

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033121\
 Data File : VL036614.D
 Acq On : 31 Mar 2021 23:20
 Operator : SY/AP
 Sample : M1807-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG2DL

Manual Integrations
 APPROVED

MMDadoda
 4/2/2021 6:53:33 PM

Quant Time: Apr 02 15:37:21 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1606937	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3763579	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3468194	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2692778	9.74	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	42792m	0.447	ppbv	
10) Heptane	8.14	43	41570m	0.170	ppbv	
13) Ethanol	3.61	45	127028	11.145	ppbv	97
15) Acetone	3.86	43	854862	5.405	ppbv	99
17) tert-Butyl alcohol	4.32	59	96895m	0.704	ppbv	
19) Isopropyl Alcohol	3.98	45	225865m	2.596	ppbv	
27) Carbon Disulfide	4.56	76	42476	0.247	ppbv #	78
29) Chloroform	5.76	83	72980m	0.262	ppbv	
36) Benzene	6.91	78	63924m	0.184	ppbv	
53) Toluene	9.82	91	167183	0.452	ppbv	91
59) m/p-Xylene	12.98	91	104490m	0.237	ppbv	
60) o-Xylene	13.71	91	37092m	0.087	ppbv	
61) Styrene	13.55	104	37926	0.177	ppbv #	78
62) Isopropylbenzene	14.69	105	1144628	1.997	ppbv	100

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

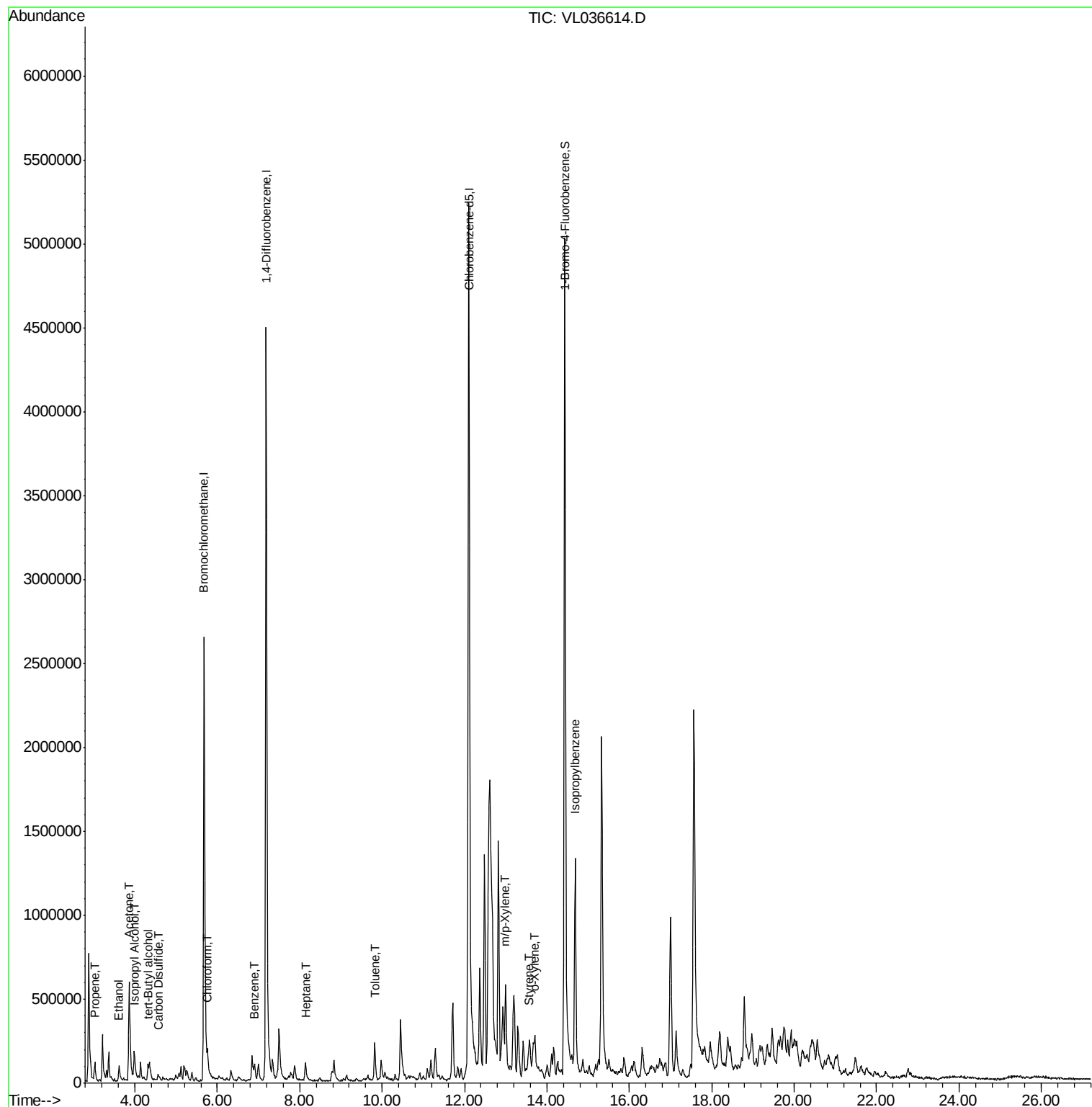
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL033121\
Data File : VL036614.D
Acq On : 31 Mar 2021 23:20
Operator : SY/AP
Sample : M1807-02DL 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

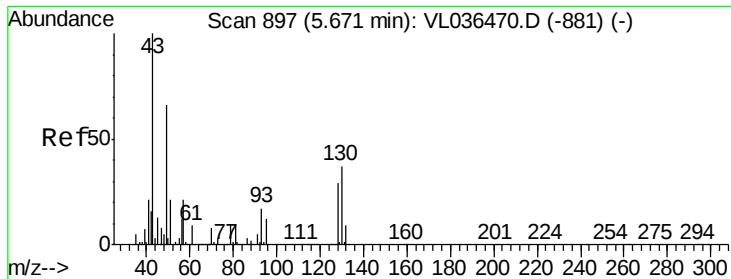
Instrument :
MSVOA_L
ClientSampleId :
SG2DL

Manual Integrations
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4/2/2021 6:53:33 PM

Quant Time: Apr 02 15:37:21 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.01 min

Lab File: VL036614.D

Acq: 31 Mar 2021 23:20

Instrument :

MSVOA_L

ClientSampleID :

