

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062221\
 Data File : VL037226.D
 Acq On : 22 Jun 2021 21:12
 Operator : SY/AP
 Sample : M2807-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-01

Manual Integrations
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 6/24/2021 4:33:10 PM

Quant Time: Jun 24 09:25:49 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 1
 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	1165660	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3450797	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3179895	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2505398	10.40	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	38341	0.189	ppbv	89
4) Chloromethane	3.14	50	15855m	0.210	ppbv	
9) Propene	3.02	41	436541m	6.024	ppbv	
10) Heptane	8.12	43	32911m	0.188	ppbv	
11) Trichlorofluoromethane	3.95	101	57673	0.267	ppbv	99
13) Ethanol	3.62	45	368964m	32.911	ppbv	
15) Acetone	3.86	43	711815	5.415	ppbv	96
17) tert-Butyl alcohol	4.32	59	56448m	0.465	ppbv	
19) Isopropyl Alcohol	4.00	45	66377m	0.834	ppbv	
20) Methylene Chloride	4.35	84	686350	8.722	ppbv	98
26) Hexane	5.69	57	518667	3.606	ppbv #	45
27) Carbon Disulfide	4.56	76	33501m	0.238	ppbv	
29) Chloroform	5.75	83	375974	1.692	ppbv	92
30) Cyclohexane	7.13	84	28697m	0.239	ppbv	
34) 2-Butanone	5.26	43	38415	0.286	ppbv #	84
35) Carbon Tetrachloride	7.02	117	14978m	0.065	ppbv	
36) Benzene	6.90	78	38146	0.137	ppbv	93
38) Trichloroethene	7.84	130	5258m	0.040	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	78760	0.168	ppbv #	56
50) 4-Methyl-2-Pentanone	8.77	43	28760m	0.156	ppbv	
52) Tetrachloroethene	11.23	164	43695	0.337	ppbv #	87
53) Toluene	9.81	91	1075904	3.228	ppbv	99
58) Ethyl Benzene	12.71	91	91819m	0.210	ppbv	
59) m/p-Xylene	12.97	91	228063m	0.615	ppbv	
60) o-Xylene	13.70	91	78838m	0.223	ppbv	
69) p-Isopropyltoluene	17.66	119	83179	0.166	ppbv #	82
74) 1,2,4-Trimethylbenzene	16.77	105	92274	0.231	ppbv #	67

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

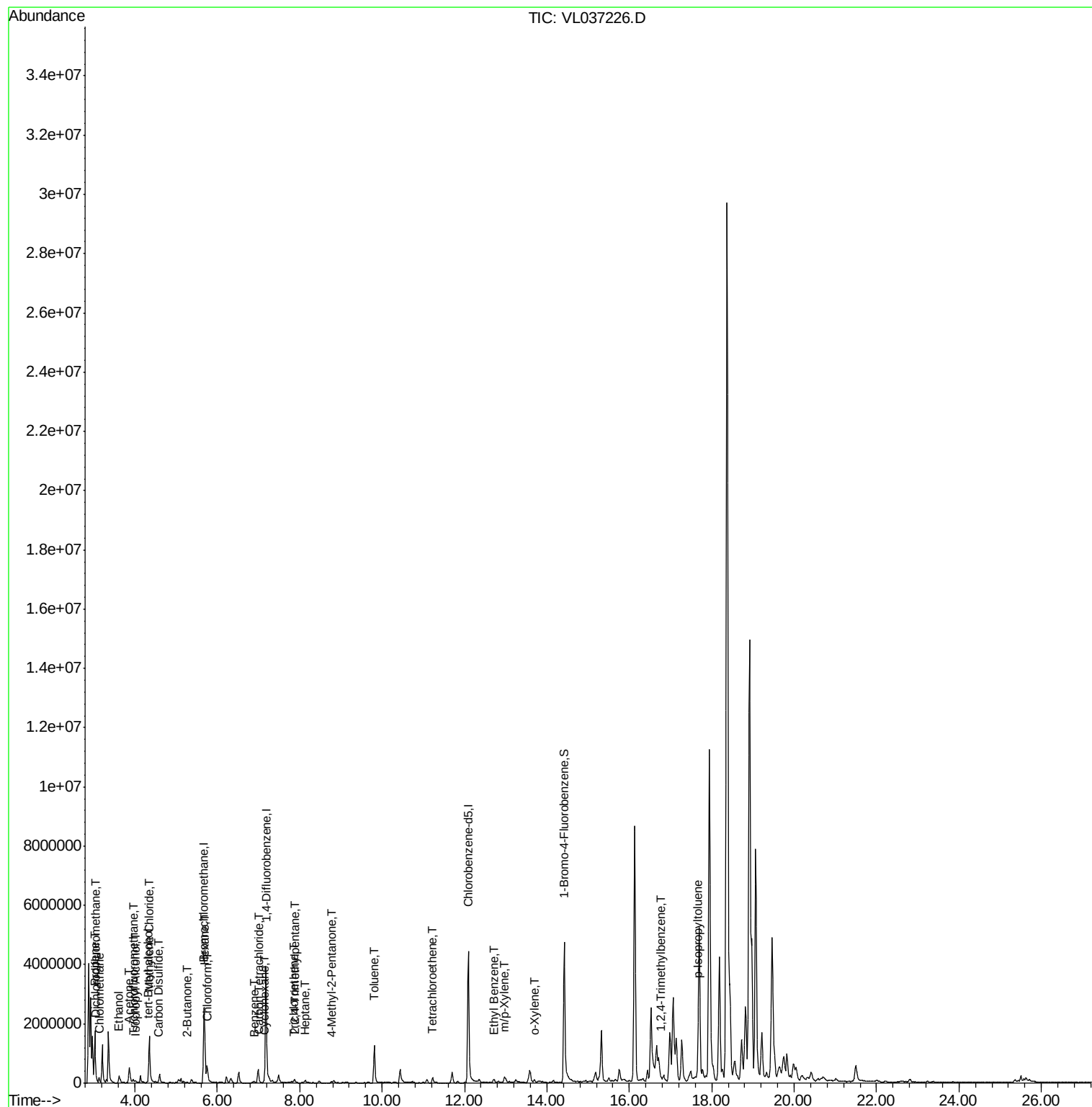
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062221\
Data File : VL037226.D
Acq On : 22 Jun 2021 21:12
Operator : SY/AP
Sample : M2807-01
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

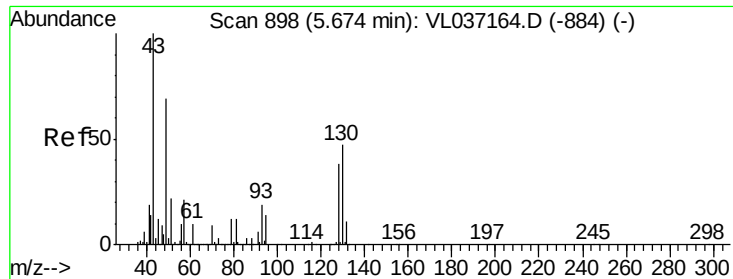
Instrument :
MSVOA_L
ClientSampleId :
SV-01

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Quant Time: Jun 24 09:25:49 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# 898

Delta R.T. 0.00 min

Lab File: VL037226.D

Acq: 22 Jun 2021 21:12

Instrument :

MSVOA_L

ClientSampleId :

SV-01

Tot Ion: 49 Resp: 1165660

Ion Ratio Lower Upper

49 100

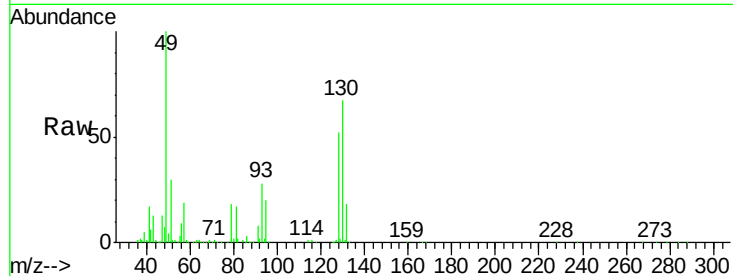
128 58.2 29.3 88.0

130 73.3 35.9 107.8

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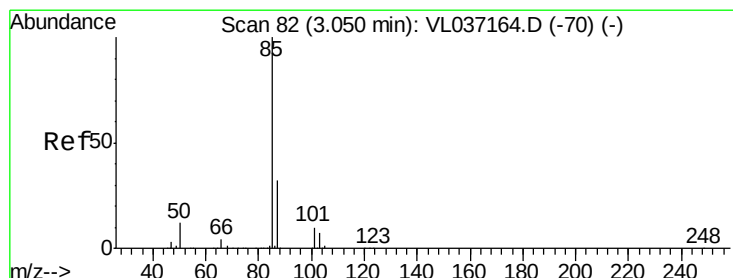
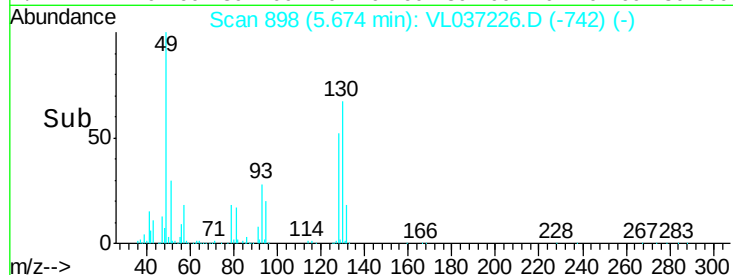
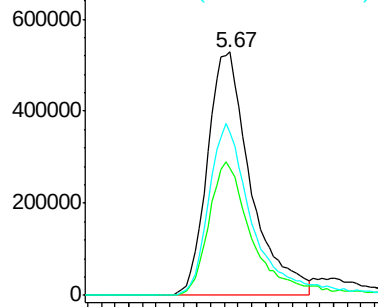
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.189 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL037226.D

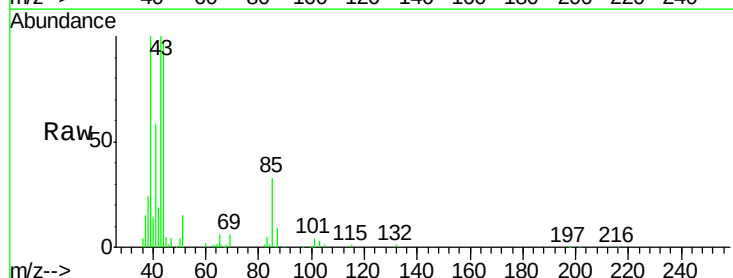
Acq: 22 Jun 2021 21:12

Tgt Ion: 85 Resp: 38341

Ion Ratio Lower Upper

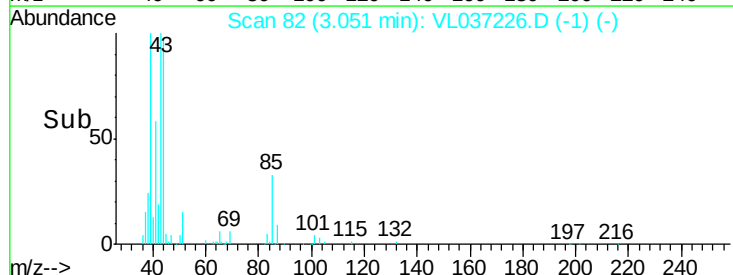
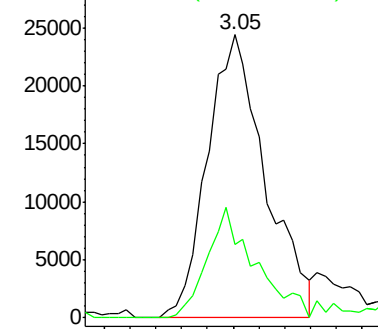
85 100

