

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060221\
 Data File : VL037106.D
 Acq On : 2 Jun 2021 17:53
 Operator : SY/AP
 Sample : M2548-10
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-18A

Manual Integrations
 APPROVED

MMDadoda
 6/7/2021 3:00:41 PM

Quant Time: Jun 06 20:09:42 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1324277	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3929732	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3584787	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2712178	10.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	58026	0.258	ppbv	91
3) Chlorodifluoromethane	2.96	51	111351m	0.459	ppbv	
4) Chloromethane	3.13	50	50300	0.609	ppbv	91
9) Propene	3.01	41	88760m	1.022	ppbv	
10) Heptane	8.11	43	30850m	0.142	ppbv	
11) Trichlorofluoromethane	3.94	101	47494	0.228	ppbv	97
13) Ethanol	3.61	45	12595188	1086.618	ppbv	97
15) Acetone	3.84	43	1335115m	9.843	ppbv	
17) tert-Butyl alcohol	4.31	59	56609m	0.456	ppbv	
19) Isopropyl Alcohol	3.97	45	15154433	207.840	ppbv #	33
20) Methylene Chloride	4.33	84	695038	9.559	ppbv	96
26) Hexane	5.67	57	1016027	6.102	ppbv #	47
29) Chloroform	5.74	83	126966	0.540	ppbv	92
30) Cyclohexane	7.11	84	20224m	0.143	ppbv	
34) 2-Butanone	5.23	43	119356	0.834	ppbv	92
35) Carbon Tetrachloride	7.00	117	15418	0.059	ppbv #	84
36) Benzene	6.87	78	77284	0.228	ppbv	98
38) Trichloroethene	7.82	130	40121	0.277	ppbv	89
50) 4-Methyl-2-Pentanone	8.74	43	76917	0.326	ppbv	100
52) Tetrachloroethene	11.21	164	5088m	0.038	ppbv	
53) Toluene	9.79	91	1419498	3.524	ppbv	97
59) m/p-Xylene	12.95	91	97985m	0.234	ppbv	
61) Styrene	13.51	104	53118m	0.236	ppbv	

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

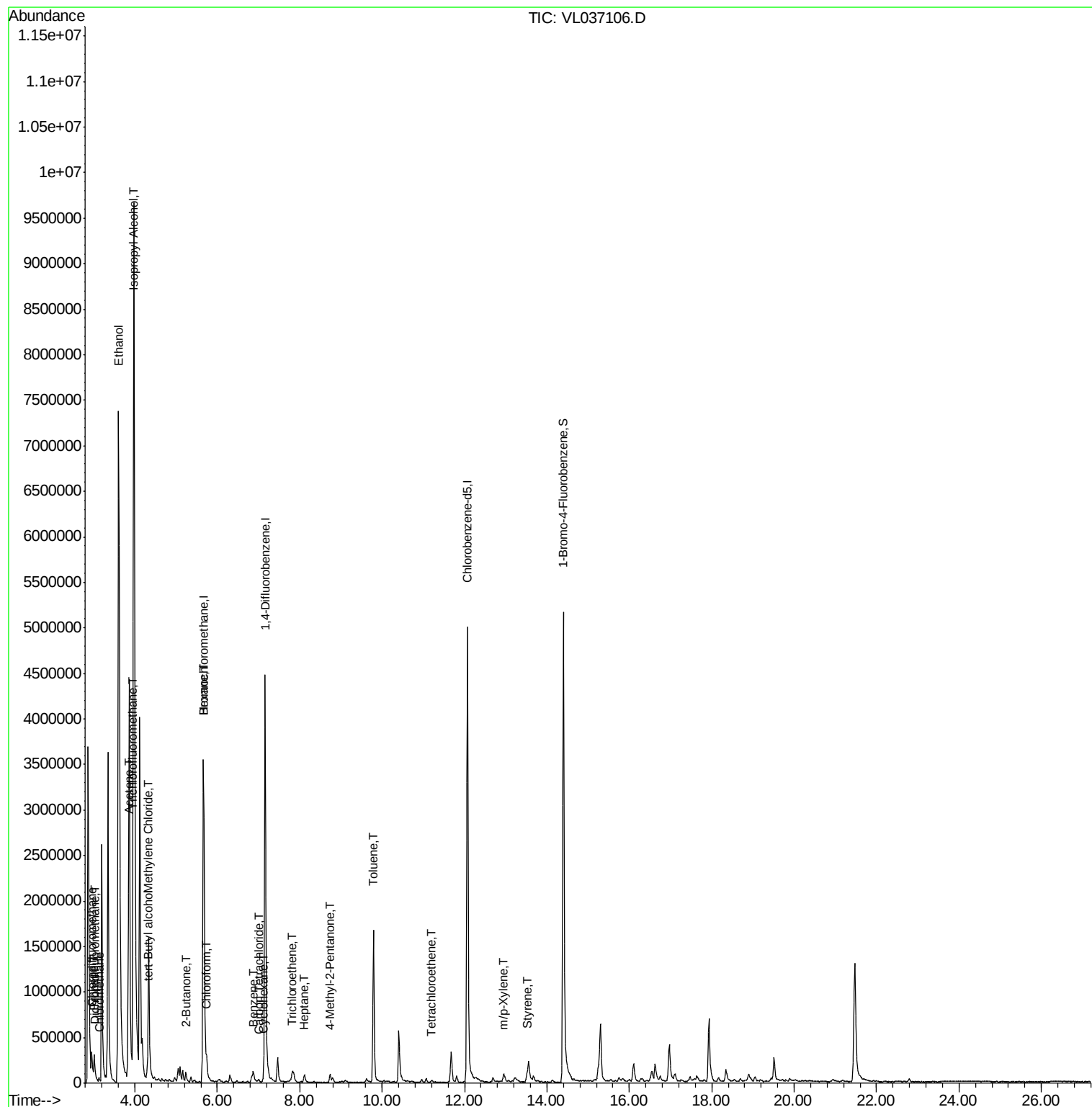
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060221\
Data File : VL037106.D
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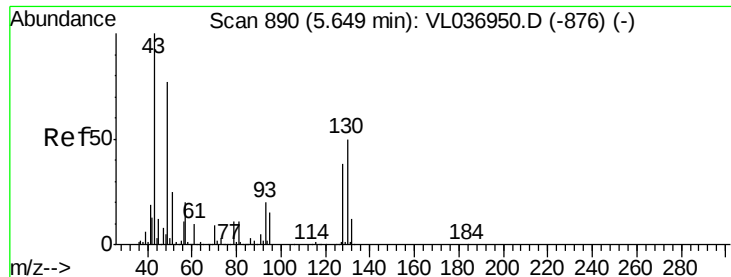
Instrument :
MSVOA_L
ClientSampleId :
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Quant Time: Jun 06 20:09:42 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

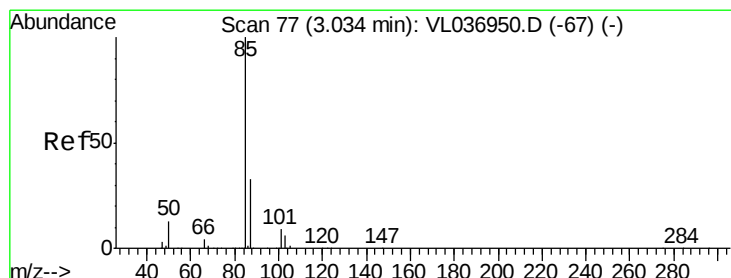
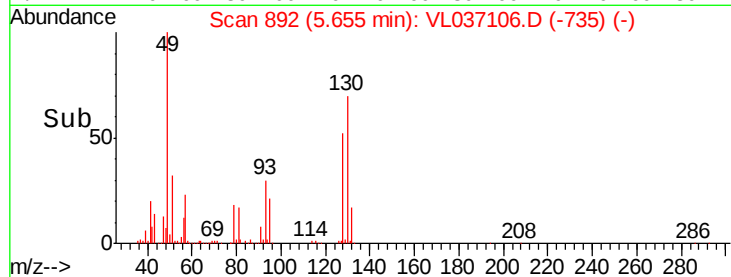
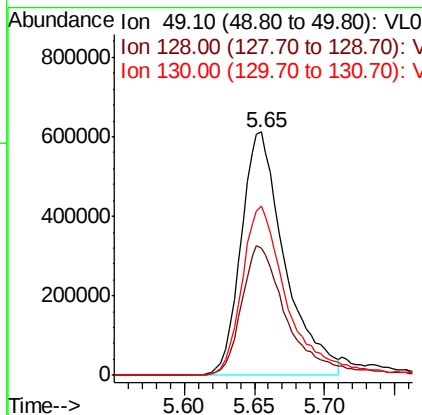
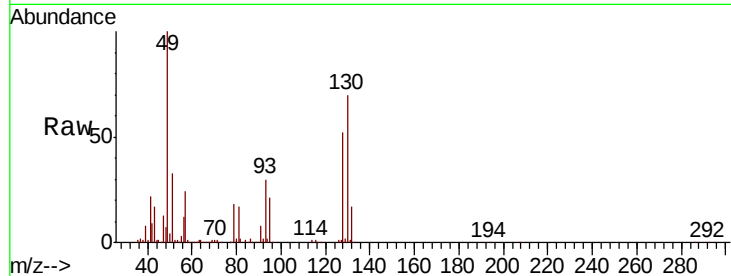
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 892
 Delta R.T. 0.01 min
 Lab File: VL037106.D
 Acq: 2 Jun 2021 17:53

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-18A

Tot Ion: 49 Resp: 1324277
 Ion Ratio Lower Upper
 49 100
 128 57.2 26.9 80.7
 130 74.4 33.8 101.4

