

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060221\
 Data File : VL037120.D
 Acq On : 3 Jun 2021 3:33
 Operator : SY/AP
 Sample : M2548-17
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SGS-18A

Manual Integrations
 APPROVED

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 6/7/2021 3:01:30 PM

Quant Time: Jun 06 20:41:27 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
 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	5.66	49	1312637	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3921385	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3527122	10.00	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2715533	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	56604m	0.254	ppbv	
4) Chloromethane	3.13	50	13202m	0.161	ppbv	
9) Propene	3.01	41	31967m	0.371	ppbv	
11) Trichlorofluoromethane	3.94	101	78412	0.380	ppbv	98
13) Ethanol	3.60	45	617785	53.770	ppbv	97
15) Acetone	3.84	43	1870851	13.915	ppbv	99
17) tert-Butyl alcohol	4.30	59	61006	0.495	ppbv	97
19) Isopropyl Alcohol	3.97	45	186408m	2.579	ppbv	
20) Methylene Chloride	4.34	84	724953	10.059	ppbv	99
26) Hexane	5.68	57	580299	3.516	ppbv #	46
27) Carbon Disulfide	4.55	76	25328m	0.152	ppbv	
29) Chloroform	5.74	83	1068748	4.583	ppbv	97
34) 2-Butanone	5.24	43	192409	1.348	ppbv	94
35) Carbon Tetrachloride	7.00	117	41361m	0.159	ppbv	
38) Trichloroethene	7.83	130	2925410	20.246	ppbv	96
50) 4-Methyl-2-Pentanone	8.75	43	28474m	0.121	ppbv	
52) Tetrachloroethene	11.21	164	40467	0.301	ppbv	91
53) Toluene	9.80	91	168151	0.418	ppbv	98
58) Ethyl Benzene	12.70	91	591791	1.189	ppbv	96
59) m/p-Xylene	12.95	91	1560361	3.792	ppbv	99
60) o-Xylene	13.68	91	347994	0.887	ppbv	98
74) 1,2,4-Trimethylbenzene	16.75	105	66367m	0.147	ppbv	
79) Naphthalene	22.20	128	35992m	0.101	ppbv	

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

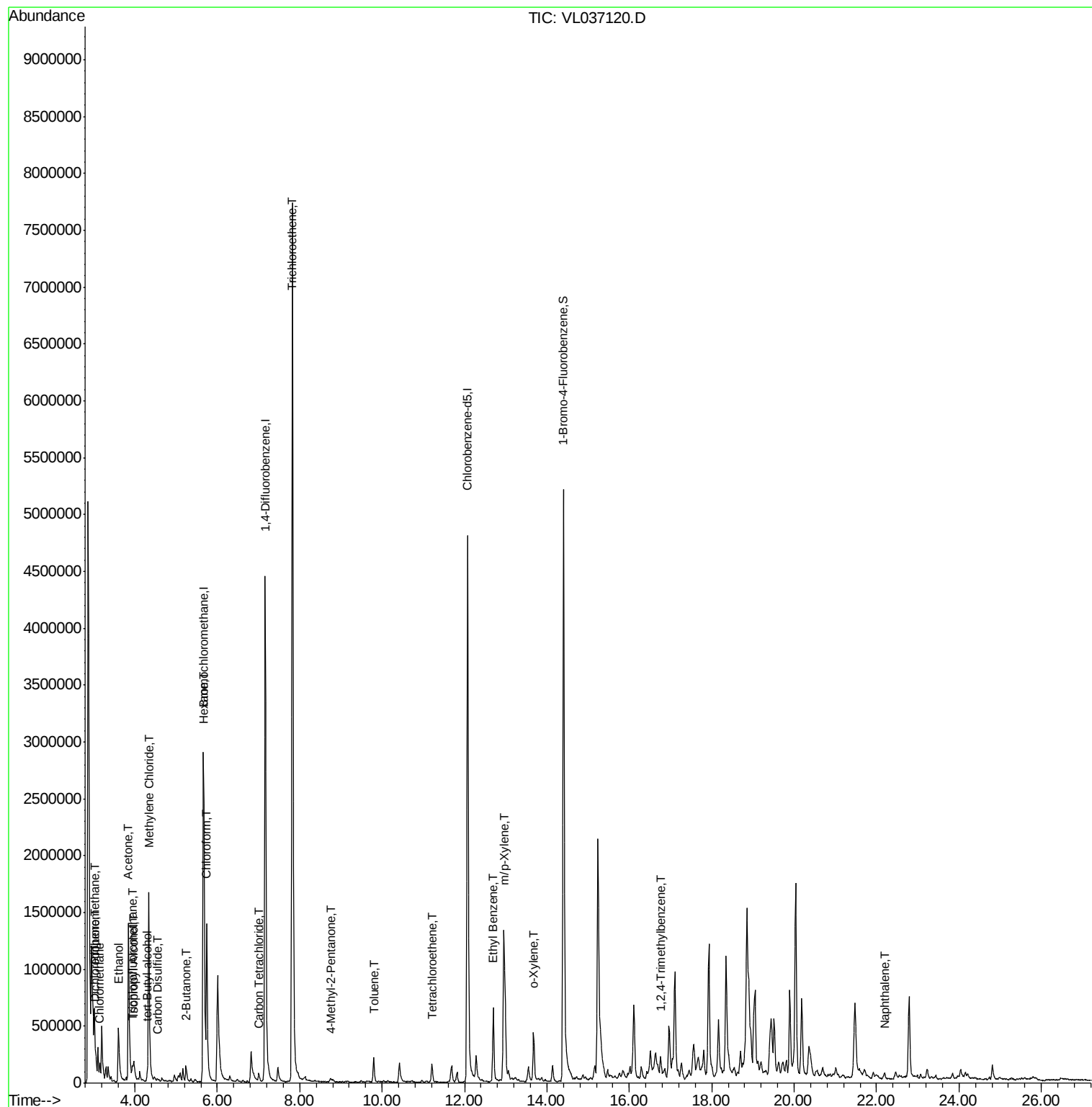
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060221\
Data File : VL037120.D
Acq On : 3 Jun 2021 3:33
Operator : SY/AP
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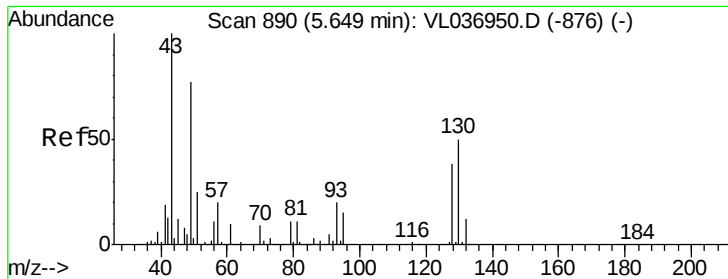
Instrument :
MSVOA_L
ClientSampleId :
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Quant Time: Jun 06 20:41:27 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

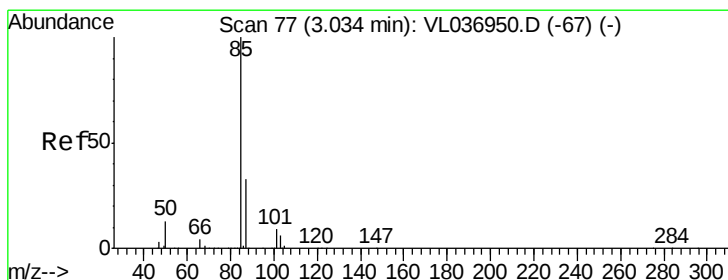
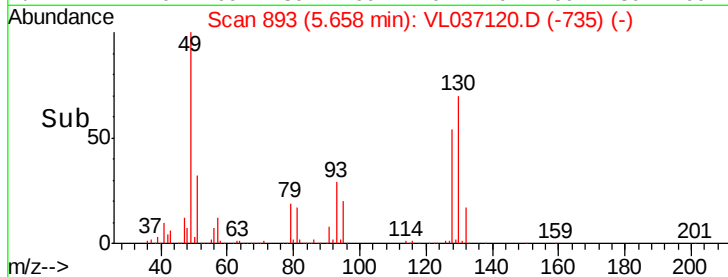
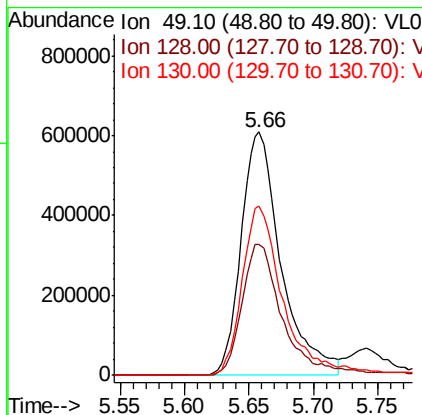
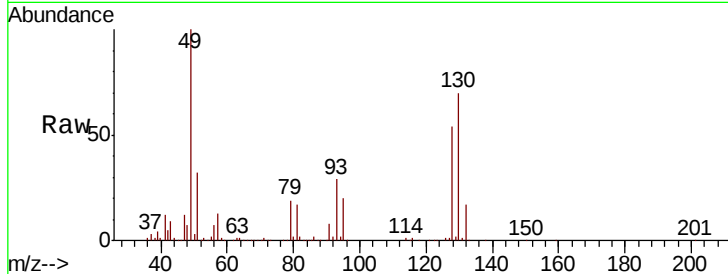
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 893
 Delta R.T. 0.01 min
 Lab File: VL037120.D
 Acq: 3 Jun 2021 3:33

Instrument :
 MSVOA_L
 ClientSampleId :
 SGS-18A

Tot Ion: 49 Resp: 1312637
 Ion Ratio Lower Upper
 49 100
 128 56.5 26.9 80.7
 130 74.0 33.8 101.4

