

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061621\
 Data File : VL037190.D
 Acq On : 17 Jun 2021 4:16
 Operator : SY/AP
 Sample : M2742-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

MMDadoda
 6/17/2021 5:38:47 PM

Quant Time: Jun 17 05:23:17 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 17 05:23:17 2021
 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	5.67	49	1504695	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4343605	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3822779	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2825606	9.75	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	53048	0.203	ppbv	92
3) Chlorodifluoromethane	2.98	51	69668m	0.238	ppbv	
4) Chloromethane	3.14	50	45445	0.466	ppbv	95
9) Propene	3.02	41	47765	0.511	ppbv #	82
10) Heptane	8.11	43	26780m	0.118	ppbv	
11) Trichlorofluoromethane	3.95	101	53947	0.193	ppbv	88
13) Ethanol	3.61	45	377714	26.100	ppbv	51
15) Acetone	3.85	43	890661	5.249	ppbv	94
19) Isopropyl Alcohol	3.98	45	142939	1.391	ppbv #	78
20) Methylene Chloride	4.34	84	513798	5.058	ppbv	97
26) Hexane	5.68	57	419897	2.262	ppbv #	49
30) Cyclohexane	7.12	84	16951m	0.110	ppbv	
34) 2-Butanone	5.25	43	41581	0.246	ppbv #	72
35) Carbon Tetrachloride	7.02	117	15657m	0.054	ppbv	
36) Benzene	6.89	78	57239m	0.163	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	101677m	0.172	ppbv	
53) Toluene	9.81	91	314880	0.751	ppbv	99
59) m/p-Xylene	12.97	91	118153m	0.265	ppbv	
60) o-Xylene	13.69	91	45150m	0.106	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	68915m	0.143	ppbv	

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

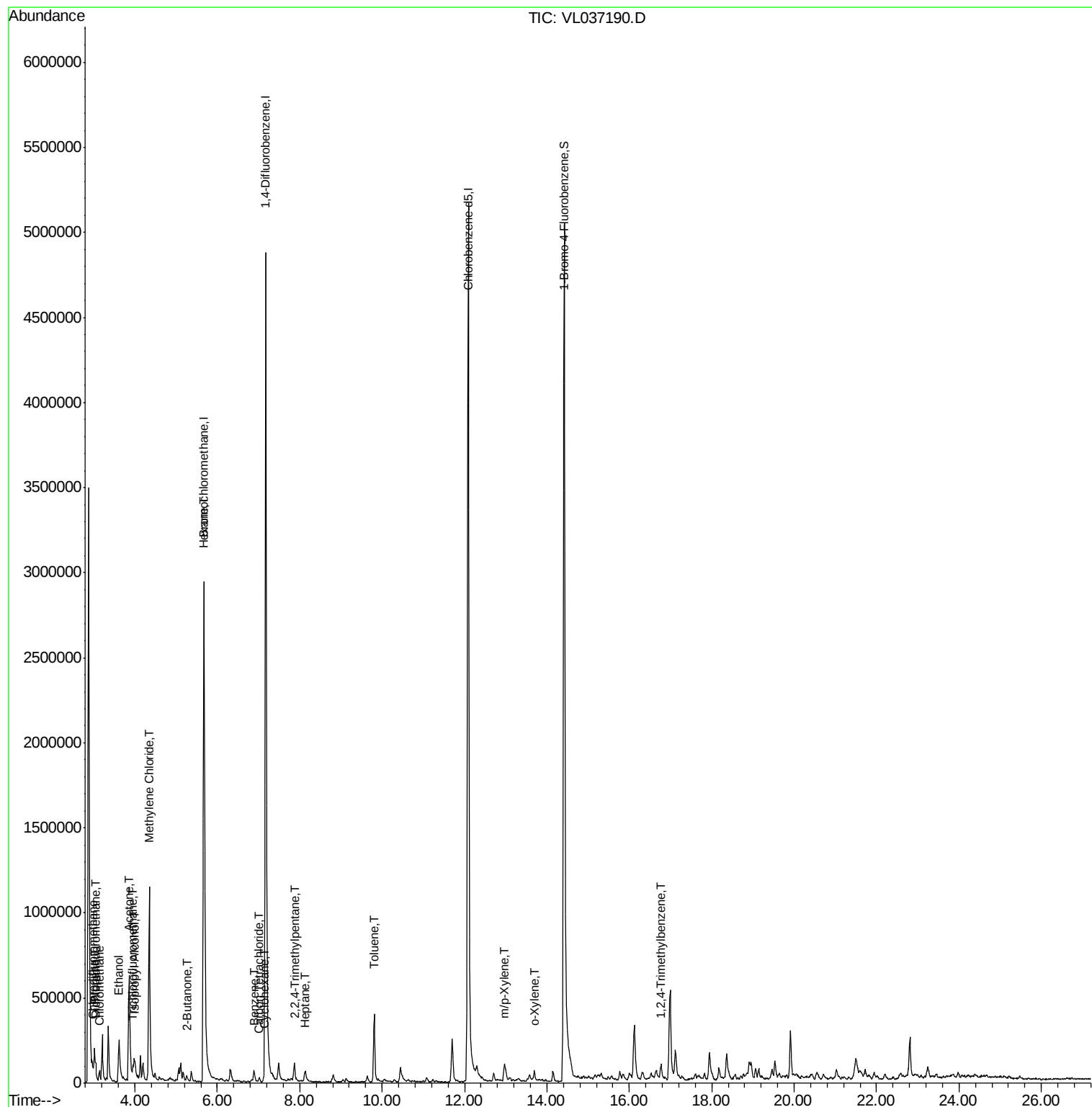
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL061621\
Data File : VL037190.D
Acq On : 17 Jun 2021 4:16
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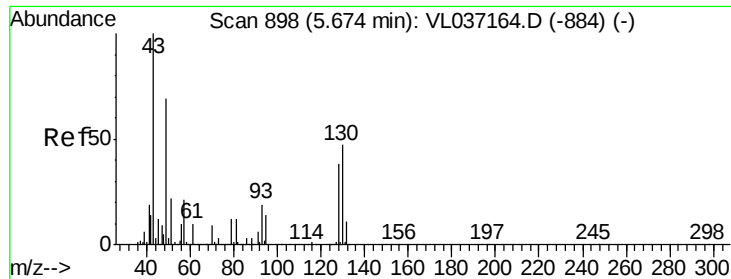
Instrument :
MSVOA_L
ClientSampleId :
OA1

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Quant Time: Jun 17 05:23:17 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: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL037190.D

Acq: 17 Jun 2021 4:16

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 49 Resp: 1504695

Ion Ratio Lower Upper

49 100

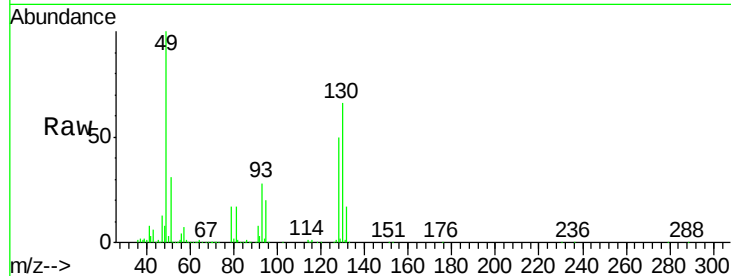
128 54.7 29.3 88.0

130 71.9 35.9 107.8

Manual Integrations
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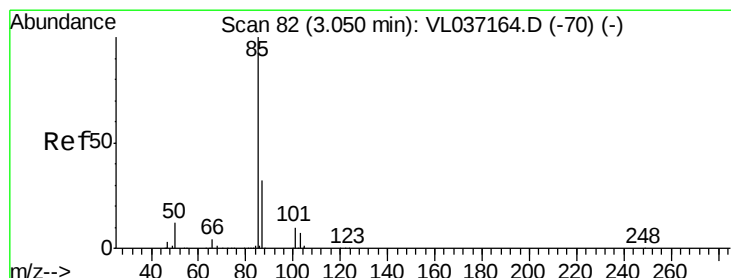
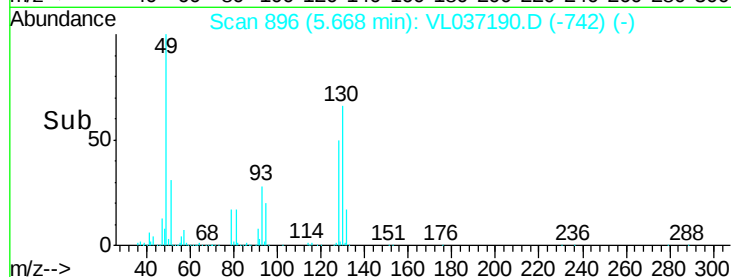
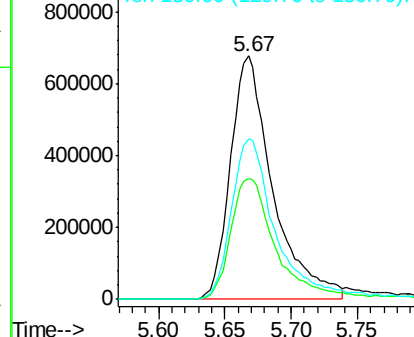
6/17/2021 5:38:47 PM