Manual Integrations
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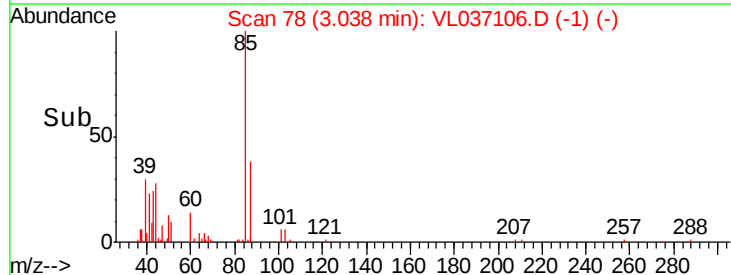
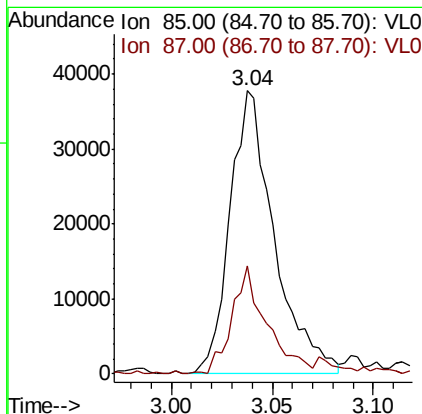
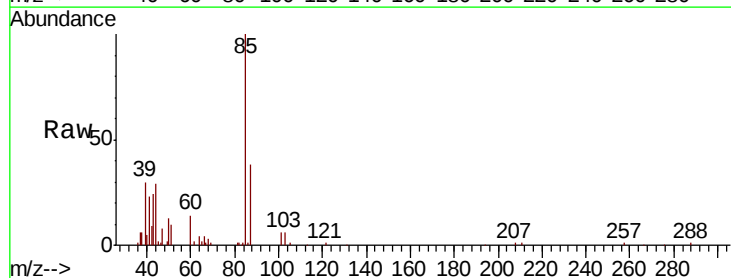
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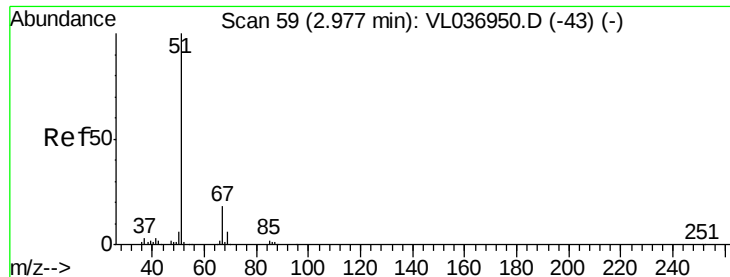


#2

Dichlorodifluoromethane
 Concen: 0.258 ppbv
 RT: 3.04 min Scan# 78
 Delta R.T. 0.00 min
 Lab File: VL037106.D
 Acq: 2 Jun 2021 17:53

Tgt Ion: 85 Resp: 58026
 Ion Ratio Lower Upper
 85 100
 87 38.4 26.6 39.8





#3

Chlorodifluoromethane

Concen: 0.459 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.01 min

Lab File: VL037106.D

Acq: 2 Jun 2021 17:53

Instrument :

MSVOA_L

ClientSampled :

IA-18A

Tot Ion: 51 Resp: 111351

Ion Ratio Lower Upper

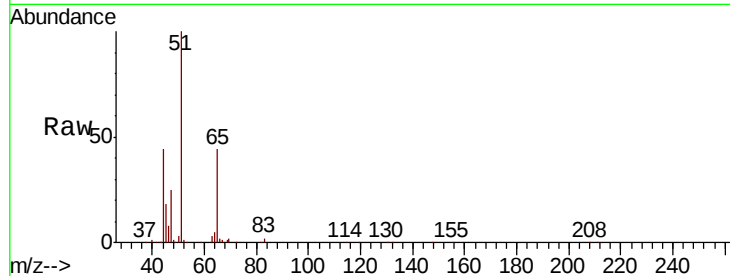
51 100

67 11.0 14.6 21.8#

Manual Integrations
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

150000

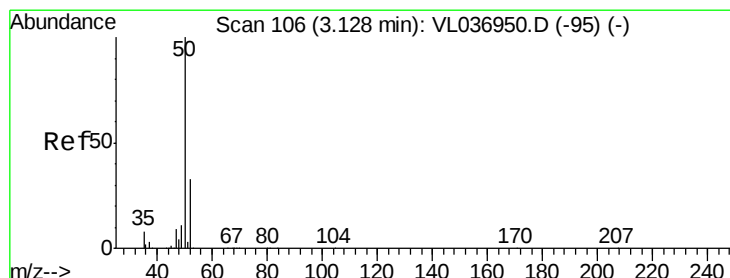
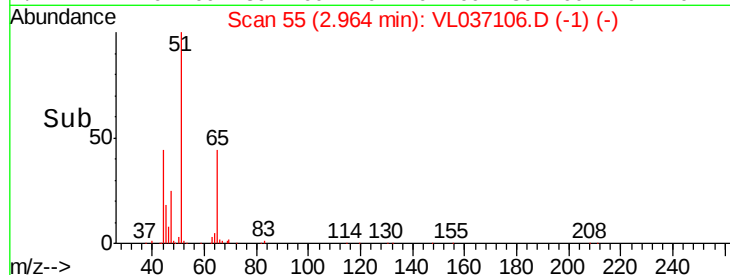
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50000

0

2.94 2.96 2.98 3.00 3.02

Time-->



#4

Chloromethane

Concen: 0.609 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL037106.D

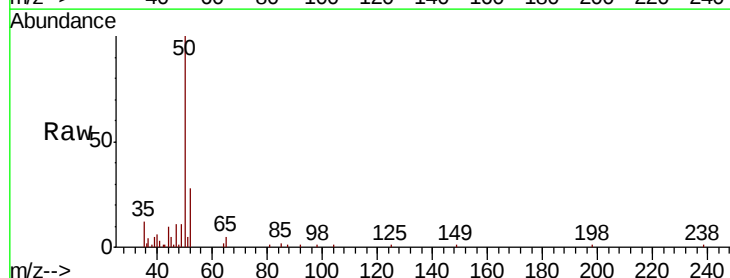
Acq: 2 Jun 2021 17:53

Tgt Ion: 50 Resp: 50300

Ion Ratio Lower Upper

50 100

52 27.7 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

30000

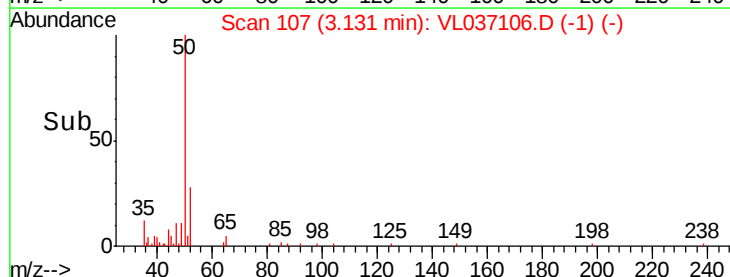
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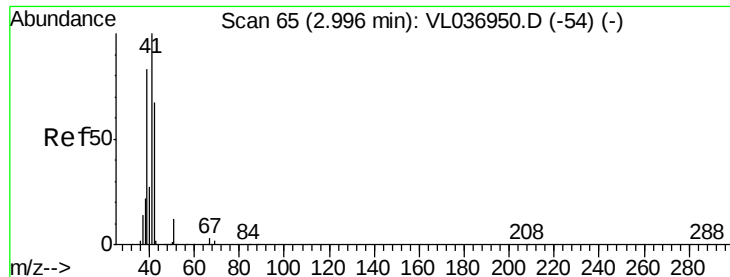
10000

0

3.10 3.15

Time-->





#9

Propene

Concen: 1.022 ppbv m

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL037106.D

Acq: 2 Jun 2021 17:53

Instrument :

MSVOA_L

ClientSampled :

IA-18A

Tot Ion: 41 Resp: 88760

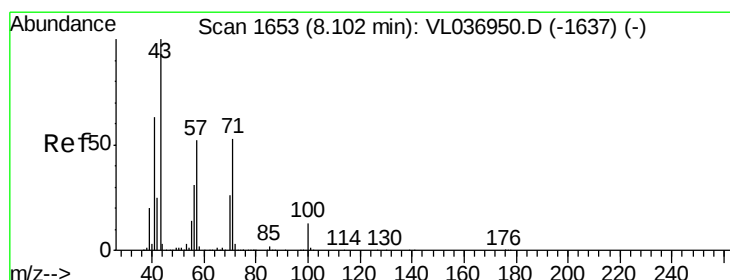
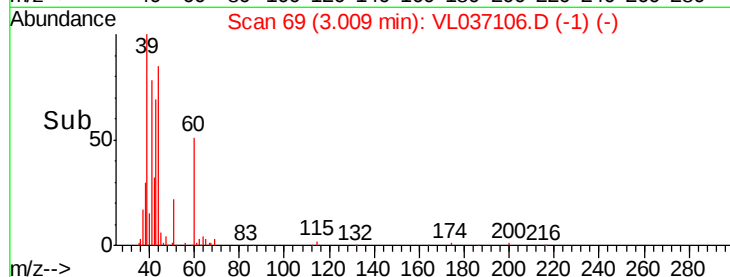
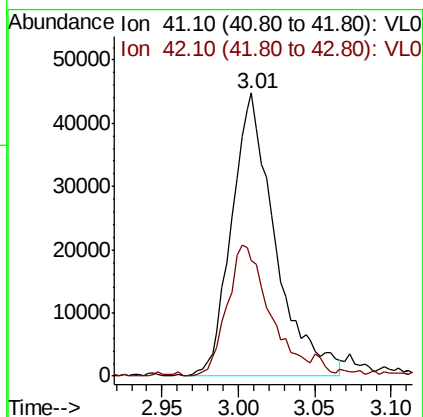
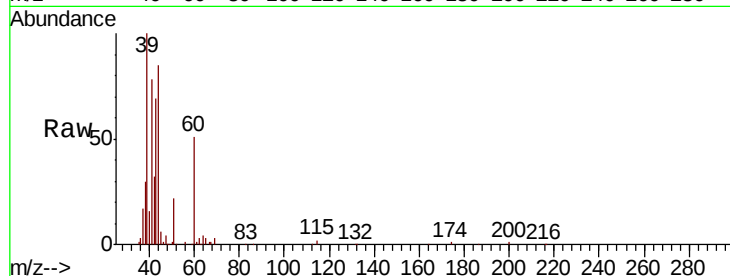
Ion Ratio Lower Upper

