

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL091621\
 Data File : VL037625.D
 Acq On : 16 Sep 2021 21:24
 Operator : SY/AP
 Sample : M3780-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Manual Integrations
 APPROVED

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 9/20/2021 5:27:22 PM

Quant Time: Sep 17 10:08:19 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 13:42:46 2021
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1614204	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	4594893	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3989714	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2862846	9.93	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.01	41	163432	1.522	ppbv #	69
13) Ethanol	3.60	45	18632489	1773.619	ppbv	97
15) Acetone	3.83	43	1573282	9.381	ppbv	100
19) Isopropyl Alcohol	3.97	45	2985413	32.716	ppbv #	94
25) Ethyl Acetate	5.66	43	259012	0.638	ppbv #	91
29) Chloroform	5.73	83	286727	1.018	ppbv	96
34) 2-Butanone	5.23	43	139210m	0.746	ppbv	
36) Benzene	6.87	78	50084m	0.131	ppbv	
53) Toluene	9.79	91	336631	0.790	ppbv	97
58) Ethyl Benzene	12.68	91	57523m	0.109	ppbv	
59) m/p-Xylene	12.94	91	225876m	0.489	ppbv	
60) o-Xylene	13.66	91	84088m	0.191	ppbv	
61) Styrene	13.50	104	26050m	0.120	ppbv	
74) 1,2,4-Trimethylbenzene	16.73	105	55534m	0.112	ppbv	

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

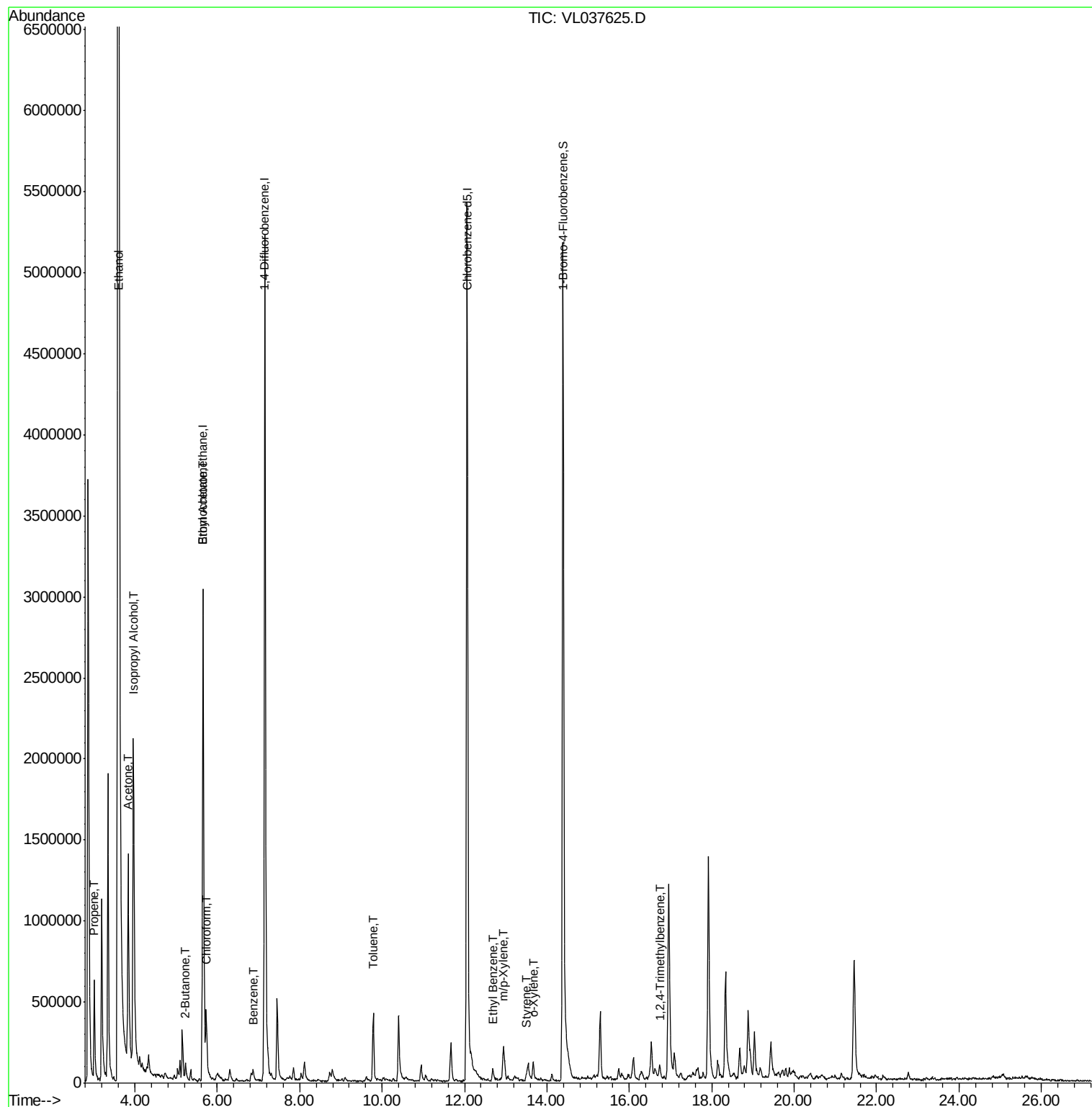
Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL091621\
Data File : VL037625.D
Acq On : 16 Sep 2021 21:24
Operator : SY/AP
Sample : M3780-02DL 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

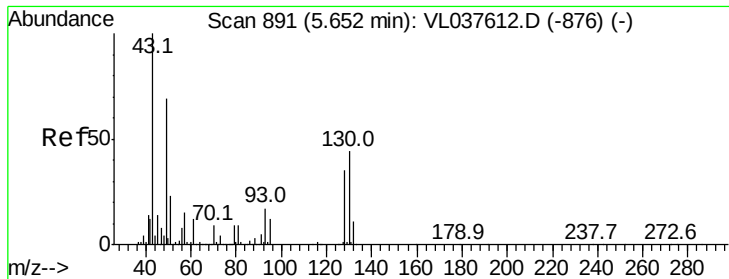
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

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Quant Time: Sep 17 10:08:19 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep
QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