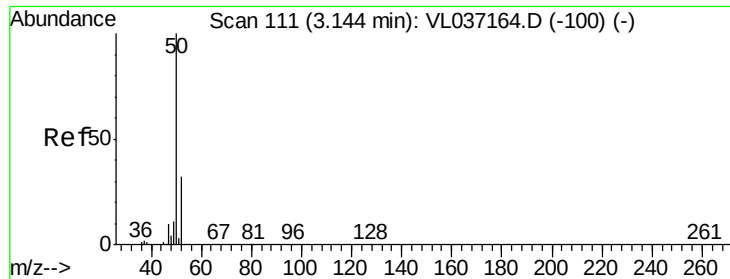
87 26.1 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.210 ppbv m

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL037226.D

Acq: 22 Jun 2021 21:12

Instrument :

MSVOA_L

ClientSampled :

SV-01

Tot Ion: 50 Resp: 15855

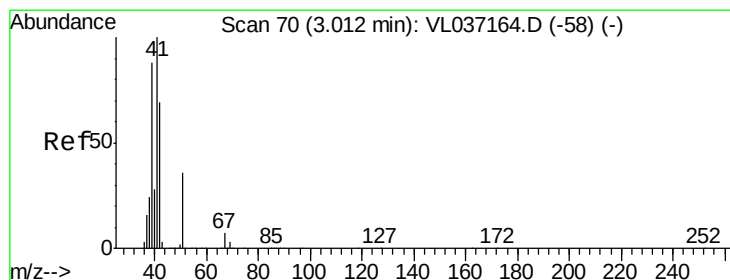
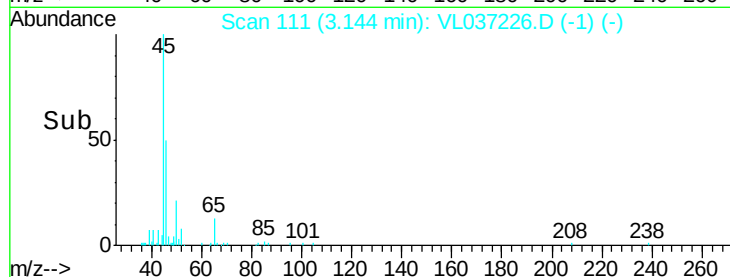
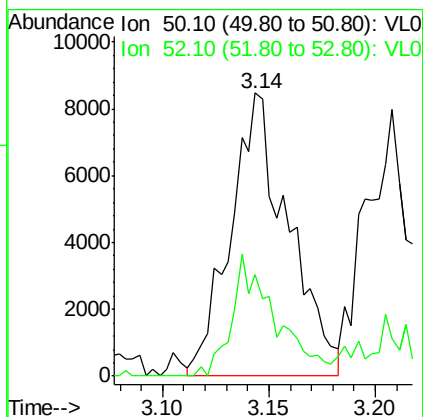
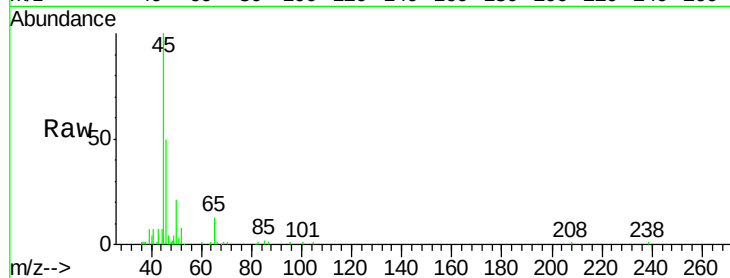
Ion Ratio Lower Upper

50 100

52 36.0 25.8 38.8

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#9

Propene

Concen: 6.024 ppbv m

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL037226.D

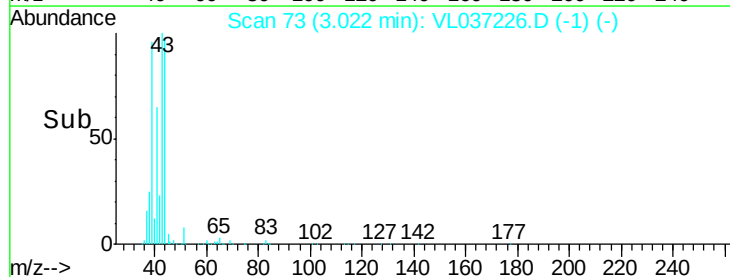
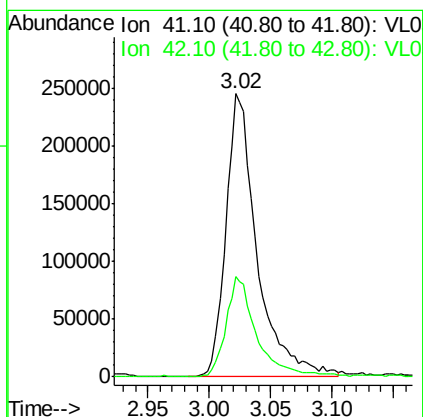
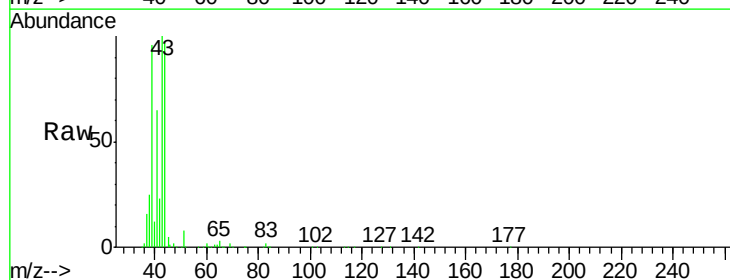
Acq: 22 Jun 2021 21:12

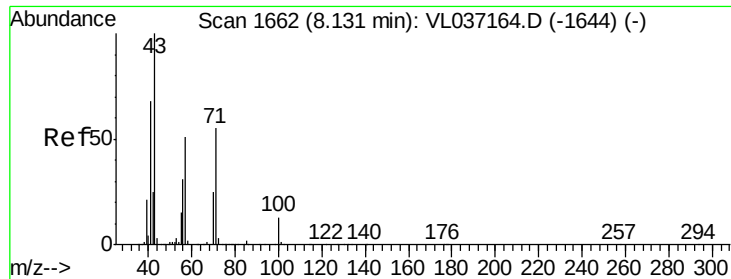
Tgt Ion: 41 Resp: 436541

Ion Ratio Lower Upper

41 100

42 70.1 54.5 81.7





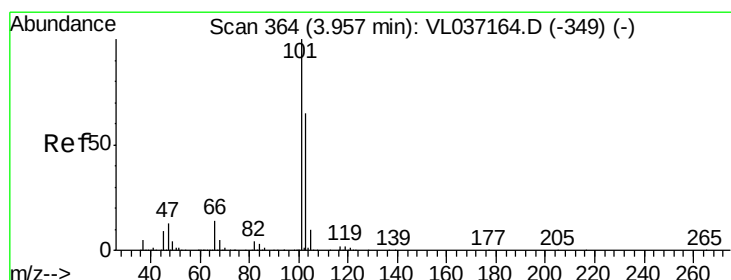
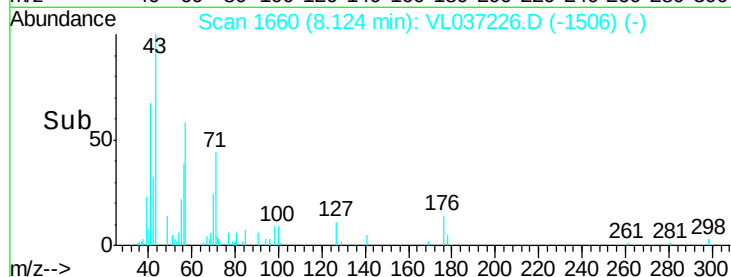
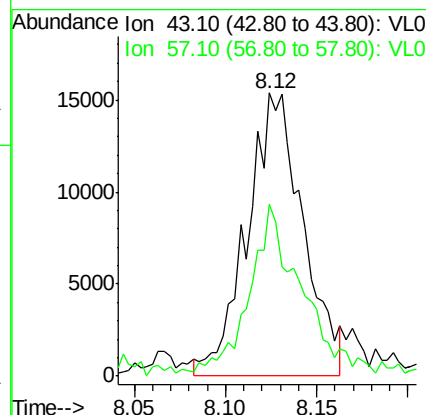
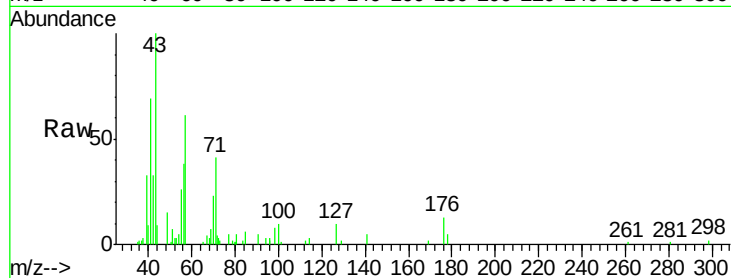
#10
 Heptane
 Concen: 0.188 ppbv m
 RT: 8.12 min Scan# 1660
 Delta R.T. -0.01 min
 Lab File: VL037226.D
 Acq: 22 Jun 2021 21:12

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-01

Tot Ion: 43 Resp: 32911
 Ion Ratio Lower Upper
 43 100
 57 61.4 40.6 61.0#

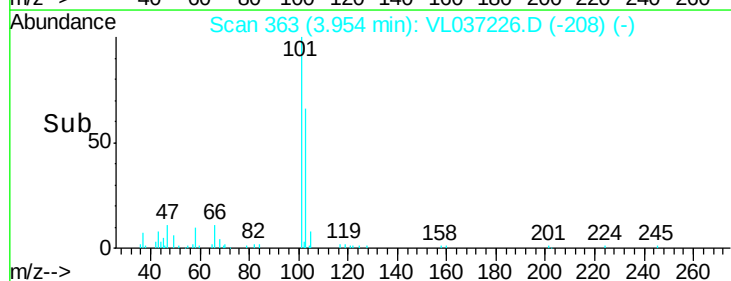
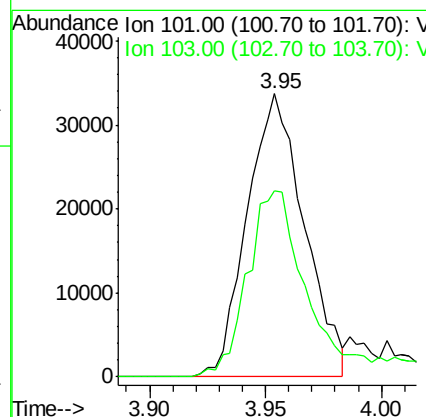
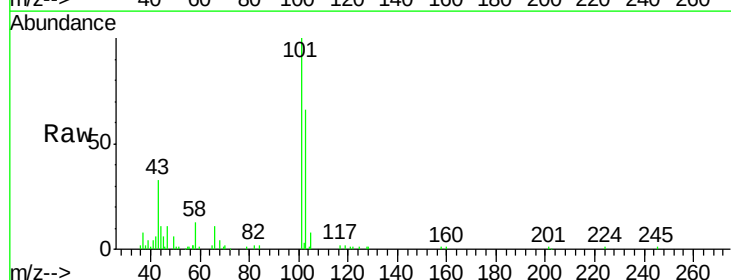
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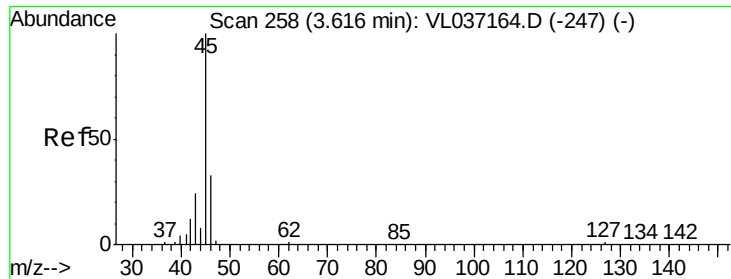
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#11
 Trichlorofluoromethane
 Concen: 0.267 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. -0.00 min
 Lab File: VL037226.D
 Acq: 22 Jun 2021 21:12

