

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL033121\
 Data File : VL036599.D
 Acq On : 31 Mar 2021 13:04
 Operator : SY/AP
 Sample : M1840-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSB-IA-1DUP

Manual Integrations
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 4/2/2021 6:52:13 PM

Quant Time: Apr 03 05:29:22 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1274784	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3186637	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2876206	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2399121	10.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	51927	0.250	ppbv	99
3) Chlorodifluoromethane	2.98	51	502250m	2.109	ppbv	
4) Chloromethane	3.14	50	32503	0.386	ppbv #	88
9) Propene	3.02	41	63437	0.835	ppbv #	78
11) Trichlorofluoromethane	3.95	101	51868	0.245	ppbv	92
13) Ethanol	3.61	45	198484	21.951	ppbv	96
15) Acetone	3.85	43	639590	5.098	ppbv	98
19) Isopropyl Alcohol	3.99	45	68569m	0.993	ppbv	
20) Methylene Chloride	4.34	84	768307	13.079	ppbv	94
26) Hexane	5.68	57	1431533	10.341	ppbv #	47
34) 2-Butanone	5.25	43	62118m	0.399	ppbv	
35) Carbon Tetrachloride	7.02	117	16024m	0.065	ppbv	
36) Benzene	6.88	78	35612m	0.121	ppbv	
52) Tetrachloroethene	11.22	164	7230m	0.067	ppbv	
53) Toluene	9.81	91	828545	2.647	ppbv	100
59) m/p-Xylene	12.97	91	50586m	0.139	ppbv	
60) o-Xylene	13.70	91	39674m	0.112	ppbv	
64) n-propylbenzene	15.56	120	24144m	0.208	ppbv	
72) 4-Ethyltoluene	15.84	105	158075	0.409	ppbv	97
73) 1,3,5-Trimethylbenzene	16.00	105	173167m	0.480	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	281574	0.729	ppbv #	69

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

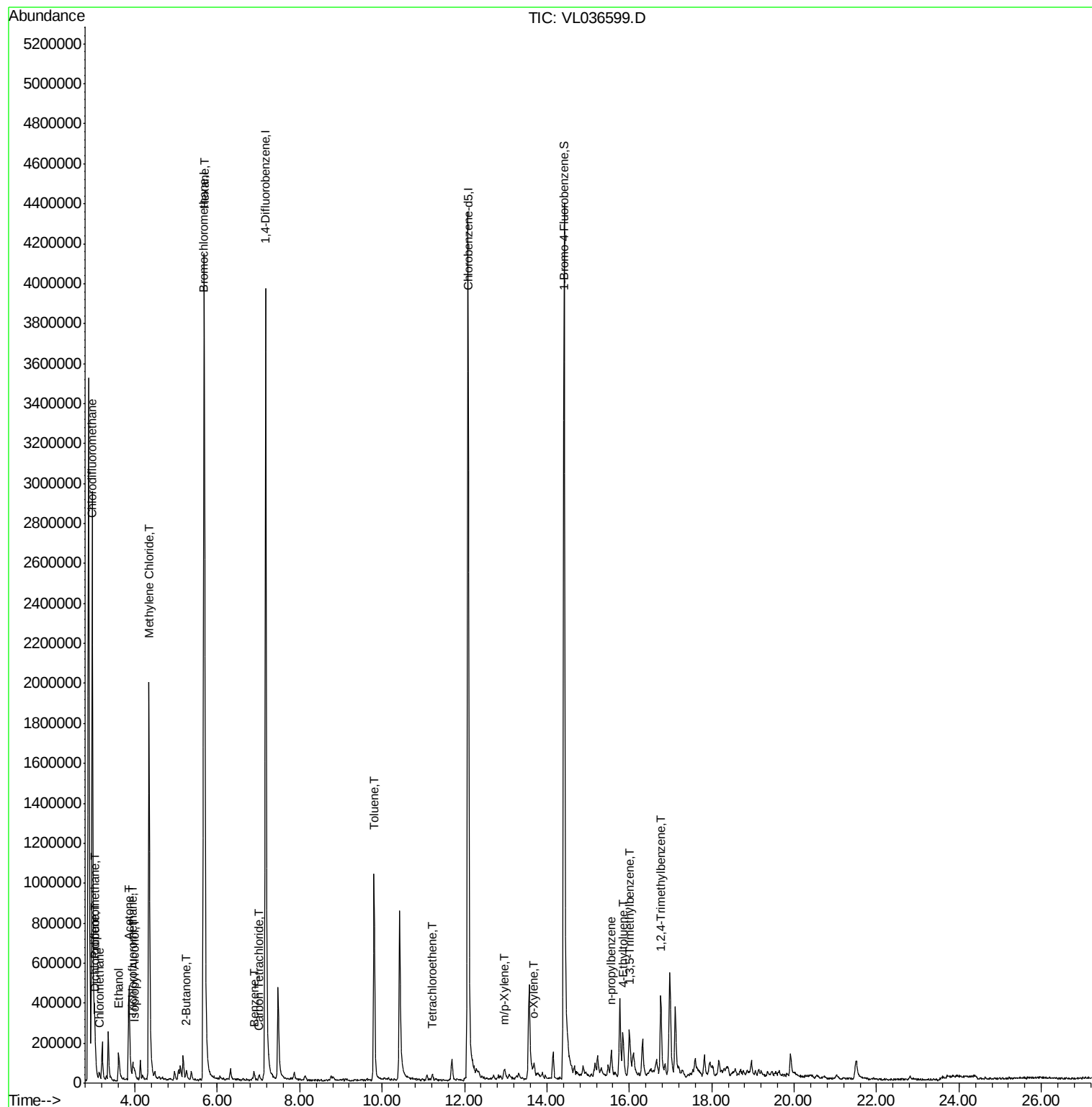
Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL033121\
Data File : VL036599.D
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Quant Time: Apr 03 05:29:22 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
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#1