Manual Integrations
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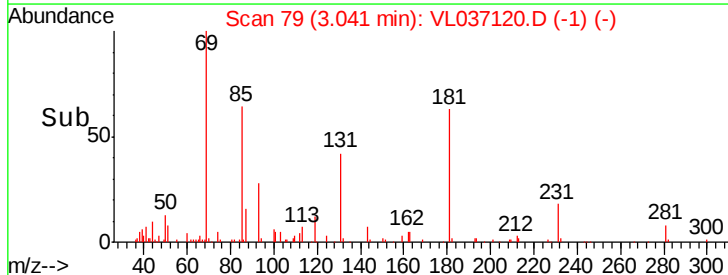
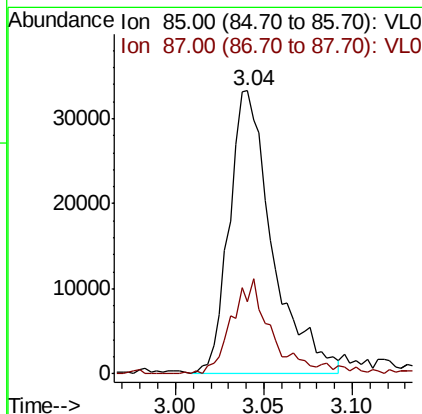
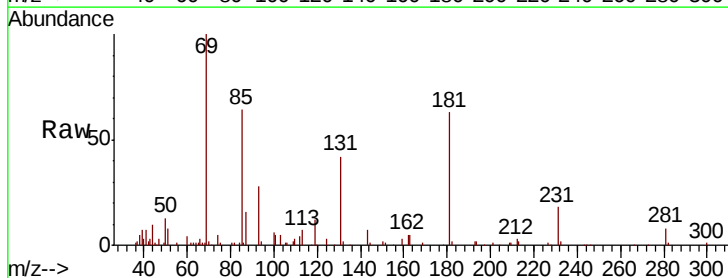
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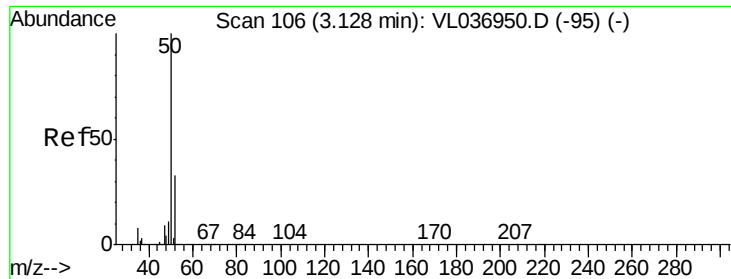


#2

Dichlorodifluoromethane
 Concen: 0.254 ppbv m
 RT: 3.04 min Scan# 79
 Delta R.T. 0.01 min
 Lab File: VL037120.D
 Acq: 3 Jun 2021 3:33

Tgt Ion: 85 Resp: 56604
 Ion Ratio Lower Upper
 85 100
 87 25.6 26.6 39.8#





#4

Chloromethane

Concen: 0.161 ppbv m

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL037120.D

Acq: 3 Jun 2021 3:33

Instrument :

MSVOA_L

ClientSampled :

SGS-18A

Tot Ion: 50 Resp: 13202

Ion Ratio Lower Upper

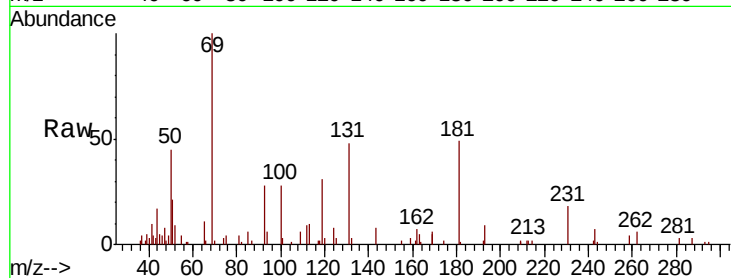
50 100

52 19.5 26.1 39.1#

Manual Integrations
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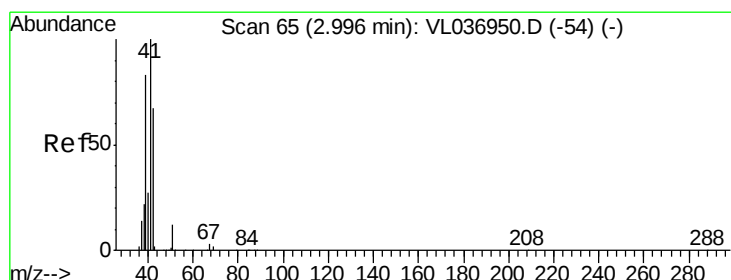
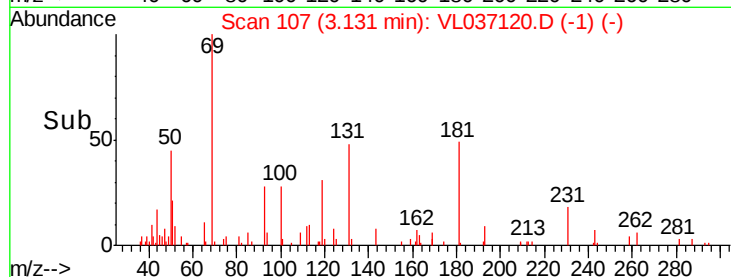
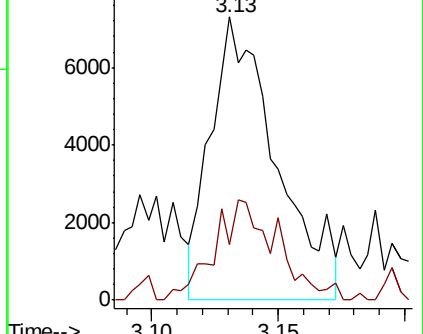
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Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.371 ppbv m

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL037120.D

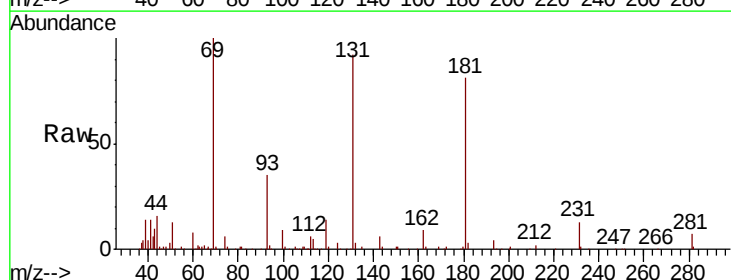
Acq: 3 Jun 2021 3:33

Tgt Ion: 41 Resp: 31967

Ion Ratio Lower Upper

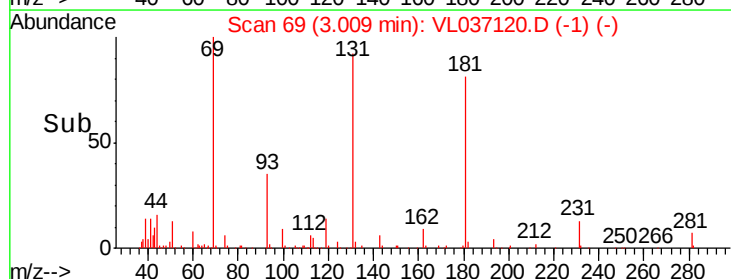
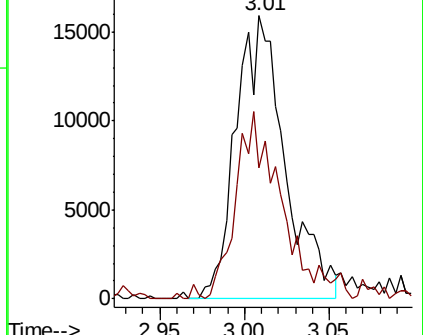
41 100

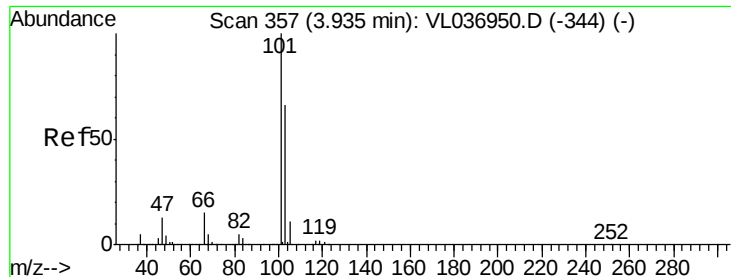
42 0.0 53.9 80.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





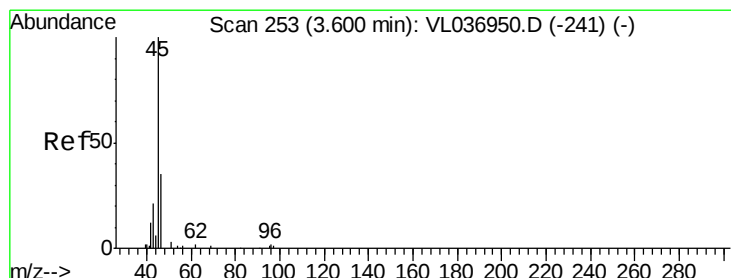
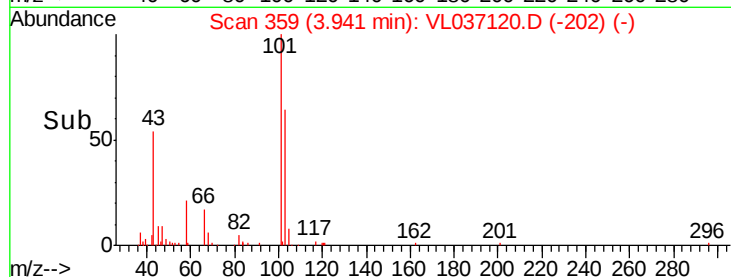
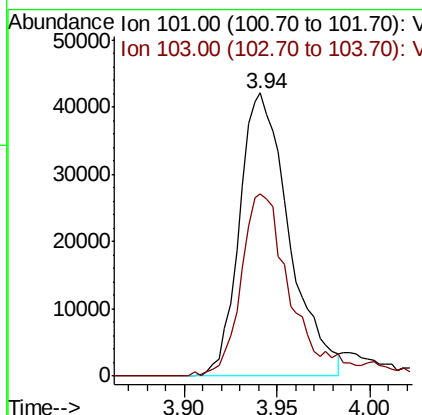
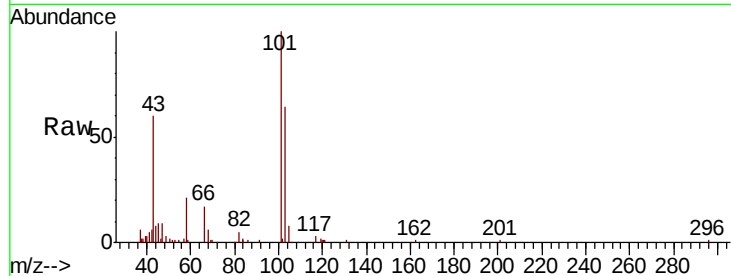
#11
 Trichlorofluoromethane
 Concen: 0.380 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. 0.01 min
 Lab File: VL037120.D
 Acq: 3 Jun 2021 3:33