Tgt Ion: 101 Resp: 57673
 Ion Ratio Lower Upper
 101 100
 103 65.9 52.2 78.4





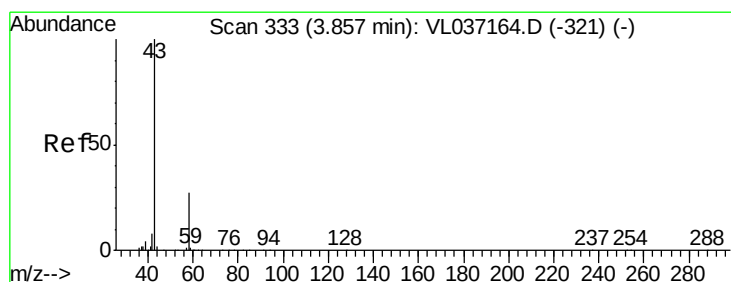
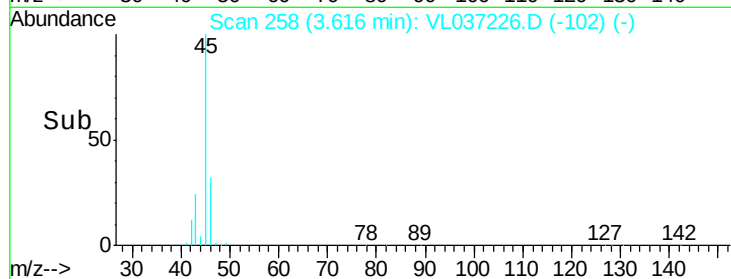
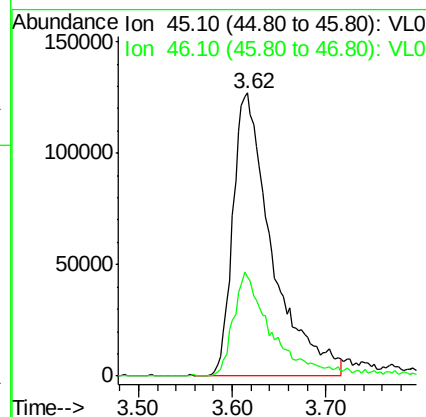
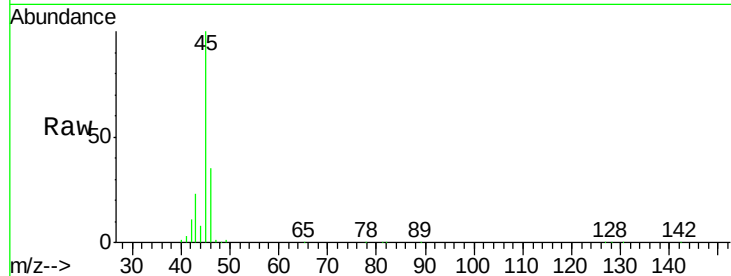
#13
Ethanol
Concen: 32.911 ppbv m
RT: 3.62 min Scan# 258
Delta R.T. 0.00 min
Lab File: VL037226.D
Acq: 22 Jun 2021 21:12

Instrument :
MSVOA_L
ClientSampleId :
SV-01

Tot Ion	45	Resp	368964
Ion Ratio	100	Lower	Upper
46	37.6	34.2	137.0

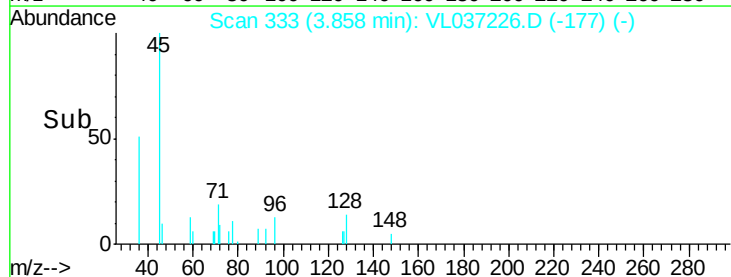
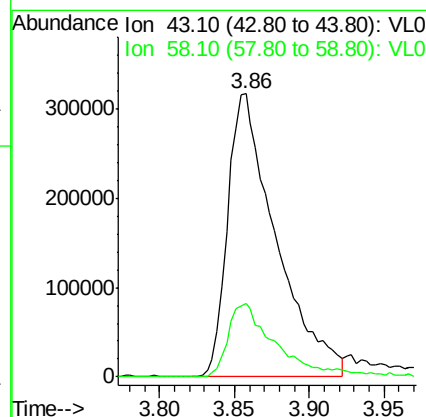
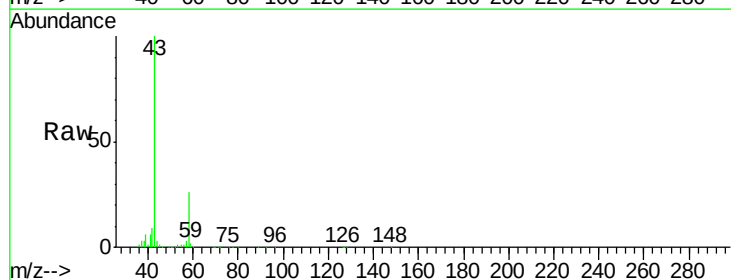
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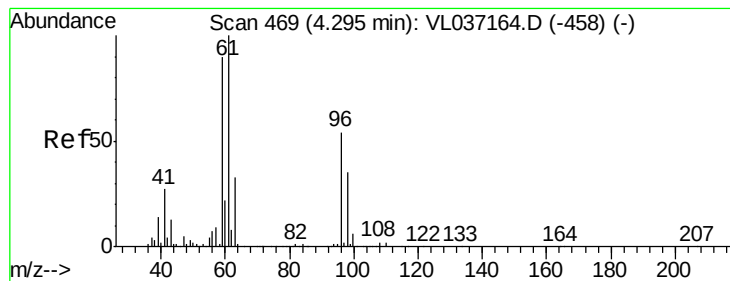
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#15
Acetone
Concen: 5.415 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.00 min
Lab File: VL037226.D
Acq: 22 Jun 2021 21:12

Tgt Ion	43	Resp	711815
Ion Ratio	100	Lower	Upper
58	27.7	23.7	35.5





#17

tert-Butyl alcohol

Concen: 0.465 ppbv m

RT: 4.32 min Scan# 478

Delta R.T. 0.03 min

Lab File: VL037226.D

Acq: 22 Jun 2021 21:12

Instrument :

MSVOA_L

ClientSampled :

SV-01

Tot Ion: 59 Resp: 56448

Ion Ratio Lower Upper

59 100

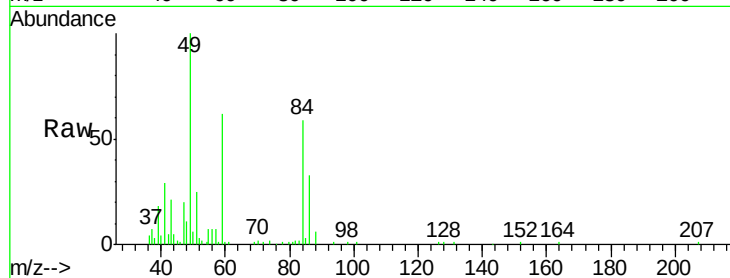
57 14.7 8.8 13.2#

Manual Integrations

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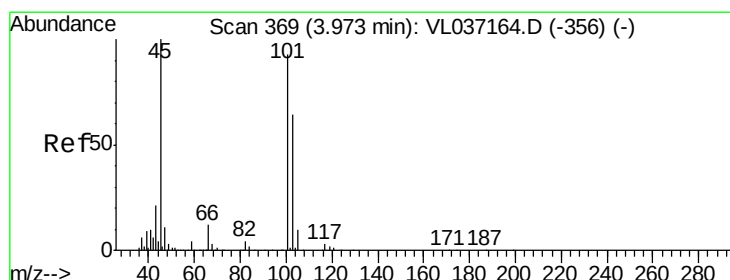
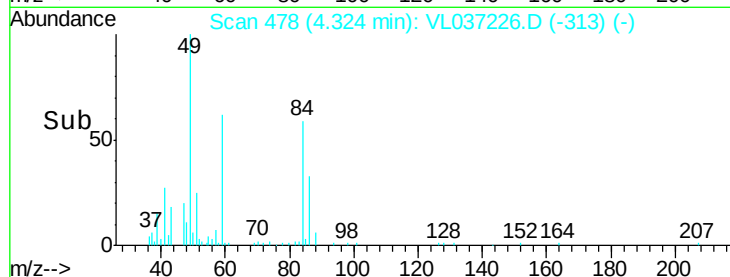
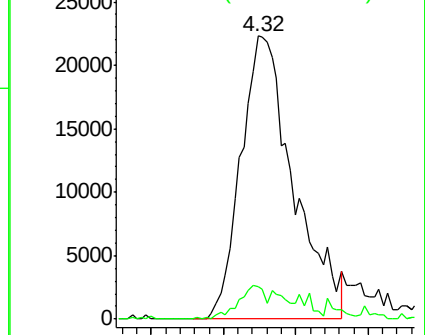
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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 0.834 ppbv m

RT: 4.00 min Scan# 376

Delta R.T. 0.02 min

Lab File: VL037226.D

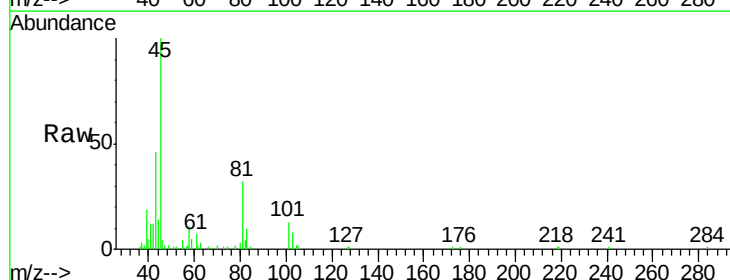
Acq: 22 Jun 2021 21:12

Tgt Ion: 45 Resp: 66377

Ion Ratio Lower Upper

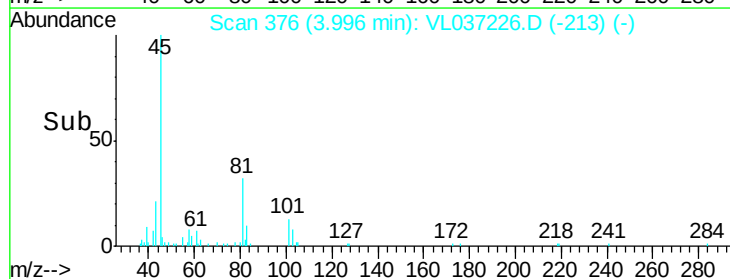
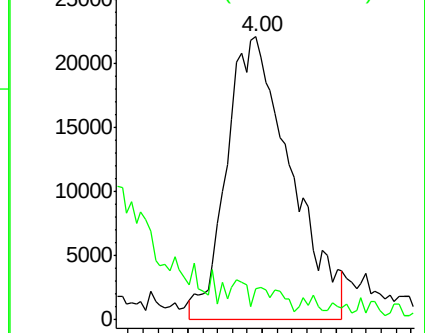
45 100