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



#2

Dichlorodifluoromethane

Concen: 0.203 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL037190.D

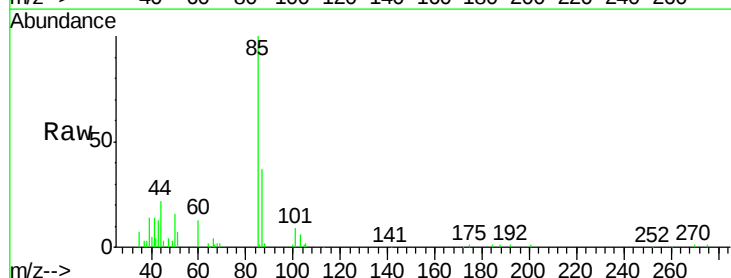
Acq: 17 Jun 2021 4:16

Tgt Ion: 85 Resp: 53048

Ion Ratio Lower Upper

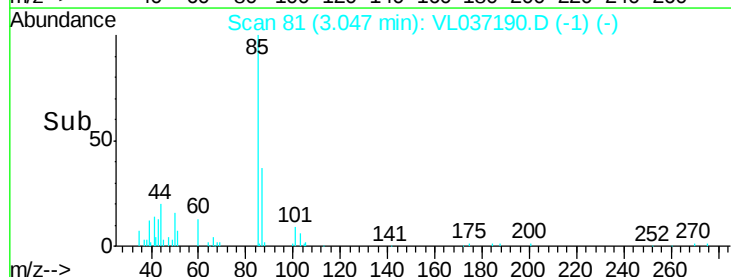
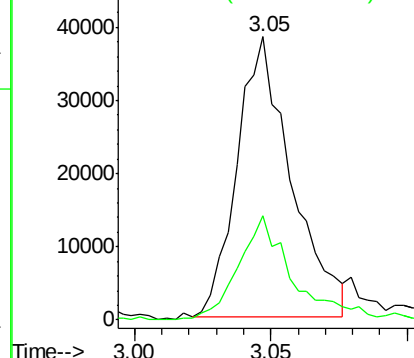
85 100

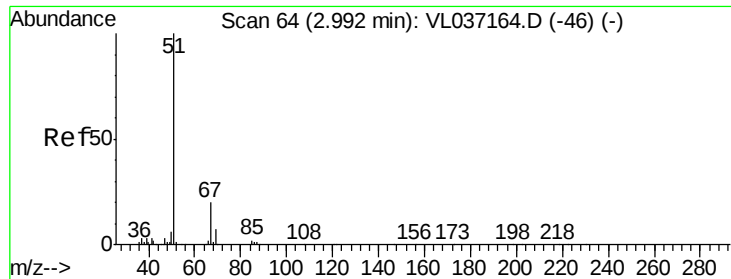
87 36.6 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.238 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.01 min

Lab File: VL037190.D

Acq: 17 Jun 2021 4:16

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 51 Resp: 69668

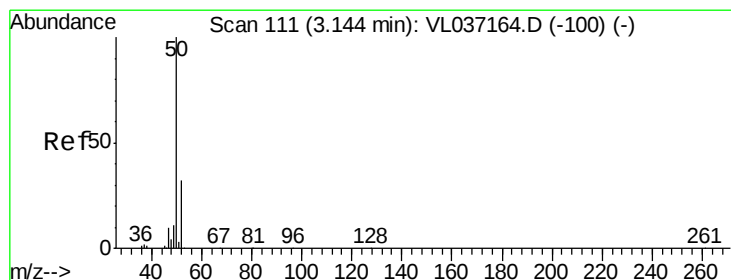
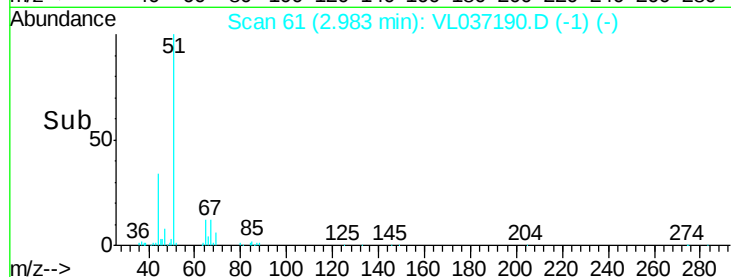
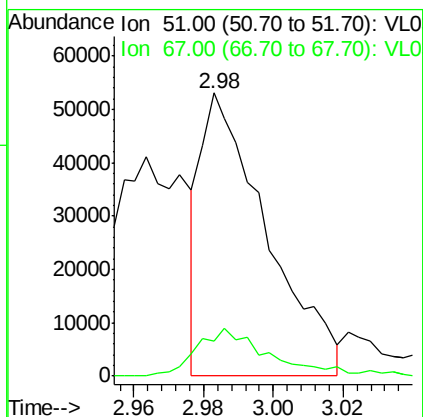
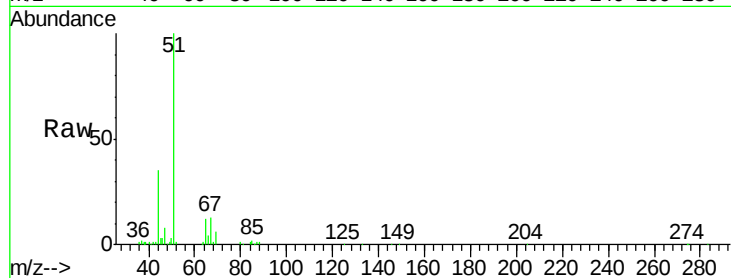
Ion Ratio Lower Upper

51 100

67 19.1 15.8 23.6

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#4

Chloromethane

Concen: 0.466 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL037190.D

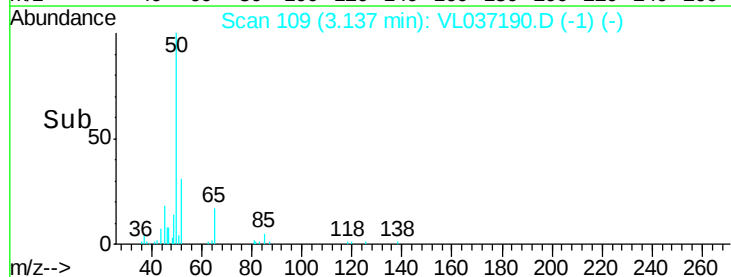
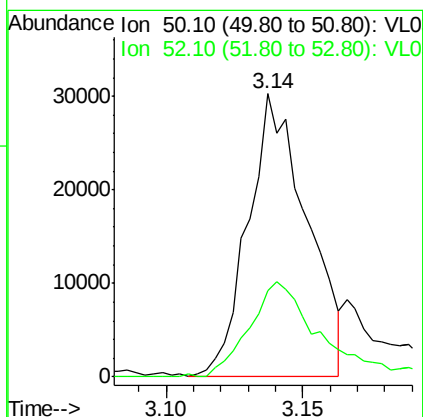
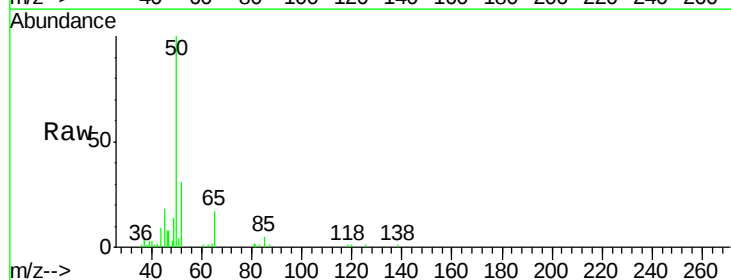
Acq: 17 Jun 2021 4:16