Lab File: VL037625.D

Acq: 16 Sep 2021 21:24

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tot Ion: 49 Resp: 1614204

Ion Ratio Lower Upper

49 100

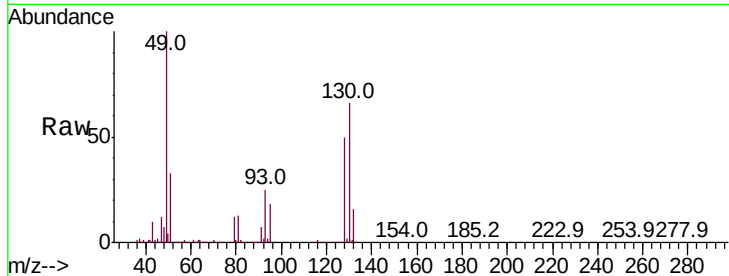
128 54.3 27.9 83.6

130 68.6 33.9 101.7

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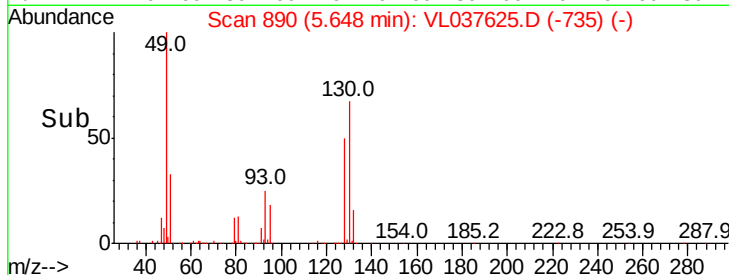


Abundance Ion 49.10 (48.80 to 49.80): VL0

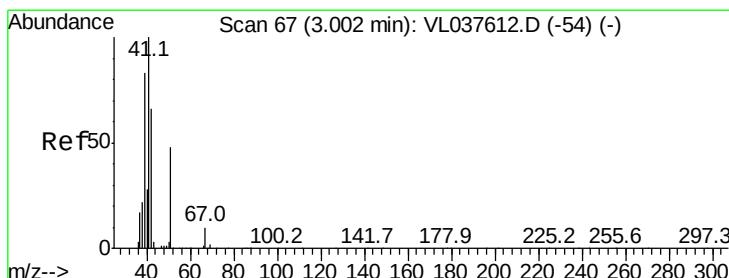
Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

Time-->



Time-->



#9

Propene

Concen: 1.522 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL037625.D

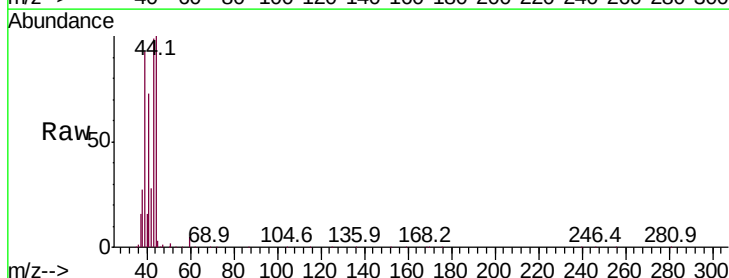
Acq: 16 Sep 2021 21:24

Tgt Ion: 41 Resp: 163432

Ion Ratio Lower Upper

41 100

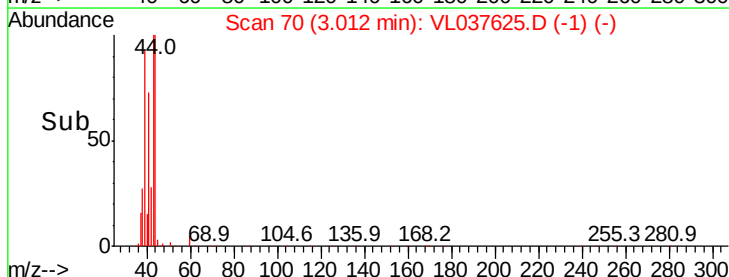
42 46.0 57.2 85.8#



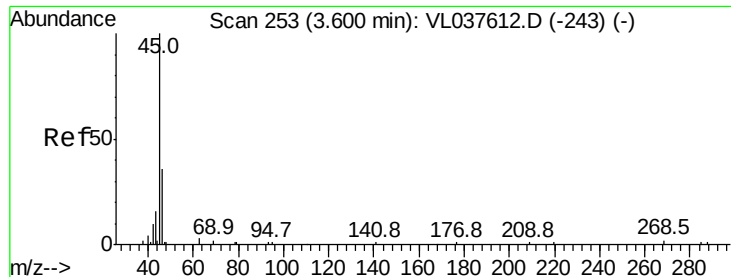
Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Time-->



Time-->



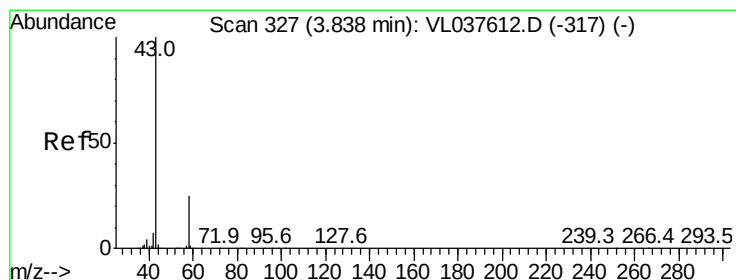
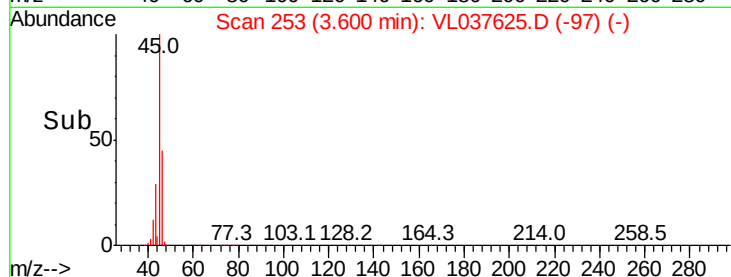
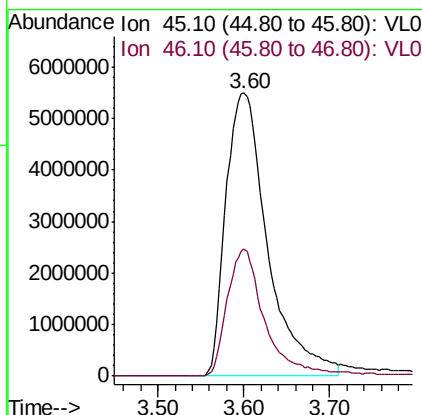
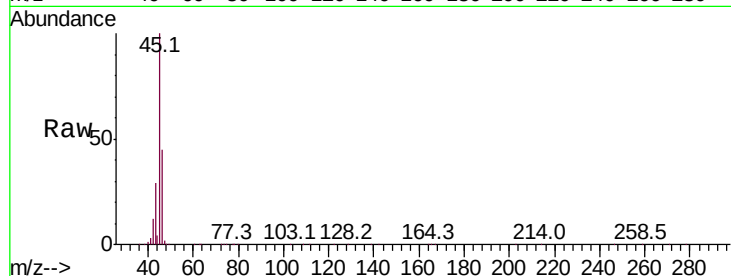
#13
Ethanol
Concen: 1773.619 ppbv
RT: 3.60 min Scan# 253
Delta R.T. 0.00 min
Lab File: VL037625.D
Acq: 16 Sep 2021 21:24

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tot Ion: 45 Resp: 18632489
Ion Ratio Lower Upper
45 100
46 41.4 17.2 68.8