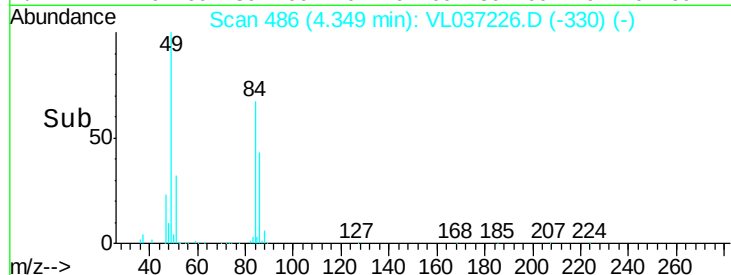
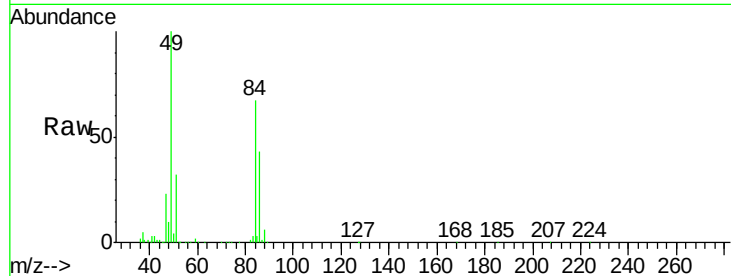
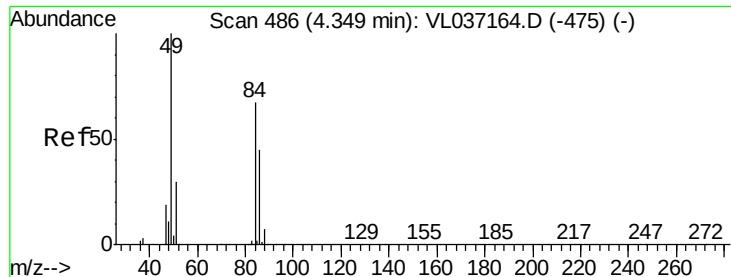
58 0.0 2.4 3.6#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





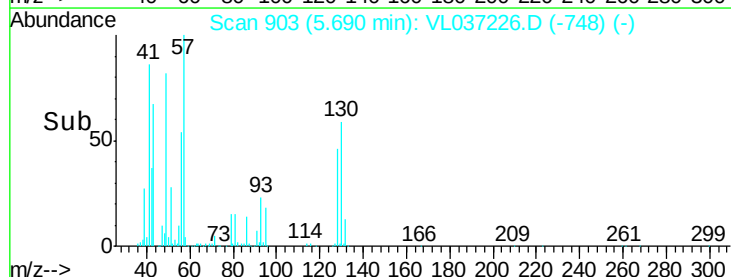
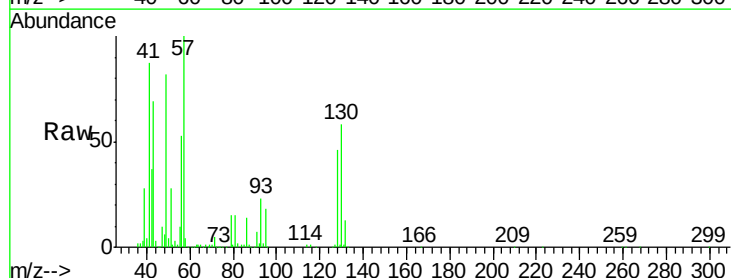
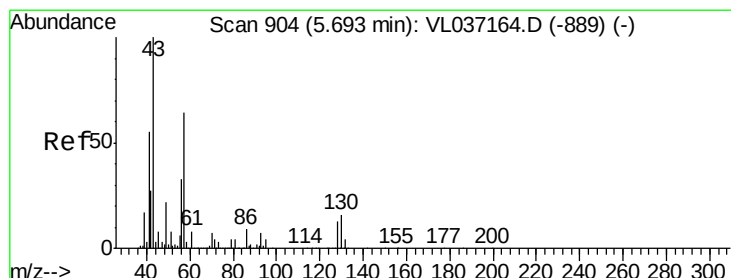
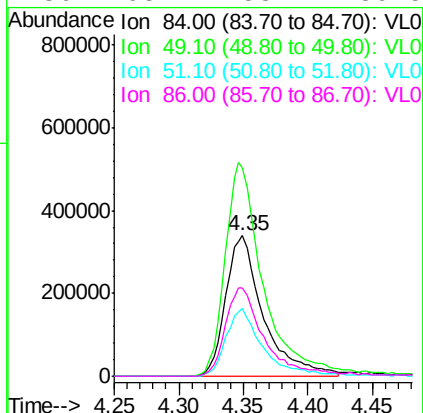
#20
Methylene Chloride
Concen: 8.722 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.00 min
Lab File: VL037226.D
Acq: 22 Jun 2021 21:12

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	148.9	119.7	179.5		
51	48.0	36.1	54.1		
86	63.4	53.7	80.5		

Instrument :
MSVOA_L
ClientSampleId :
SV-01

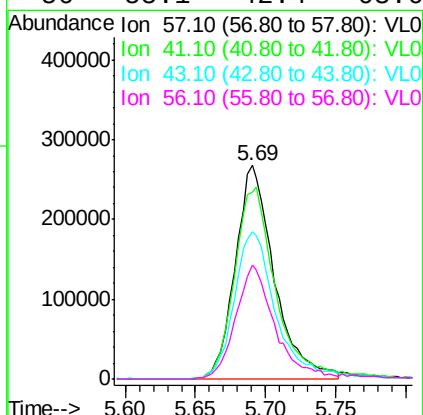
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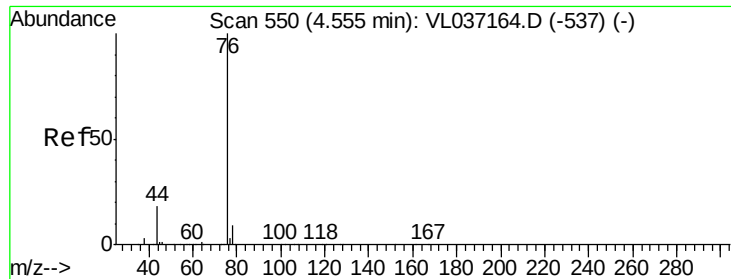
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#26
Hexane
Concen: 3.606 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.00 min
Lab File: VL037226.D
Acq: 22 Jun 2021 21:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	98.3	73.5	110.3		
43	74.6	170.7	256.1		
56	55.1	42.4	63.6		





#27

Carbon Disulfide

Concen: 0.238 ppbv m

RT: 4.56 min Scan# 550

Delta R.T. 0.00 min

Lab File: VL037226.D

Acq: 22 Jun 2021 21:12

Instrument :

MSVOA_L

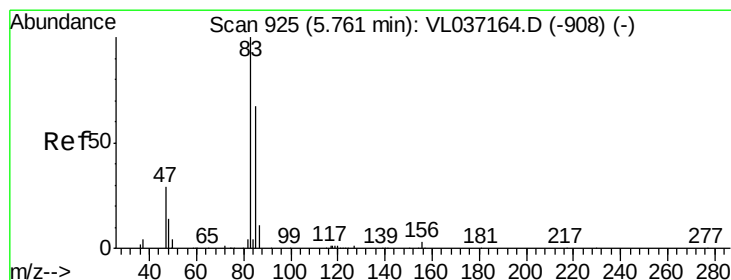
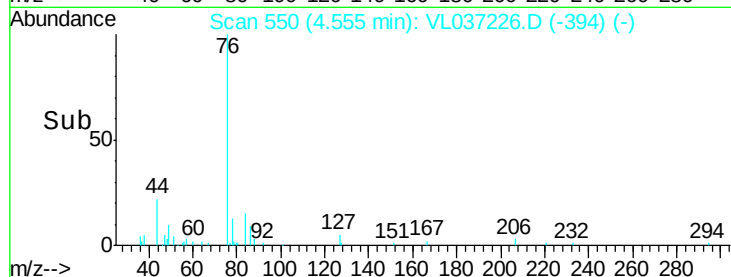
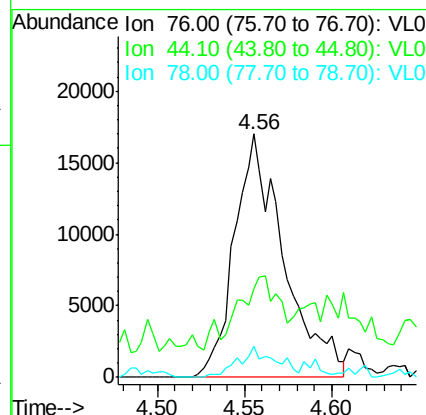
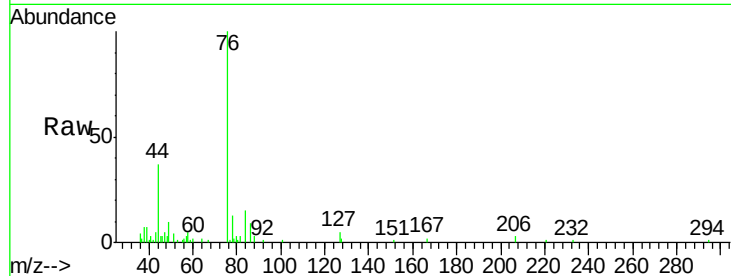
ClientSampleId :

SV-01

Tot Ion:	76	Resp:	33501
Ion Ratio	Lower	Upper	
76	100		
44	56.0	15.4	23.2#
78	0.0	8.0	12.0#

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#29

Chloroform

Concen: 1.692 ppbv

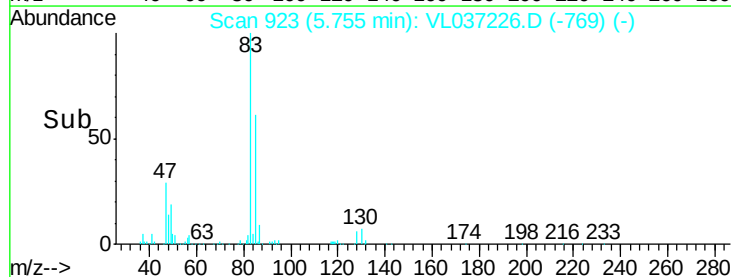
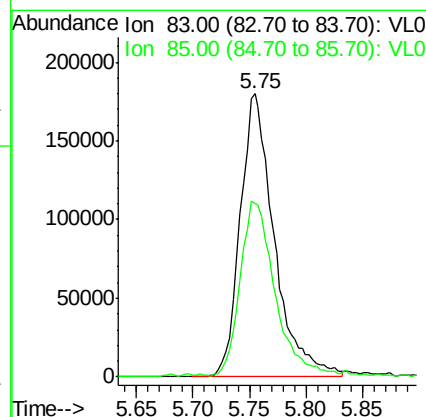
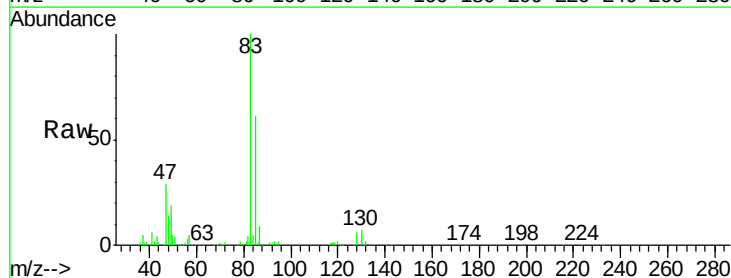
RT: 5.75 min Scan# 923