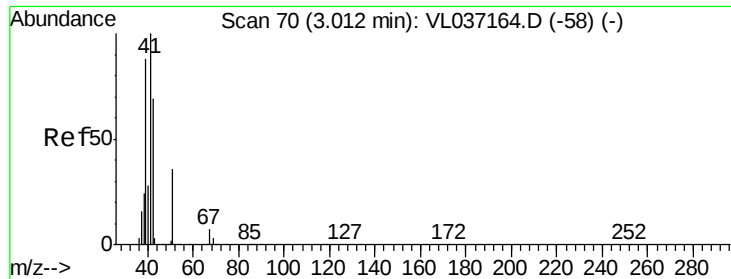
Tgt Ion: 50 Resp: 45445

Ion Ratio Lower Upper

50 100

52 29.4 25.8 38.8





#9

Propene

Concen: 0.511 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL037190.D

Acq: 17 Jun 2021 4:16

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 41 Resp: 47765

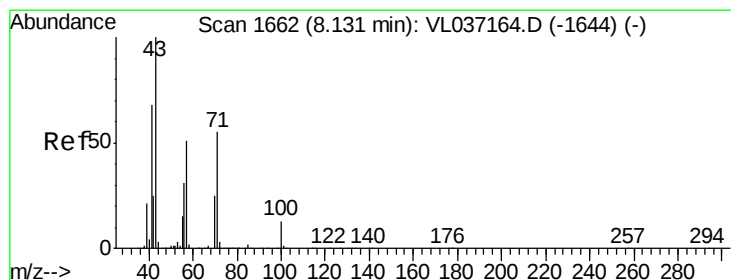
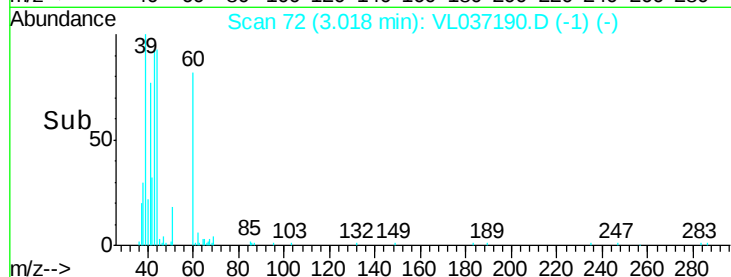
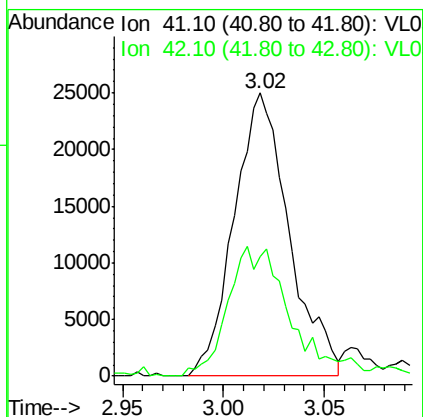
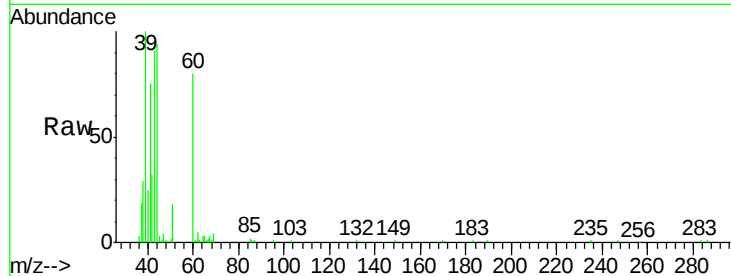
Ion Ratio Lower Upper

41 100

42 53.4 54.5 81.7#

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#10

Heptane

Concen: 0.118 ppbv m

RT: 8.11 min Scan# 1657

Delta R.T. -0.02 min

Lab File: VL037190.D

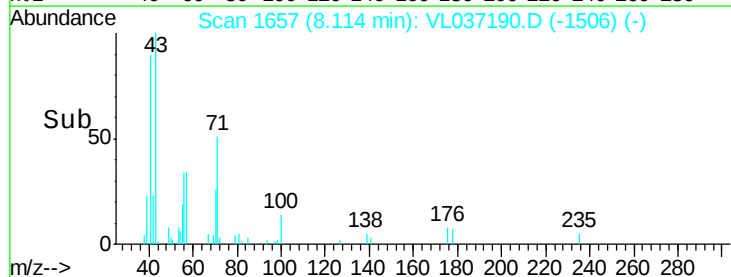
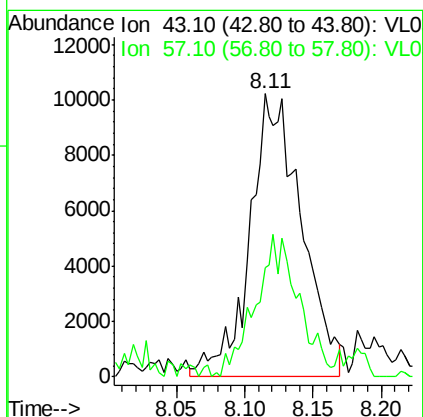
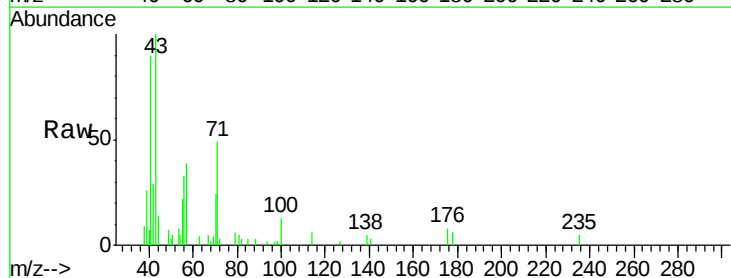
Acq: 17 Jun 2021 4:16

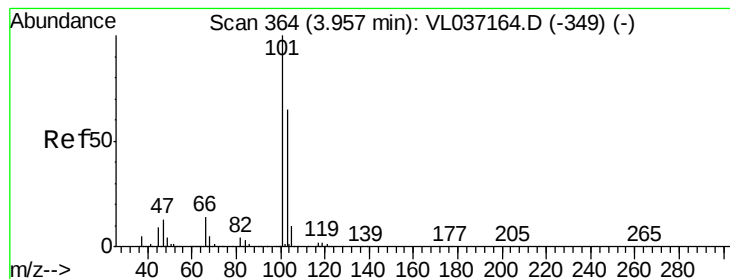
Tgt Ion: 43 Resp: 26780

Ion Ratio Lower Upper

43 100

57 43.3 40.6 61.0





#11

Trichlorofluoromethane

Concen: 0.193 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL037190.D

Acq: 17 Jun 2021 4:16

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion:101 Resp: 53947

Ion Ratio Lower Upper

101 100

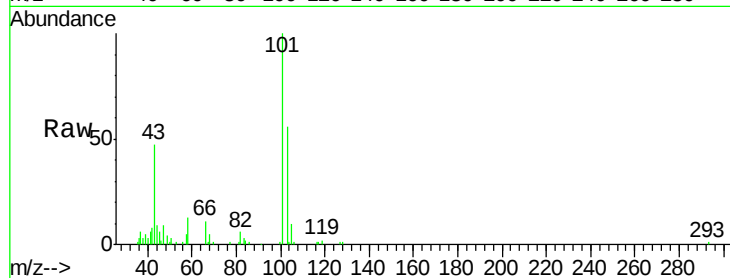
103 55.6 52.2 78.4

Manual Integrations

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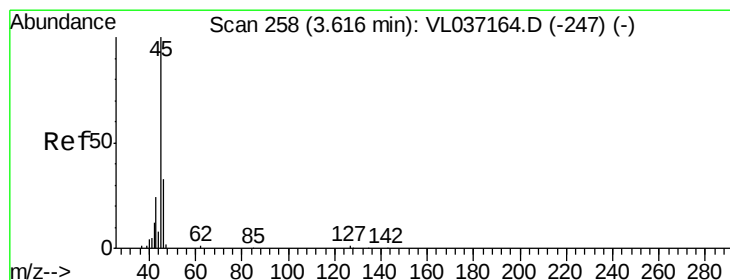
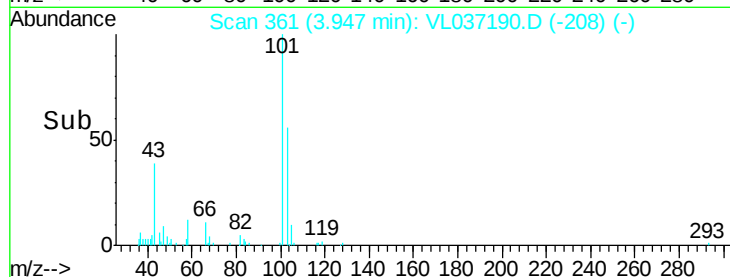
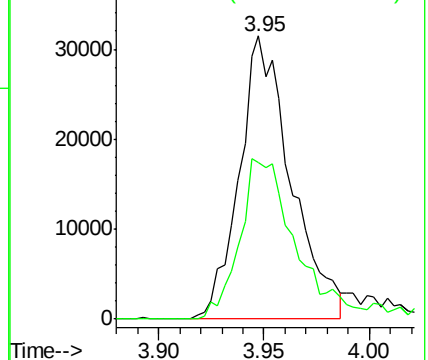
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 26.100 ppbv

RT: 3.61 min Scan# 256

Delta R.T. -0.01 min

Lab File: VL037190.D

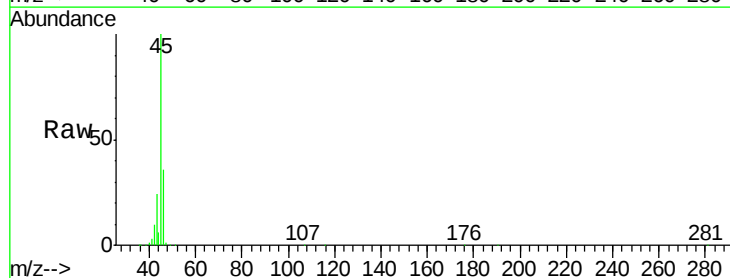
Acq: 17 Jun 2021 4:16

Tgt Ion: 45 Resp: 377714

Ion Ratio Lower Upper

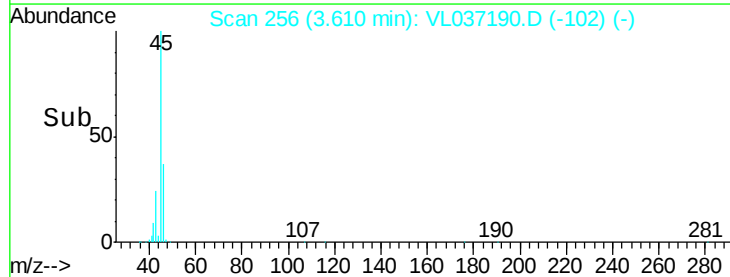
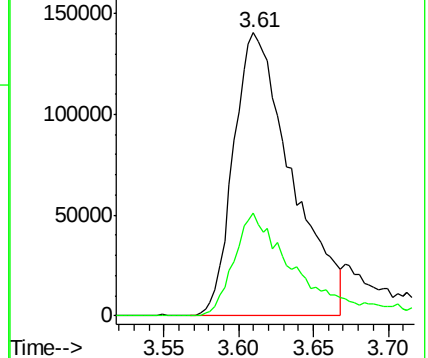
45 100