SG2DL

Tot Ion: 49 Resp: 1606937

Ion Ratio Lower Upper

49 100

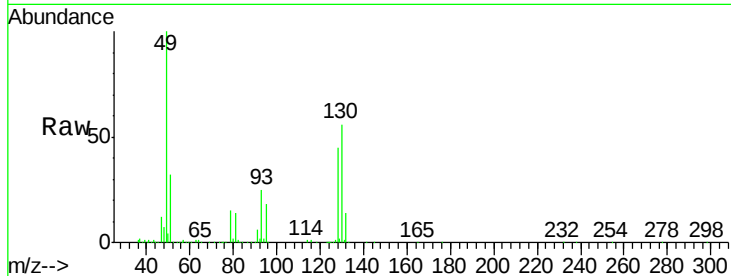
128 45.3 23.5 70.6

130 58.2 29.1 87.4

Manual Integrations
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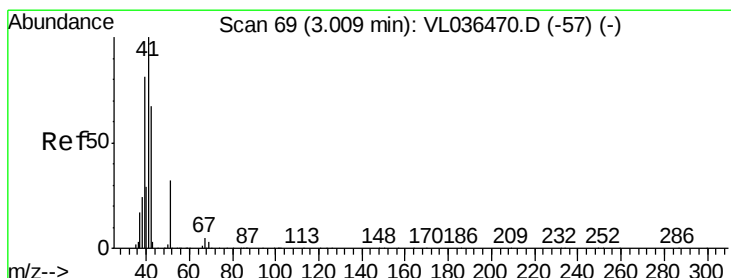
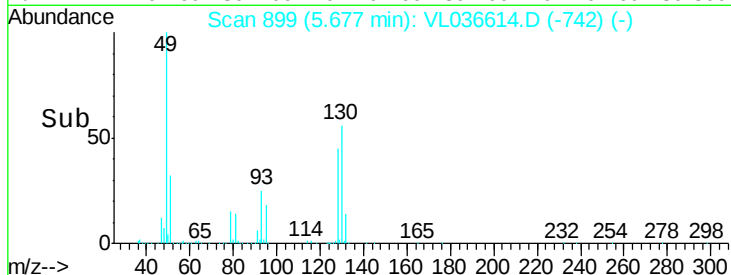
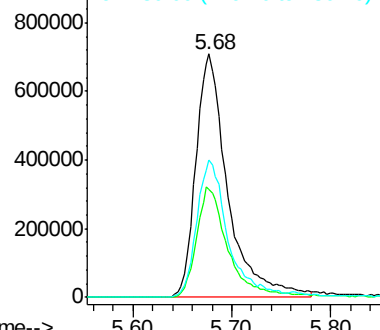
4/2/2021 6:53:33 PM



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: 0.447 ppbv m

RT: 3.01 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL036614.D

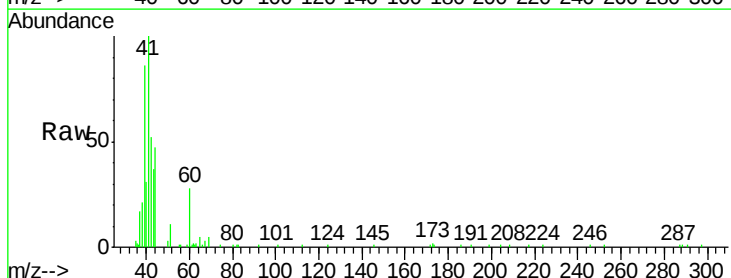
Acq: 31 Mar 2021 23:20

Tgt Ion: 41 Resp: 42792

Ion Ratio Lower Upper

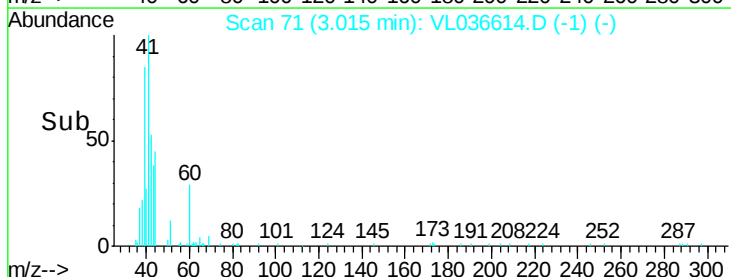
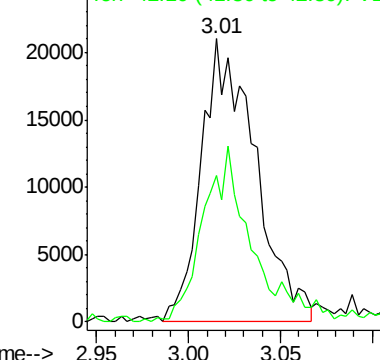
41 100

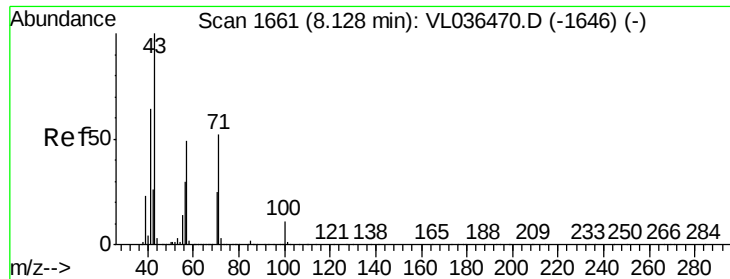
42 0.0 57.0 85.4#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





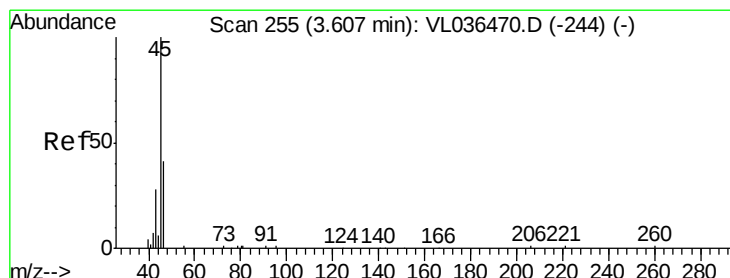
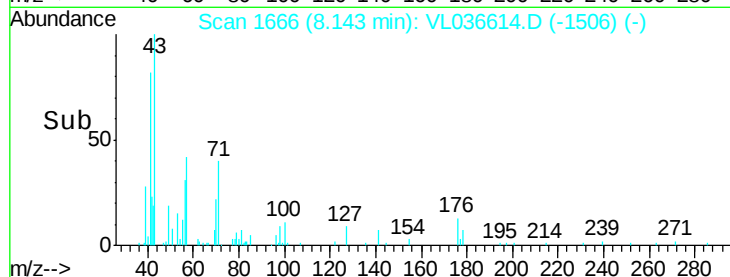
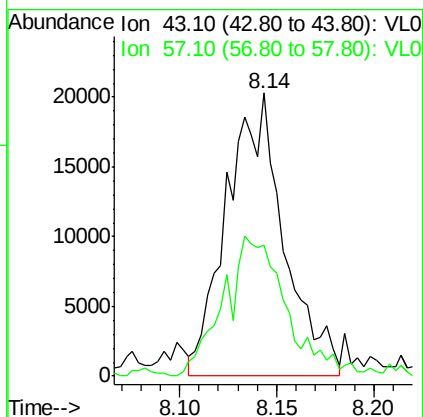
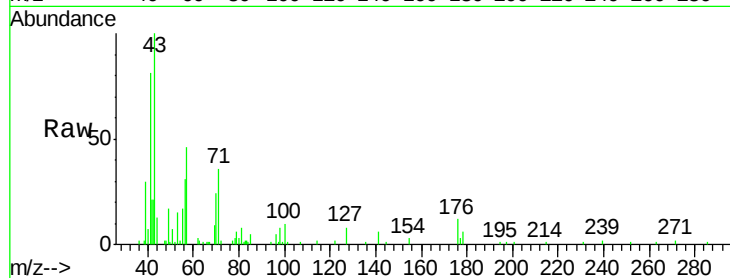
#10
Heptane
Concen: 0.170 ppbv m
RT: 8.14 min Scan# 1666
Delta R.T. 0.02 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