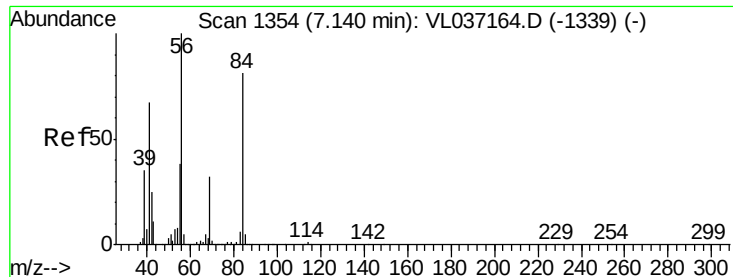
Delta R.T. -0.01 min

Lab File: VL037226.D

Acq: 22 Jun 2021 21:12

Tgt Ion:	83	Resp:	375974
Ion Ratio	Lower	Upper	
83	100		
85	60.8	53.6	80.4





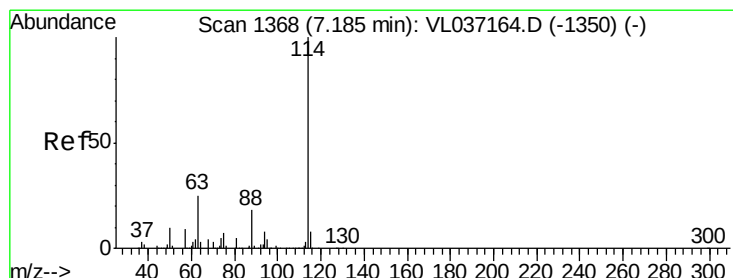
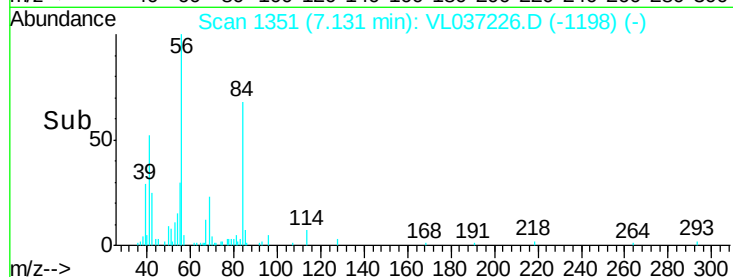
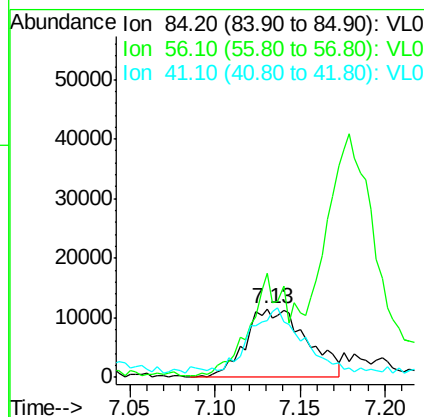
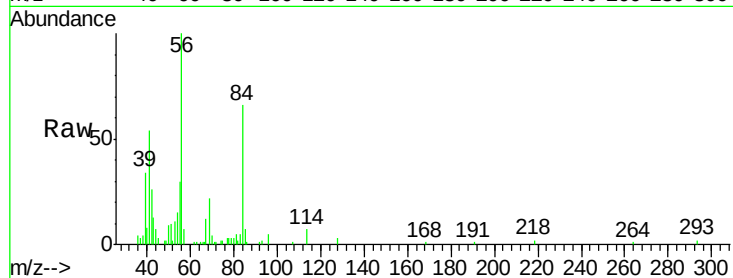
#30
Cyclohexane
Concen: 0.239 ppbv m
RT: 7.13 min Scan# 1351
Delta R.T. -0.01 min
Lab File: VL037226.D
Acq: 22 Jun 2021 21:12

Instrument :
MSVOA_L
ClientSampled :
SV-01

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	107.7	161.5#
41	83.4	69.0	103.6

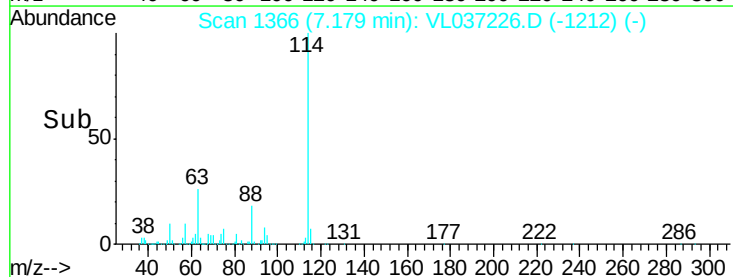
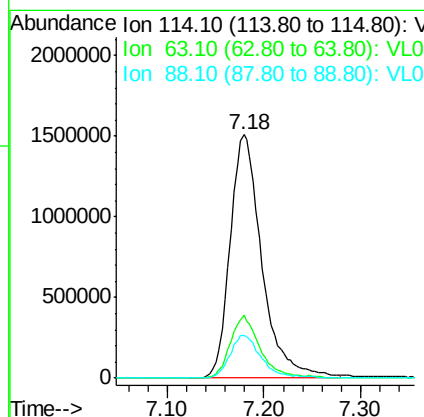
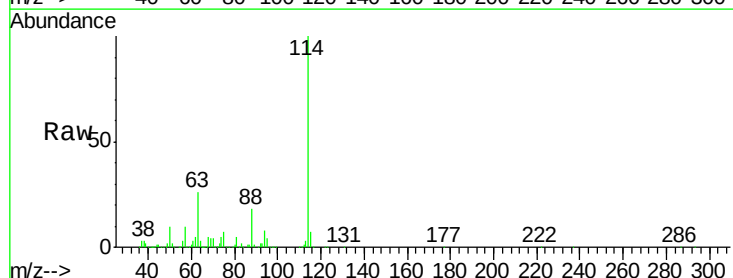
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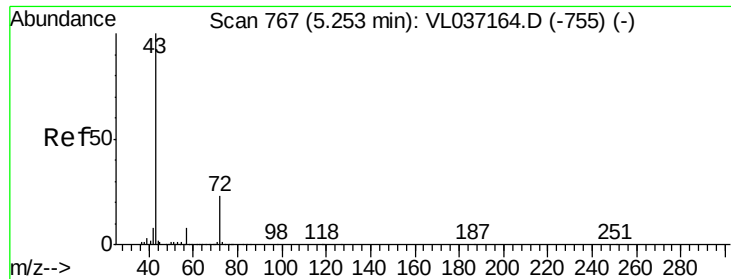
MMDadoda
6/24/2021 4:33:10 PM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.01 min
Lab File: VL037226.D
Acq: 22 Jun 2021 21:12

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.6	19.6	29.4
88	17.7	14.2	21.2





#34

2-Butanone

Concen: 0.286 ppbv

RT: 5.26 min Scan# 768

Delta R.T. 0.00 min

Lab File: VL037226.D

Acq: 22 Jun 2021 21:12

Instrument :

MSVOA_L

ClientSampleId :

SV-01

Tot Ion: 43 Resp: 38415

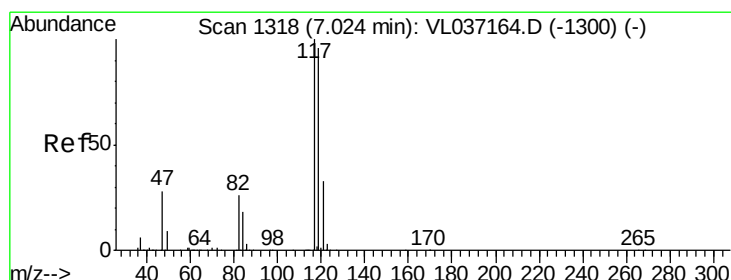
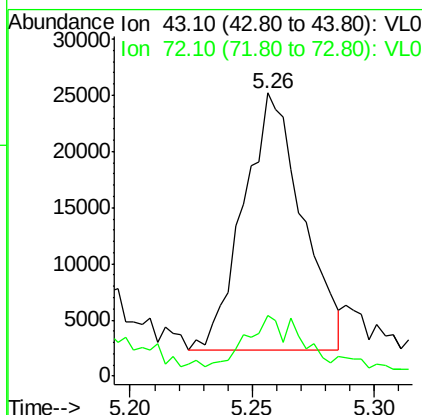
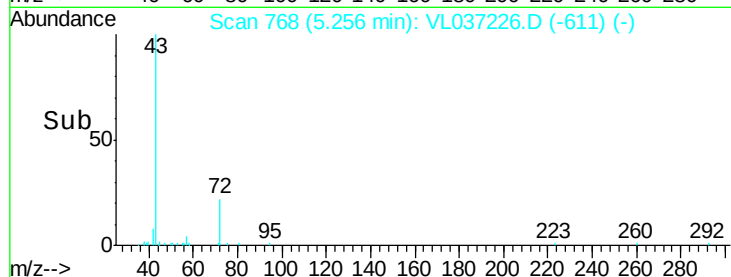
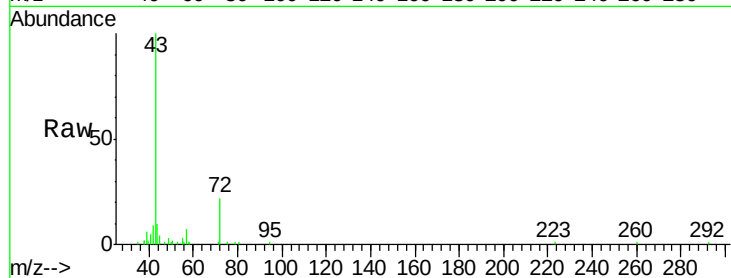
Ion Ratio Lower Upper

43 100

72 31.3 18.9 28.3#

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#35

Carbon Tetrachloride

Concen: 0.065 ppbv m

RT: 7.02 min Scan# 1318

Delta R.T. 0.00 min

Lab File: VL037226.D

Acq: 22 Jun 2021 21:12

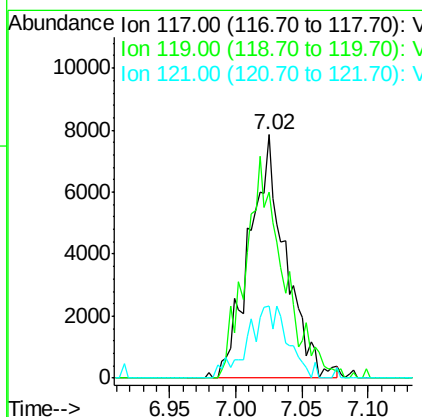
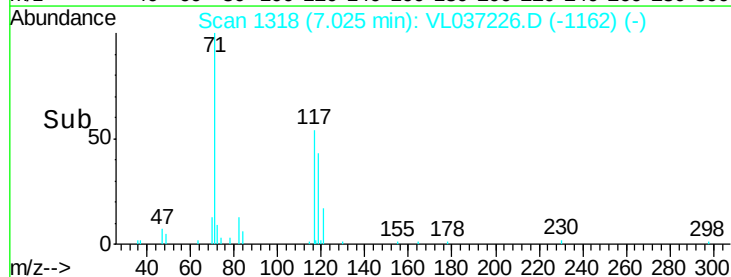
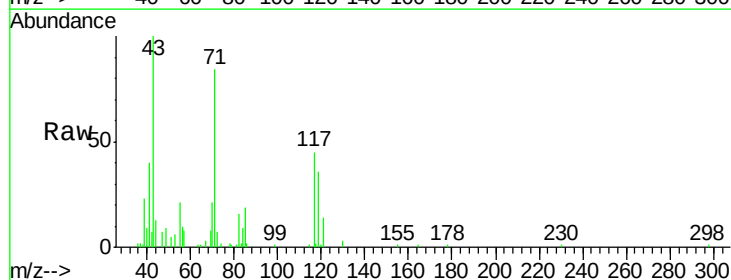
Tgt Ion: 117 Resp: 14978