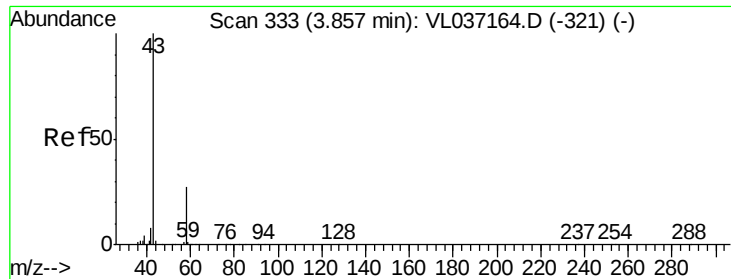
46 41.1 34.2 137.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 5.249 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.01 min

Lab File: VL037190.D

Acq: 17 Jun 2021 4:16

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 43 Resp: 890661

Ion Ratio Lower Upper

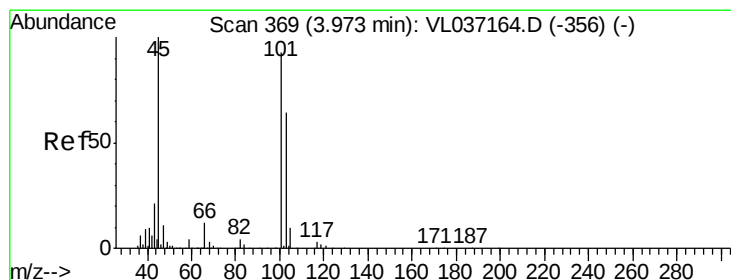
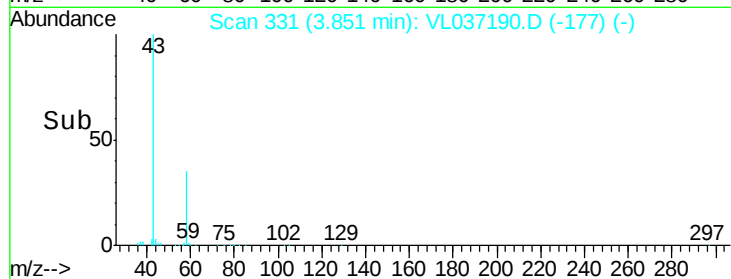
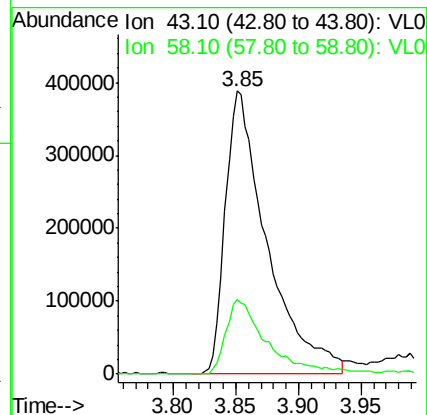
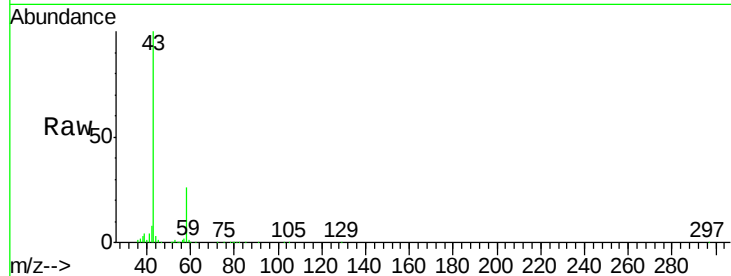
43 100

58 26.5 23.7 35.5

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#19

Isopropyl Alcohol

Concen: 1.391 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.01 min

Lab File: VL037190.D

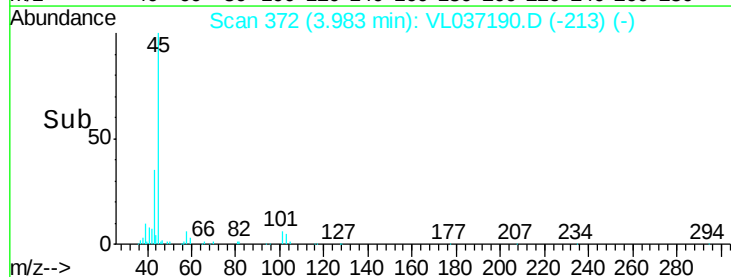
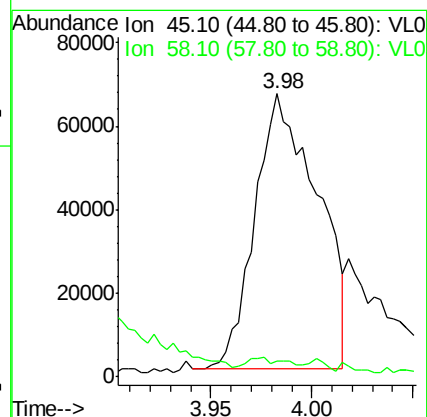
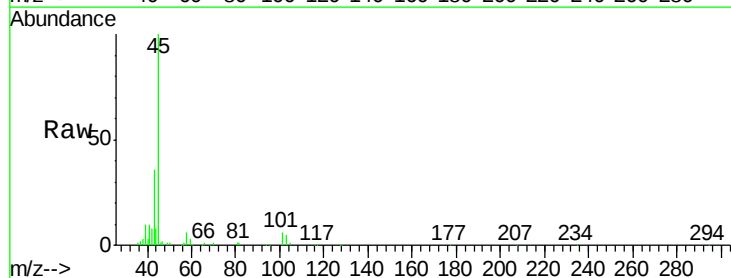
Acq: 17 Jun 2021 4:16

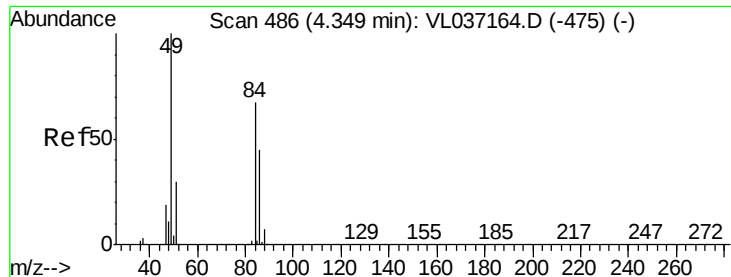
Tgt Ion: 45 Resp: 142939

Ion Ratio Lower Upper

45 100

58 10.4 2.4 3.6#





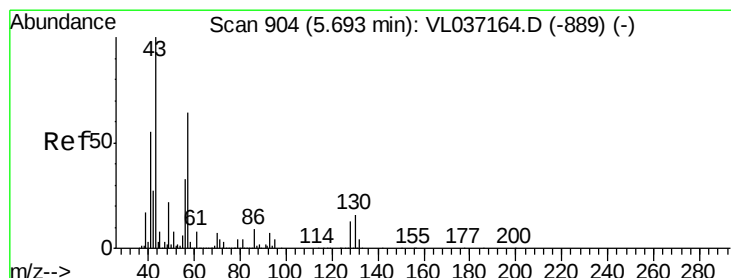
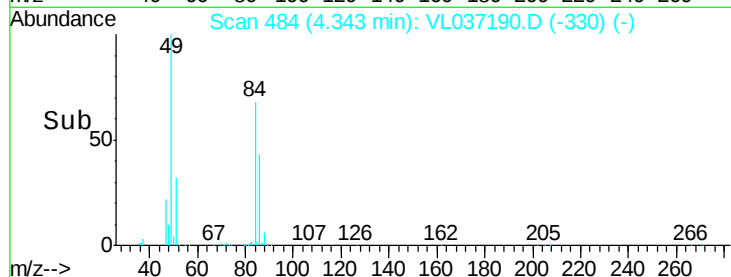
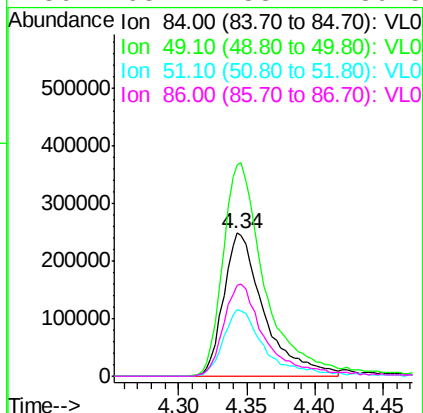
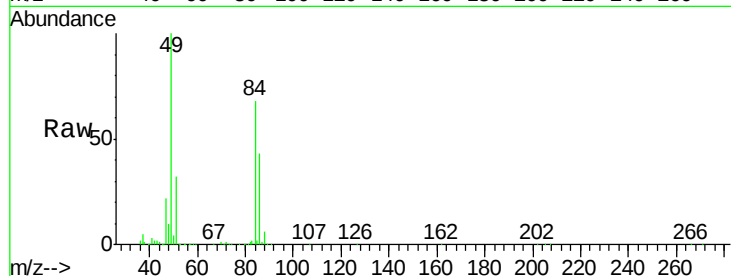
#20
Methvlene Chloride
Concen: 5.058 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.01 min
Lab File: VL037190.D
Acq: 17 Jun 2021 4:16