41 100

42 688.1 53.9 80.9#

Manual Integrations
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#10

Heptane

Concen: 0.142 ppbv m

RT: 8.11 min Scan# 1655

Delta R.T. 0.01 min

Lab File: VL037106.D

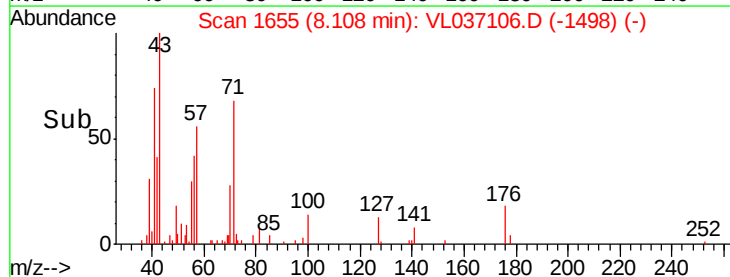
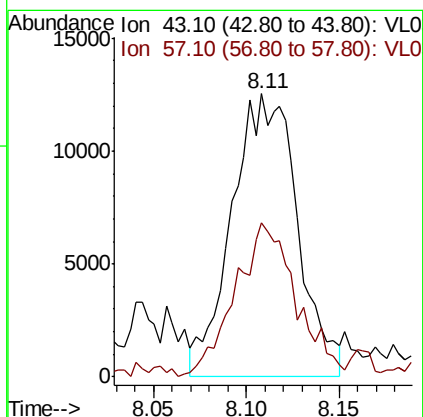
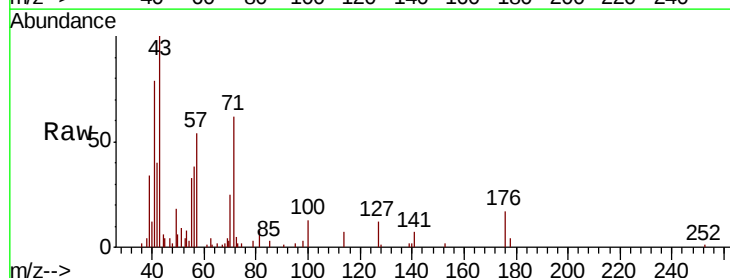
Acq: 2 Jun 2021 17:53

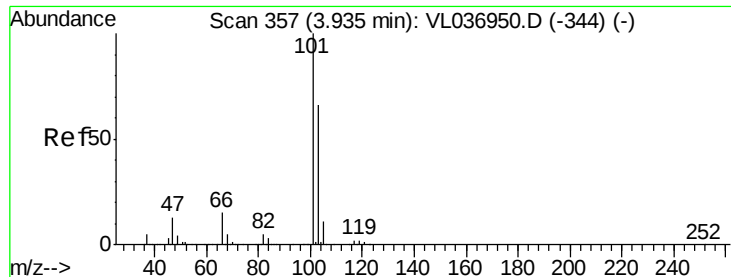
Tgt Ion: 43 Resp: 30850

Ion Ratio Lower Upper

43 100

57 54.3 41.0 61.6





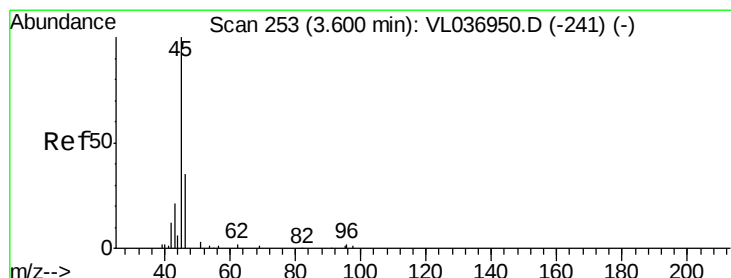
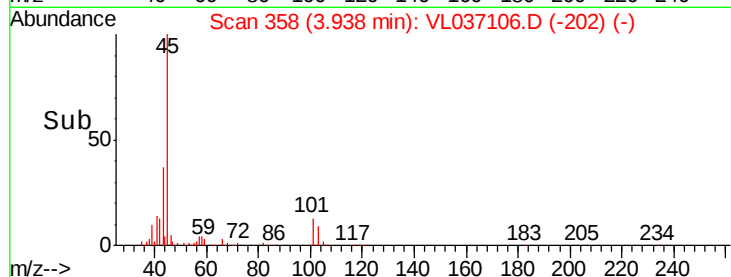
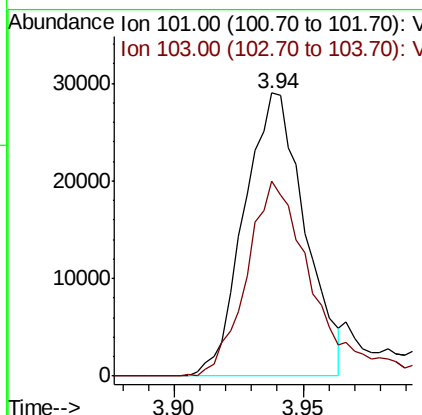
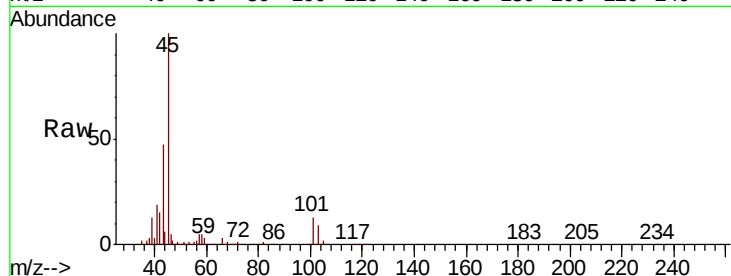
#11
Trichlorofluoromethane
Concen: 0.228 ppbv
RT: 3.94 min Scan# 358
Delta R.T. 0.00 min
Lab File: VL037106.D
Acq: 2 Jun 2021 17:53

Instrument :
MSVOA_L
ClientSampleId :
IA-18A

Tot Ion:101 Resp: 47494
Ion Ratio Lower Upper
101 100
103 68.0 52.6 79.0

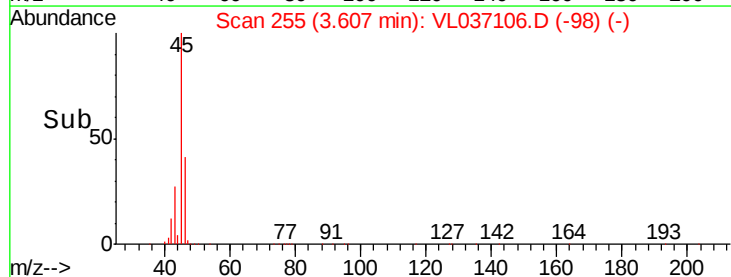
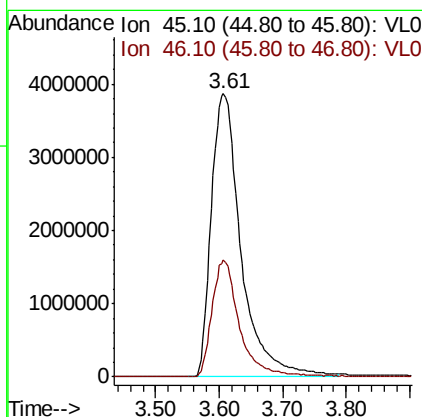
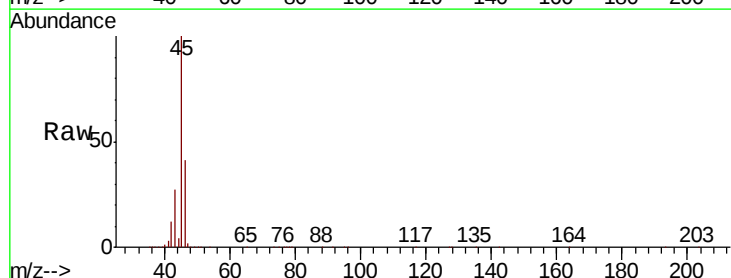
Manual Integrations
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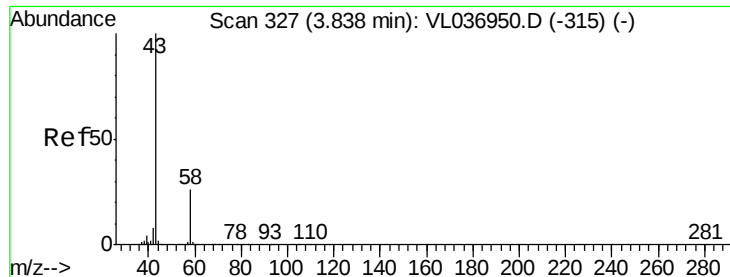
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#13
Ethanol
Concen: 1086.618 ppbv
RT: 3.61 min Scan# 255
Delta R.T. 0.01 min
Lab File: VL037106.D
Acq: 2 Jun 2021 17:53

Tgt Ion: 45 Resp:12595188
Ion Ratio Lower Upper
45 100
46 38.8 16.3 65.3





#15

Acetone

Concen: 9.843 ppbv m

RT: 3.84 min Scan# 327

Delta R.T. -0.00 min

Lab File: VL037106.D

Acq: 2 Jun 2021 17:53

Instrument :

MSVOA_L

ClientSampled :

IA-18A

Tot Ion: 43 Resp: 1335115

Ion Ratio Lower Upper

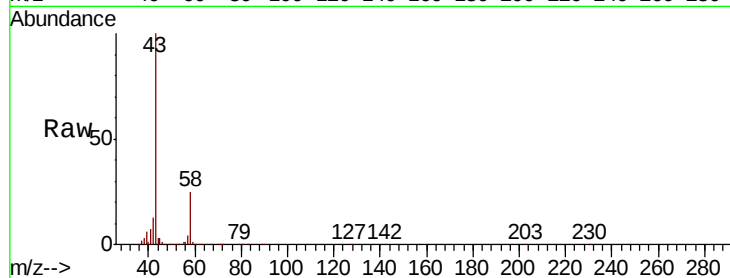
43 100

58 42.8 24.0 36.0#

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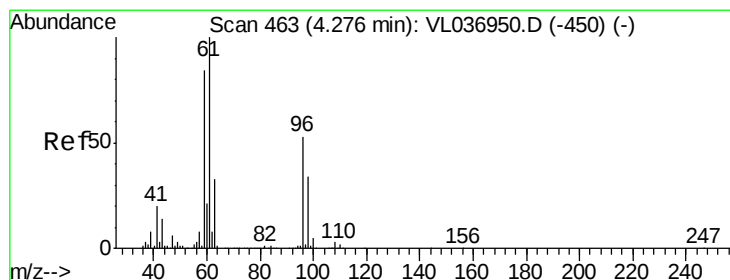
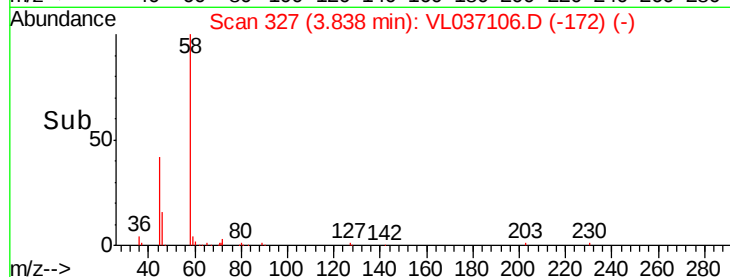
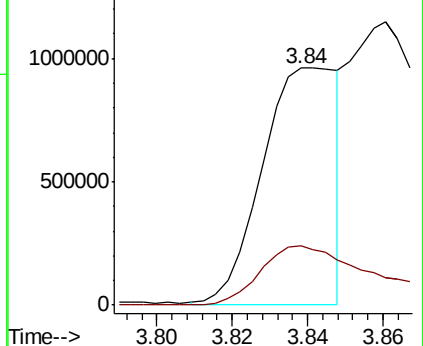
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.456 ppbv m