Instrument :
 MSVOA_L
 ClientSampleId :
 SGS-18A

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.4	52.6	79.0

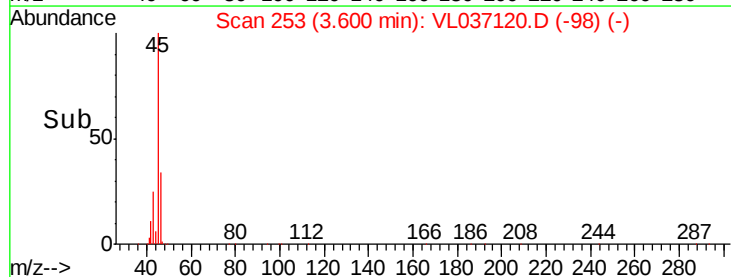
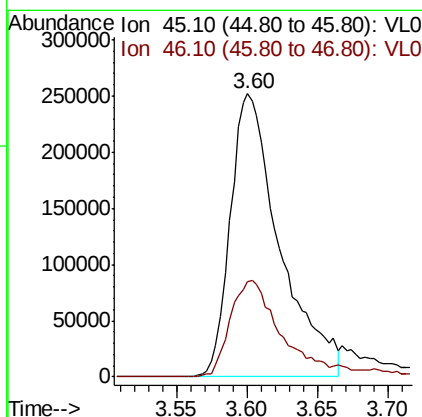
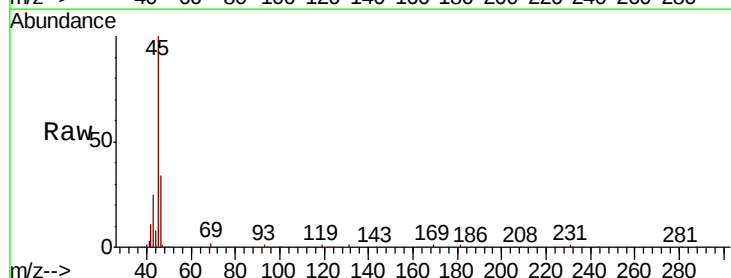
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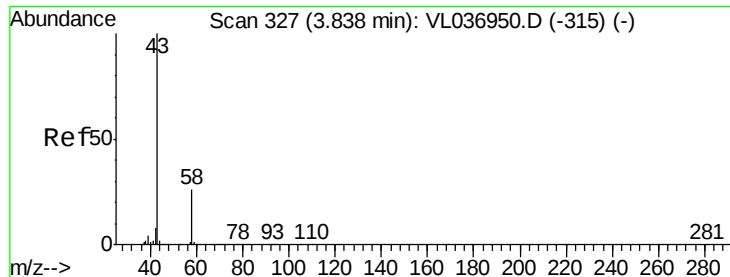
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#13
 Ethanol
 Concen: 53.770 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. -0.00 min
 Lab File: VL037120.D
 Acq: 3 Jun 2021 3:33

Tgt Ion	Ratio	Lower	Upper
45	100		
46	38.9	16.3	65.3





#15

Acetone

Concen: 13.915 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.00 min

Lab File: VL037120.D

Acq: 3 Jun 2021 3:33

Instrument :

MSVOA_L

ClientSampled :

SGS-18A

Tot Ion: 43 Resp: 1870851

Ion Ratio Lower Upper

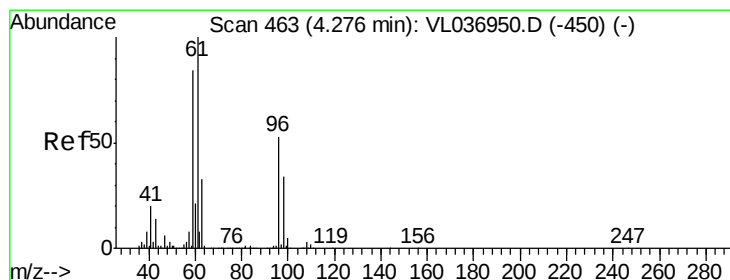
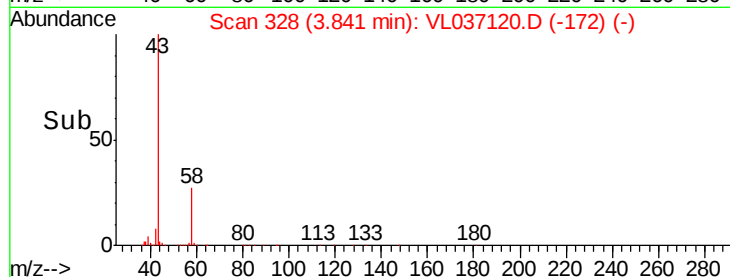
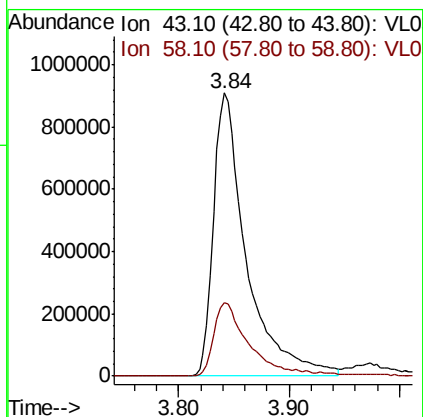
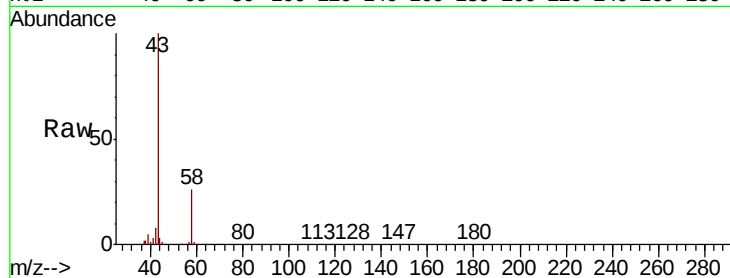
43 100

58 29.5 24.0 36.0

Manual Integrations
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#17

tert-Butyl alcohol

Concen: 0.495 ppbv

RT: 4.30 min Scan# 471

Delta R.T. 0.03 min

Lab File: VL037120.D

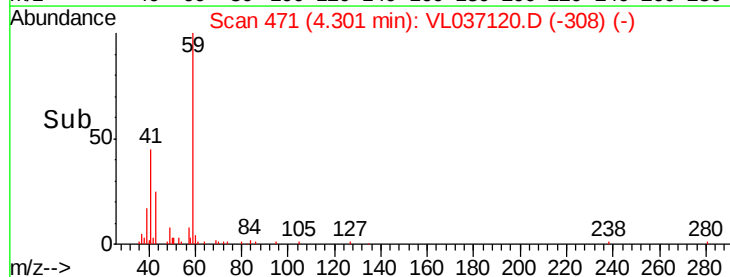
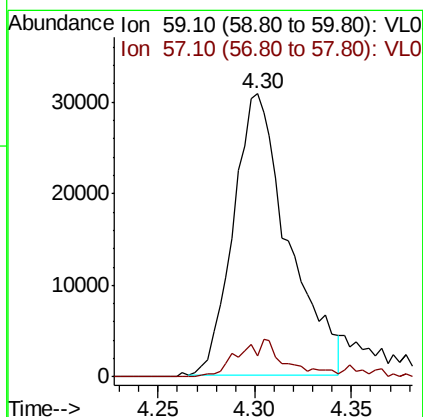
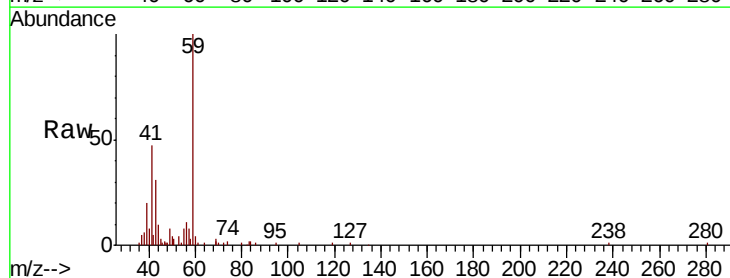
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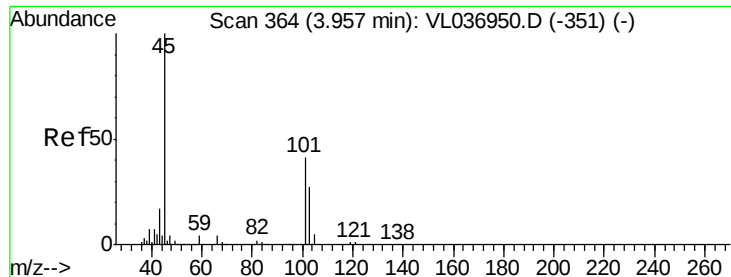
Tgt Ion: 59 Resp: 61006

Ion Ratio Lower Upper

59 100

57 11.5 8.3 12.5





#19

Isopropyl Alcohol

Concen: 2.579 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.02 min

Lab File: VL037120.D

Acq: 3 Jun 2021 3:33

Instrument :

MSVOA_L

ClientSampleId :