Instrument :
MSVOA_L
ClientSampled :
OA1

Tot Ion:	84	Resp:	513798
Ion	Ratio	Lower	Upper
84	100		
49	147.4	119.7	179.5
51	46.4	36.1	54.1
86	63.4	53.7	80.5

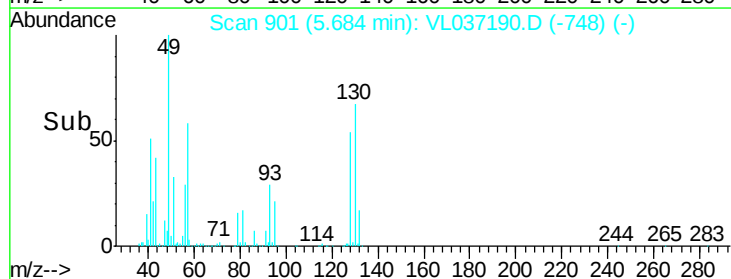
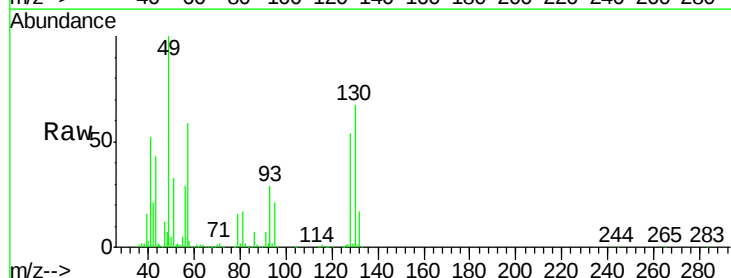
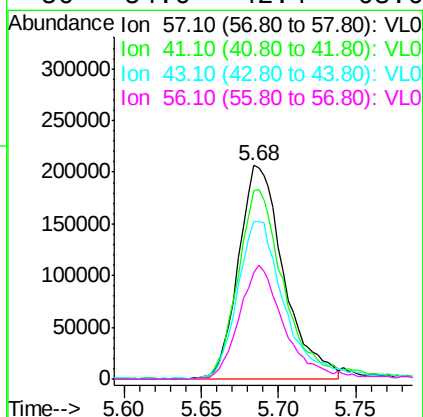
Manual Integrations
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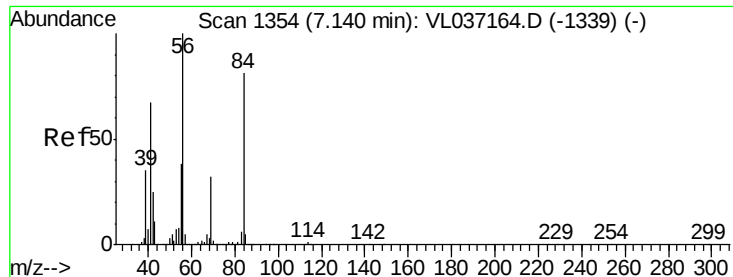
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#26
Hexane
Concen: 2.262 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL037190.D
Acq: 17 Jun 2021 4:16

Tgt Ion:	57	Resp:	419897
Ion	Ratio	Lower	Upper
57	100		
41	93.4	73.5	110.3
43	79.3	170.7	256.1#
56	54.6	42.4	63.6





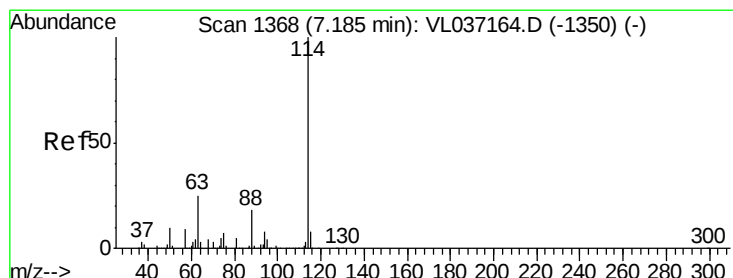
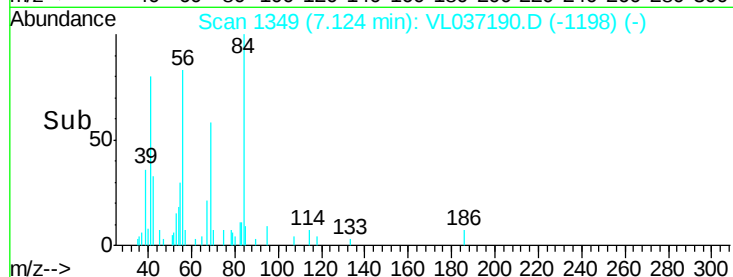
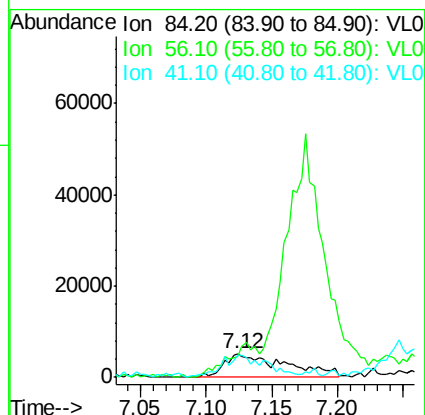
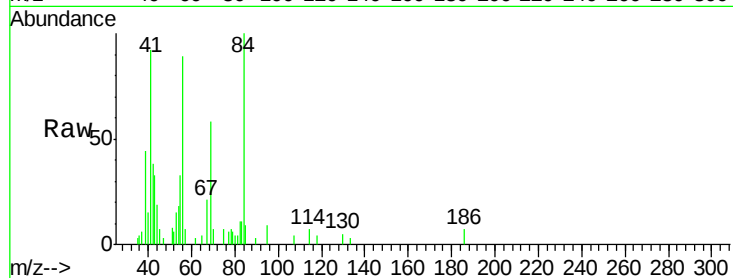
#30
Cvclohexane
Concen: 0.110 ppbv m
RT: 7.12 min Scan# 1349
Delta R.T. -0.02 min
Lab File: VL037190.D
Acq: 17 Jun 2021 4:16

Instrument :
MSVOA_L
ClientSampleId :
QA1

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	107.7	161.5#
41	68.6	69.0	103.6#

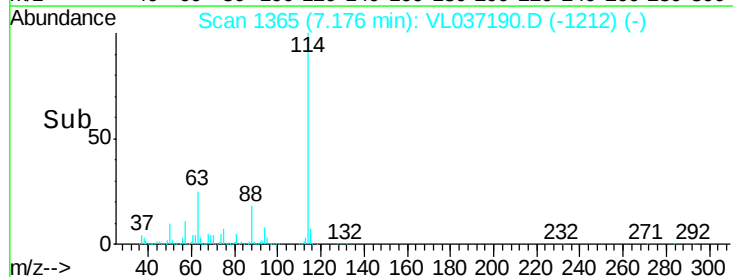
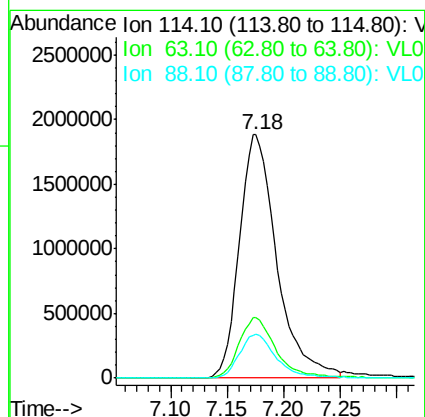
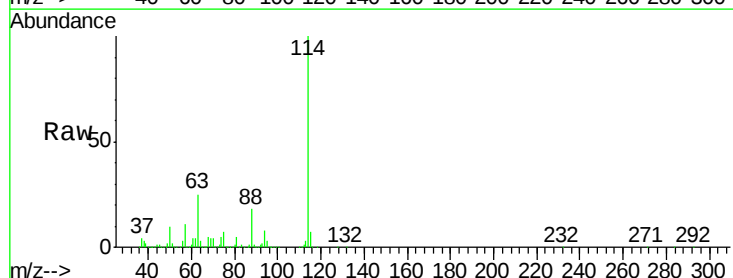
Manual Integrations
APPROVED