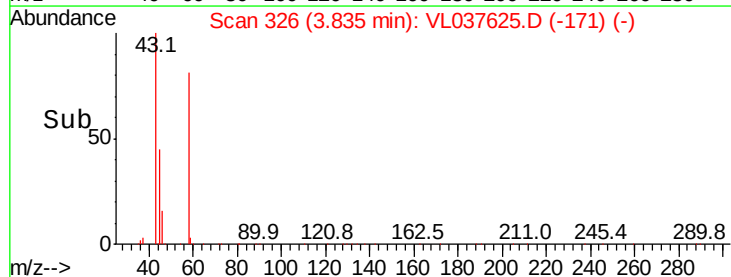
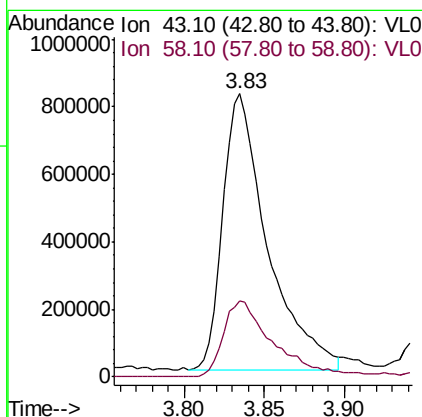
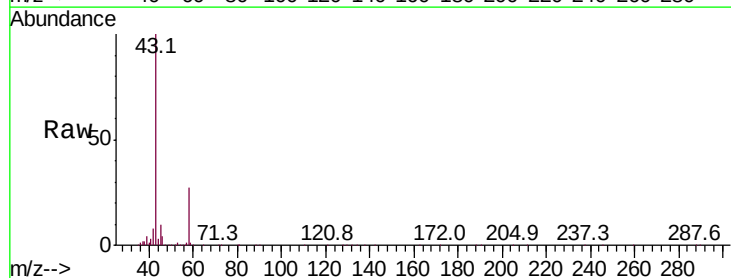
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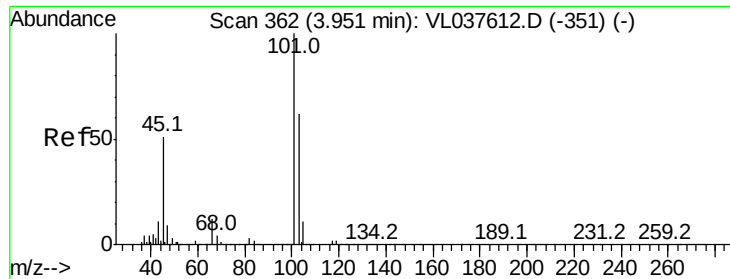
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#15
Acetone
Concen: 9.381 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.00 min
Lab File: VL037625.D
Acq: 16 Sep 2021 21:24

Tgt Ion: 43 Resp: 1573282
Ion Ratio Lower Upper
43 100
58 31.4 24.9 37.3





#19

Isopropyl Alcohol

Concen: 32.716 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.02 min

Lab File: VL037625.D

Acq: 16 Sep 2021 21:24

Instrument :

MSVOA_L

ClientSampled :

SV2DL

Tot Ion: 45 Resp: 2985413

Ion Ratio Lower Upper

45 100

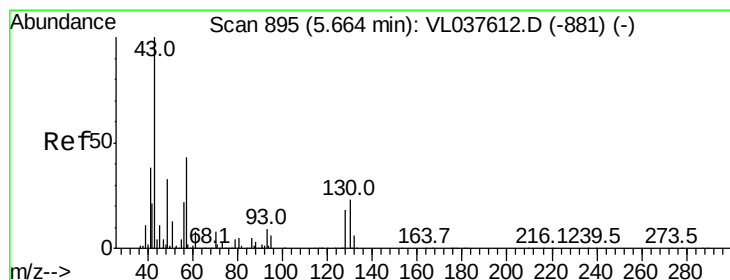
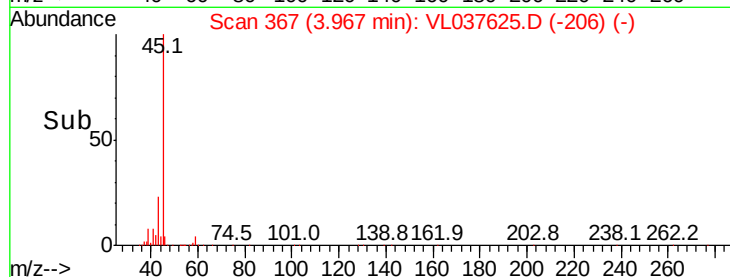
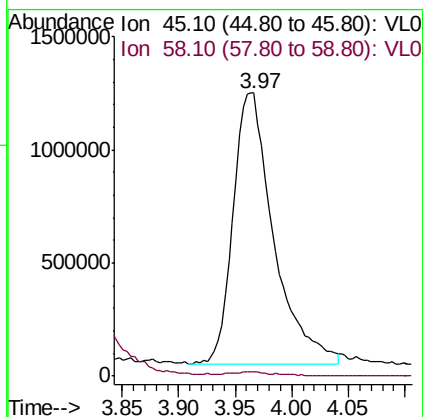
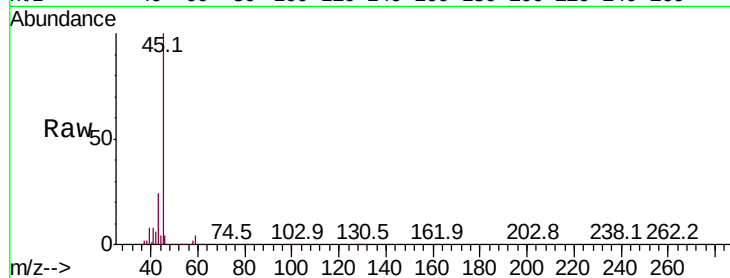
58 1.8 2.9 4.3#