SGS-18A

Tot Ion: 45 Resp: 186408

Ion Ratio Lower Upper

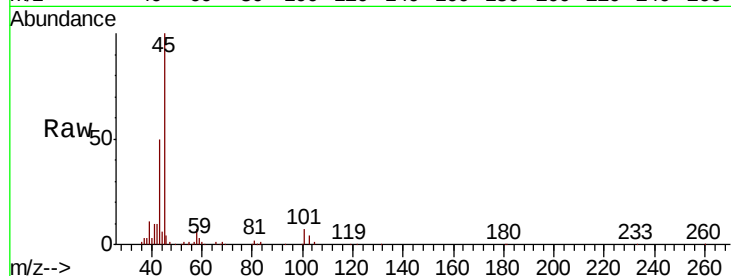
45 100

58 0.0 37.2 55.8#

Manual Integrations
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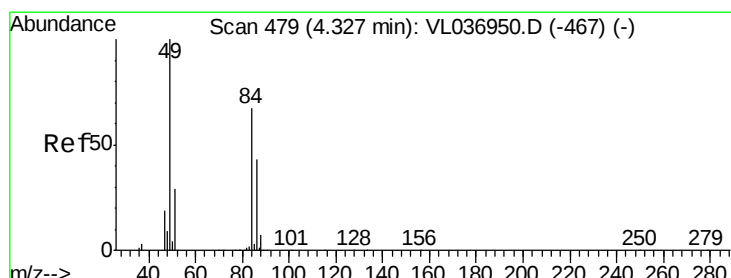
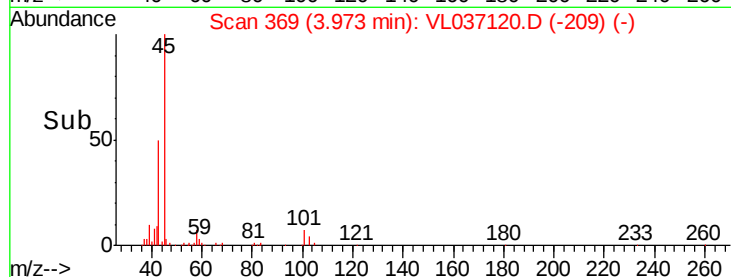
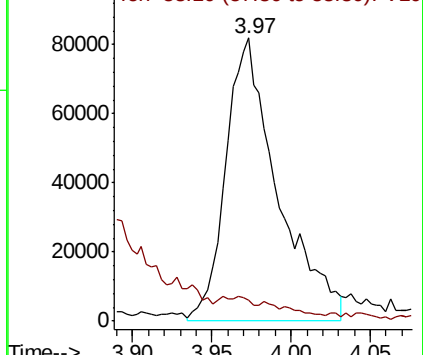
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 10.059 ppbv

RT: 4.34 min Scan# 482

Delta R.T. 0.01 min

Lab File: VL037120.D

Acq: 3 Jun 2021 3:33

Tgt Ion: 84 Resp: 724953

Ion Ratio Lower Upper

84 100

49 149.9 119.8 179.6

51 47.6 35.1 52.7

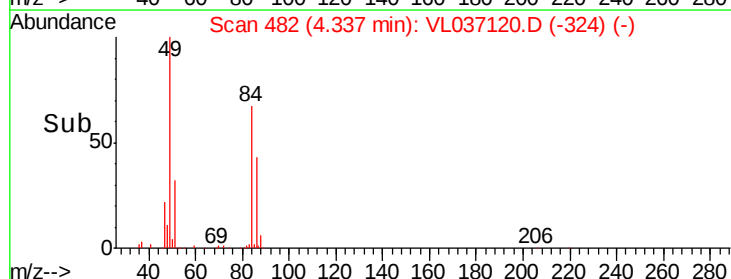
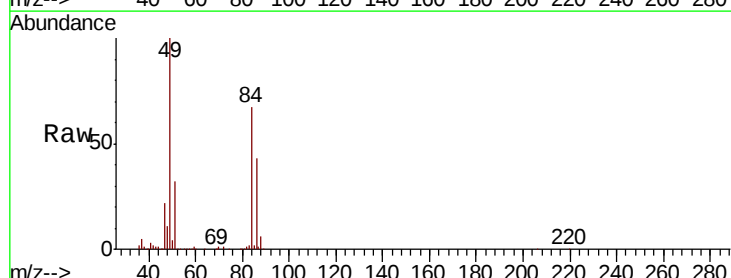
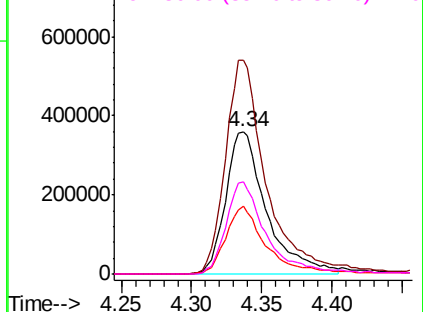
86 64.8 50.9 76.3

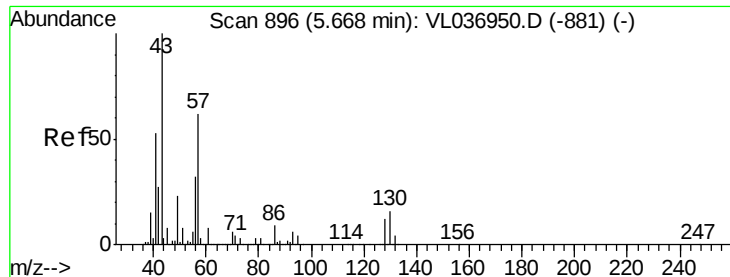
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





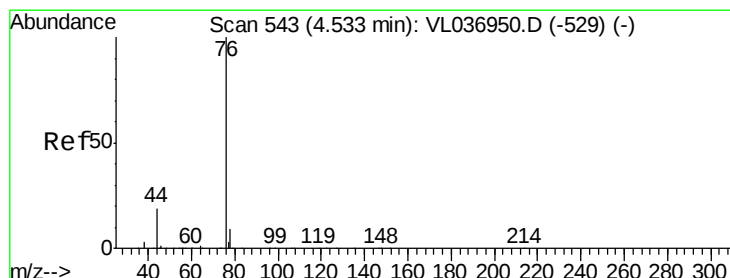
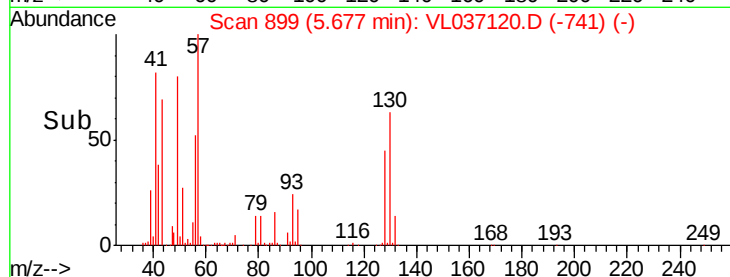
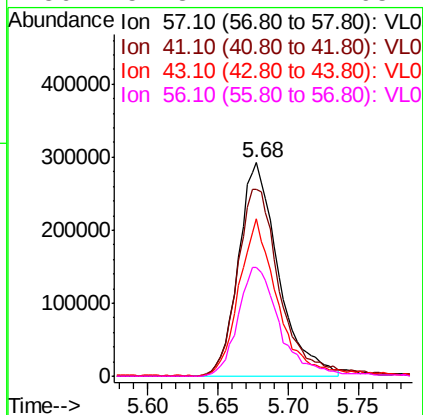
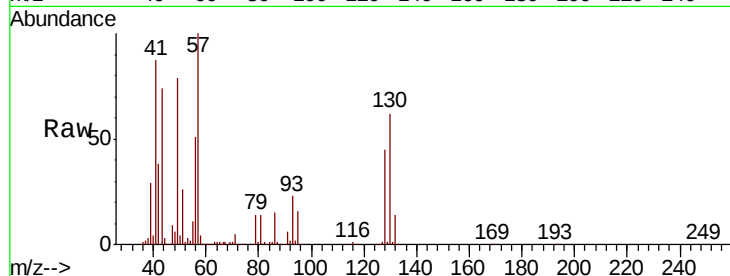
#26
Hexane
Concen: 3.516 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL037120.D
Acq: 3 Jun 2021 3:33

Instrument :
MSVOA_L
ClientSampleId :
SGS-18A

Tot Ion	Ratio	Lower	Upper
57	100		
41	95.4	70.5	105.7
43	71.6	165.8	248.8#
56	54.3	42.2	63.4

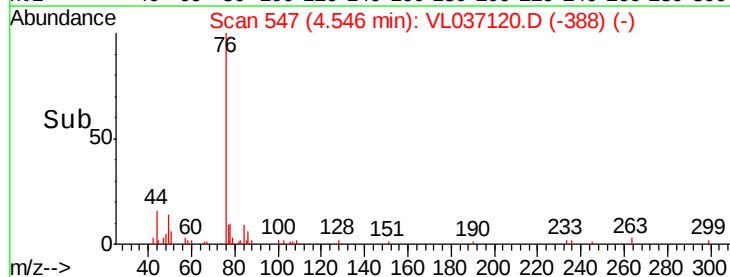
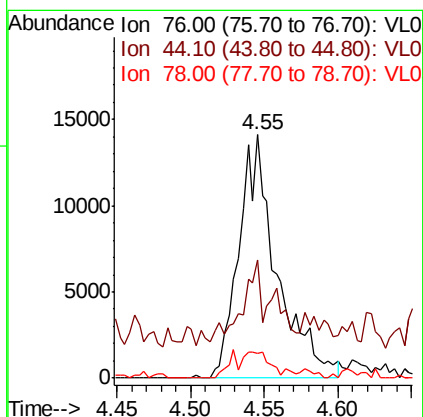
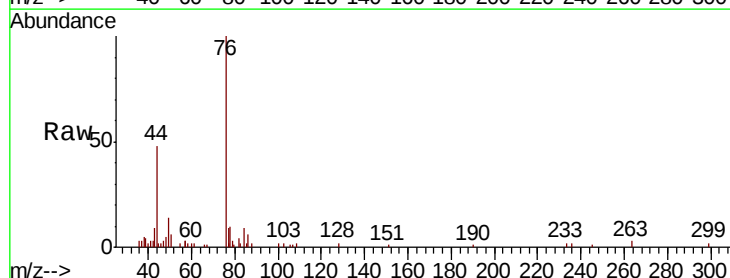
Manual Integrations
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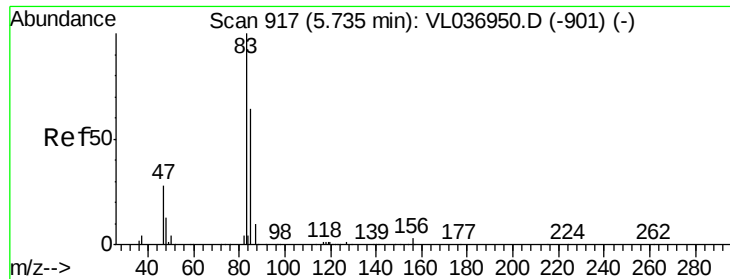
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#27
Carbon Disulfide
Concen: 0.152 ppbv m
RT: 4.55 min Scan# 547
Delta R.T. 0.01 min
Lab File: VL037120.D
Acq: 3 Jun 2021 3:33