RT: 4.31 min Scan# 473

Delta R.T. 0.03 min

Lab File: VL037106.D

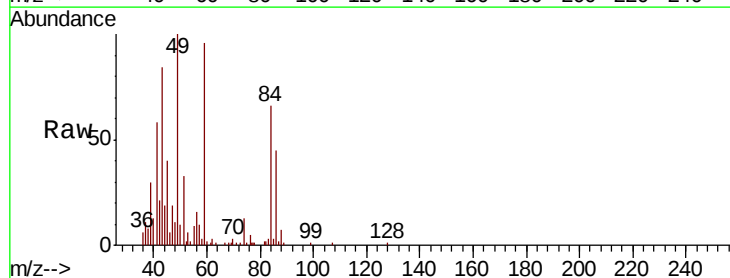
Acq: 2 Jun 2021 17:53

Tgt Ion: 59 Resp: 56609

Ion Ratio Lower Upper

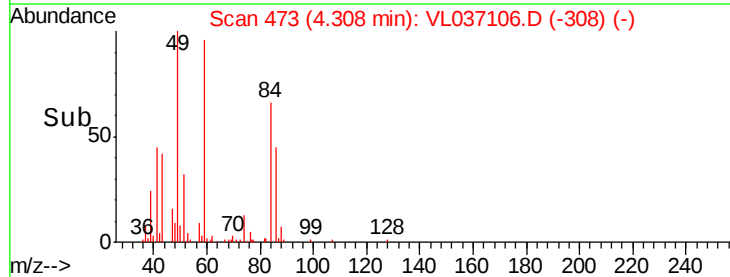
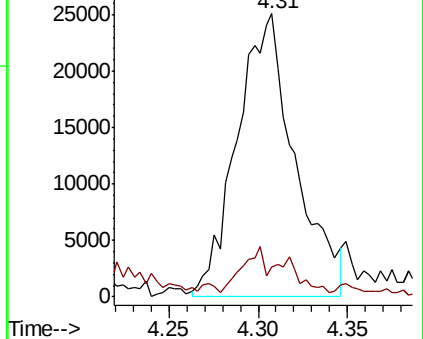
59 100

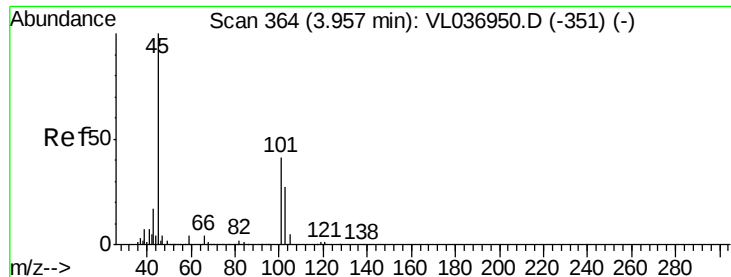
57 136.3 8.3 12.5#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





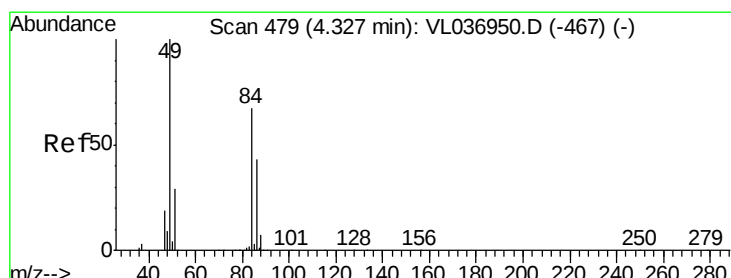
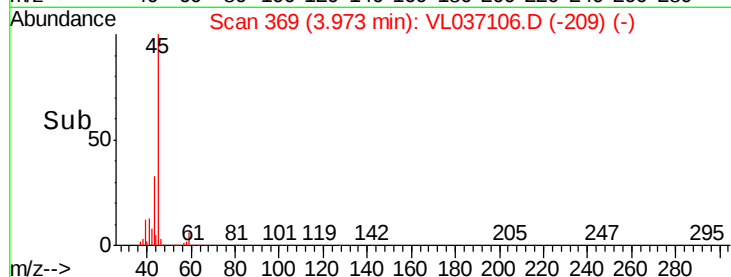
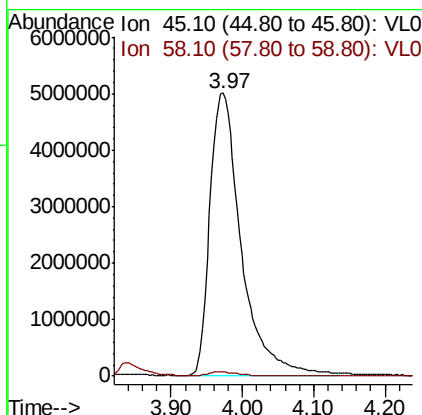
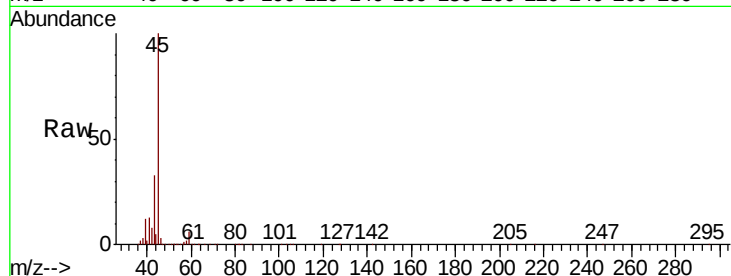
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Isopropyl Alcohol
Concen: 207.840 ppbv
RT: 3.97 min Scan# 369
Delta R.T. 0.02 min
Lab File: VL037106.D
Acq: 2 Jun 2021 17:53

Instrument :
MSVOA_L
ClientSampled :
IA-18A

Tot Ion: 45 Resp:15154433
Ion Ratio Lower Upper
45 100
58 1.7 37.2 55.8#

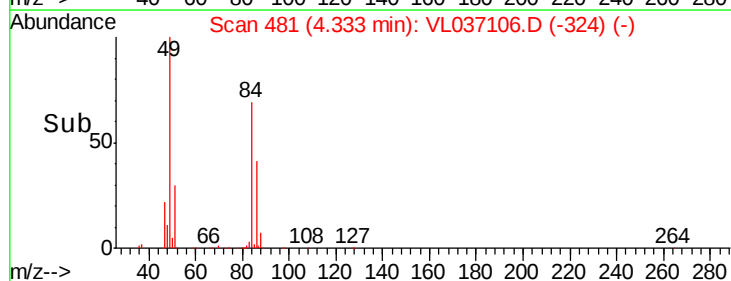
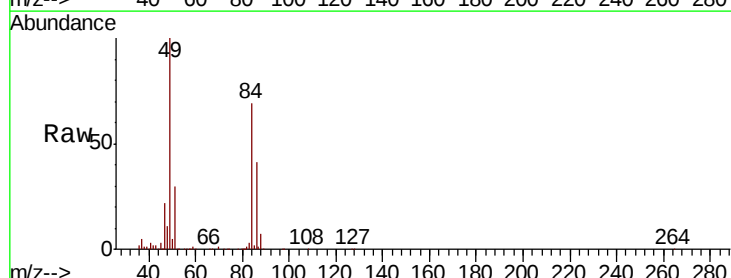
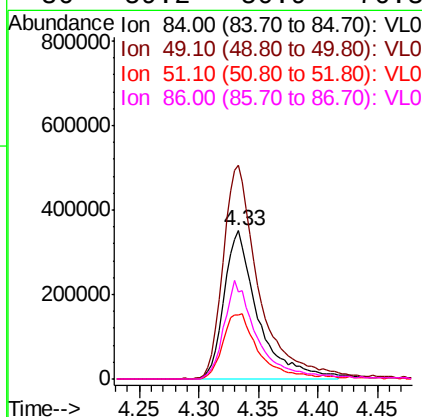
Manual Integrations
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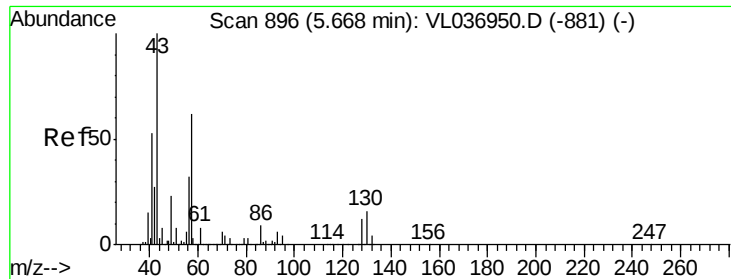
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#20
Methylene Chloride
Concen: 9.559 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.01 min
Lab File: VL037106.D
Acq: 2 Jun 2021 17:53

Tgt Ion: 84 Resp: 695038
Ion Ratio Lower Upper
84 100
49 143.9 119.8 179.6
51 43.2 35.1 52.7
86 59.2 50.9 76.3