Manual Integrations

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#25

Ethyl Acetate

Concen: 0.638 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL037625.D

Acq: 16 Sep 2021 21:24

Tgt Ion: 43 Resp: 259012

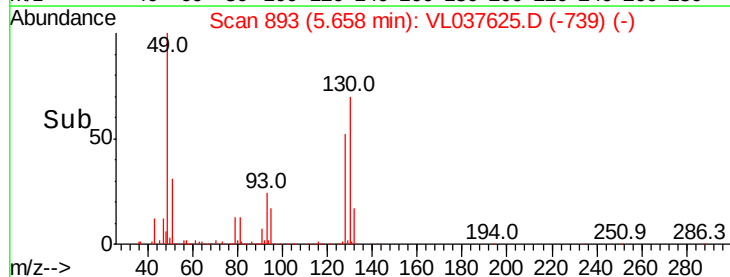
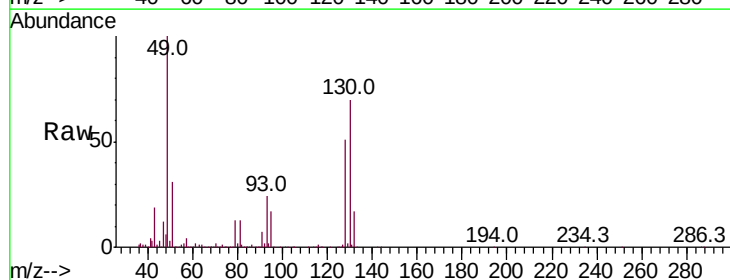
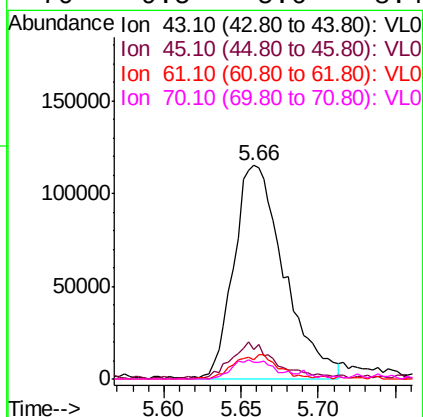
Ion Ratio Lower Upper

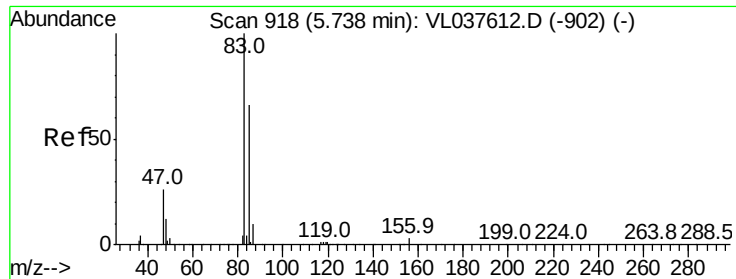
43 100

45 15.0 8.0 12.0#

61 11.0 7.5 11.3

70 9.5 5.6 8.4#





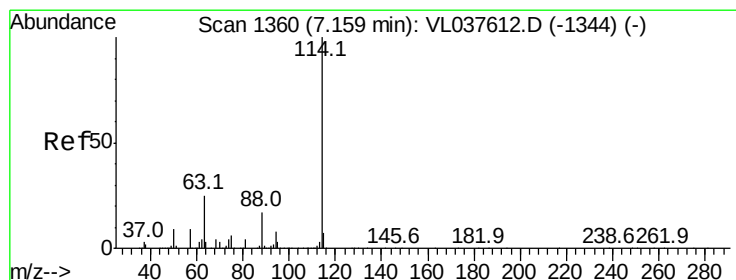
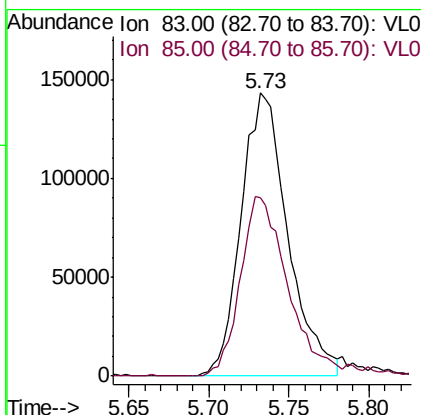
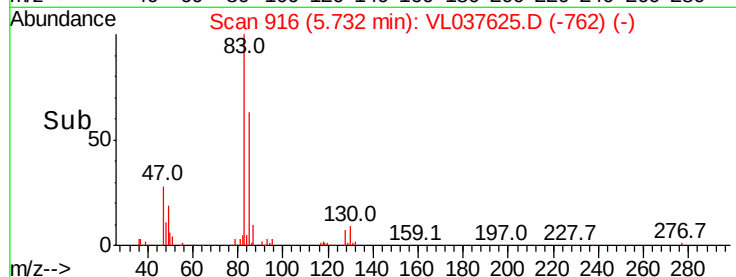
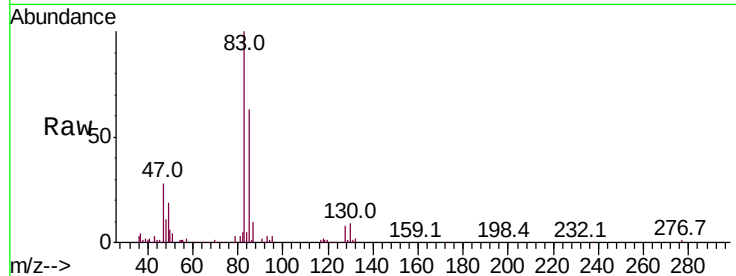
#29
Chloroform
Concen: 1.018 ppbv
RT: 5.73 min Scan# 916
Delta R.T. -0.01 min
Lab File: VL037625.D
Acq: 16 Sep 2021 21:24

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tot Ion	Ratio	Lower	Upper
83	100		
85	62.9	52.6	79.0

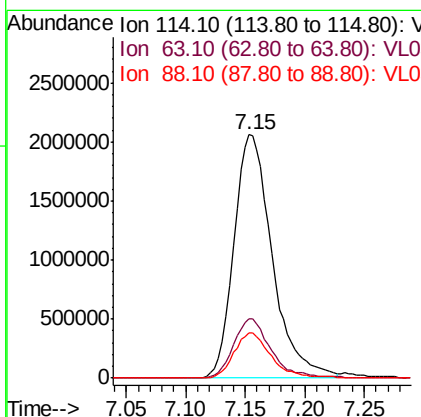
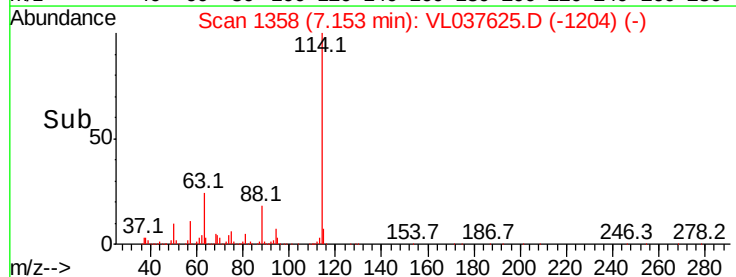
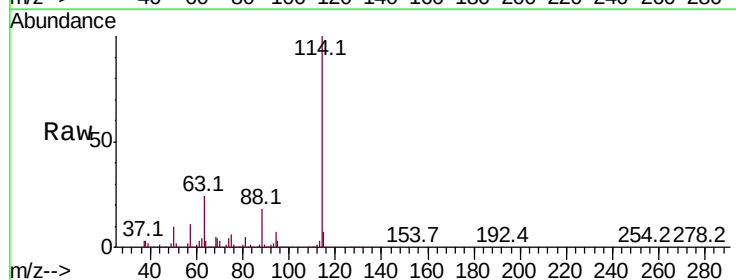
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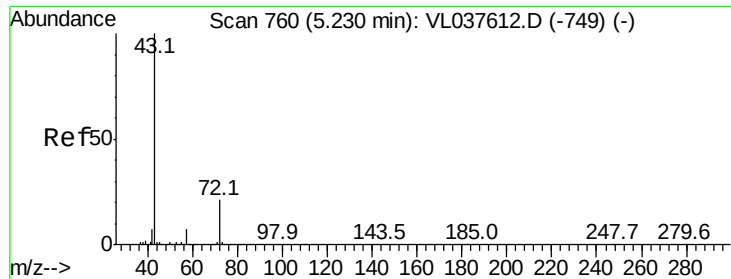
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.01 min
Lab File: VL037625.D
Acq: 16 Sep 2021 21:24