Instrument :
MSVOA_L
ClientSampleId :
SG2DL

Tot Ion: 43 Resp: 41570
Ion Ratio Lower Upper
43 100
57 53.8 39.0 58.6

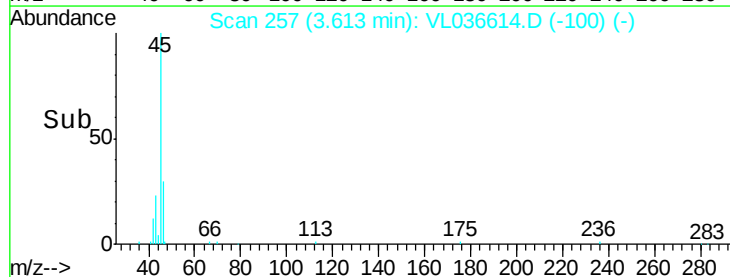
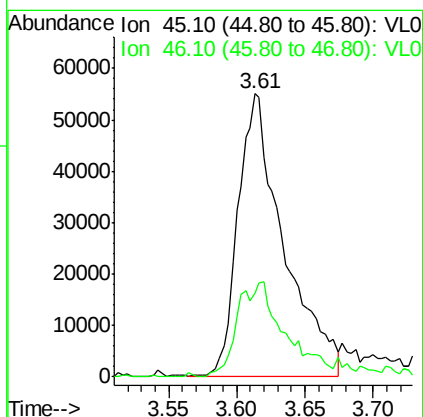
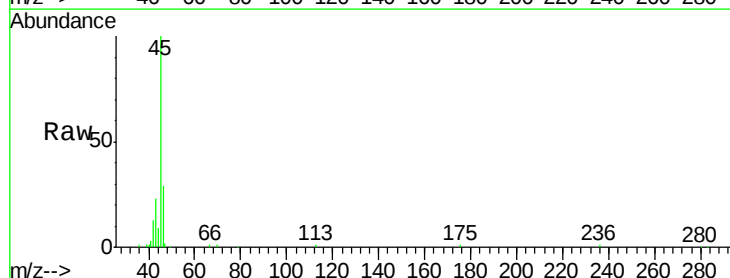
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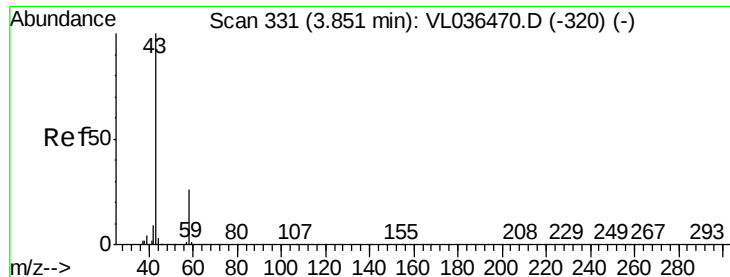
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#13
Ethanol
Concen: 11.145 ppbv
RT: 3.61 min Scan# 257
Delta R.T. 0.01 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

Tgt Ion: 45 Resp: 127028
Ion Ratio Lower Upper
45 100
46 39.6 16.6 66.2





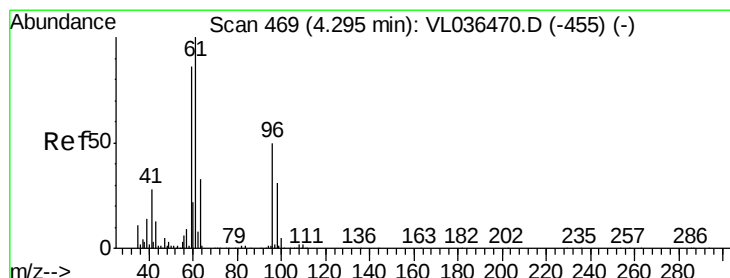
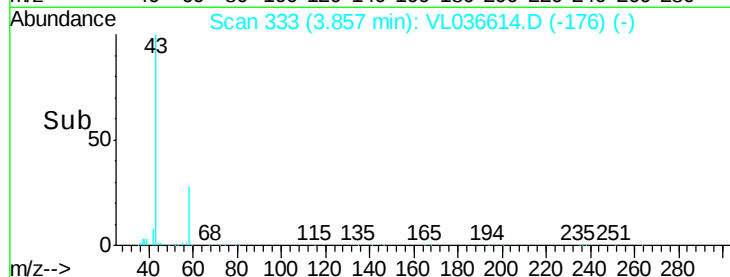
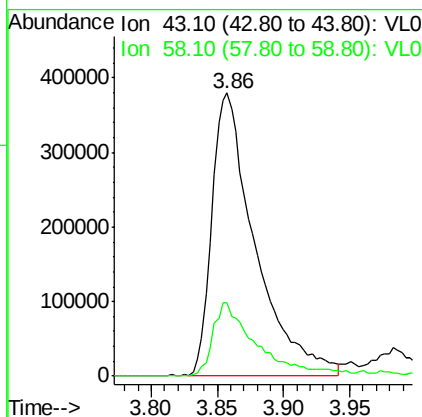
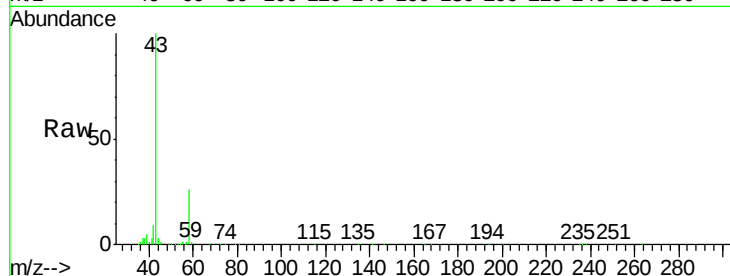
#15
Acetone
Concen: 5.405 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.01 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

Instrument :
MSVOA_L
ClientSampleId :
SG2DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	26.8	21.2	31.8