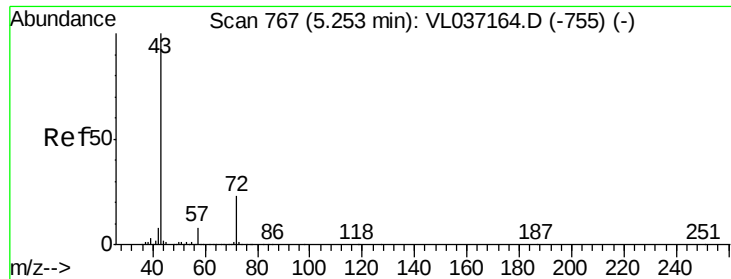
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.01 min
Lab File: VL037190.D
Acq: 17 Jun 2021 4:16

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.9	19.6	29.4
88	18.2	14.2	21.2





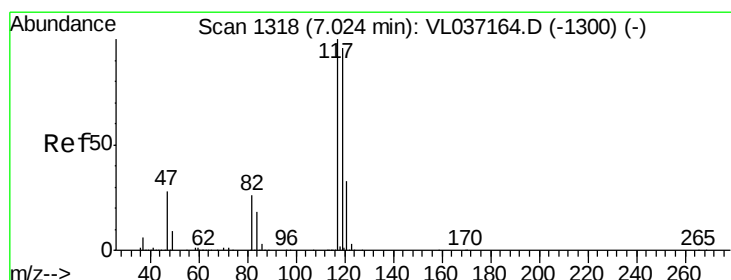
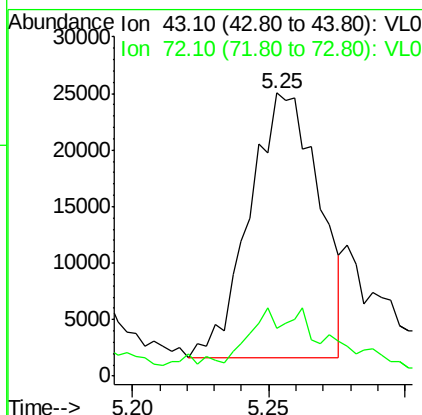
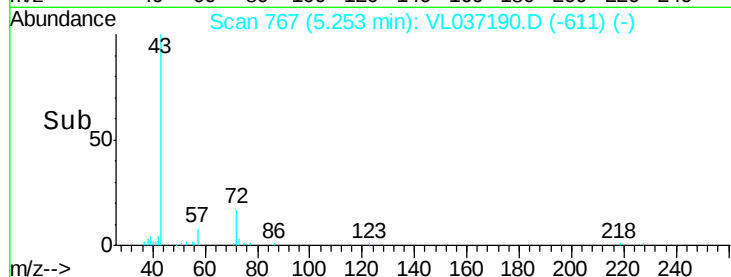
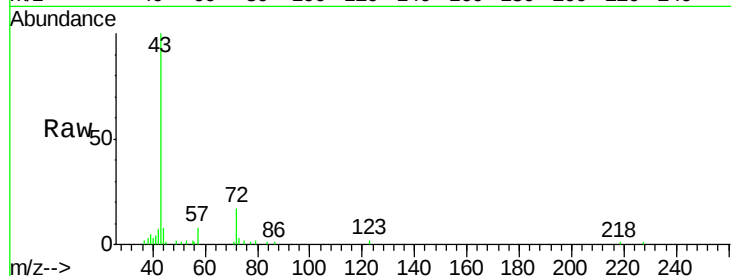
#34
2-Butanone
Concen: 0.246 ppbv
RT: 5.25 min Scan# 767
Delta R.T. 0.00 min
Lab File: VL037190.D
Acq: 17 Jun 2021 4:16

Instrument :
MSVOA_L
ClientSampled :
OA1

Tot Ion	43	Resp	41581
Ion Ratio	100	Lower	Upper
72	37.4	18.9	28.3#

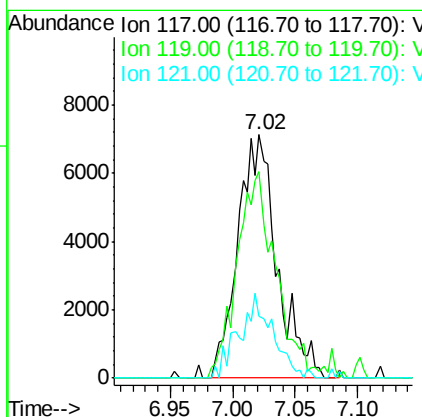
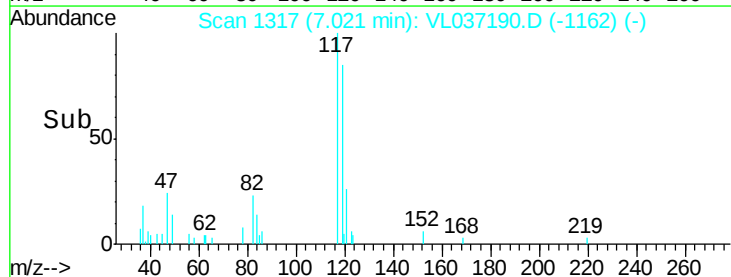
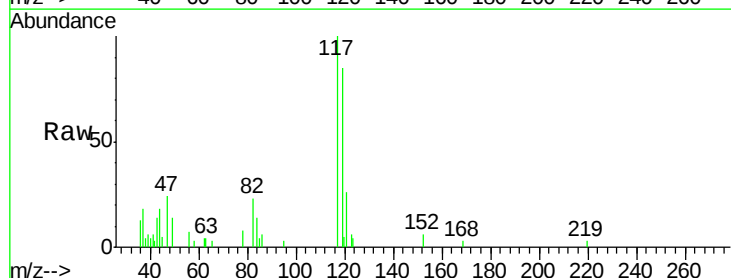
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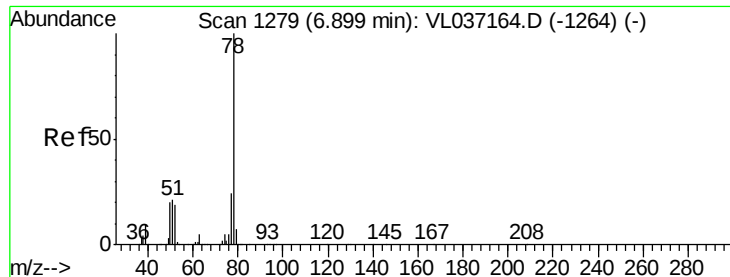
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#35
Carbon Tetrachloride
Concen: 0.054 ppbv m
RT: 7.02 min Scan# 1317
Delta R.T. -0.00 min
Lab File: VL037190.D
Acq: 17 Jun 2021 4:16

Tgt Ion	117	Resp	15657
Ion Ratio	100	Lower	Upper
119	85.0	76.6	114.8
121	25.6	26.4	39.6#





#36

Benzene

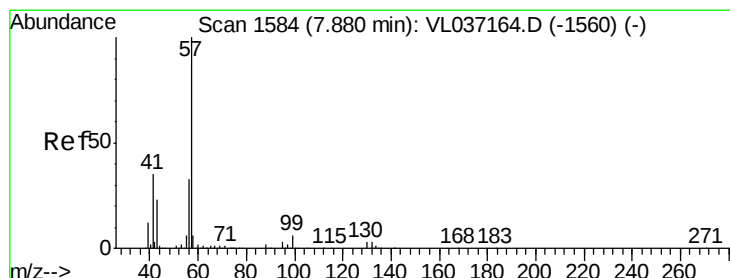
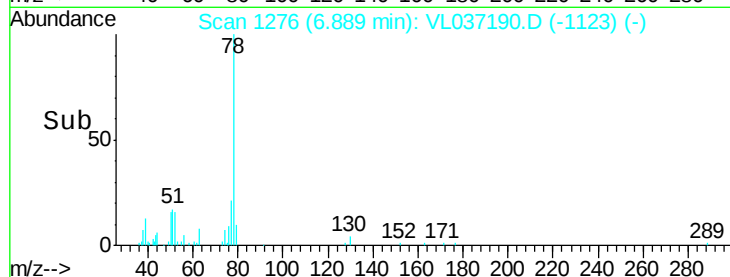
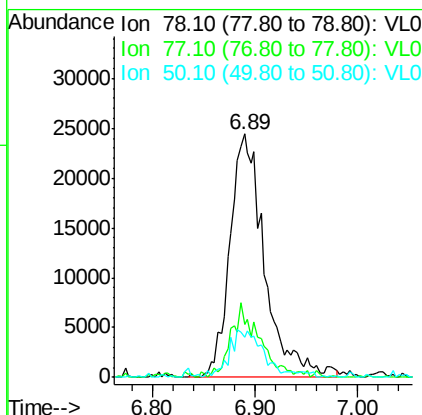
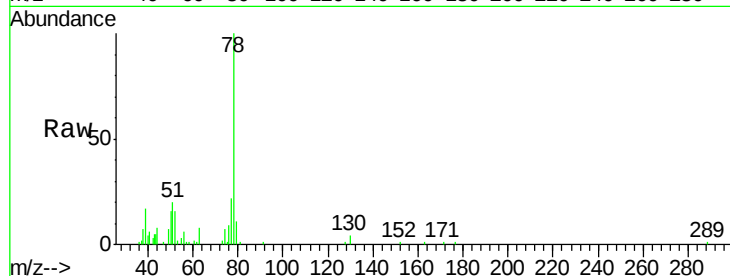
Concen: 0.163 ppbv m
 RT: 6.89 min Scan# 1276
 Delta R.T. -0.01 min
 Lab File: VL037190.D
 Acq: 17 Jun 2021 4:16