Tgt Ion	Ratio	Lower	Upper
76	100		
44	32.7	15.5	23.3#
78	0.0	7.8	11.6#





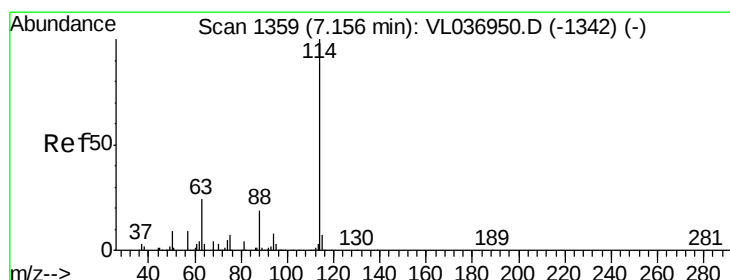
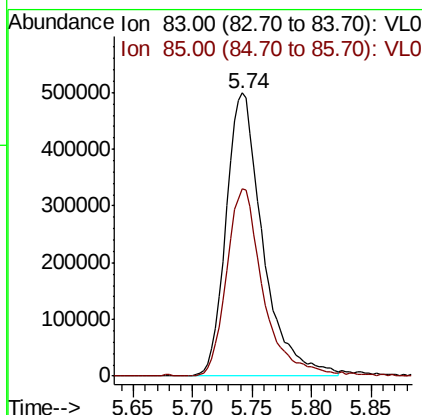
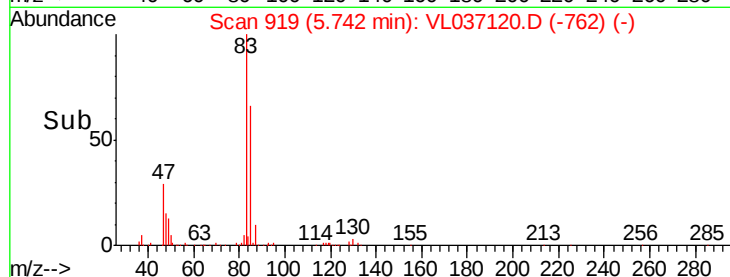
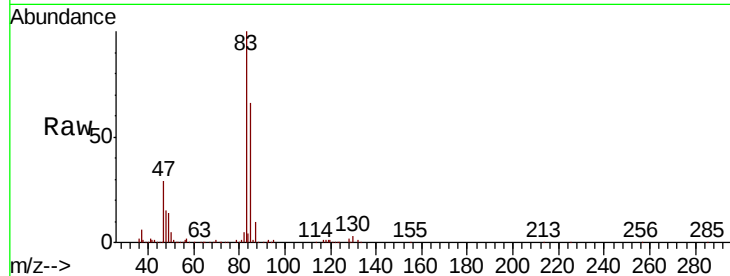
#29
Chloroform
Concen: 4.583 ppbv
RT: 5.74 min Scan# 919
Delta R.T. 0.01 min
Lab File: VL037120.D
Acq: 3 Jun 2021 3:33

Instrument :
MSVOA_L
ClientSampled :
SGS-18A

Tot Ion: 83 Resp: 1068748
Ion Ratio Lower Upper
83 100
85 65.9 51.1 76.7

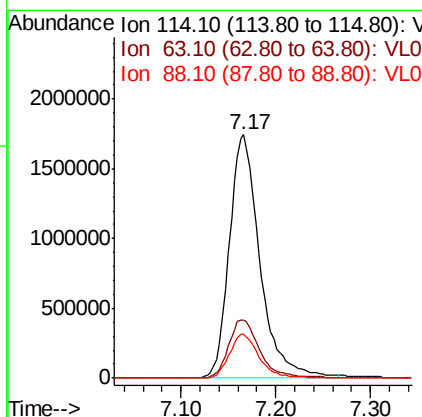
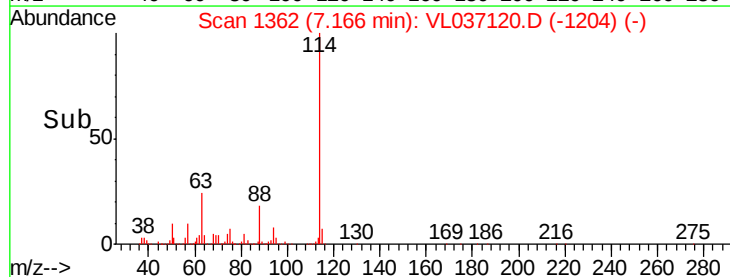
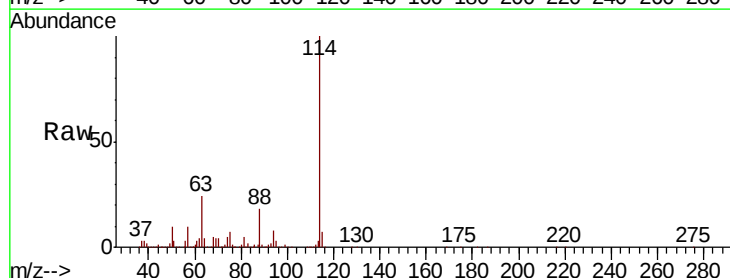
Manual Integrations
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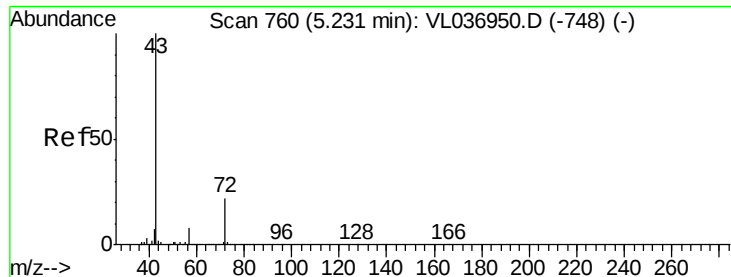
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. 0.01 min
Lab File: VL037120.D
Acq: 3 Jun 2021 3:33

Tgt Ion: 114 Resp: 3921385
Ion Ratio Lower Upper
114 100
63 24.6 19.6 29.4
88 17.9 14.6 21.8





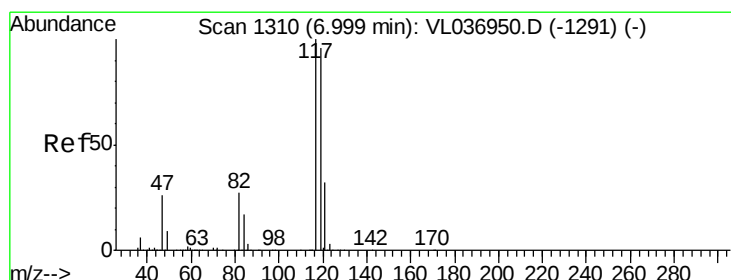
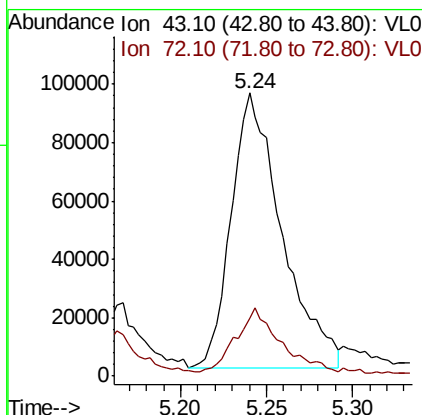
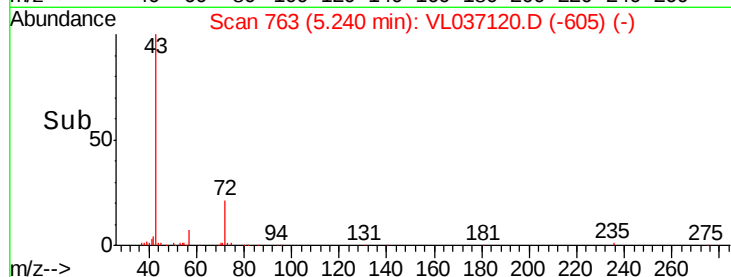
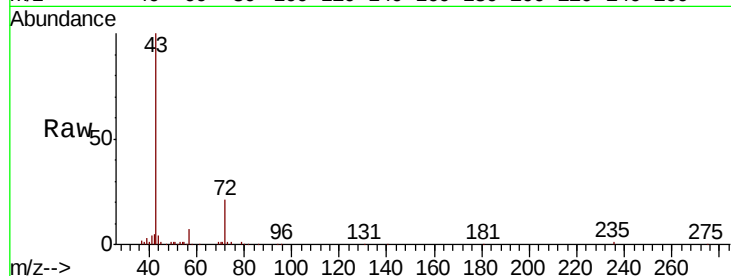
#34
2-Butanone
Concen: 1.348 ppbv
RT: 5.24 min Scan# 763
Delta R.T. 0.01 min
Lab File: VL037120.D
Acq: 3 Jun 2021 3:33

Instrument :
MSVOA_L
ClientSampleId :
SGS-18A

Tot Ion	43	Resp	192409
Ion Ratio	Lower	Upper	
43	100		
72	26.8	19.0	28.4

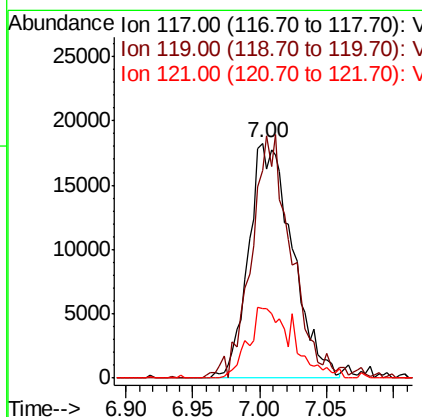
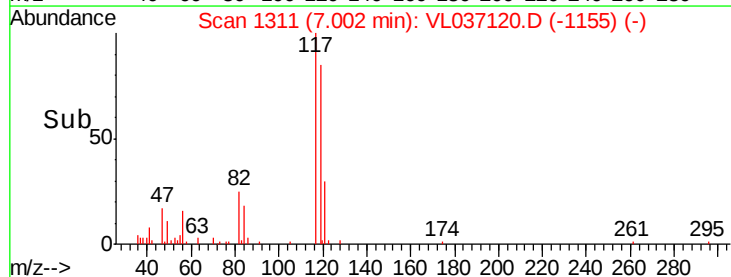
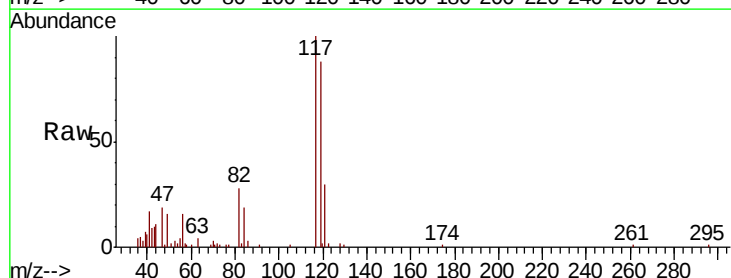
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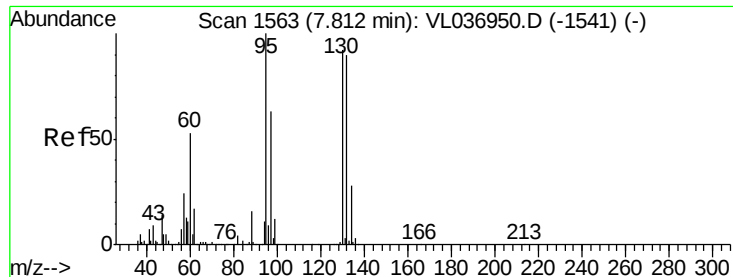
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#35
Carbon Tetrachloride
Concen: 0.159 ppbv m
RT: 7.00 min Scan# 1311
Delta R.T. 0.00 min
Lab File: VL037120.D
Acq: 3 Jun 2021 3:33