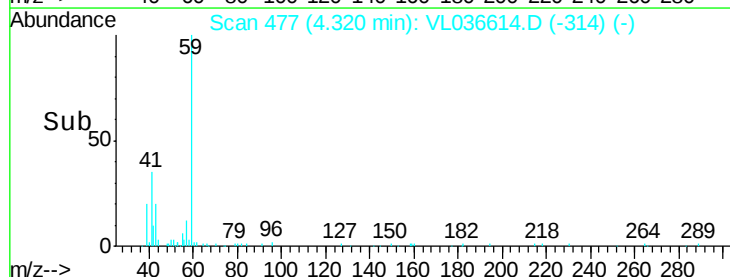
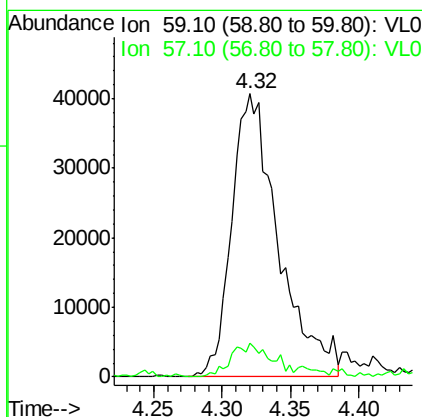
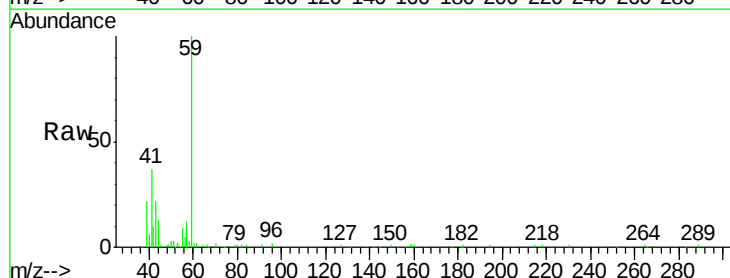
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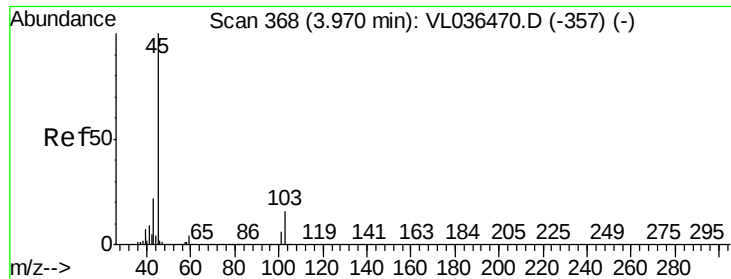
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#17
tert-Butyl alcohol
Concen: 0.704 ppbv m
RT: 4.32 min Scan# 477
Delta R.T. 0.03 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

Tgt Ion	Ratio	Lower	Upper
59	100		
57	13.0	8.6	12.8#





#19

Isopropyl Alcohol

Concen: 2.596 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.01 min

Lab File: VL036614.D

Acq: 31 Mar 2021 23:20

Instrument :

MSVOA_L

ClientSampled :

SG2DL

Tot Ion: 45 Resp: 225865

Ion Ratio Lower Upper

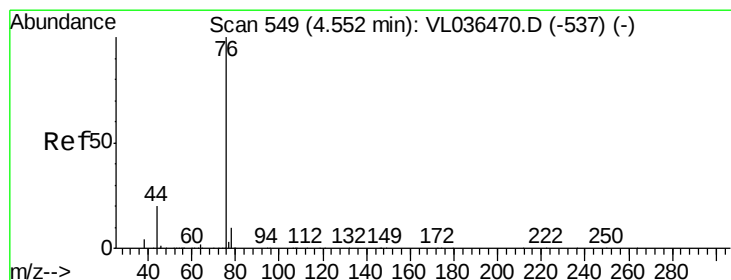
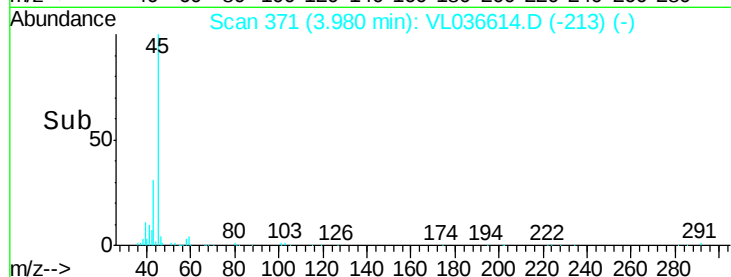
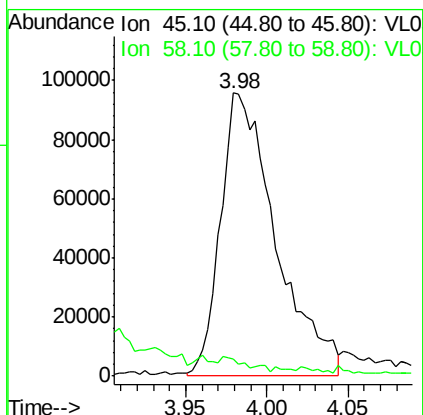
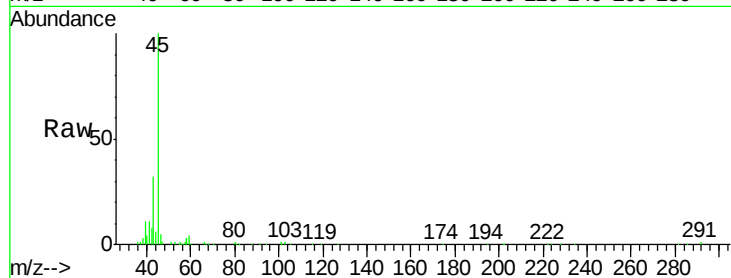
45 100

58 0.0 2.9 4.3#

Manual Integrations
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#27

Carbon Disulfide

Concen: 0.247 ppbv

RT: 4.56 min Scan# 551

Delta R.T. 0.01 min

Lab File: VL036614.D

Acq: 31 Mar 2021 23:20

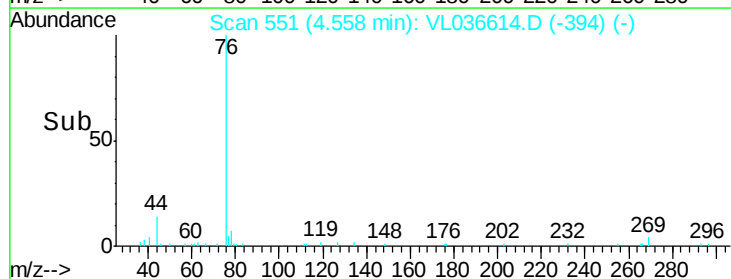
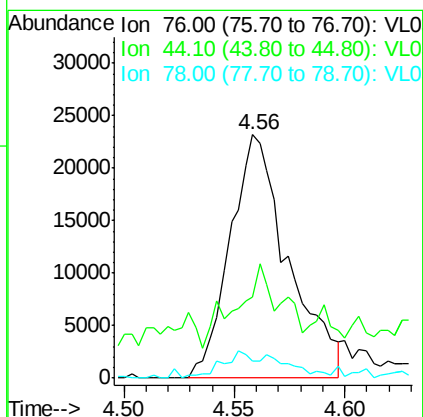
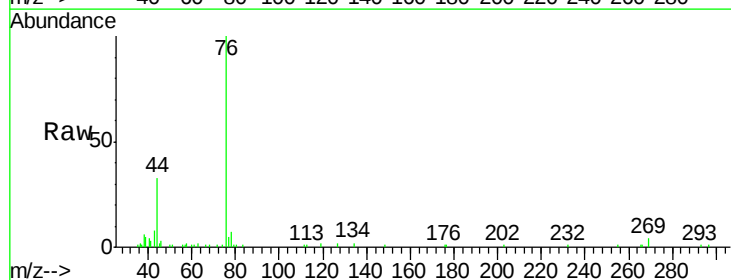
Tgt Ion: 76 Resp: 42476