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tot Ion	Ratio	Lower	Upper
78	100		
77	21.6	19.0	28.6
50	16.3	15.7	23.5

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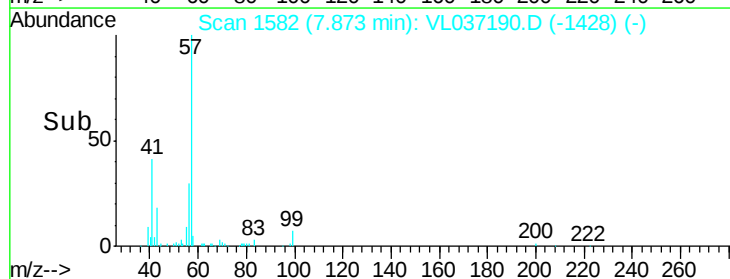
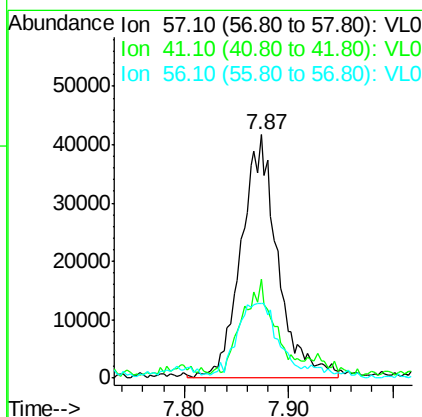
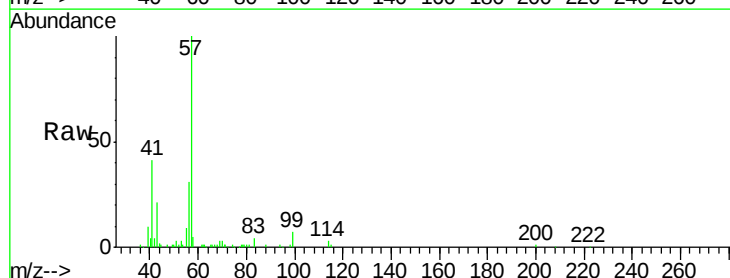


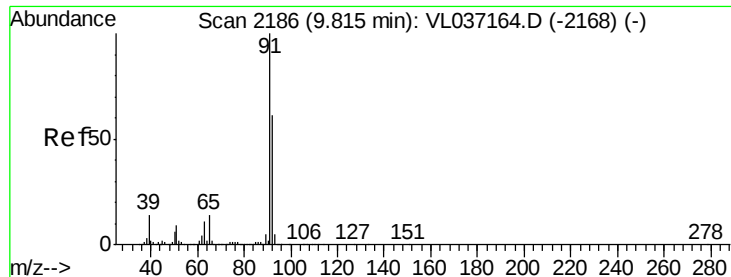
#44

2,2,4-Trimethylpentane

Concen: 0.172 ppbv m
 RT: 7.87 min Scan# 1582
 Delta R.T. -0.01 min
 Lab File: VL037190.D
 Acq: 17 Jun 2021 4:16

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.6	41.4#
56	0.0	25.3	37.9#





#53

Toluene

Concen: 0.751 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.01 min

Lab File: VL037190.D

Acq: 17 Jun 2021 4:16

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 91 Resp: 314880

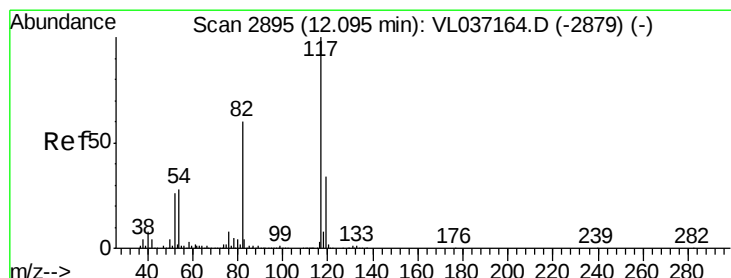
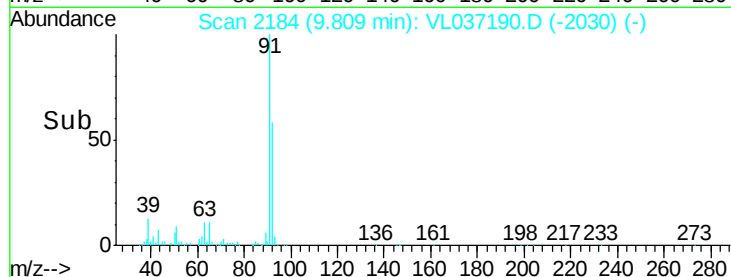
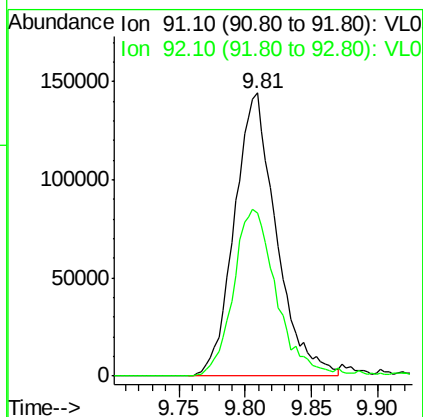
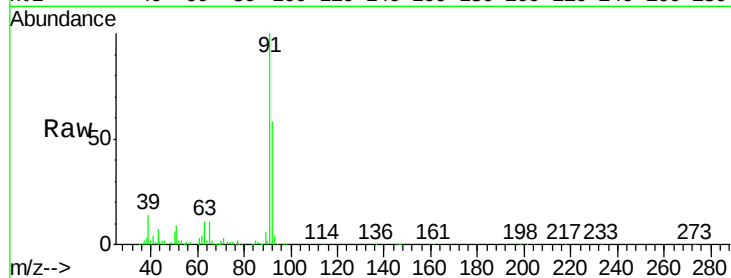
Ion Ratio Lower Upper

91 100

92 61.3 48.3 72.5

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL037190.D

Acq: 17 Jun 2021 4:16

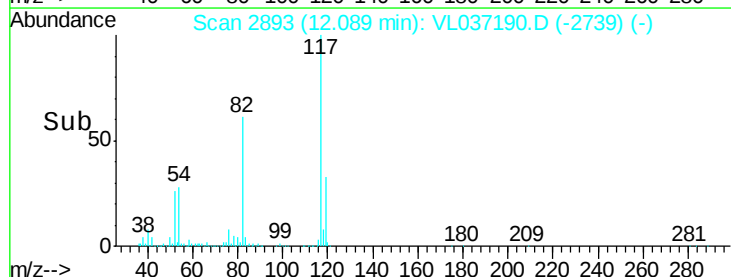
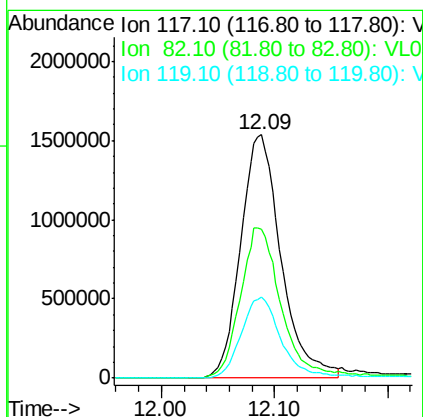
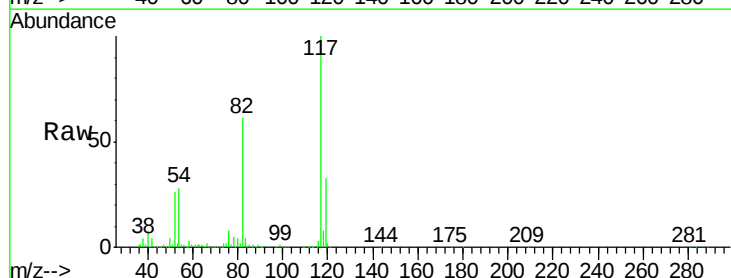
Tgt Ion: 117 Resp: 3822779