Tgt Ion	117	Resp	41361
Ion Ratio	Lower	Upper	
117	100		
119	88.3	76.6	114.8
121	29.6	25.8	38.6





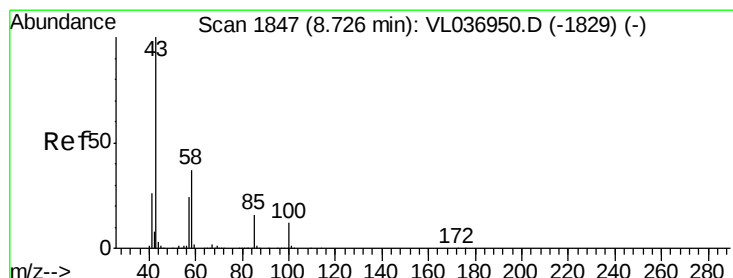
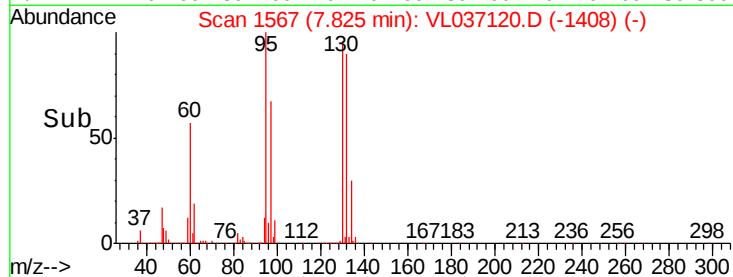
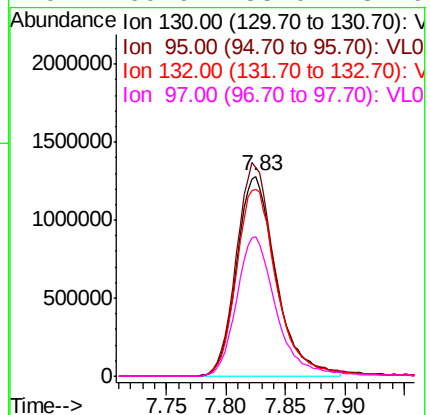
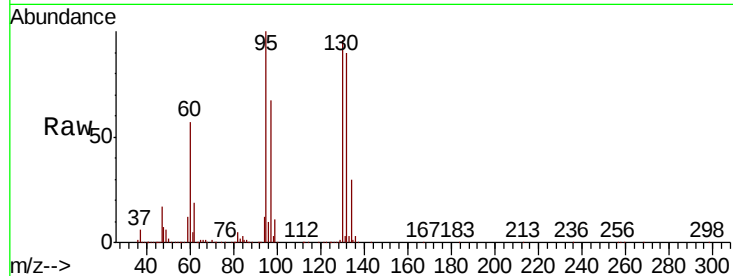
#38
 Trichloroethene
 Concen: 20.246 ppbv
 RT: 7.83 min Scan# 1567
 Delta R.T. 0.01 min
 Lab File: VL037120.D
 Acq: 3 Jun 2021 3:33

Instrument :
 MSVOA_L
 ClientSampleId :
 SGS-18A

Tot Ion	Ratio	Lower	Upper
130	100		
95	104.2	86.9	130.3
132	93.6	78.4	117.6
97	69.9	55.0	82.6

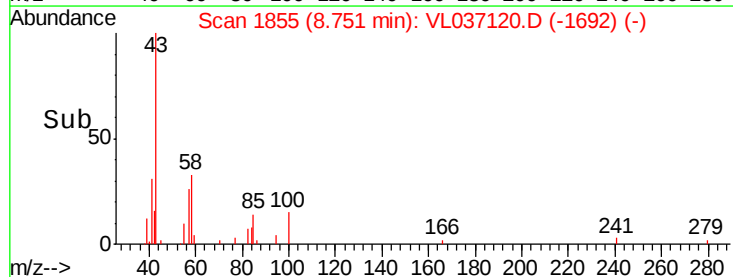
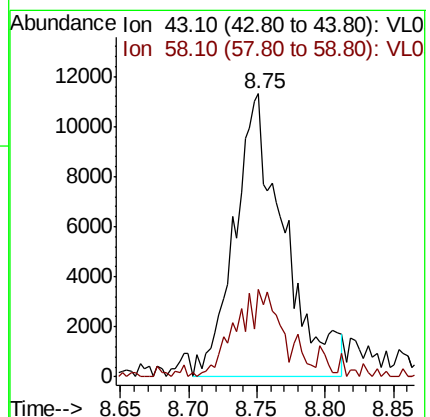
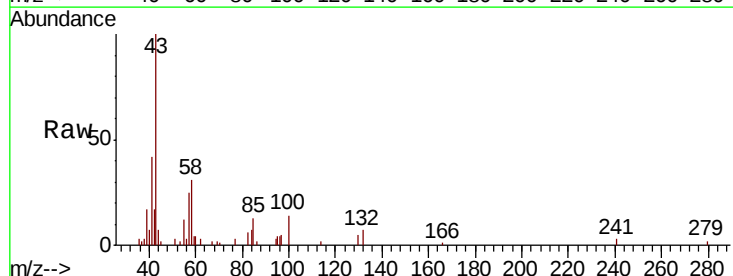
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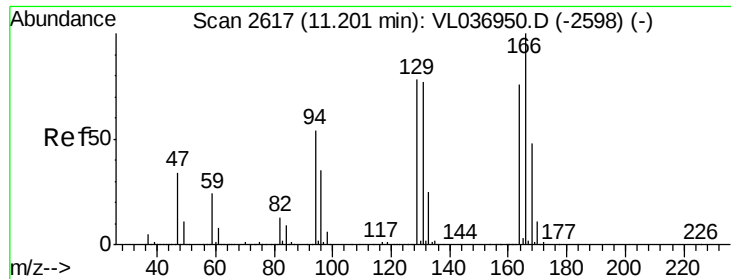
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#50
 4-Methyl-2-Pentanone
 Concen: 0.121 ppbv m
 RT: 8.75 min Scan# 1855
 Delta R.T. 0.03 min
 Lab File: VL037120.D
 Acq: 3 Jun 2021 3:33

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.7	29.4	44.2





#52

Tetrachloroethene

Concen: 0.301 ppbv

RT: 11.21 min Scan# 2619

Delta R.T. 0.01 min

Lab File: VL037120.D

Acq: 3 Jun 2021 3:33

Instrument :

MSVOA_L

ClientSampleId :

SGS-18A

Tot Ion:164 Resp: 40467

Ion Ratio Lower Upper

164 100

166 115.0 105.5 158.3

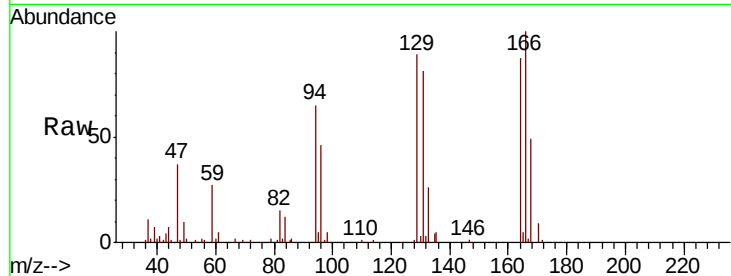
129 101.9 81.8 122.8

131 92.0 81.2 121.8

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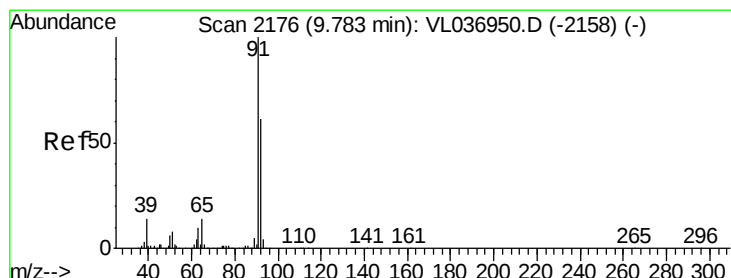
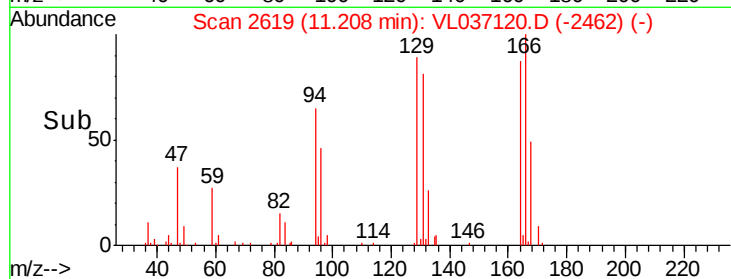
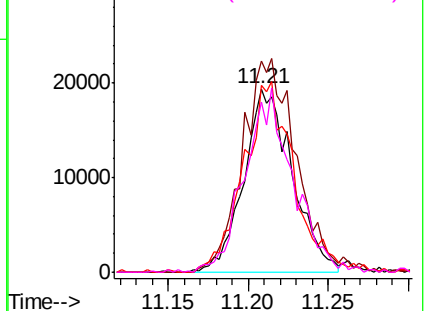