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.1	19.6	29.4
88	18.2	14.2	21.4





#34

2-Butanone

Concen: 0.746 ppbv m

RT: 5.23 min Scan# 761

Delta R.T. 0.00 min

Lab File: VL037625.D

Acq: 16 Sep 2021 21:24

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tot Ion: 43 Resp: 139210

Ion Ratio Lower Upper

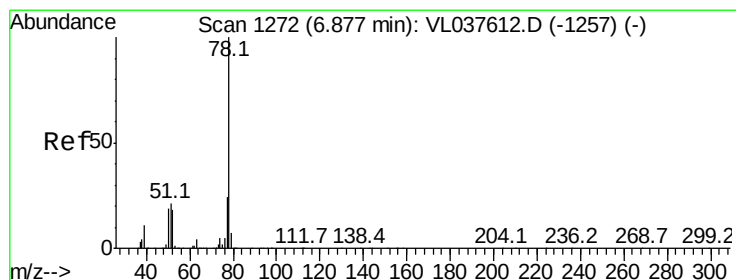
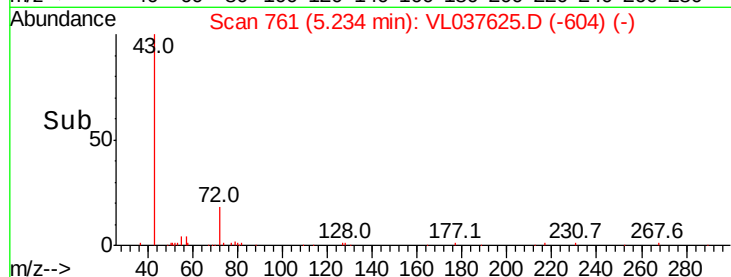
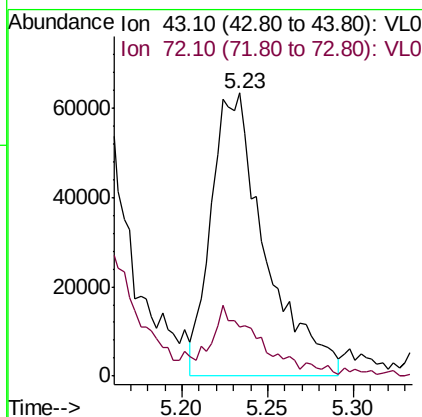
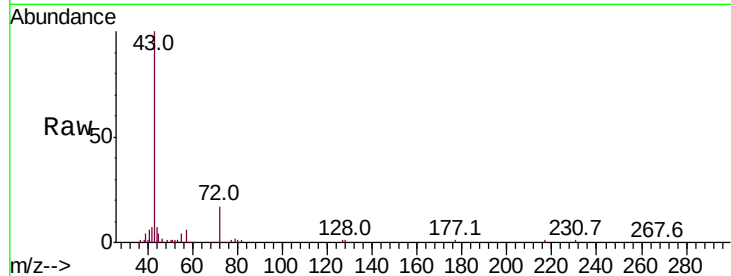
43 100

72 24.3 18.4 27.6

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#36

Benzene

Concen: 0.131 ppbv m

RT: 6.87 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VL037625.D

Acq: 16 Sep 2021 21:24

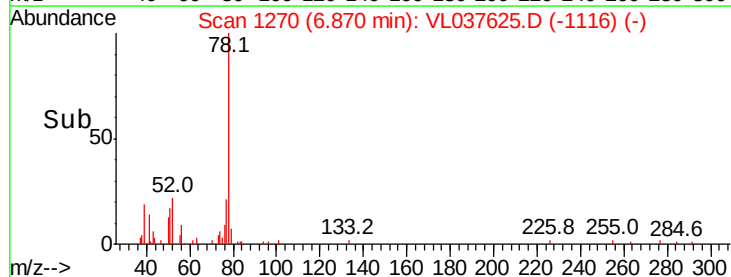
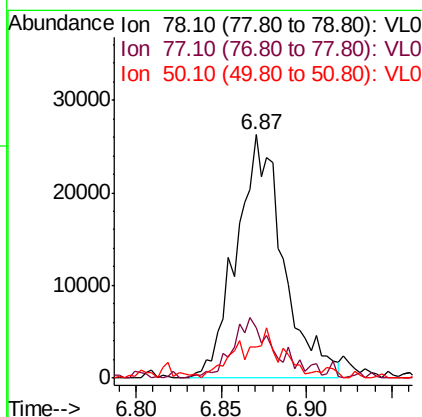
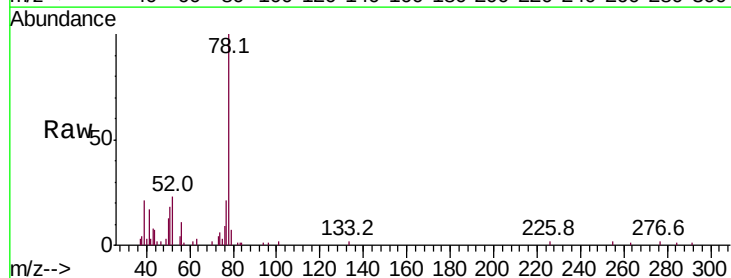
Tgt Ion: 78 Resp: 50084