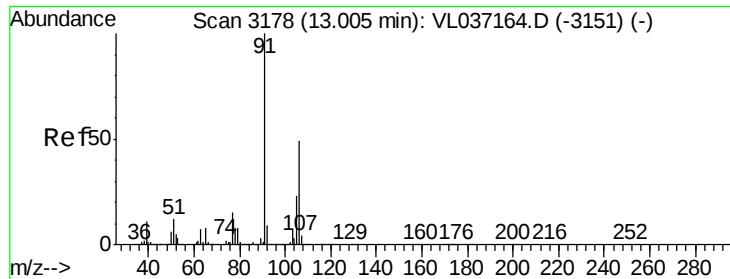
Ion Ratio Lower Upper

117 100

82 64.8 51.7 77.5

119 34.4 47.6 71.4#





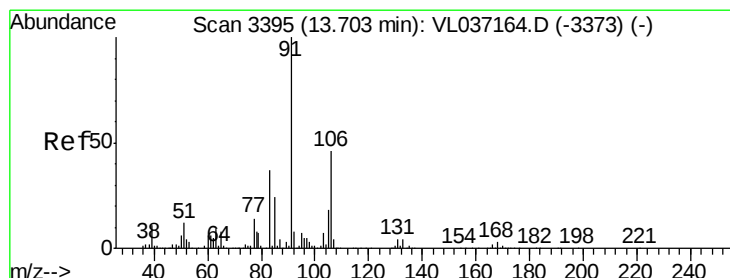
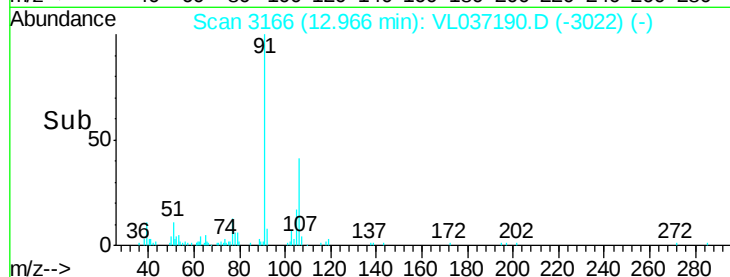
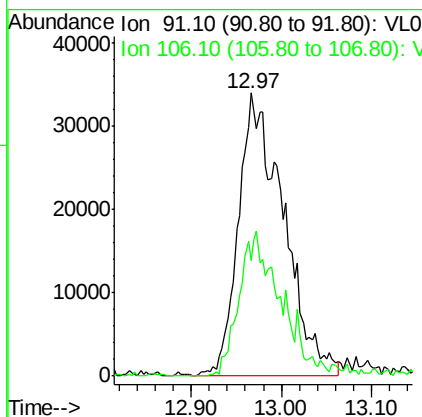
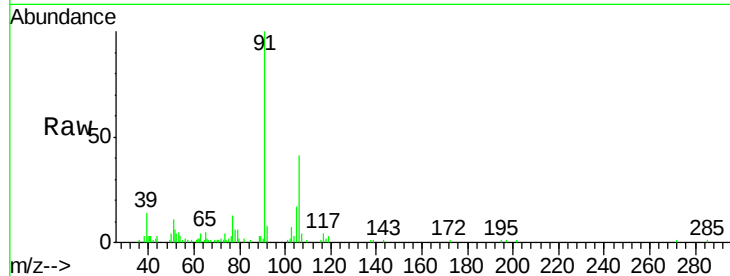
#59
m/p-Xylene
Concen: 0.265 ppbv m
RT: 12.97 min Scan# 3166
Delta R.T. -0.04 min
Lab File: VL037190.D
Acq: 17 Jun 2021 4:16

Instrument :
MSVOA_L
ClientSampled :
OA1

Tot Ion: 91 Resp: 118153
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.4#

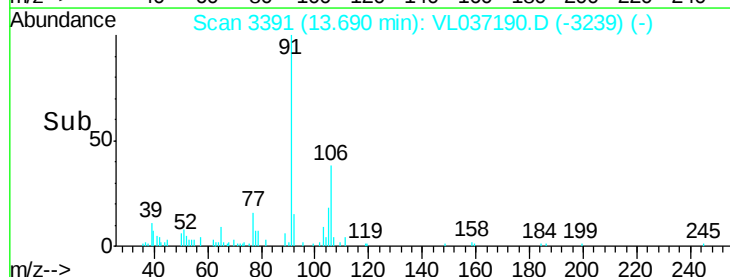
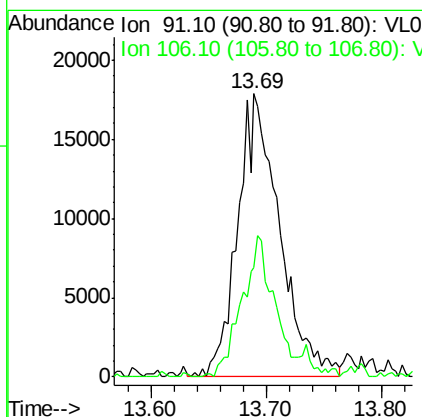
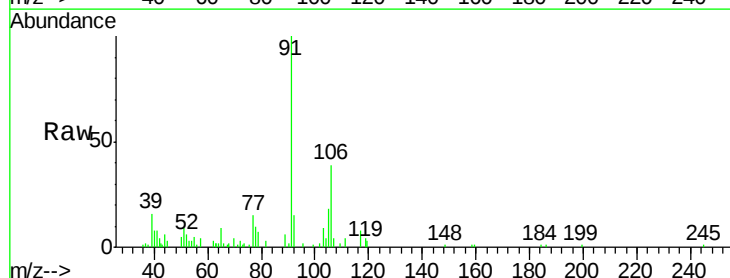
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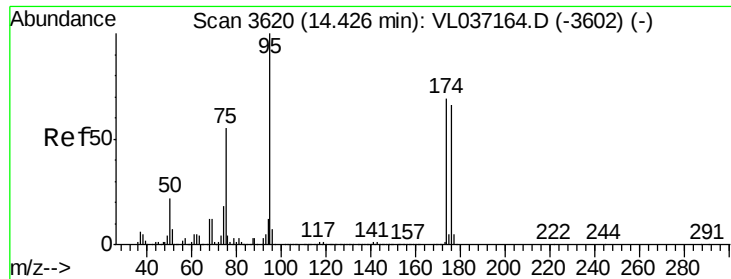
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#60
o-Xylene
Concen: 0.106 ppbv m
RT: 13.69 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL037190.D
Acq: 17 Jun 2021 4:16

Tgt Ion: 91 Resp: 45150
Ion Ratio Lower Upper
91 100
106 41.9 23.0 69.0





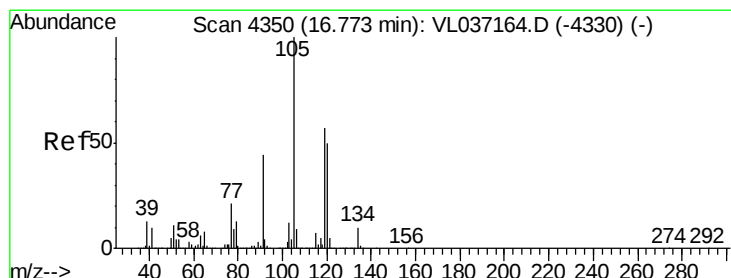
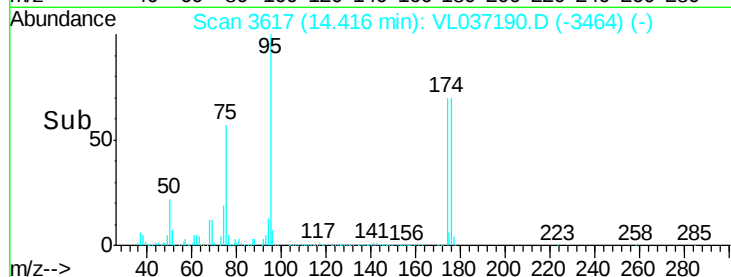
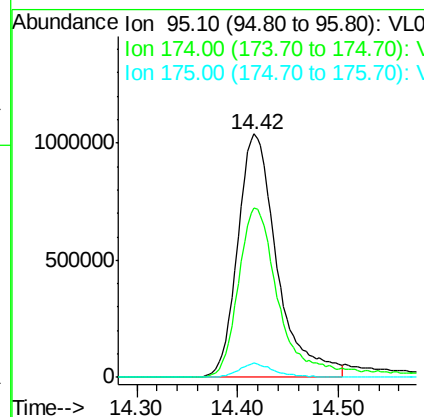
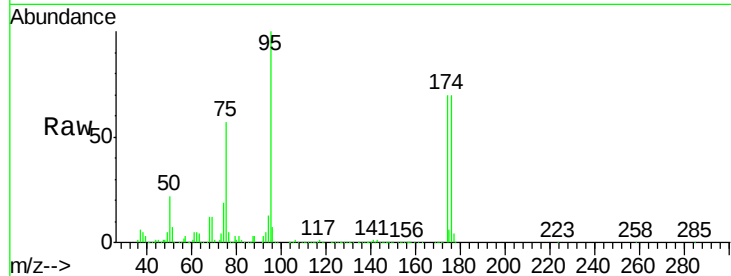
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.754 ppbv
 RT: 14.42 min Scan# 3617
 Delta R.T. -0.01 min
 Lab File: VL037190.D
 Acq: 17 Jun 2021 4:16

Instrument :
 MSVOA_L
 ClientSampled :
 OA1

Tot Ion: 95 Resp: 2825606
 Ion Ratio Lower Upper
 95 100
 174 75.6 57.0 85.4
 175 5.4 4.4 6.6

Manual Integrations
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.143 ppbv m
 RT: 16.76 min Scan# 4347
 Delta R.T. -0.01 min
 Lab File: VL037190.D
 Acq: 17 Jun 2021 4:16

Tgt Ion: 105 Resp: 68915
 Ion Ratio Lower Upper
 105 100
 120 46.9 39.8 59.8
 91 13.9 37.0 55.4#
 77 13.3 17.0 25.4#