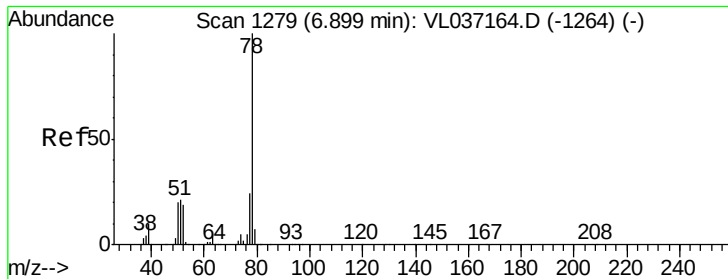
Ion Ratio Lower Upper

117 100

119 80.0 76.6 114.8

121 30.9 26.4 39.6





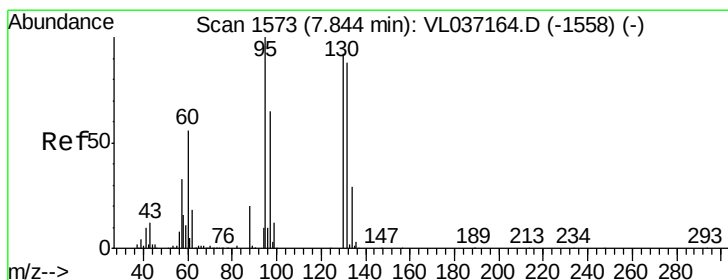
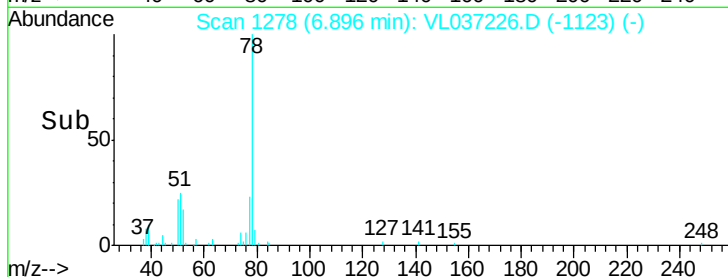
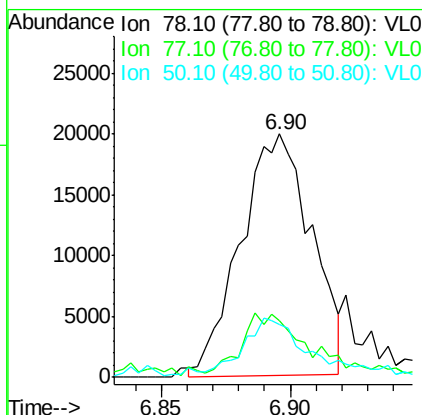
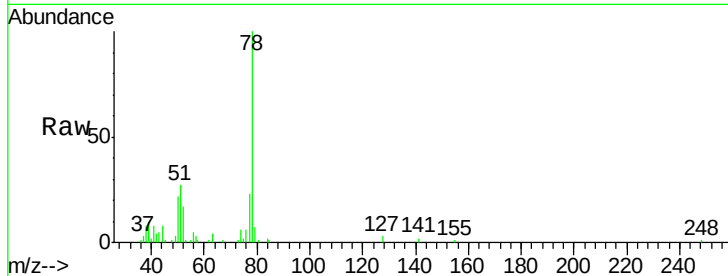
#36
Benzene
Concen: 0.137 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. -0.00 min
Lab File: VL037226.D
Acq: 22 Jun 2021 21:12

Instrument :
MSVOA_L
ClientSampled :
SV-01

Tot Ion	Ratio	Lower	Upper
78	100		
77	19.7	19.0	28.6
50	17.2	15.7	23.5

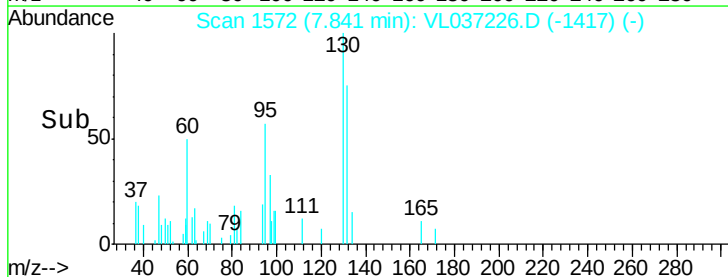
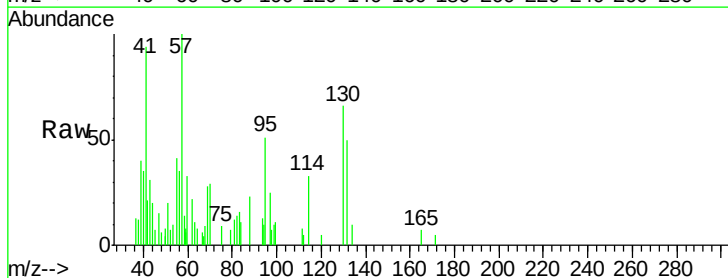
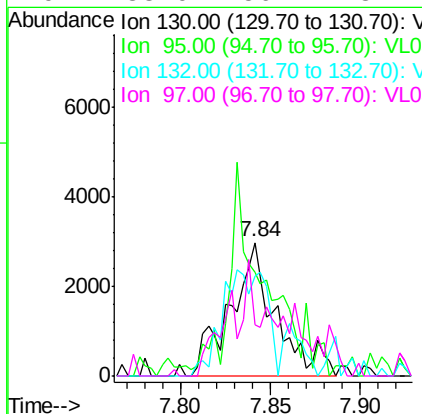
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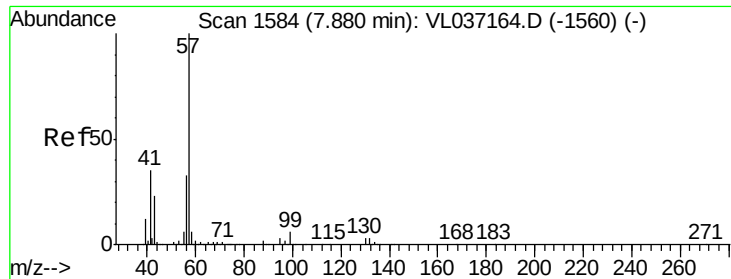
MMDadoda
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#38
Trichloroethene
Concen: 0.040 ppbv m
RT: 7.84 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL037226.D
Acq: 22 Jun 2021 21:12

Tgt Ion	Ratio	Lower	Upper
130	100		
95	77.3	86.6	129.8#
132	74.8	76.6	114.8#
97	38.0	56.1	84.1#





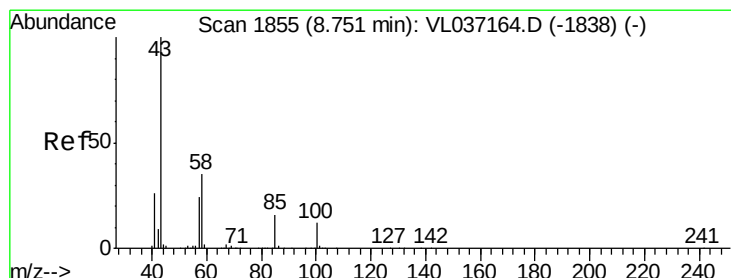
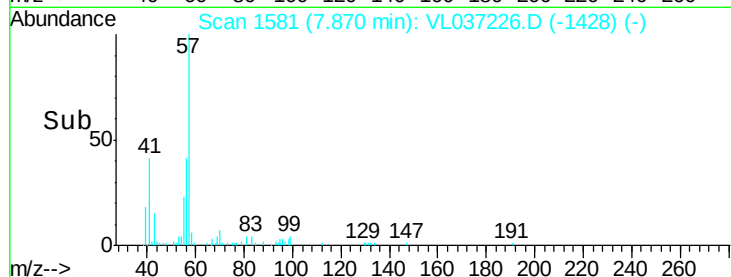
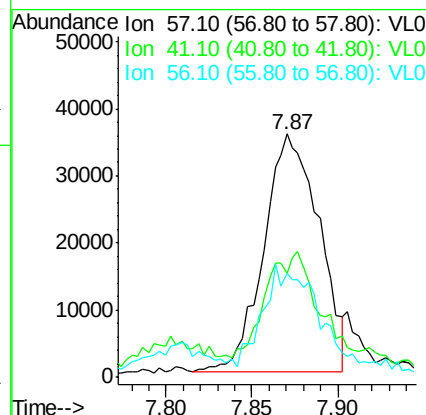
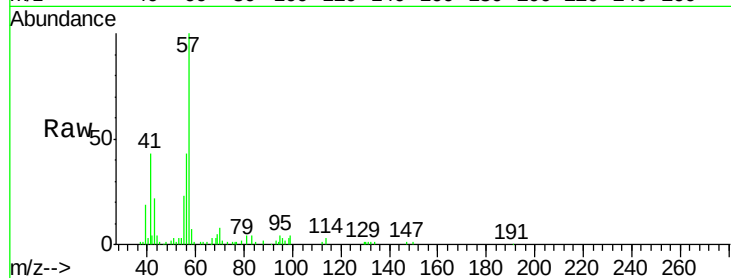
#44
 2,2,4-Trimethylpentane
 Concen: 0.168 ppbv
 RT: 7.87 min Scan# 1581
 Delta R.T. -0.01 min
 Lab File: VL037226.D
 Acq: 22 Jun 2021 21:12

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-01

Tot Ion	Ratio	Lower	Upper
57	100		
41	62.3	27.6	41.4#
56	53.9	25.3	37.9#

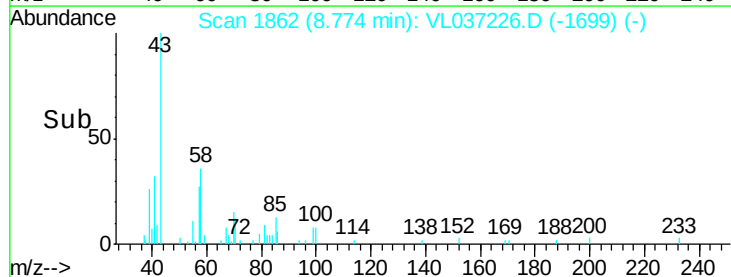
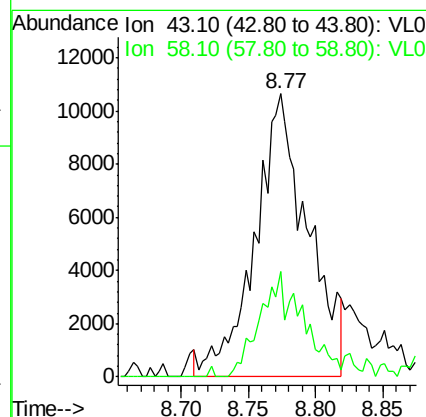
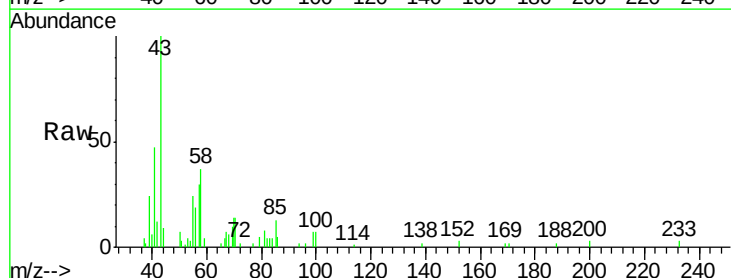
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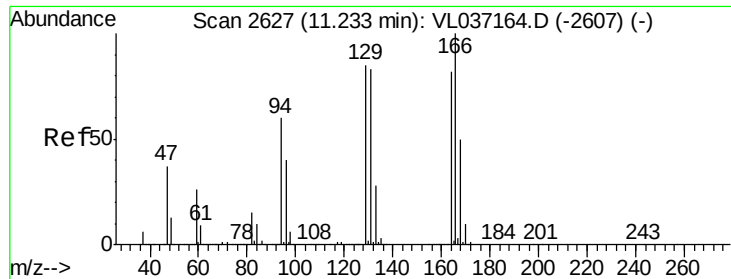
MMDadoda
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#50
 4-Methyl-2-Pentanone
 Concen: 0.156 ppbv m
 RT: 8.77 min Scan# 1862
 Delta R.T. 0.02 min
 Lab File: VL037226.D
 Acq: 22 Jun 2021 21:12