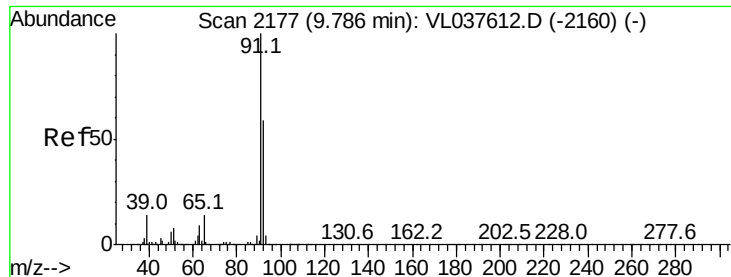
Ion Ratio Lower Upper

78 100

77 20.8 19.0 28.4

50 12.8 14.8 22.2#





#53

Toluene

Concen: 0.790 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL037625.D

Acq: 16 Sep 2021 21:24

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tot Ion: 91 Resp: 336631

Ion Ratio Lower Upper

91 100

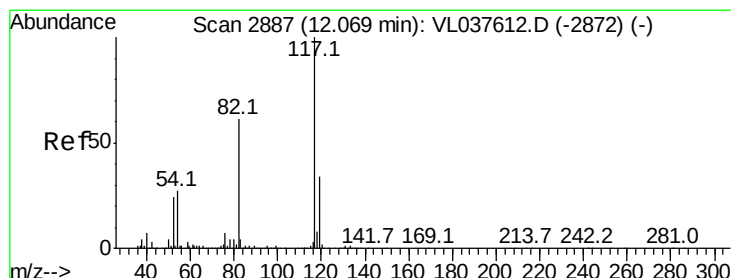
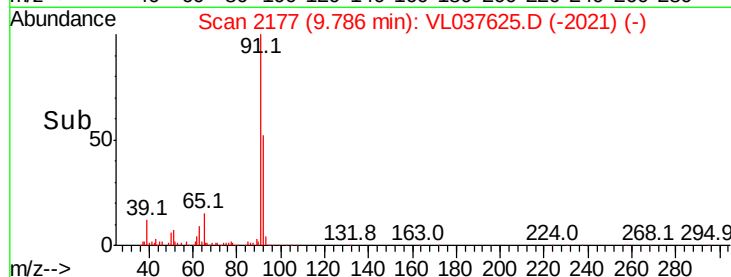
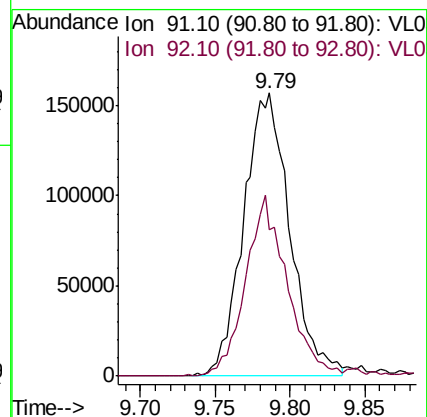
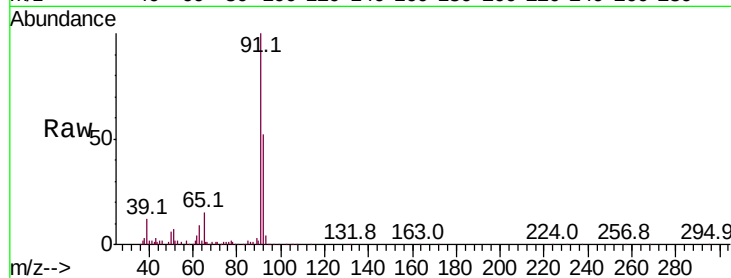
92 58.6 48.9 73.3

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.01 min

Lab File: VL037625.D

Acq: 16 Sep 2021 21:24

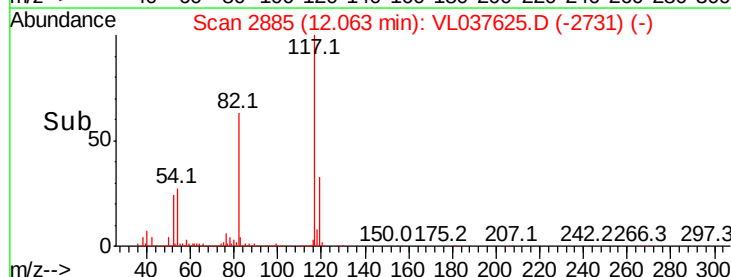
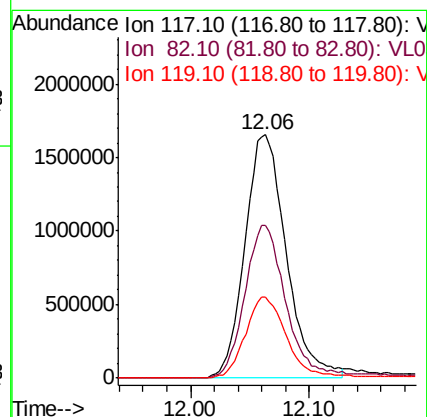
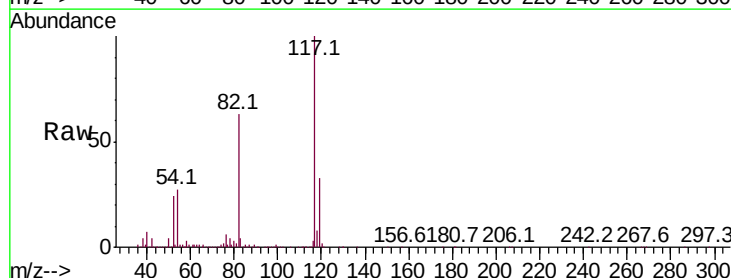
Tgt Ion: 117 Resp: 3989714

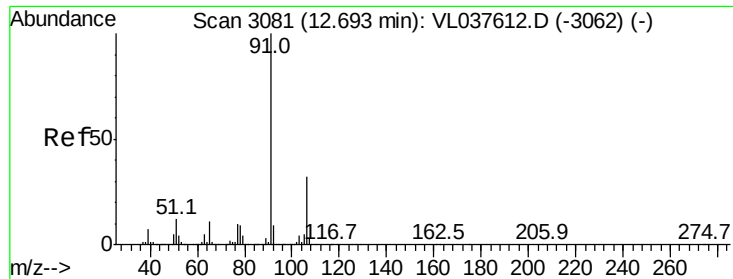
Ion Ratio Lower Upper

117 100

82 65.2 50.6 75.8

119 34.5 26.2 39.2





#58

Ethyl Benzene

Concen: 0.109 ppbv m

RT: 12.68 min Scan# 3078

Delta R.T. -0.01 min

Lab File: VL037625.D

Acq: 16 Sep 2021 21:24

Instrument :

MSVOA_L

ClientSampled :