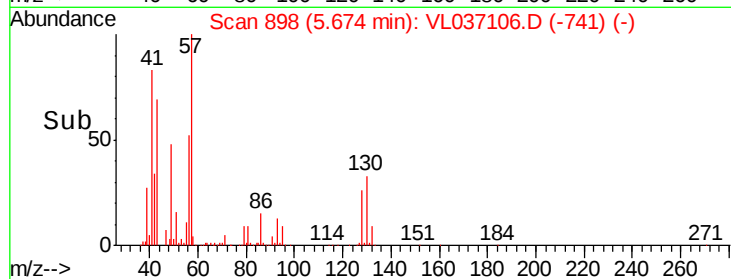
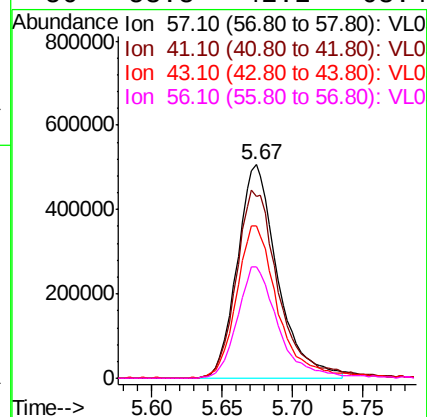
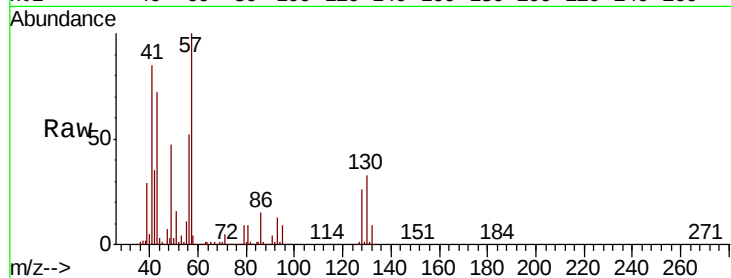
#26
Hexane
Concen: 6.102 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL037106.D
Acq: 2 Jun 2021 17:53

Instrument :
MSVOA_L
ClientSampleId :
IA-18A

Tot Ion	Ratio	Lower	Upper
57	100		
41	93.7	70.5	105.7
43	73.6	165.8	248.8#
56	53.8	42.2	63.4

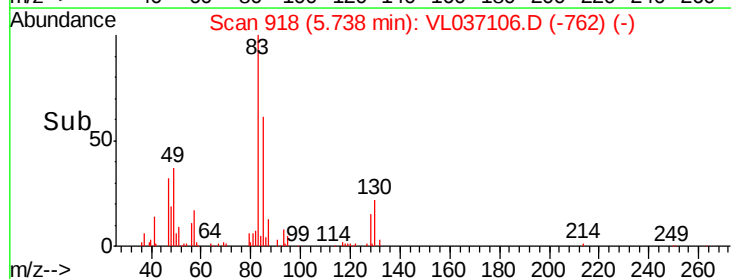
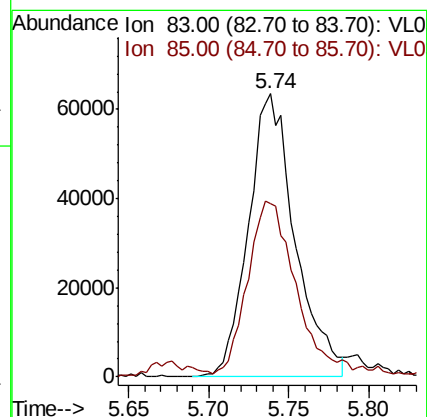
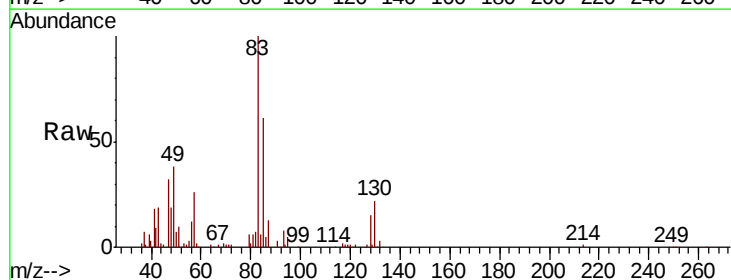
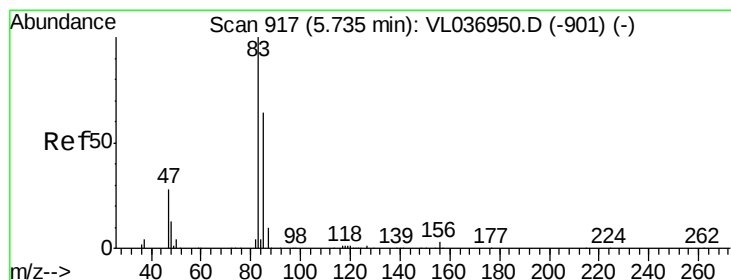
Manual Integrations
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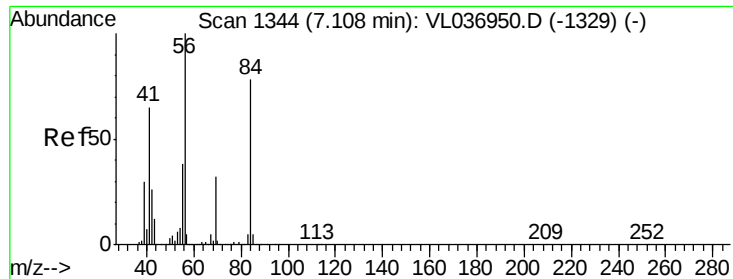
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#29
Chloroform
Concen: 0.540 ppbv
RT: 5.74 min Scan# 918
Delta R.T. 0.00 min
Lab File: VL037106.D
Acq: 2 Jun 2021 17:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	57.9	51.1	76.7





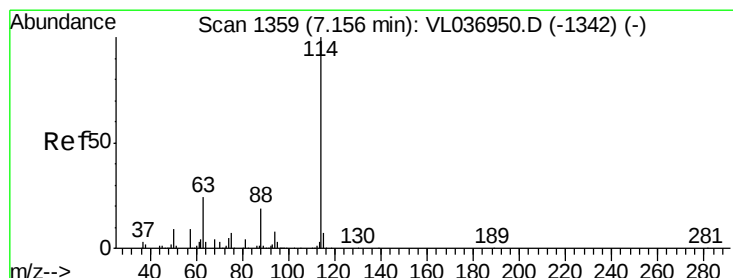
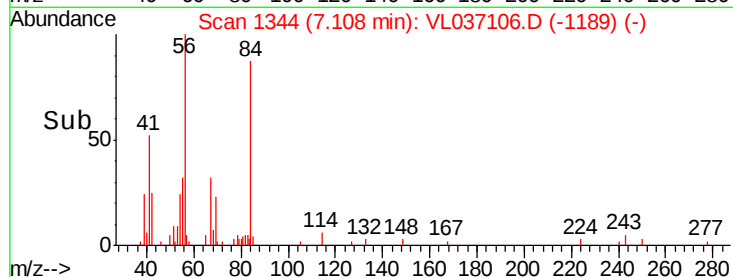
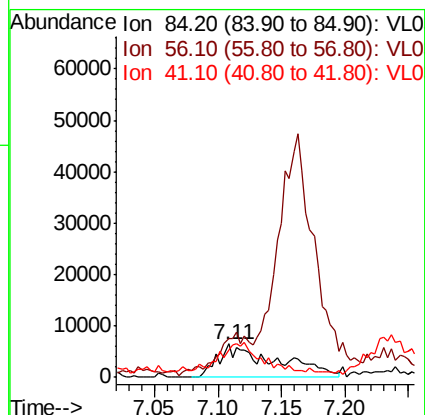
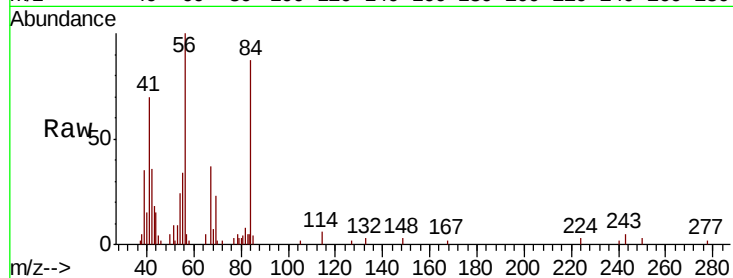
#30
Cvclohexane
Concen: 0.143 ppbv m
RT: 7.11 min Scan# 1344
Delta R.T. -0.00 min
Lab File: VL037106.D
Acq: 2 Jun 2021 17:53

Instrument :
MSVOA_L
ClientSampled :
IA-18A

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	107.9	161.9#
41	69.0	65.5	98.3

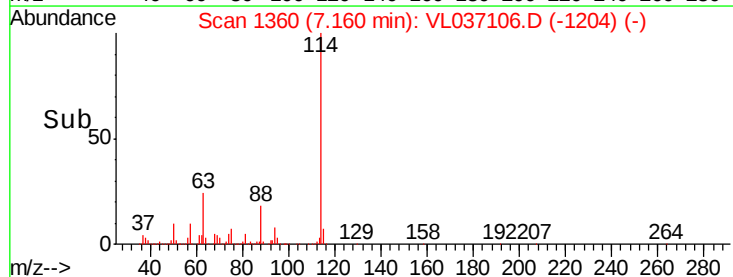
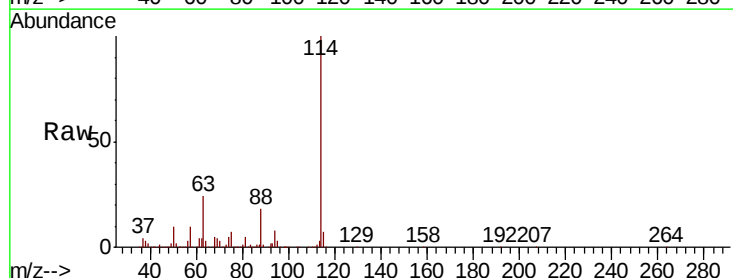
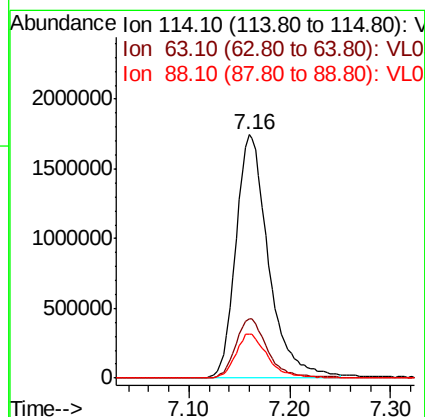
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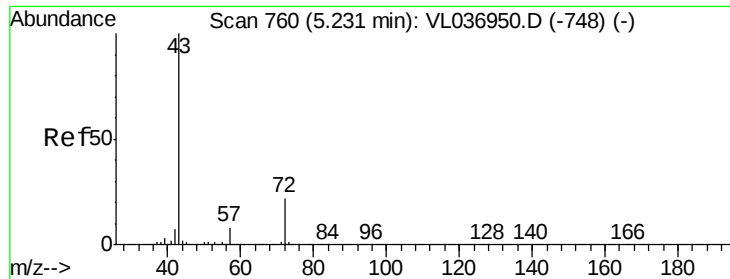
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. 0.00 min
Lab File: VL037106.D
Acq: 2 Jun 2021 17:53