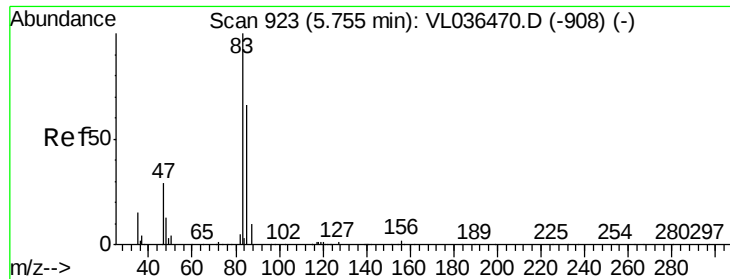
Ion Ratio Lower Upper

76 100

44 35.3 17.5 26.3#

78 14.3 8.6 13.0#





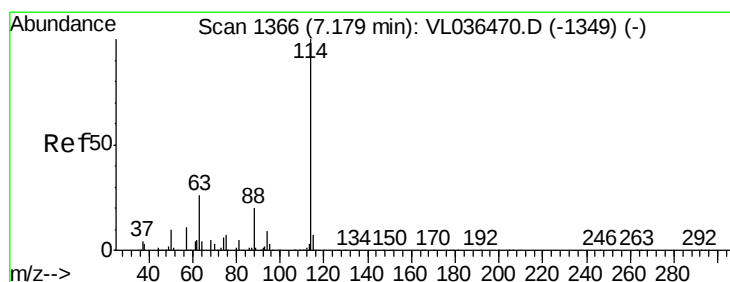
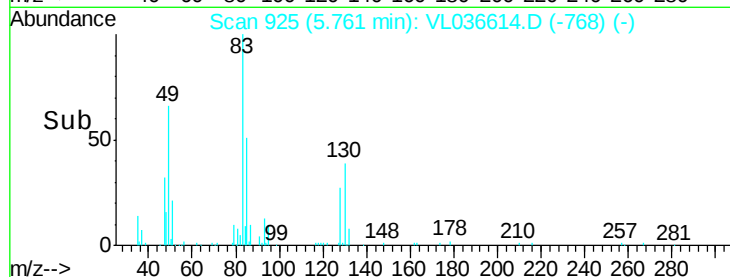
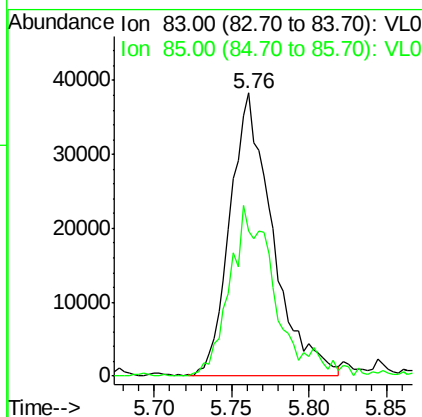
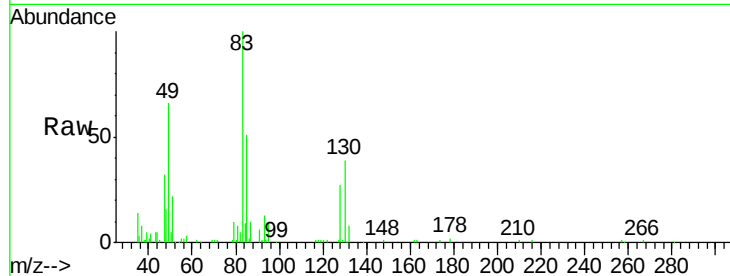
#29
Chloroform
Concen: 0.262 ppbv m
RT: 5.76 min Scan# 925
Delta R.T. 0.01 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

Instrument :
MSVOA_L
ClientSampleId :
SG2DL

Tot Ion: 83 Resp: 72980
Ion Ratio Lower Upper
83 100
85 51.3 52.6 78.8#

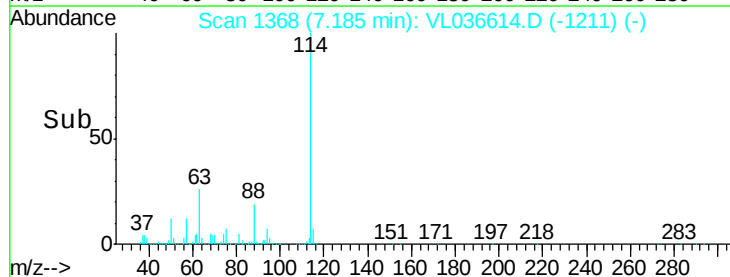
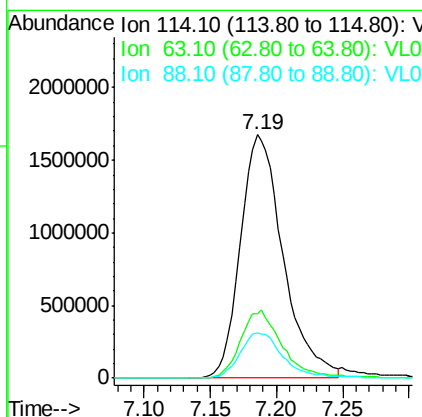
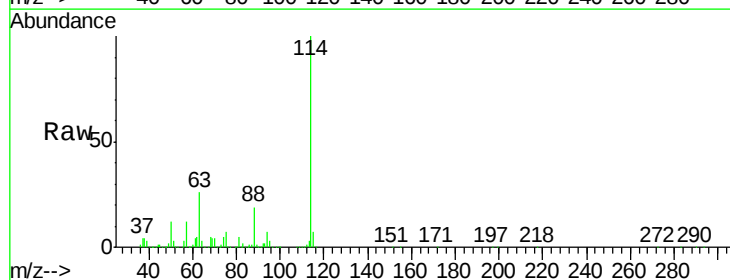
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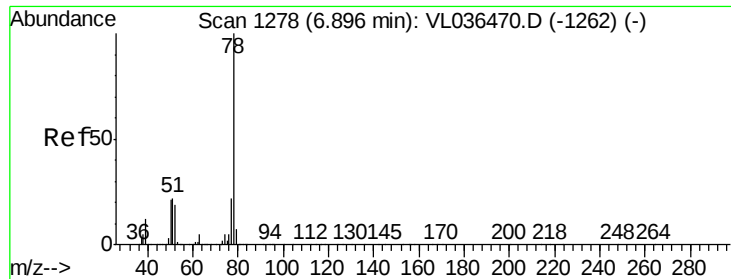
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. 0.01 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

Tgt Ion: 114 Resp: 3763579
Ion Ratio Lower Upper
114 100
63 27.7 22.4 33.6
88 19.2 15.4 23.0





#36

Benzene

Concen: 0.184 ppbv m

RT: 6.91 min Scan# 1282

Delta R.T. 0.01 min

Lab File: VL036614.D

Acq: 31 Mar 2021 23:20

Instrument :