SV2DL

Tot Ion: 91 Resp: 57523

Ion Ratio Lower Upper

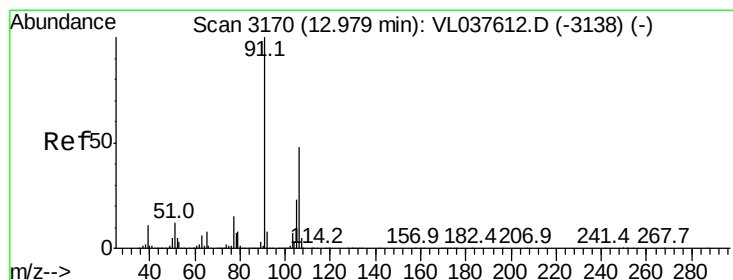
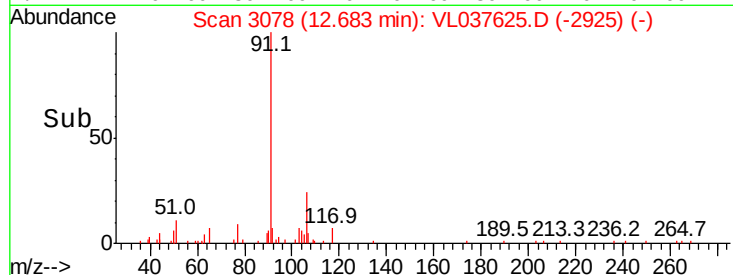
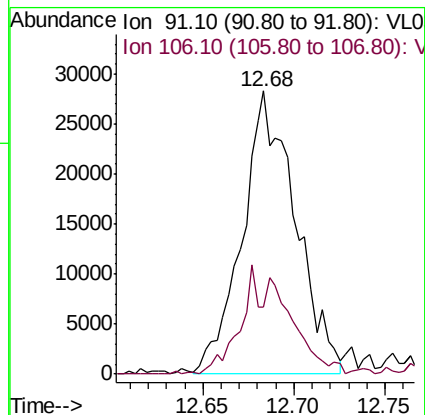
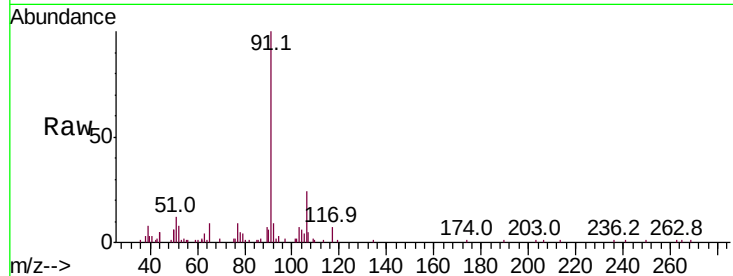
91 100

106 23.8 25.3 37.9#

Manual Integrations
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#59

m/p-Xylene

Concen: 0.489 ppbv m

RT: 12.94 min Scan# 3159

Delta R.T. -0.04 min

Lab File: VL037625.D

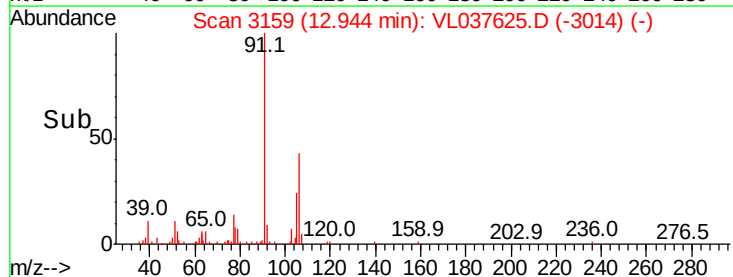
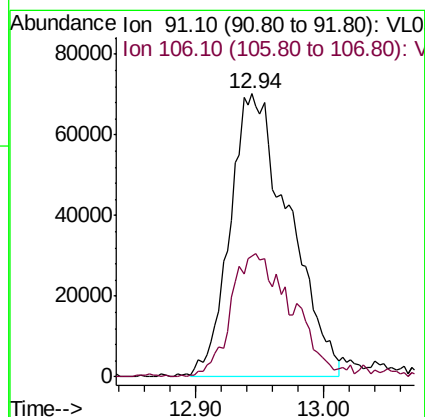
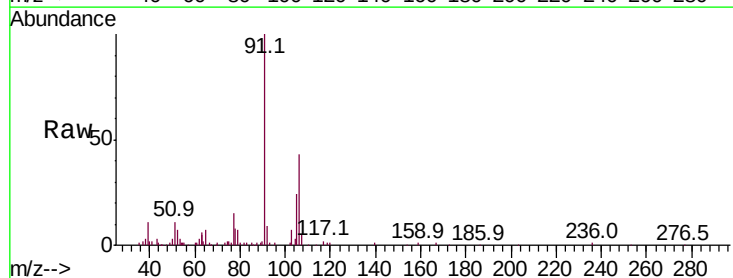
Acq: 16 Sep 2021 21:24

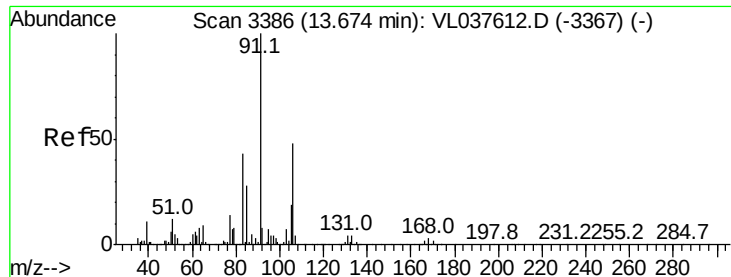
Tgt Ion: 91 Resp: 225876

Ion Ratio Lower Upper

91 100

106 0.0 36.6 55.0#





#60

o-Xylene

Concen: 0.191 ppbv m

RT: 13.66 min Scan# 3383

Delta R.T. -0.01 min

Lab File: VL037625.D

Acq: 16 Sep 2021 21:24

Instrument :

MSVOA_L

ClientSampled :

SV2DL

Tot Ion: 91 Resp: 84088

Ion Ratio Lower Upper

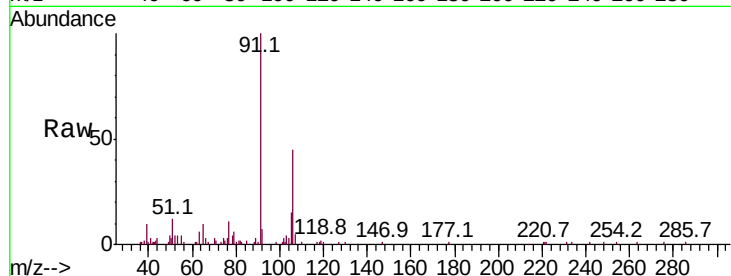
91 100

106 45.6 23.0 69.0

Manual Integrations
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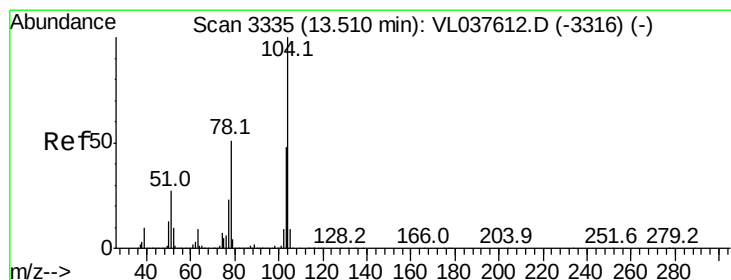
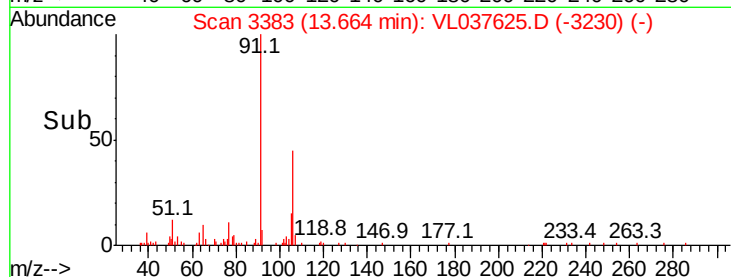
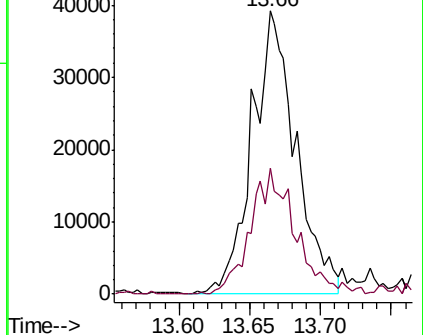
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#61