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.1	19.6	29.4
88	17.9	14.6	21.8





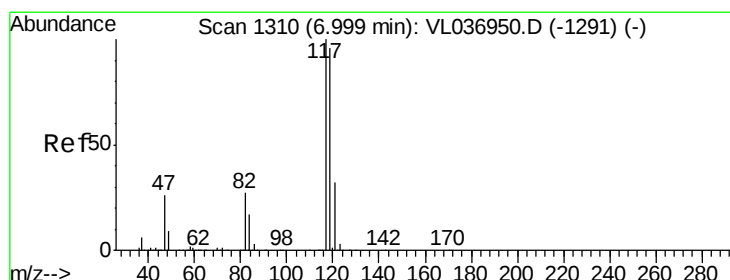
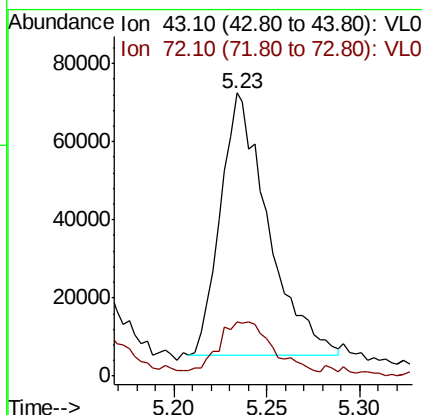
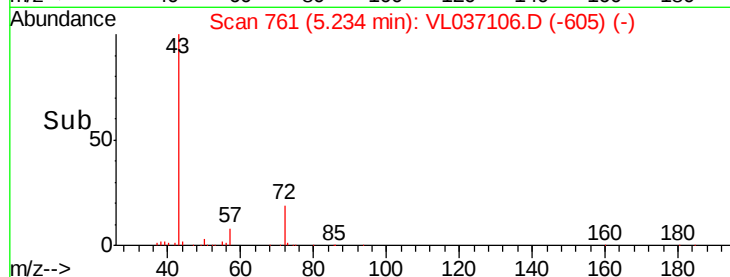
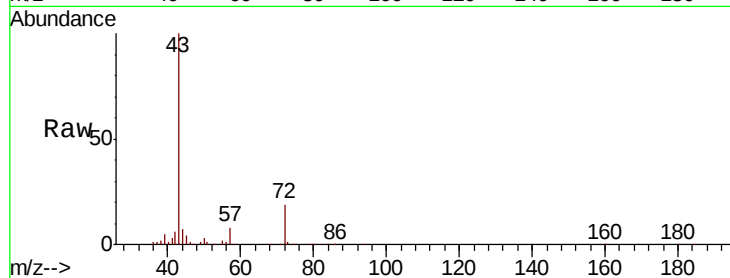
#34
2-Butanone
Concen: 0.834 ppbv
RT: 5.23 min Scan# 761
Delta R.T. 0.00 min
Lab File: VL037106.D
Acq: 2 Jun 2021 17:53

Instrument :
MSVOA_L
ClientSampleId :
IA-18A

Tot Ion	Ratio	Lower	Upper
43	100		
72	27.6	19.0	28.4

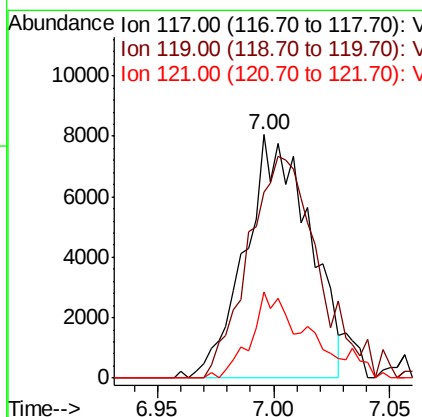
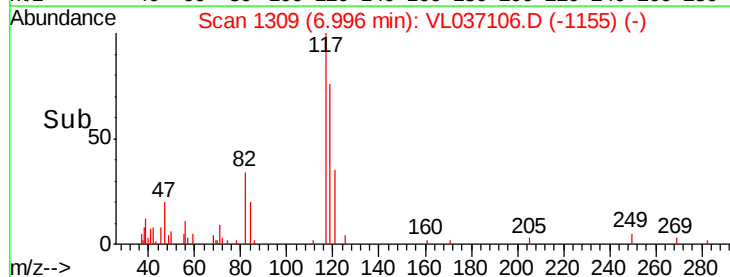
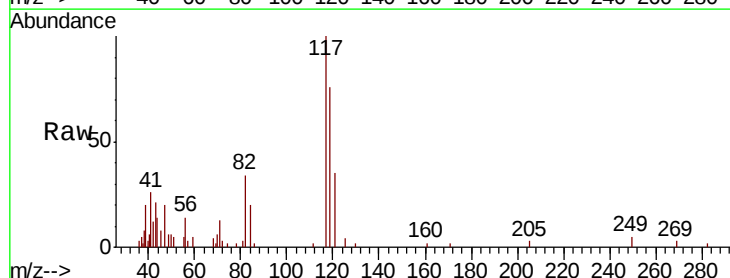
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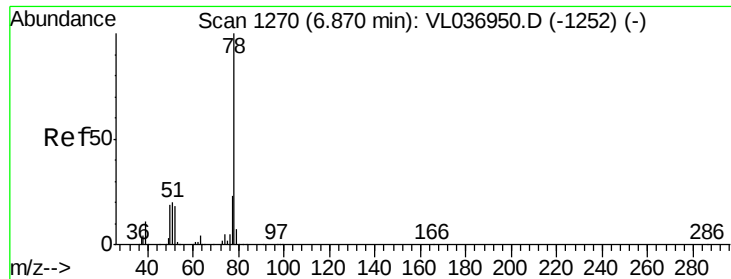
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6/7/2021 3:00:41 PM



#35
Carbon Tetrachloride
Concen: 0.059 ppbv
RT: 7.00 min Scan# 1309
Delta R.T. -0.00 min
Lab File: VL037106.D
Acq: 2 Jun 2021 17:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	76.3	76.6	114.8#
121	35.3	25.8	38.6





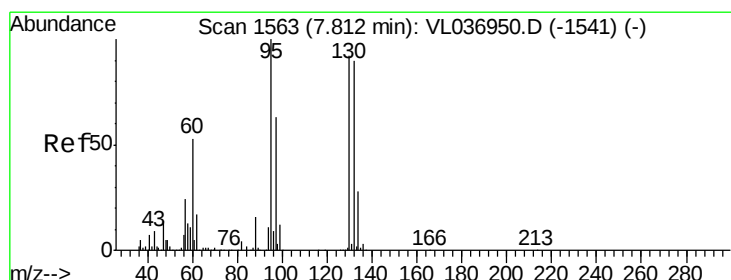
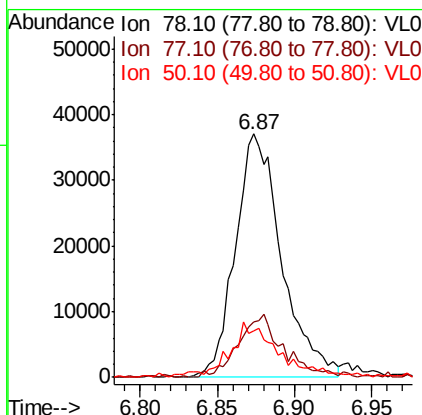
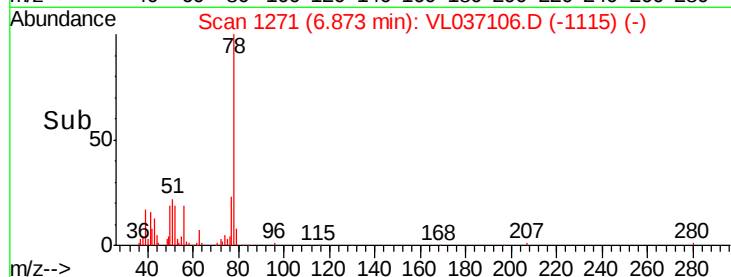
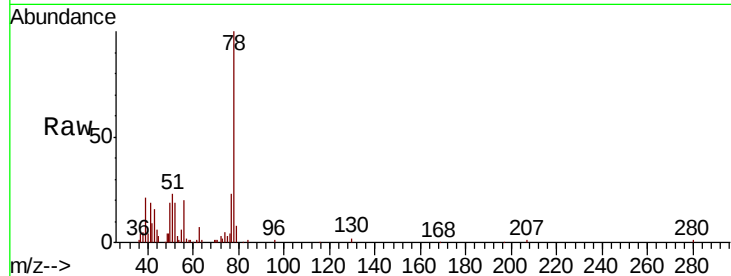
#36
Benzene
Concen: 0.228 ppbv
RT: 6.87 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VL037106.D
Acq: 2 Jun 2021 17:53

Instrument :
MSVOA_L
ClientSampleId :
IA-18A

Tot Ion:	78	Resp:	77284
Ion	Ratio	Lower	Upper
78	100		
77	22.9	18.6	28.0
50	17.2	15.0	22.4