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.4	42.6#





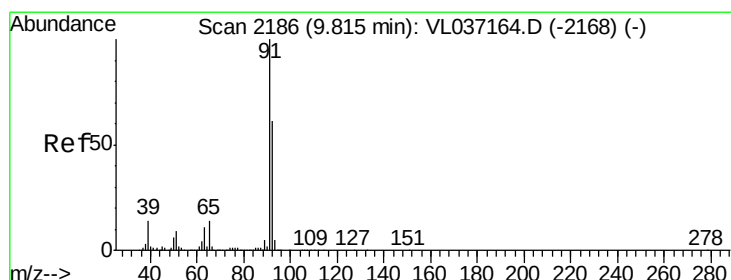
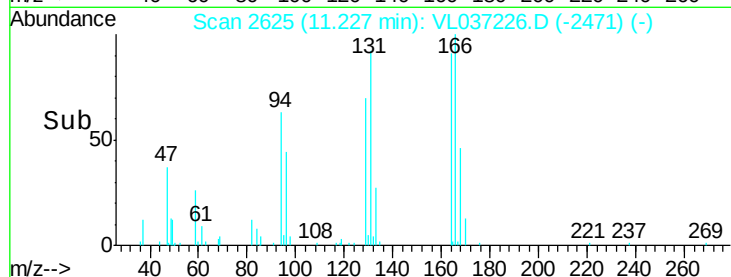
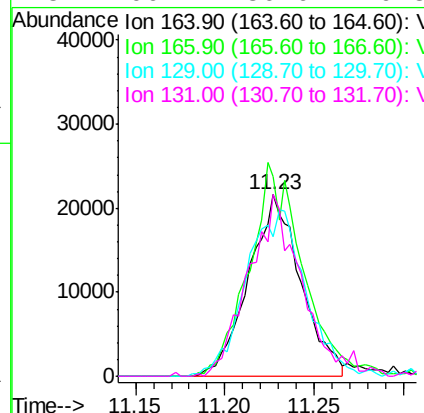
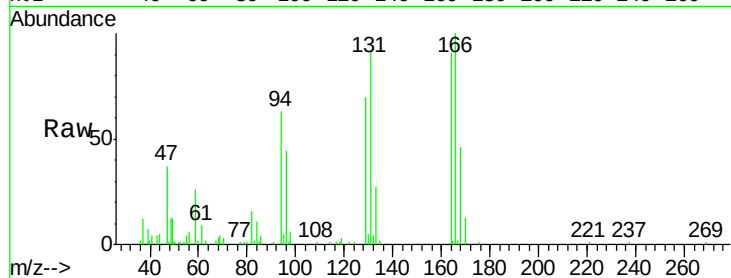
#52
Tetrachloroethene
Concen: 0.337 ppbv
RT: 11.23 min Scan# 2625
Delta R.T. -0.01 min
Lab File: VL037226.D
Acq: 22 Jun 2021 21:12

Instrument :
MSVOA_L
ClientSampleId :
SV-01

Tot Ion	Ratio	Lower	Upper
164	100		
166	109.7	97.6	146.4
129	75.0	82.9	124.3
131	100.4	80.6	120.8

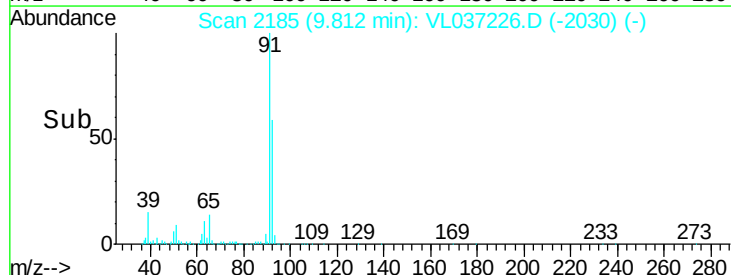
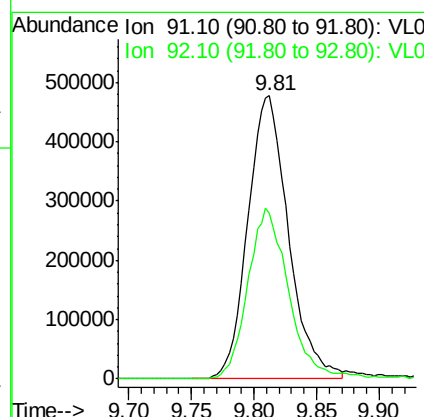
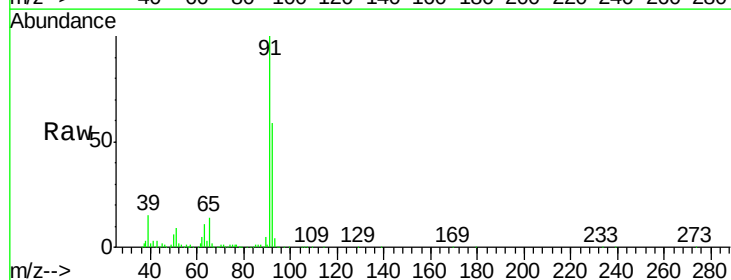
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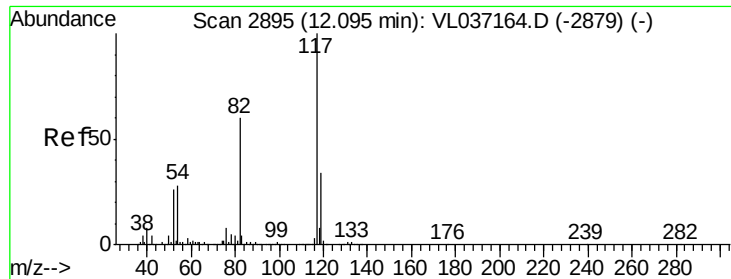
MMDadoda
6/24/2021 4:33:10 PM



#53
Toluene
Concen: 3.228 ppbv
RT: 9.81 min Scan# 2185
Delta R.T. -0.00 min
Lab File: VL037226.D
Acq: 22 Jun 2021 21:12

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.1	48.3	72.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL037226.D

Acq: 22 Jun 2021 21:12

Instrument :

MSVOA_L

ClientSampleId :

SV-01

Tot Ion:117 Resp: 3179895

Ion Ratio Lower Upper

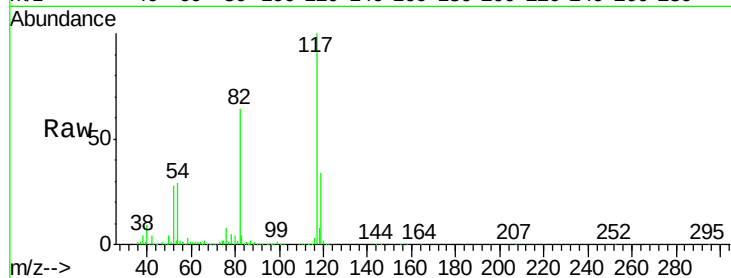
117 100

82 65.1 51.7 77.5

119 34.3 47.6 71.4#

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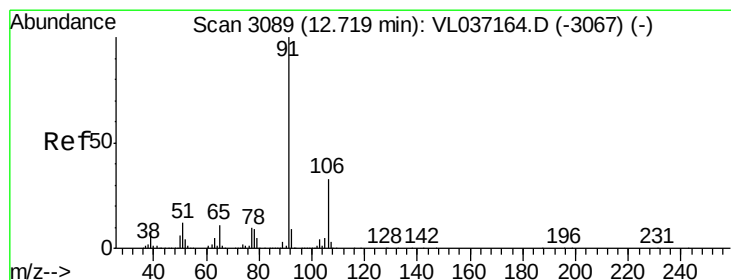
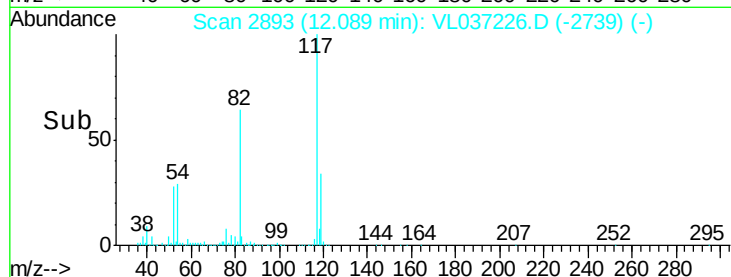
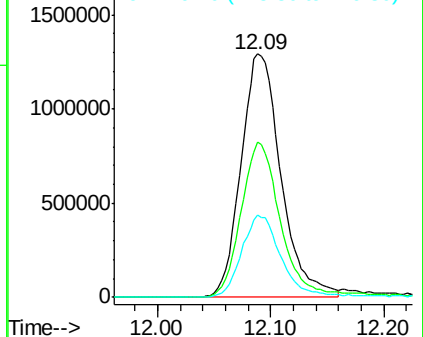
MMDadoda
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.210 ppbv m

RT: 12.71 min Scan# 3087

Delta R.T. -0.01 min

Lab File: VL037226.D

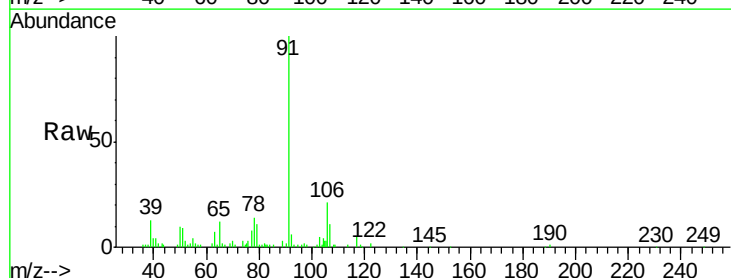
Acq: 22 Jun 2021 21:12

Tgt Ion: 91 Resp: 91819

Ion Ratio Lower Upper

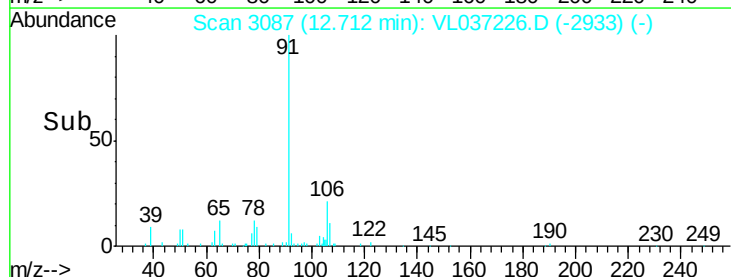
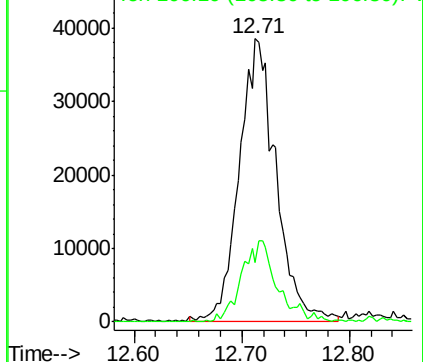
91 100

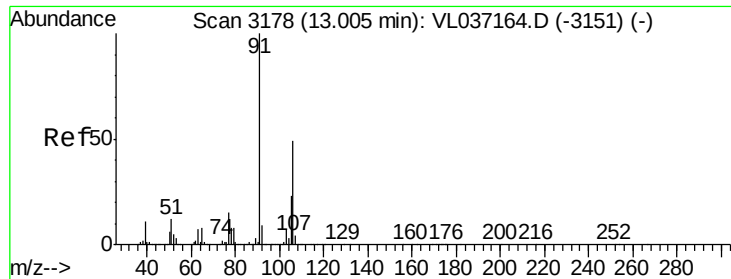
106 20.8 26.3 39.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