Styrene

Concen: 0.120 ppbv m

RT: 13.50 min Scan# 3332

Delta R.T. -0.01 min

Lab File: VL037625.D

Acq: 16 Sep 2021 21:24

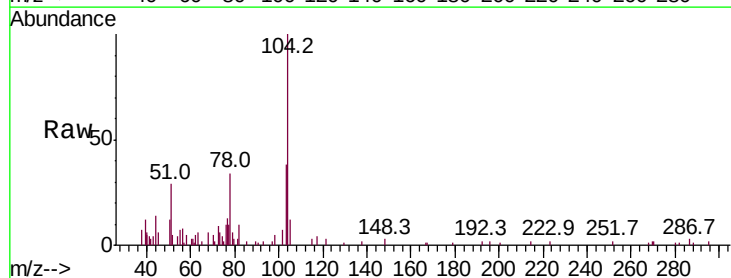
Tgt Ion: 104 Resp: 26050

Ion Ratio Lower Upper

104 100

78 0.0 39.7 59.5#

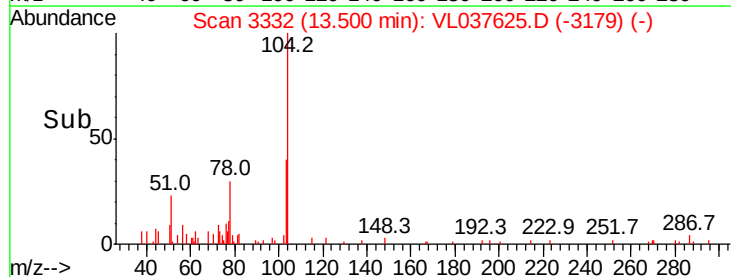
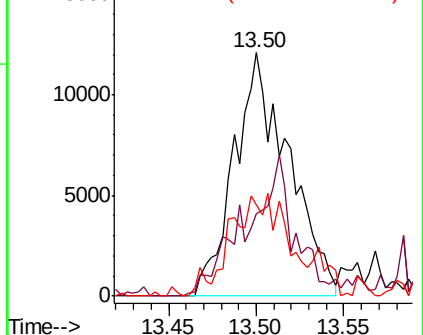
103 0.0 38.8 58.2#

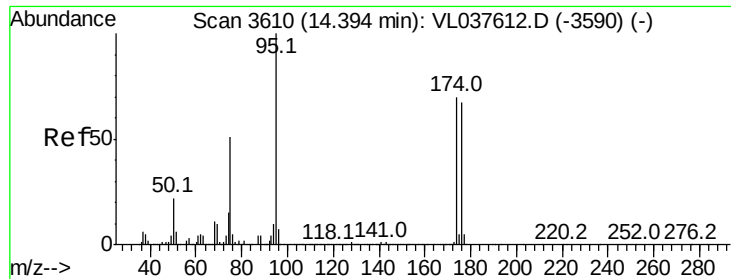


Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V





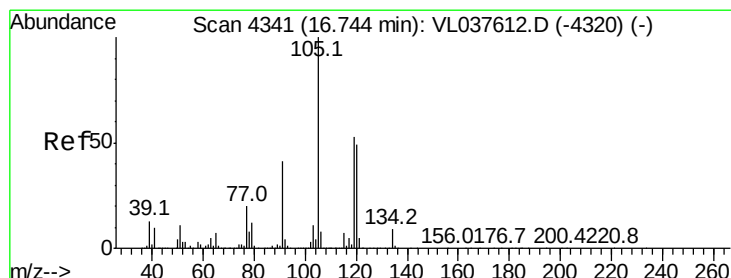
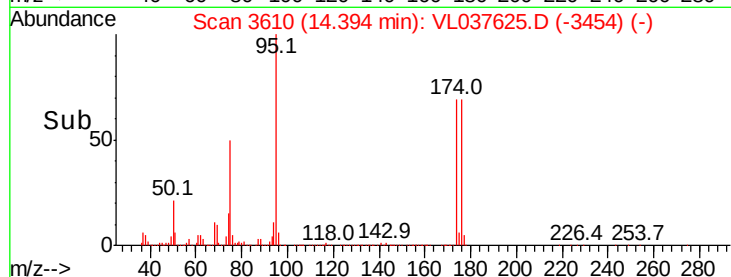
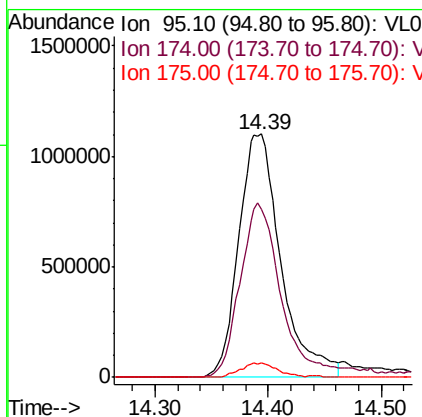
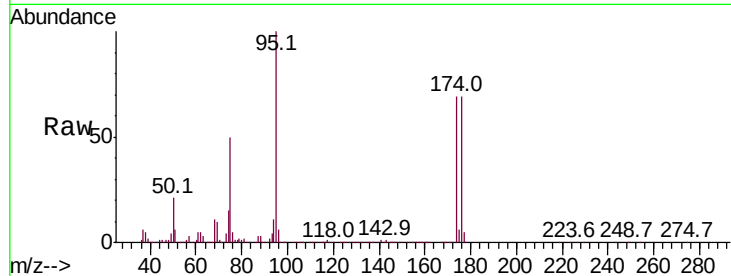
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.929 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VL037625.D
 Acq: 16 Sep 2021 21:24

Instrument :
 MSVOA_L
 ClientSampled :
 SV2DL

Tot Ion	Ratio	Lower	Upper
95	100		
174	75.0	56.3	84.5
175	5.5	4.4	6.6

Manual Integrations
 APPROVED

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.112 ppbv m
 RT: 16.73 min Scan# 4338
 Delta R.T. -0.01 min
 Lab File: VL037625.D
 Acq: 16 Sep 2021 21:24

Tgt Ion	Ratio	Lower	Upper
105	100		
120	36.3	39.4	59.0#
91	11.4	33.3	49.9#
77	15.2	15.7	23.5#

