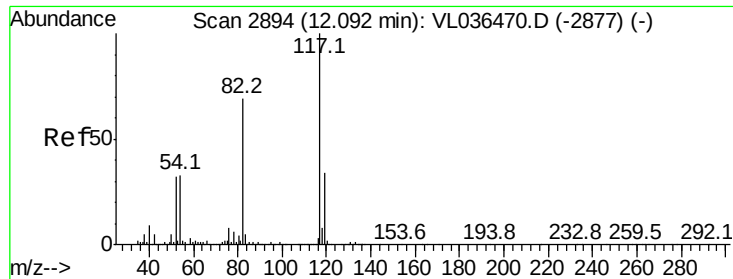
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#53
 Toluene
 Concen: 2.642 ppbv
 RT: 9.80 min Scan# 2180
 Delta R.T. -0.02 min
 Lab File: VL036740.D
 Acq: 7 Apr 2021 23:59

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.5	48.8	73.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.01 min

Lab File: VL036740.D

Acq: 7 Apr 2021 23:59

Instrument :

MSVOA_L

ClientSampleId :

FS-SV02DL

Tot Ion:117 Resp: 2680953

Ion Ratio Lower Upper

117 100

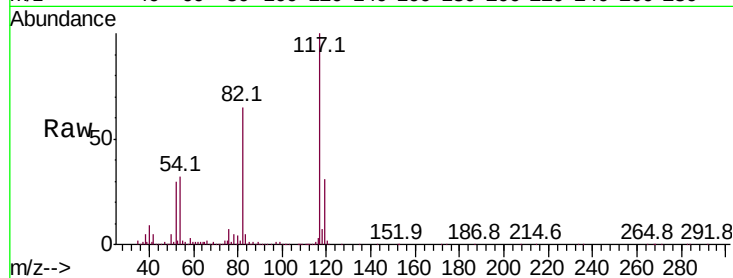
82 67.3 57.4 86.0

119 34.1 47.4 71.0#

Manual Integrations
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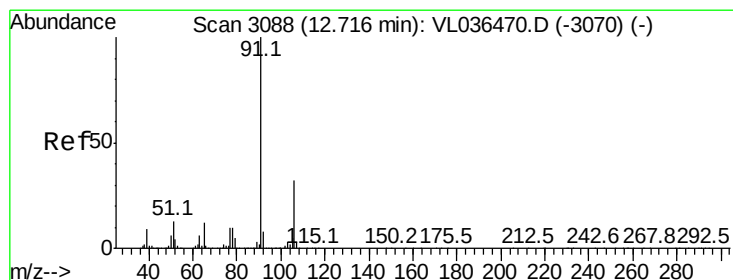
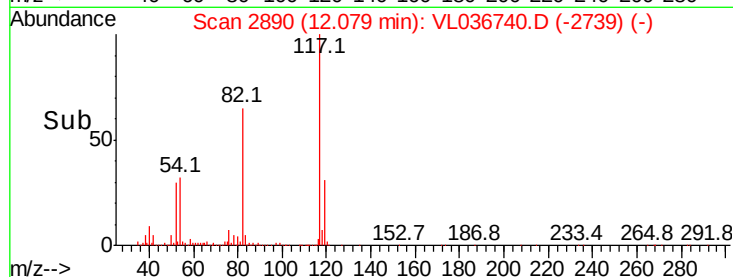
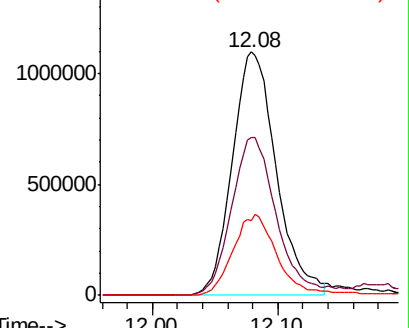
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Abundance Ion 117.10 (116.80 to 117.80): V