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.418 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. 0.02 min

Lab File: VL037120.D

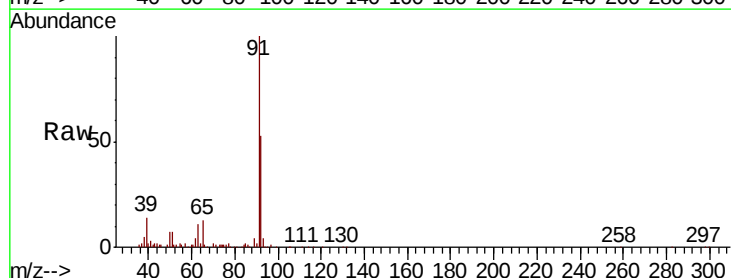
Acq: 3 Jun 2021 3:33

Tgt Ion: 91 Resp: 168151

Ion Ratio Lower Upper

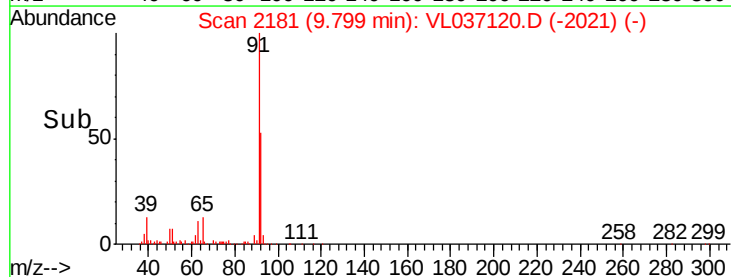
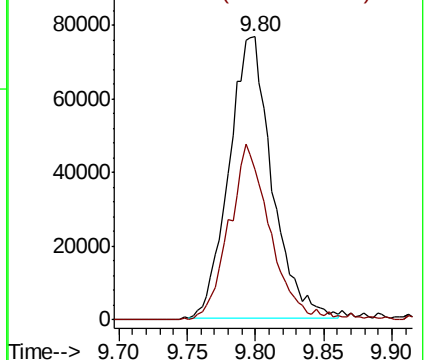
91 100

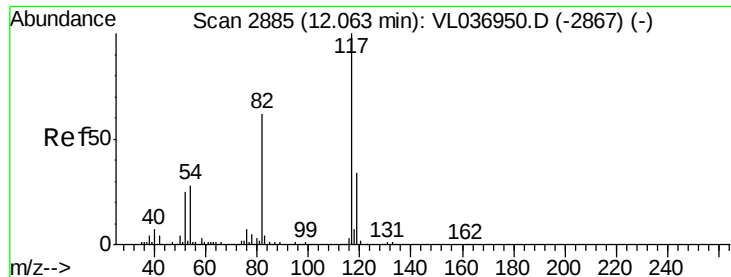
92 60.3 49.5 74.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





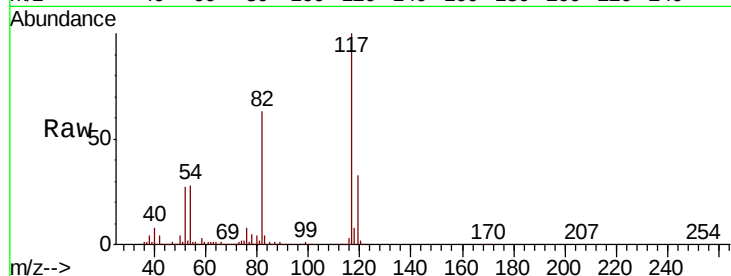
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2889
Delta R.T. 0.01 min
Lab File: VL037120.D
Acq: 3 Jun 2021 3:33

Instrument :
MSVOA_L
ClientSampleId :
SGS-18A

Tot Ion	Ratio	Lower	Upper
117	100		
82	63.5	52.6	79.0
119	33.3	46.6	70.0

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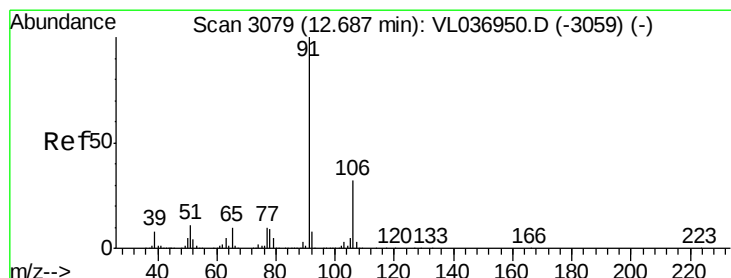
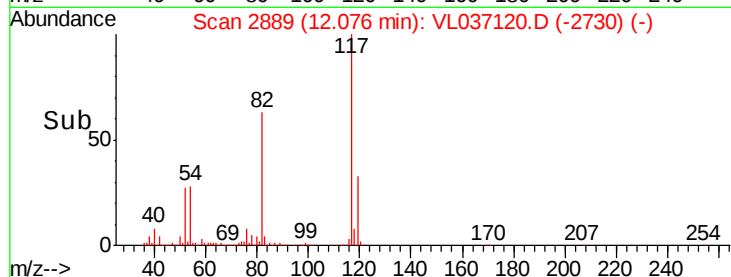
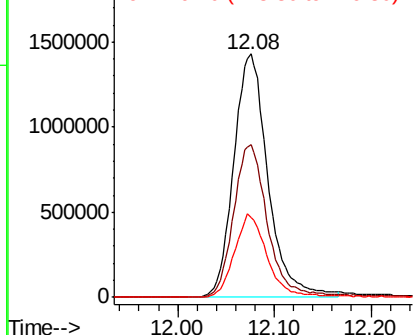


Abundance

Ion 117.10 (116.80 to 117.80): V

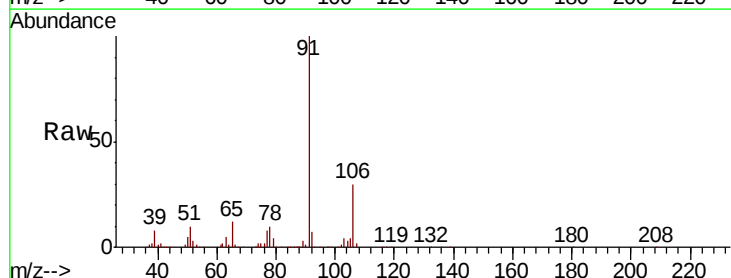
Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58
Ethyl Benzene
Concen: 1.189 ppbv
RT: 12.70 min Scan# 3083
Delta R.T. 0.01 min
Lab File: VL037120.D
Acq: 3 Jun 2021 3:33

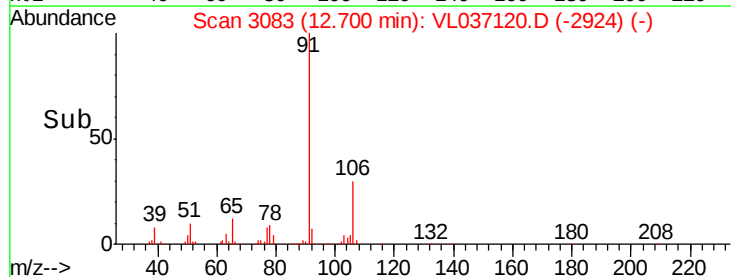
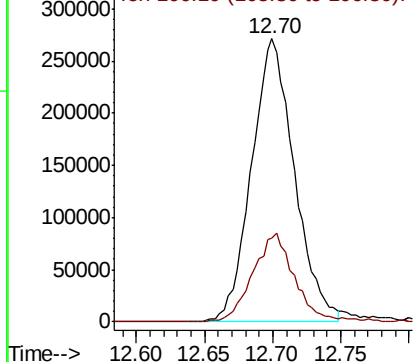
Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.8	25.6	38.4

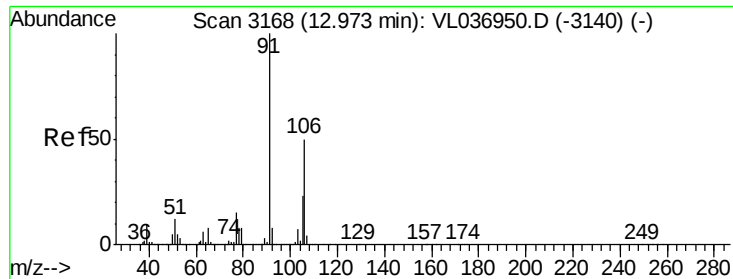


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 3.792 ppbv

RT: 12.95 min Scan# 3162

Delta R.T. -0.02 min

Lab File: VL037120.D

Acq: 3 Jun 2021 3:33

Instrument :

MSVOA_L

ClientSampled :

SGS-18A

Tot Ion: 91 Resp: 1560361

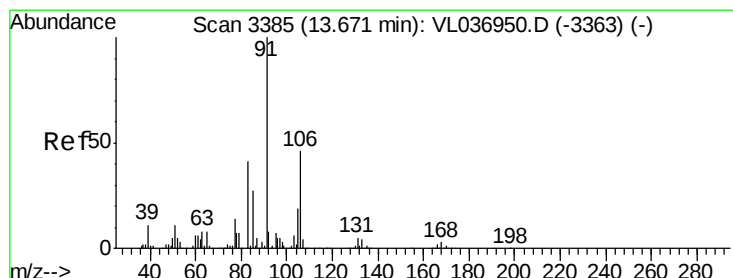
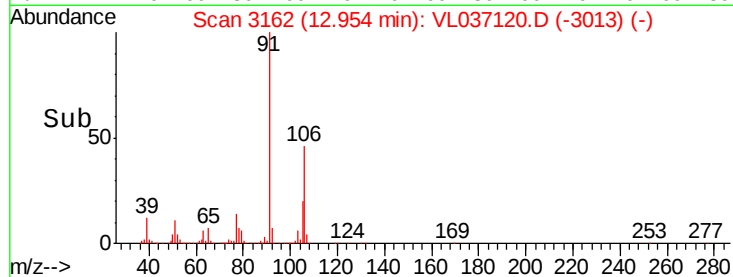
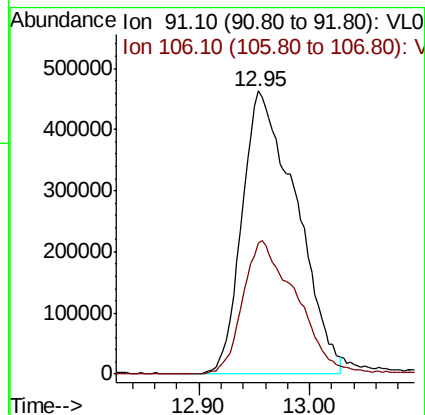
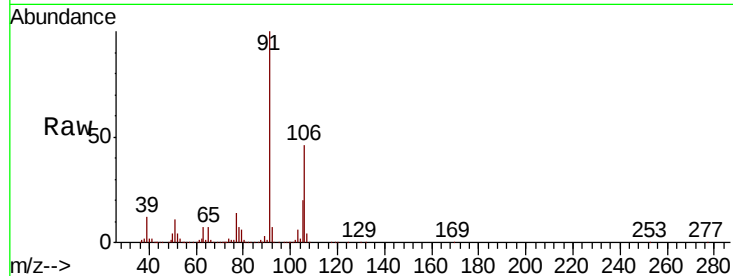
Ion Ratio Lower Upper