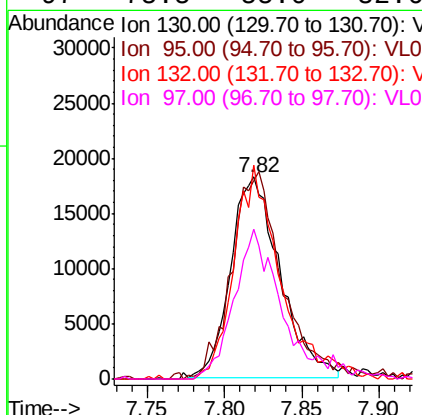
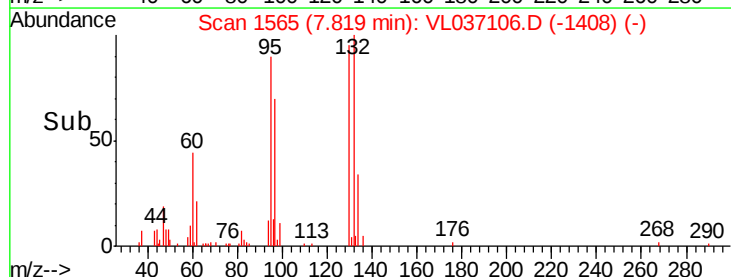
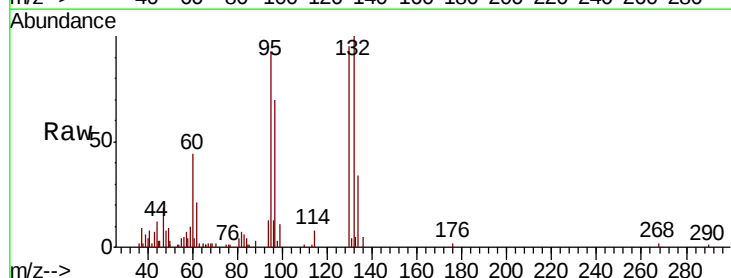
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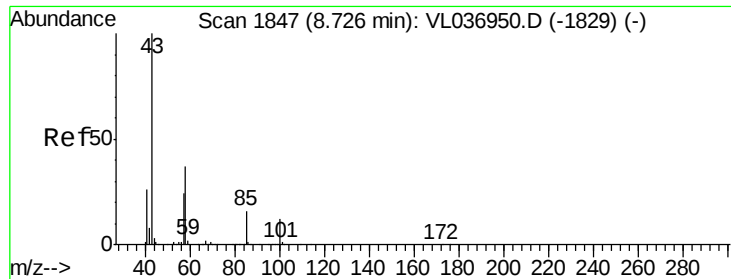
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#38
Trichloroethene
Concen: 0.277 ppbv
RT: 7.82 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VL037106.D
Acq: 2 Jun 2021 17:53

Tgt Ion:	130	Resp:	40121
Ion	Ratio	Lower	Upper
130	100		
95	98.0	86.9	130.3
132	112.5	78.4	117.6
97	75.5	55.0	82.6





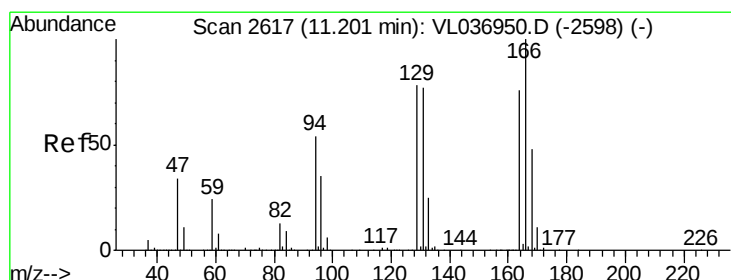
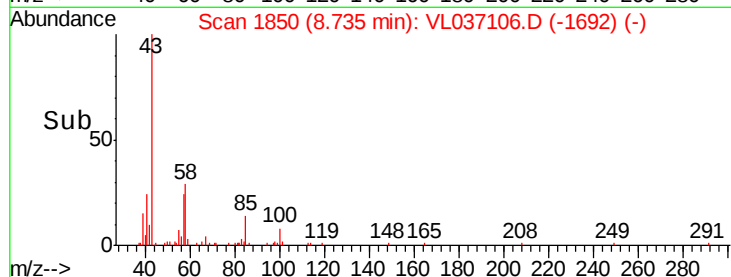
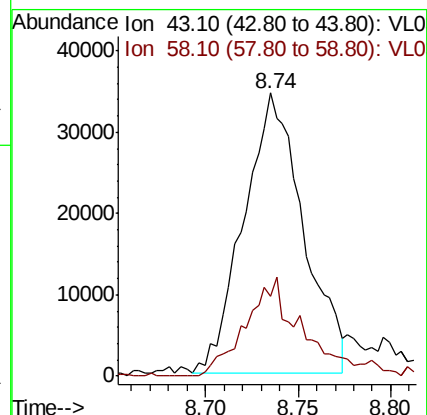
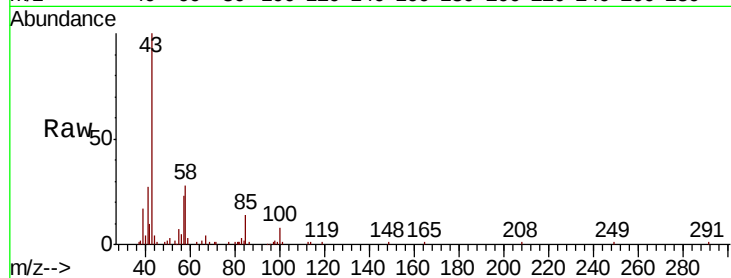
#50
4-Methyl-2-Pentanone
Concen: 0.326 ppbv
RT: 8.74 min Scan# 1850
Delta R.T. 0.01 min
Lab File: VL037106.D
Acq: 2 Jun 2021 17:53

Instrument :
MSVOA_L
ClientSampleId :
IA-18A

Tot Ion: 43 Resp: 76917
Ion Ratio Lower Upper
43 100
58 37.0 29.4 44.2

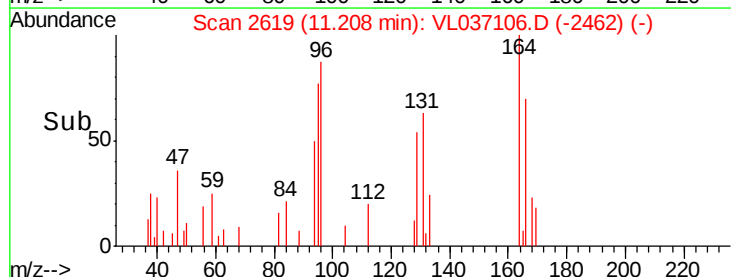
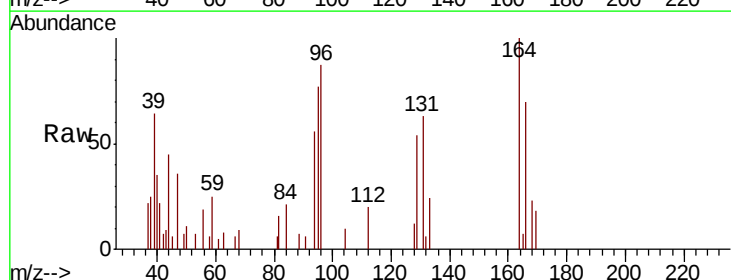
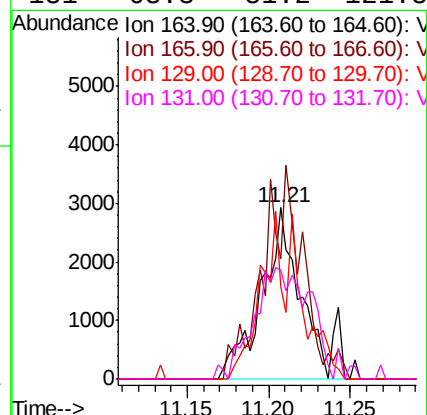
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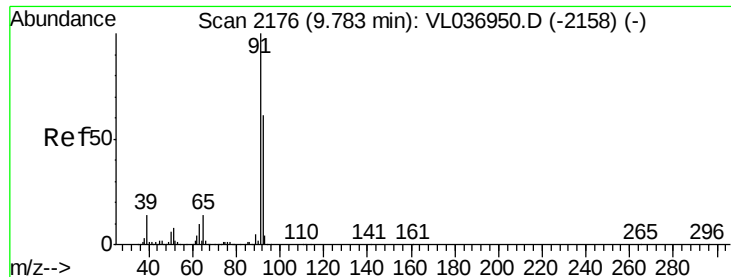
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#52
Tetrachloroethene
Concen: 0.038 ppbv m
RT: 11.21 min Scan# 2619
Delta R.T. 0.01 min
Lab File: VL037106.D
Acq: 2 Jun 2021 17:53

Tgt Ion: 164 Resp: 5088
Ion Ratio Lower Upper
164 100
166 70.2 105.5 158.3#
129 53.6 81.8 122.8#
131 63.3 81.2 121.8#





#53

Toluene

Concen: 3.524 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. 0.01 min

Lab File: VL037106.D

Acq: 2 Jun 2021 17:53

Instrument :

MSVOA_L

ClientSampleId :