1500000 Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.264 ppbv

RT: 12.71 min Scan# 3086

Delta R.T. -0.01 min

Lab File: VL036740.D

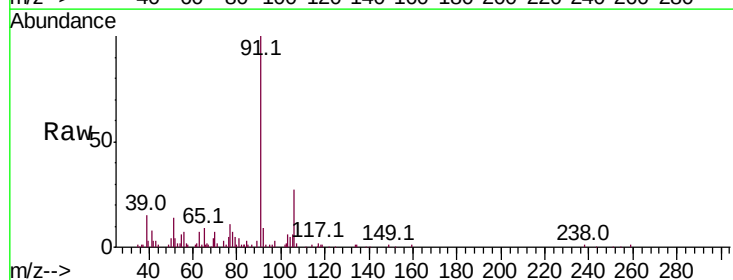
Acq: 7 Apr 2021 23:59

Tgt Ion: 91 Resp: 103015

Ion Ratio Lower Upper

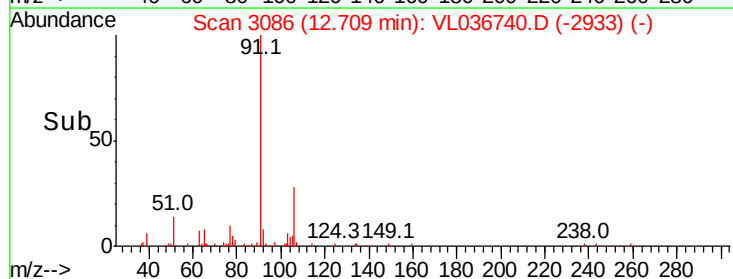
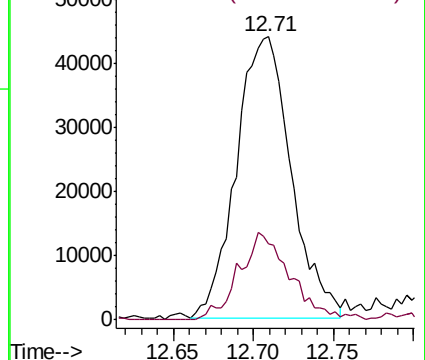
91 100

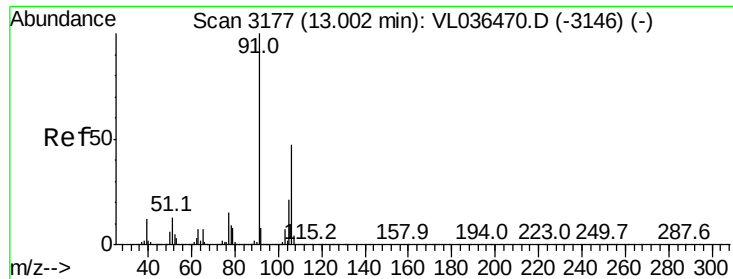
106 27.2 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





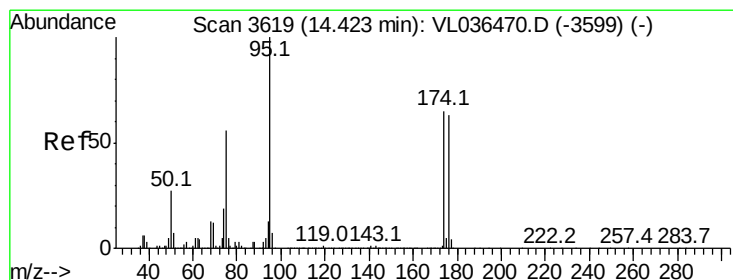
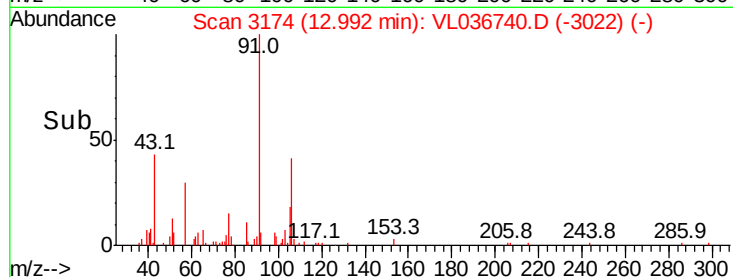
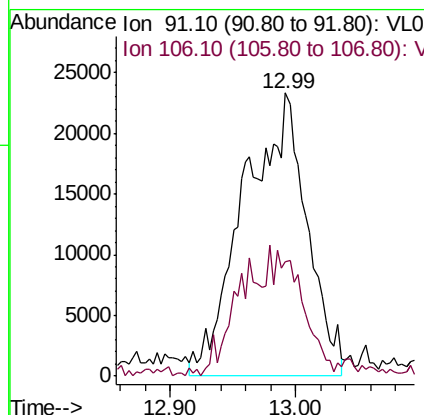
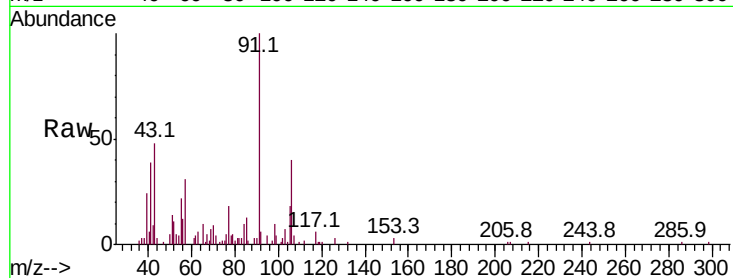
#59
m/p-Xylene
Concen: 0.238 ppbv m
RT: 12.99 min Scan# 3174
Delta R.T. -0.01 min
Lab File: VL036740.D
Acq: 7 Apr 2021 23:59

Instrument :
MSVOA_L
ClientSampled :
FS-SV02DL

Tot Ion: 91 Resp: 81069
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

Manual Integrations
APPROVED

MMDadoda
4/12/2021 11:16:32 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.614 ppbv
RT: 14.41 min Scan# 3615
Delta R.T. -0.01 min
Lab File: VL036740.D
Acq: 7 Apr 2021 23:59

Tgt Ion: 95 Resp: 2054313
Ion Ratio Lower Upper
95 100
174 69.0 51.0 76.6
175 4.5 3.9 5.9