MSVOA_L

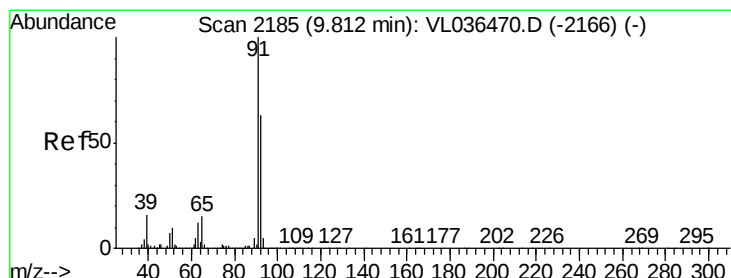
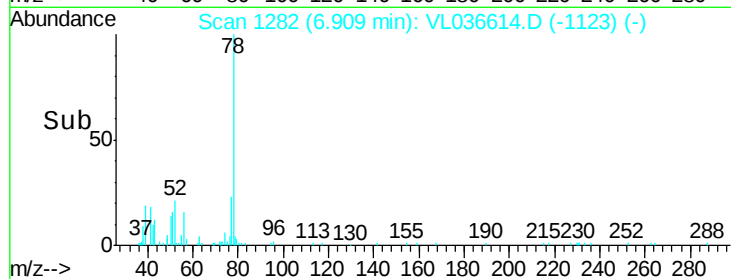
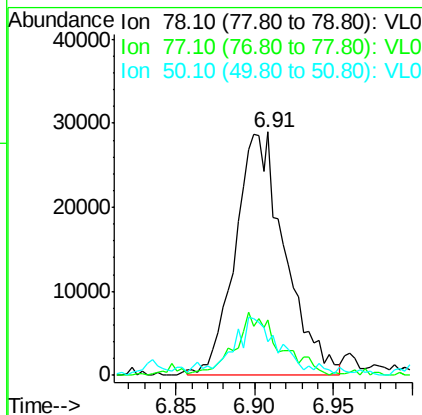
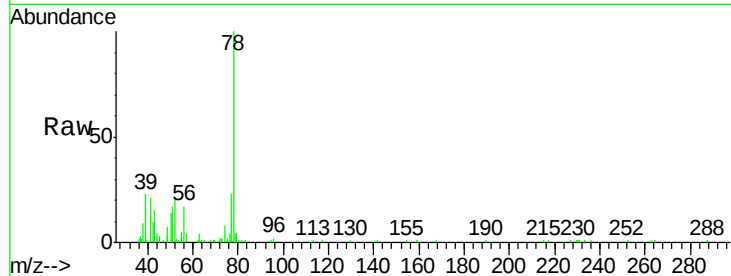
ClientSampleId :

SG2DL

Tot Ion:	78	Resp:	63924
Ion	Ratio	Lower	Upper
78	100		
77	22.6	18.0	27.0
50	13.7	16.5	24.7#

Manual Integrations
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#53

Toluene

Concen: 0.452 ppbv

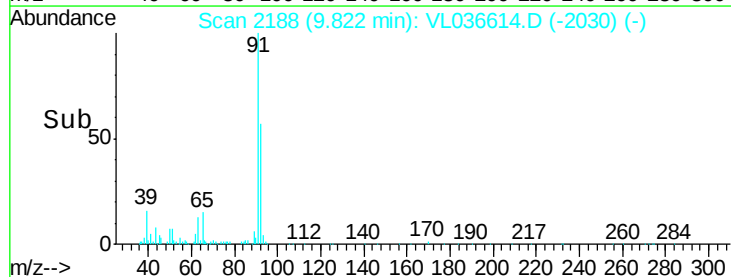
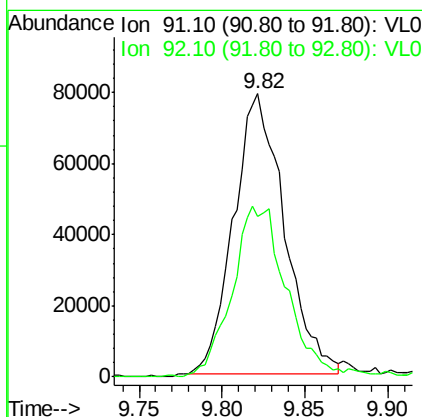
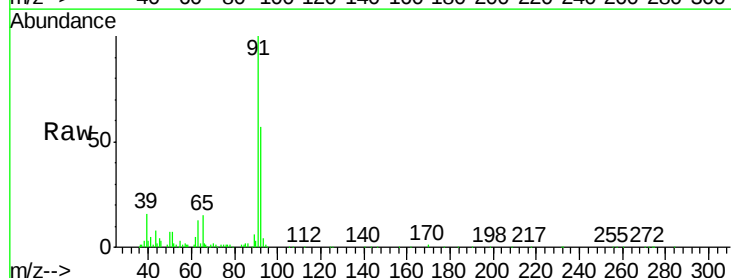
RT: 9.82 min Scan# 2188

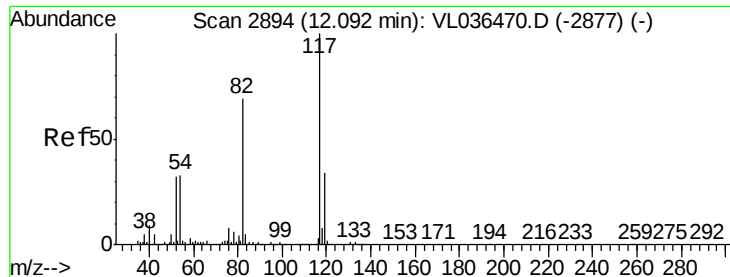
Delta R.T. 0.01 min

Lab File: VL036614.D

Acq: 31 Mar 2021 23:20

Tgt Ion:	91	Resp:	167183
Ion	Ratio	Lower	Upper
91	100		
92	68.0	48.8	73.2





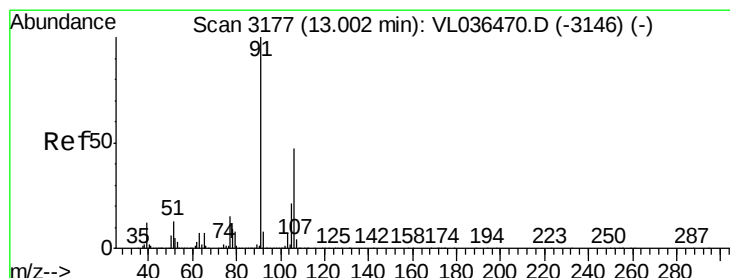
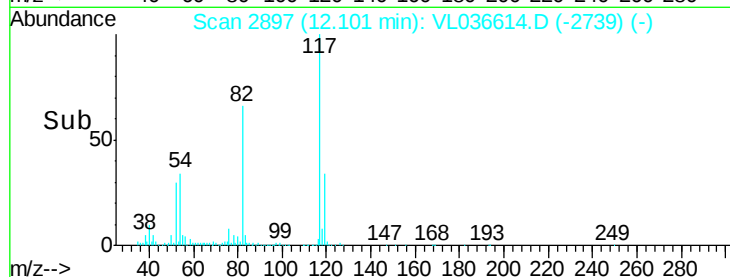
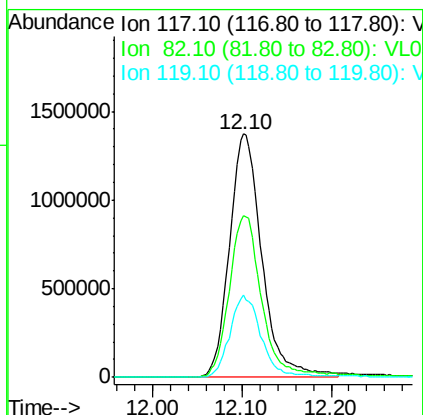
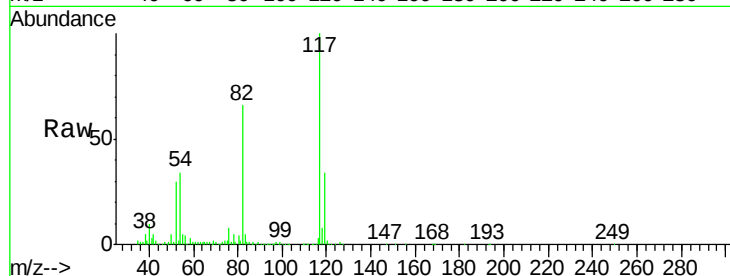
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. 0.01 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