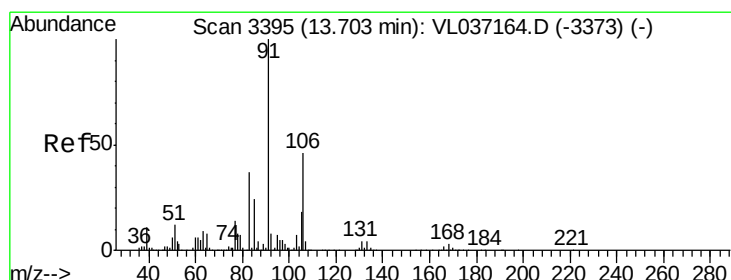
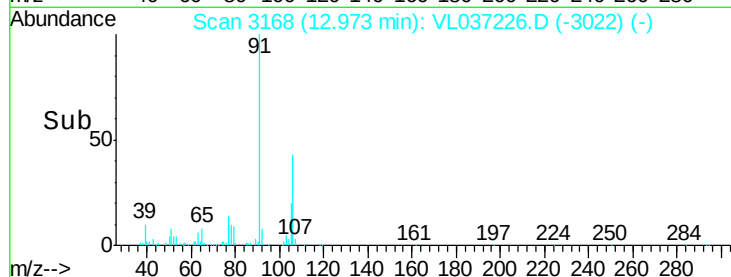
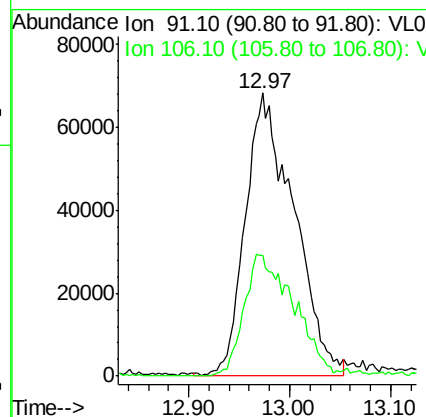
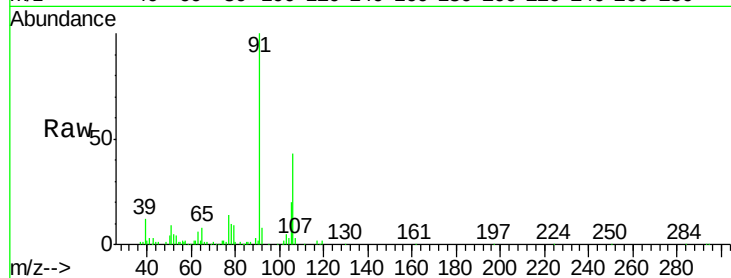
#59
m/p-Xylene
Concen: 0.615 ppbv m
RT: 12.97 min Scan# 3168
Delta R.T. -0.03 min
Lab File: VL037226.D
Acq: 22 Jun 2021 21:12

Instrument :
MSVOA_L
ClientSampled :
SV-01

Tot Ion: 91 Resp: 228063
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.4#

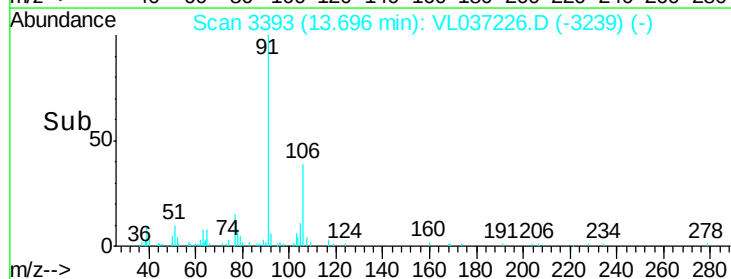
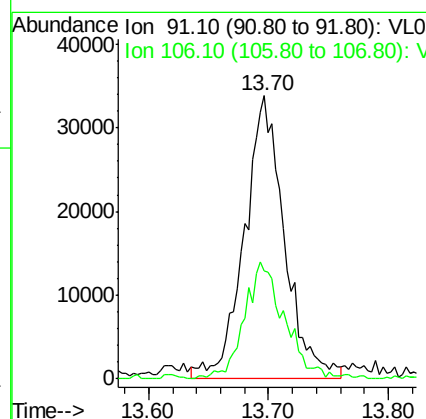
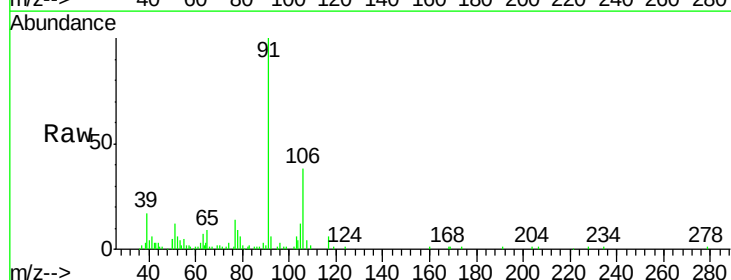
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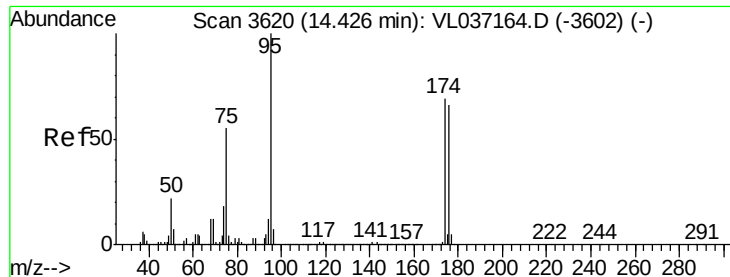
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#60
o-Xylene
Concen: 0.223 ppbv m
RT: 13.70 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL037226.D
Acq: 22 Jun 2021 21:12

Tgt Ion: 91 Resp: 78838
Ion Ratio Lower Upper
91 100
106 41.7 23.0 69.0





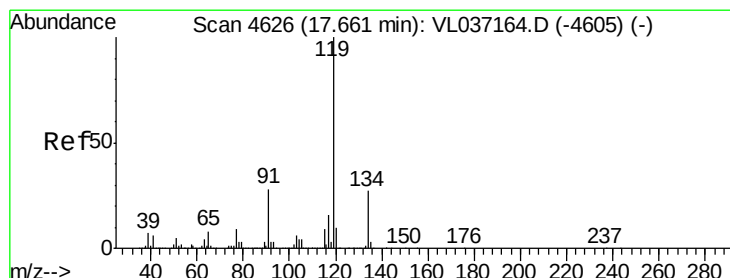
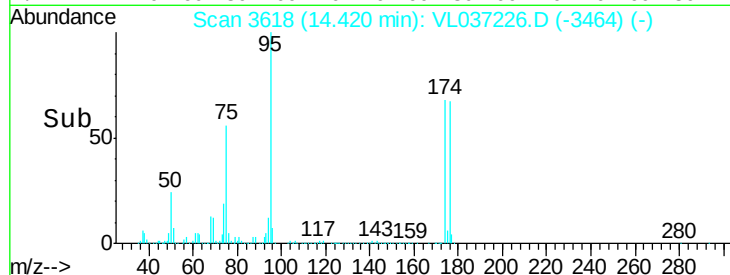
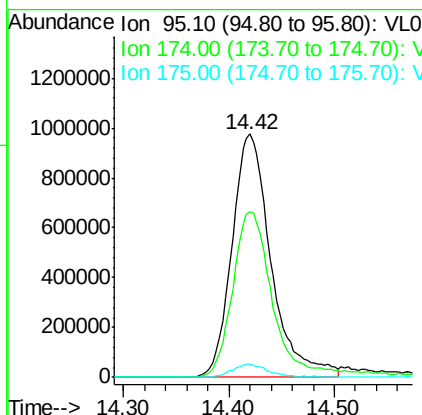
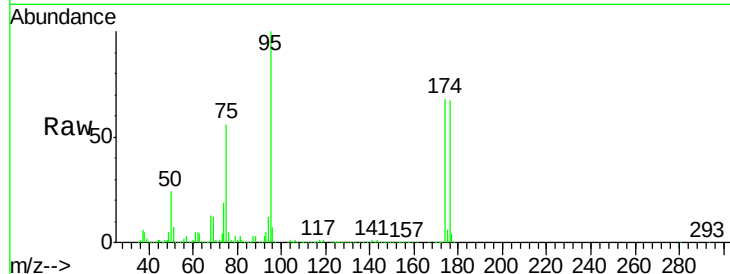
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.398 ppbv
 RT: 14.42 min Scan# 3618
 Delta R.T. -0.01 min
 Lab File: VL037226.D
 Acq: 22 Jun 2021 21:12

Instrument :
 MSVOA_L
 ClientSampled :
 SV-01

Tot Ion: 95 Resp: 2505398
 Ion Ratio Lower Upper
 95 100
 174 72.9 57.0 85.4
 175 5.4 4.4 6.6

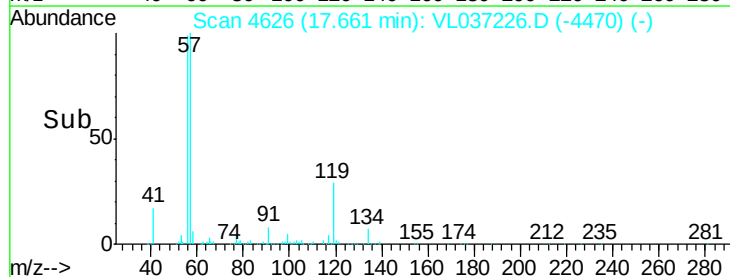
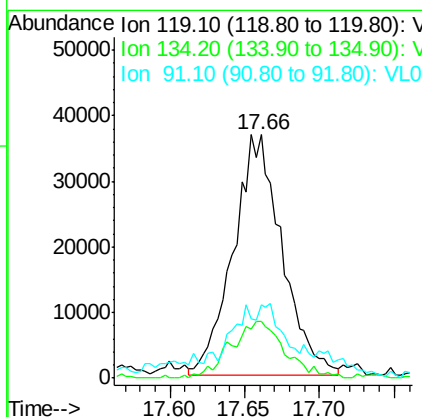
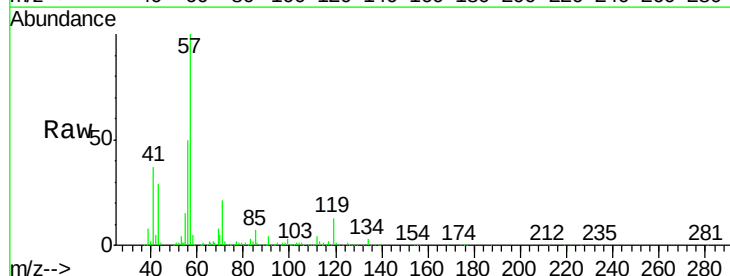
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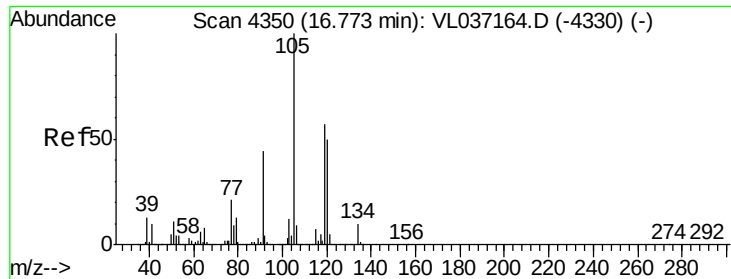
MMDadoda
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#69
 p-Isopropyltoluene
 Concen: 0.166 ppbv
 RT: 17.66 min Scan# 4626
 Delta R.T. 0.00 min
 Lab File: VL037226.D
 Acq: 22 Jun 2021 21:12

Tgt Ion: 119 Resp: 83179
 Ion Ratio Lower Upper
 119 100
 134 26.6 20.9 31.3
 91 46.3 22.6 34.0#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.231 ppbv
 RT: 16.77 min Scan# 4348
 Delta R.T. -0.01 min
 Lab File: VL037226.D
 Acq: 22 Jun 2021 21:12

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-01

Tot Ion	Ratio	Resp: Lower	Upper
105	100		
120	42.2	39.8	59.8
91	8.3	37.0	55.4#
77	6.6	17.0	25.4#

Manual Integrations
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