91 100

106 47.7 37.4 56.2

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#60

o-Xylene

Concen: 0.887 ppbv

RT: 13.68 min Scan# 3387

Delta R.T. 0.01 min

Lab File: VL037120.D

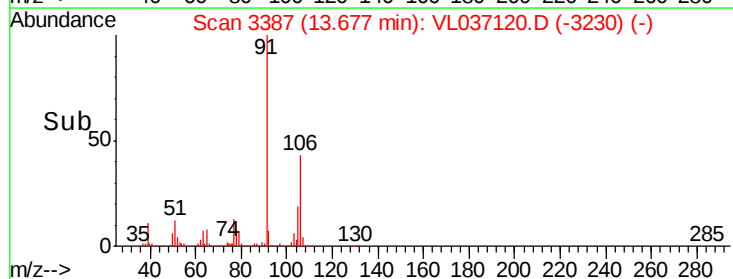
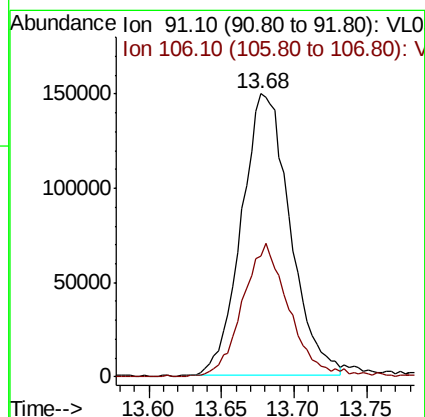
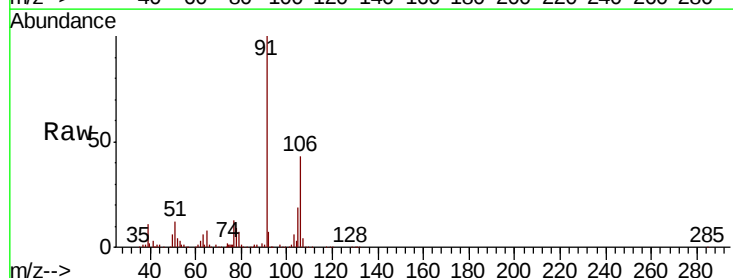
Acq: 3 Jun 2021 3:33

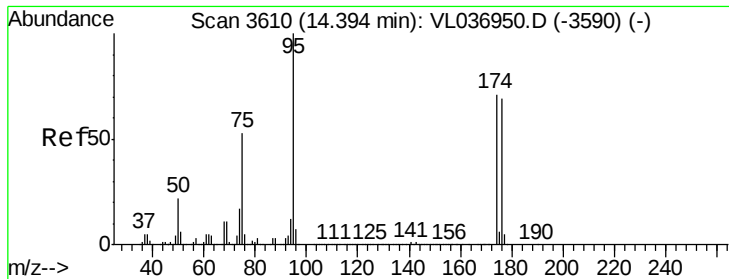
Tgt Ion: 91 Resp: 347994

Ion Ratio Lower Upper

91 100

106 45.8 23.4 70.3





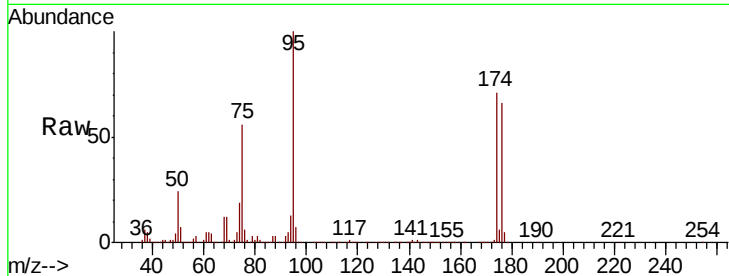
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.249 ppbv
 RT: 14.40 min Scan# 3613
 Delta R.T. 0.01 min
 Lab File: VL037120.D
 Acq: 3 Jun 2021 3:33

Instrument :
 MSVOA_L
 ClientSampled :
 SGS-18A

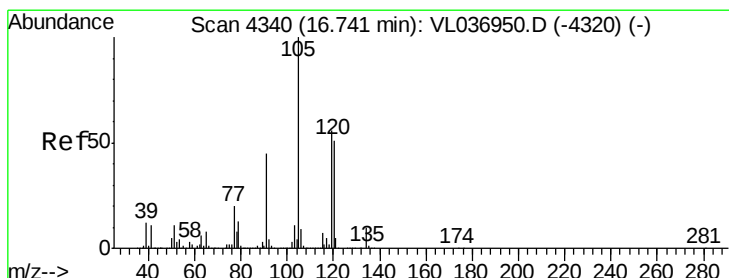
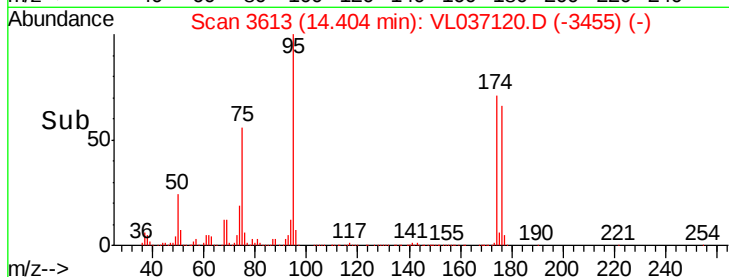
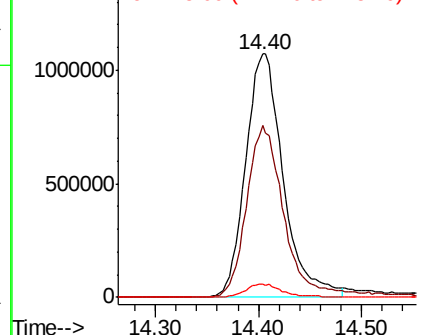
Tot Ion: 95 Resp: 2715533
 Ion Ratio Lower Upper
 95 100
 174 73.1 58.4 87.6
 175 5.3 4.4 6.6

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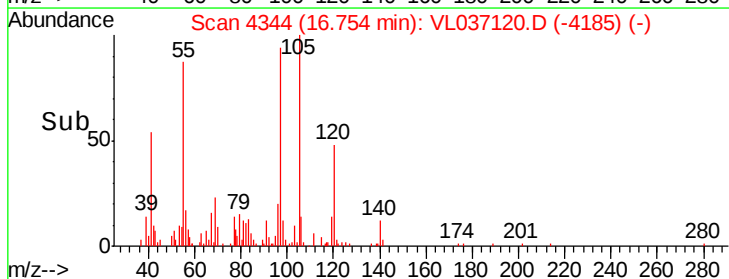
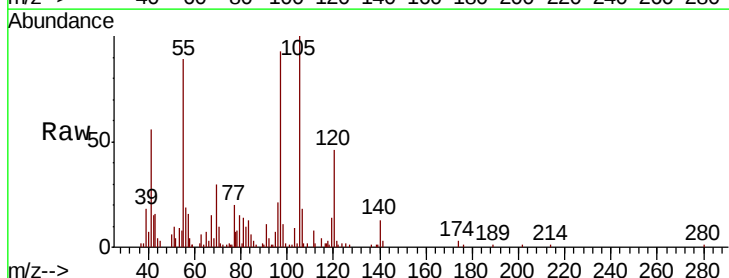
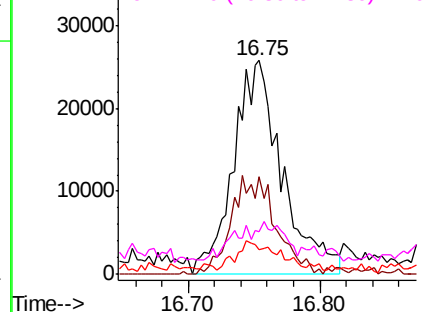
Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

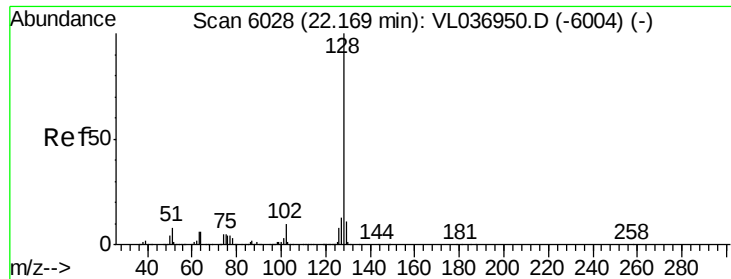


#74
 1,2,4-Trimethylbenzene
 Concen: 0.147 ppbv m
 RT: 16.75 min Scan# 4344
 Delta R.T. 0.01 min
 Lab File: VL037120.D
 Acq: 3 Jun 2021 3:33

Tgt Ion: 105 Resp: 66367
 Ion Ratio Lower Upper
 105 100
 120 45.7 40.6 61.0
 91 11.4 37.4 56.0#
 77 19.6 16.2 24.4

Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0





#79

Naphthalene

Concen: 0.101 ppbv m

RT: 22.20 min Scan# 6037

Delta R.T. 0.03 min

Lab File: VL037120.D

Acq: 3 Jun 2021 3:33

Instrument :

MSVOA_L

ClientSampleId :

SGS-18A

Tot Ion:	128	Resp:	35992
Ion Ratio	Lower	Upper	
128	100		
127	13.9	10.4	15.6
129	12.4	9.0	13.6

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