Instrument :
MSVOA_L
ClientSampleId :
SG2DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.5	57.4	86.0
119	32.6	47.4	71.0#

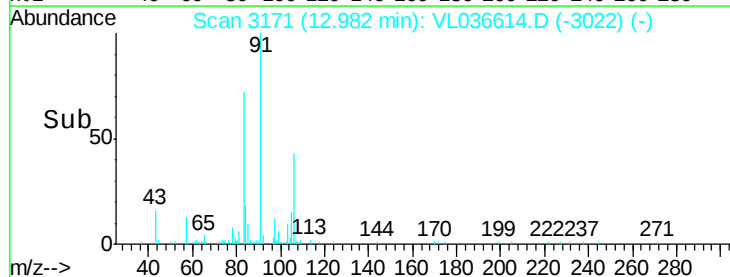
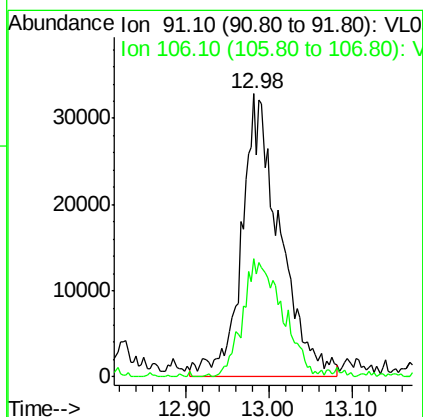
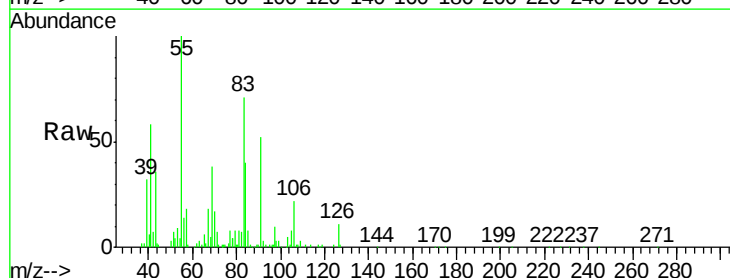
Manual Integrations
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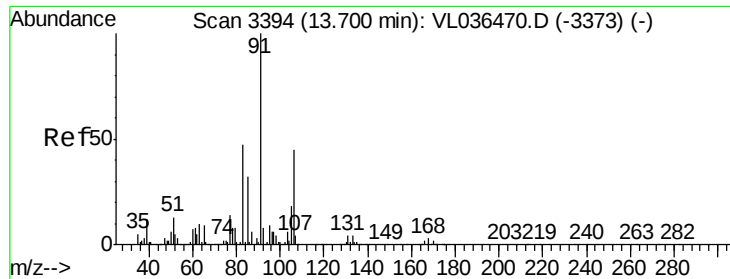
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#59
m/p-Xylene
Concen: 0.237 ppbv m
RT: 12.98 min Scan# 3171
Delta R.T. -0.02 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.3	52.9#





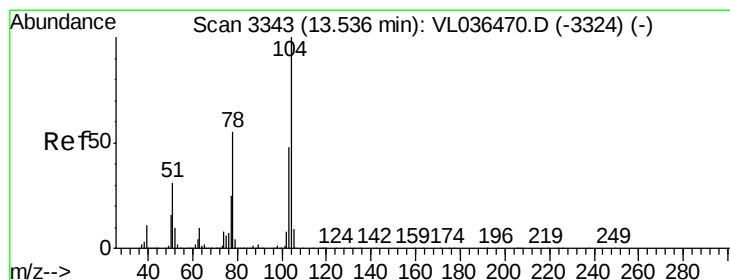
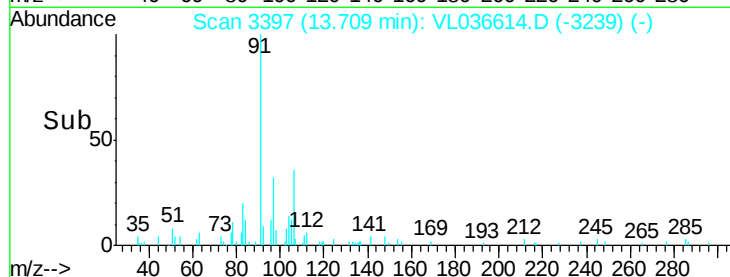
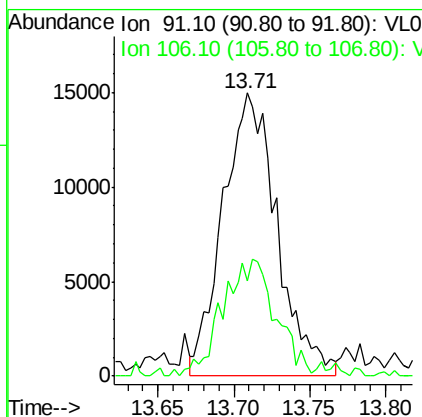
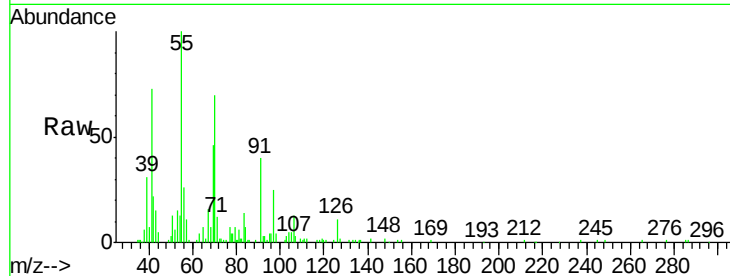
#60
o-Xylene
Concen: 0.087 ppbv m
RT: 13.71 min Scan# 3397
Delta R.T. 0.01 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