IA-18A

Tot Ion: 91 Resp: 1419498

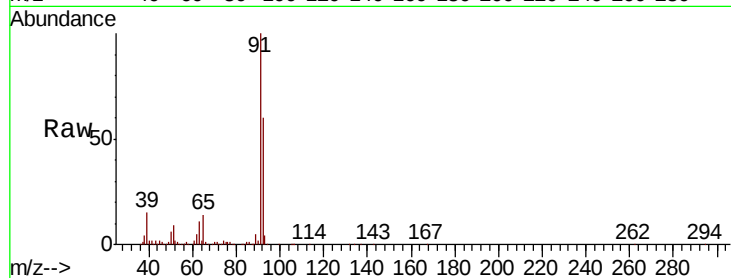
Ion Ratio Lower Upper

91 100

92 59.6 49.5 74.3

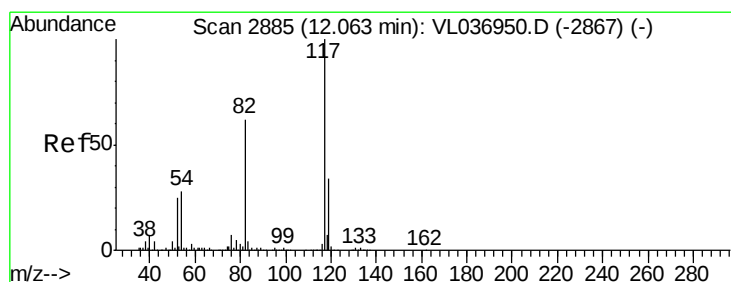
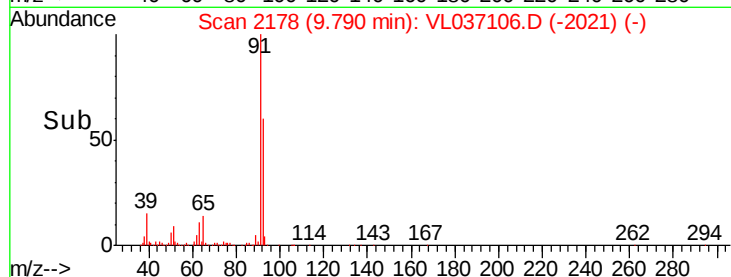
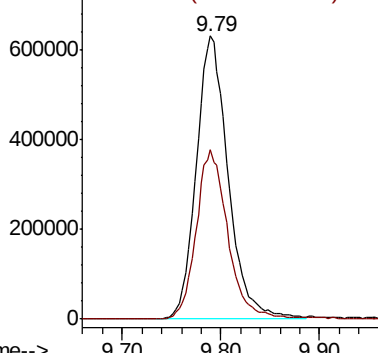
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. 0.01 min

Lab File: VL037106.D

Acq: 2 Jun 2021 17:53

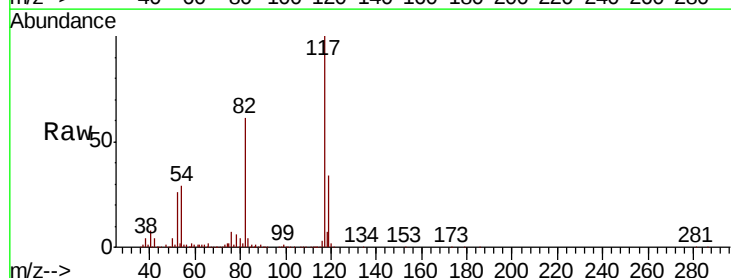
Tgt Ion: 117 Resp: 3584787

Ion Ratio Lower Upper

117 100

82 63.1 52.6 79.0

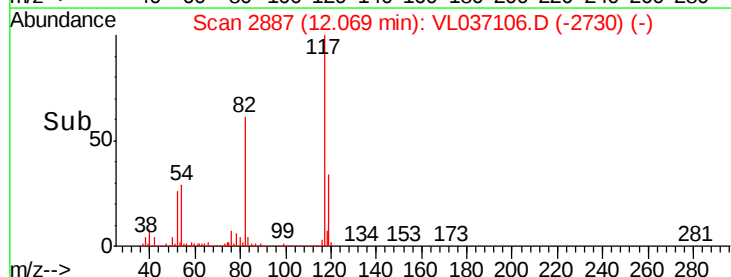
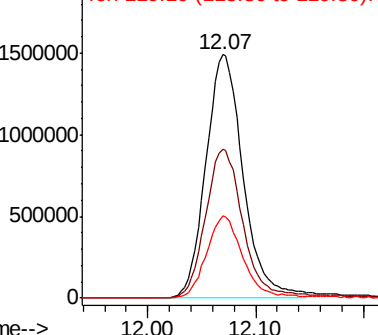
119 34.3 46.6 70.0#

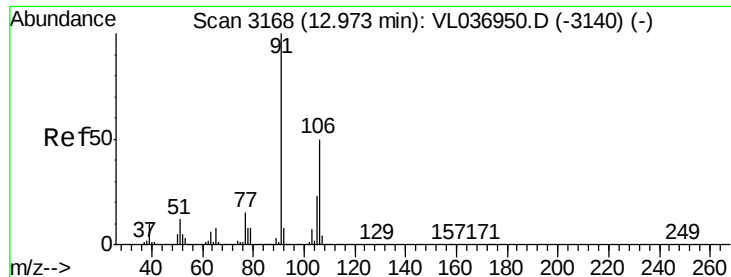


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





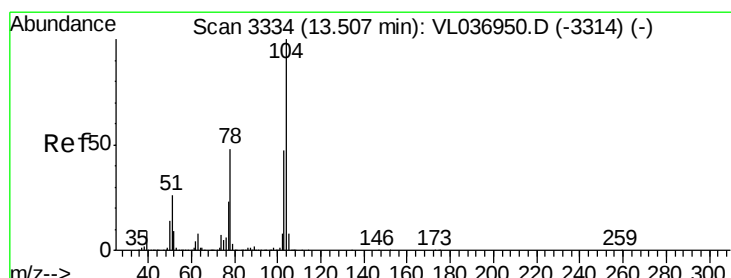
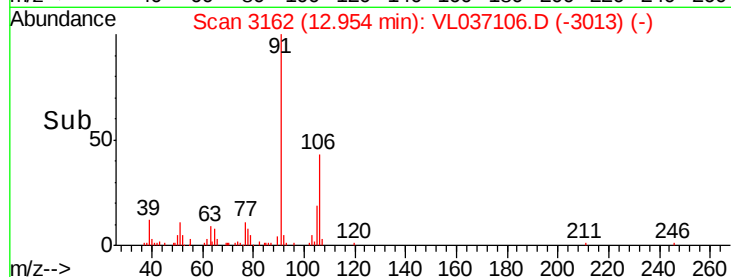
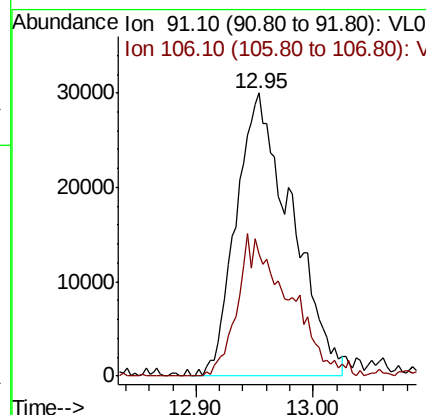
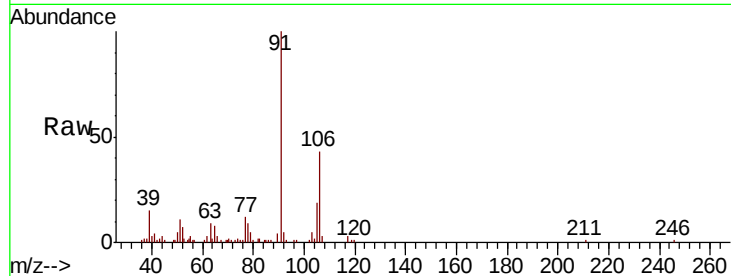
#59
m/p-Xylene
Concen: 0.234 ppbv m
RT: 12.95 min Scan# 3162
Delta R.T. -0.02 min
Lab File: VL037106.D
Acq: 2 Jun 2021 17:53

Instrument :
MSVOA_L
ClientSampled :
IA-18A

Tot Ion: 91 Resp: 97985
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#

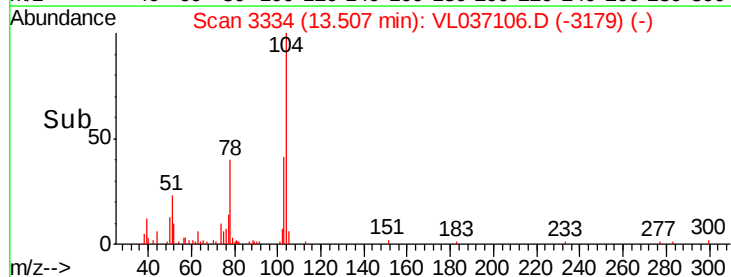
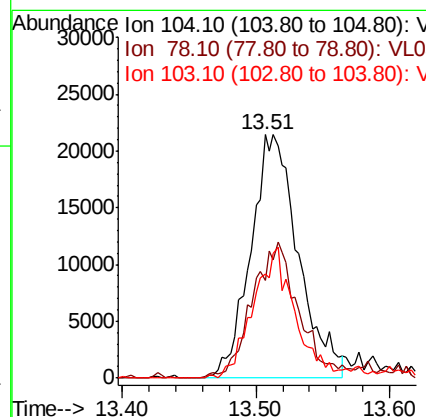
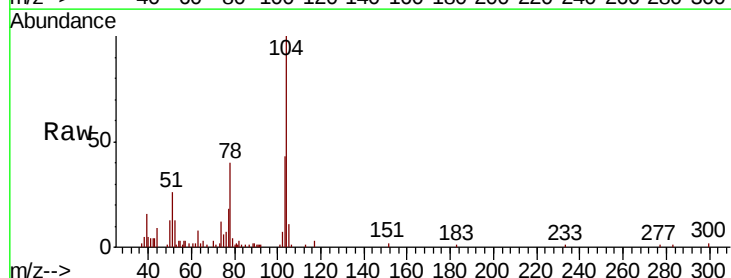
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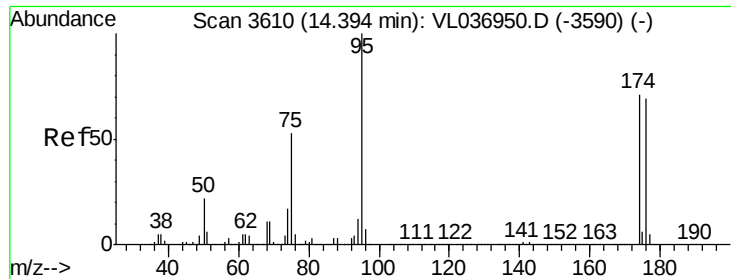
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#61
Styrene
Concen: 0.236 ppbv m
RT: 13.51 min Scan# 3334
Delta R.T. -0.00 min
Lab File: VL037106.D
Acq: 2 Jun 2021 17:53

Tgt Ion: 104 Resp: 53118
Ion Ratio Lower Upper
104 100
78 54.9 39.0 58.6
103 49.0 38.0 57.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.071 ppbv
 RT: 14.40 min Scan# 3612
 Delta R.T. 0.01 min
 Lab File: VL037106.D
 Acq: 2 Jun 2021 17:53

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-18A

Tot Ion	Ratio	Lower	Upper
95	100		
174	73.2	58.4	87.6
175	5.5	4.4	6.6

Manual Integrations
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