Instrument :
MSVOA_L
ClientSampleId :
SG2DL

Tot Ion: 91 Resp: 37092
Ion Ratio Lower Upper
91 100
106 41.2 22.3 66.9

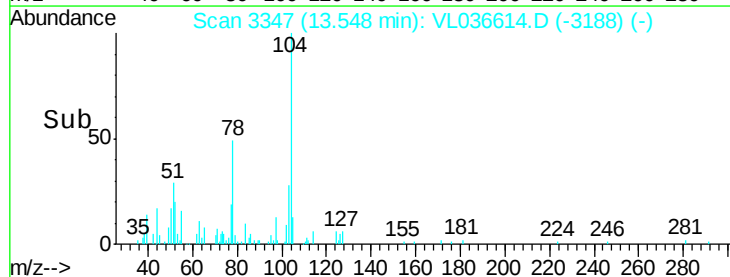
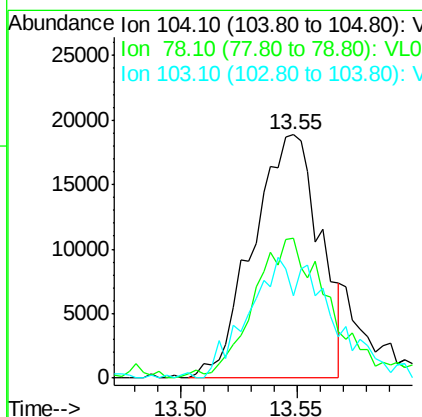
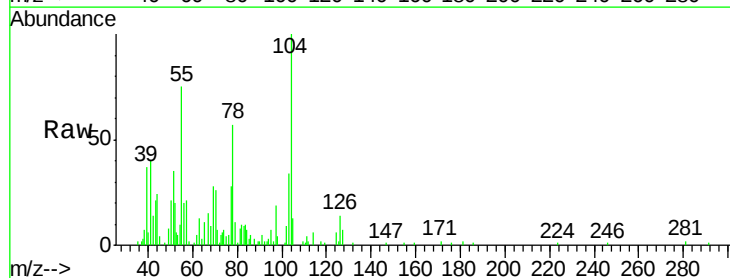
Manual Integrations
APPROVED

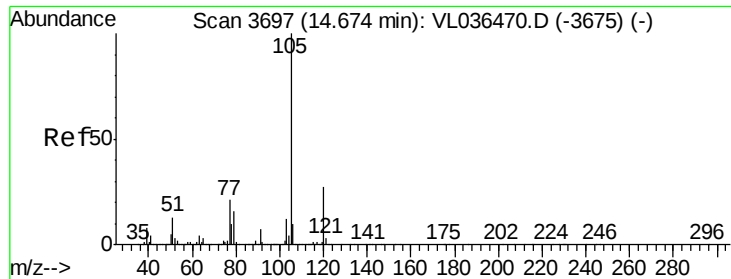
MMDadoda
4/2/2021 6:53:33 PM



#61
Styrene
Concen: 0.177 ppbv
RT: 13.55 min Scan# 3347
Delta R.T. 0.01 min
Lab File: VL036614.D
Acq: 31 Mar 2021 23:20

Tgt Ion: 104 Resp: 37926
Ion Ratio Lower Upper
104 100
78 69.8 43.8 65.8#
103 63.4 38.3 57.5#





#62

Isopropylbenzene

Concen: 1.997 ppbv

RT: 14.69 min Scan# 3701

Delta R.T. 0.01 min

Lab File: VL036614.D

Acq: 31 Mar 2021 23:20

Instrument :

MSVOA_L

ClientSampled :

SG2DL

Tot Ion: 105 Resp: 1144628

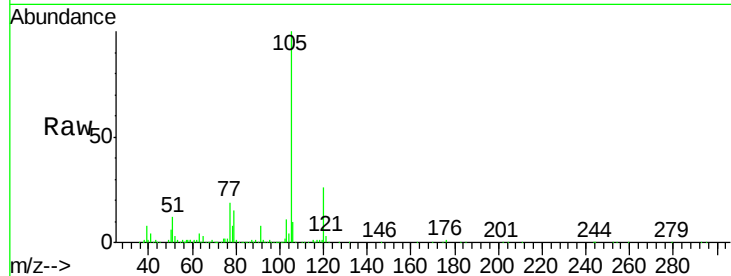
Ion Ratio Lower Upper

105 100

120 25.6 20.6 31.0

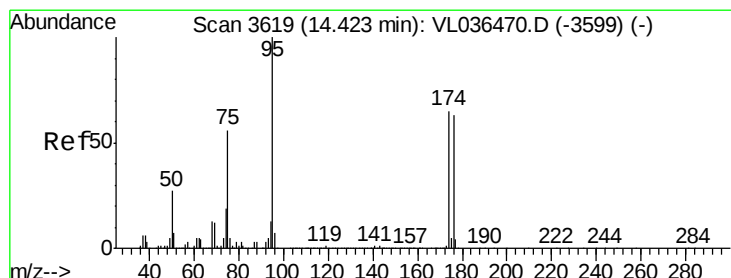
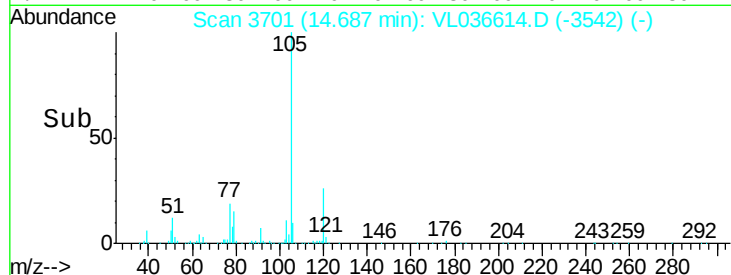
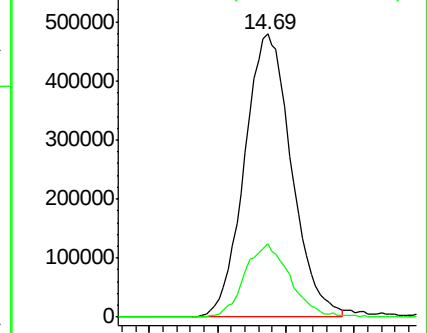
Manual Integrations
APPROVED

MMDadoda
4/2/2021 6:53:33 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.742 ppbv

RT: 14.43 min Scan# 3622

Delta R.T. 0.01 min

Lab File: VL036614.D

Acq: 31 Mar 2021 23:20

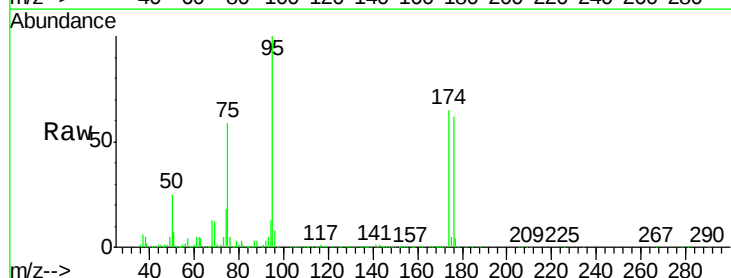
Tgt Ion: 95 Resp: 2692778

Ion Ratio Lower Upper

95 100

174 67.7 51.0 76.6

175 5.1 3.9 5.9



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