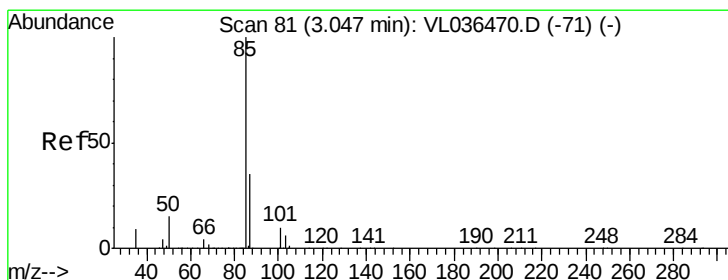
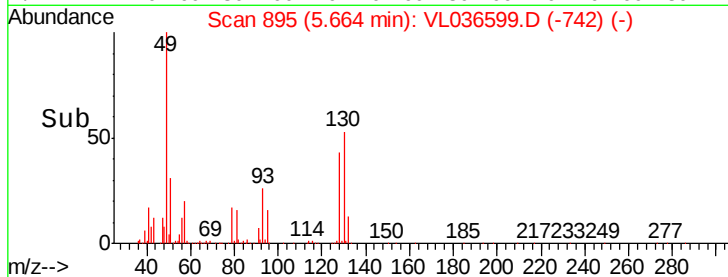
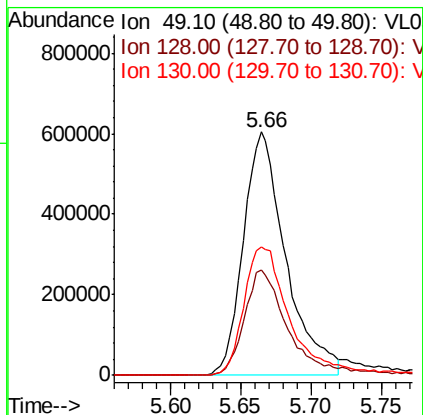
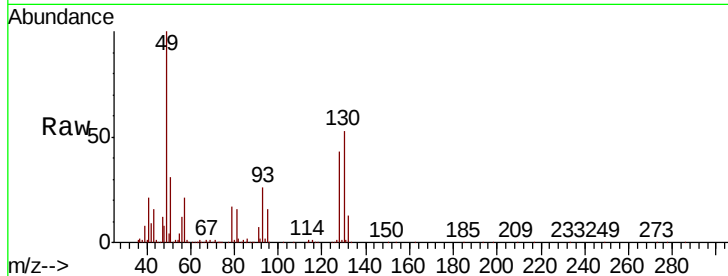
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 895
 Delta R.T. -0.01 min
 Lab File: VL036599.D
 Acq: 31 Mar 2021 13:04

Instrument :
 MSVOA_L
 ClientSampleId :
 SSB-IA-1DUP

Tot Ion	Ratio	Lower	Upper
49	100		
128	45.3	23.5	70.6
130	59.3	29.1	87.4

Manual Integrations
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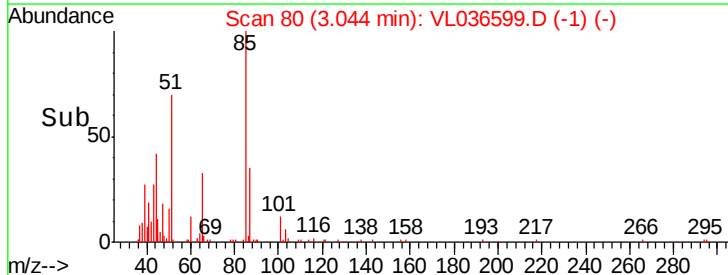
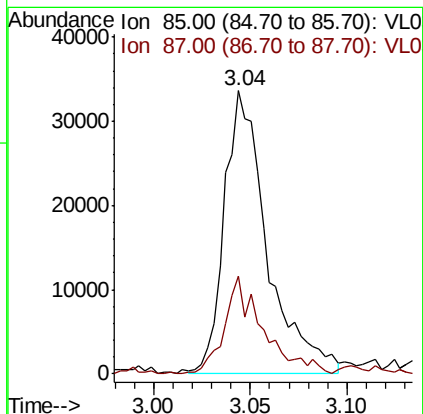
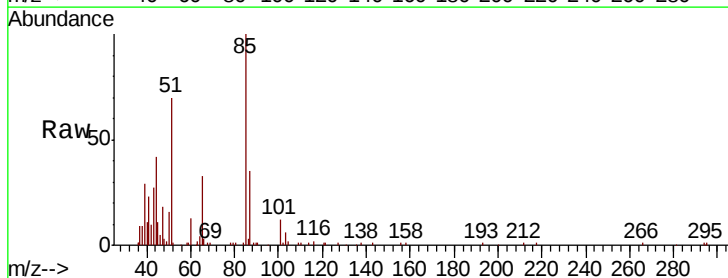
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#2

Dichlorodifluoromethane
 Concen: 0.250 ppbv
 RT: 3.04 min Scan# 80
 Delta R.T. -0.00 min
 Lab File: VL036599.D
 Acq: 31 Mar 2021 13:04

Tgt Ion	Ratio	Lower	Upper
85	100		
87	34.5	27.8	41.8





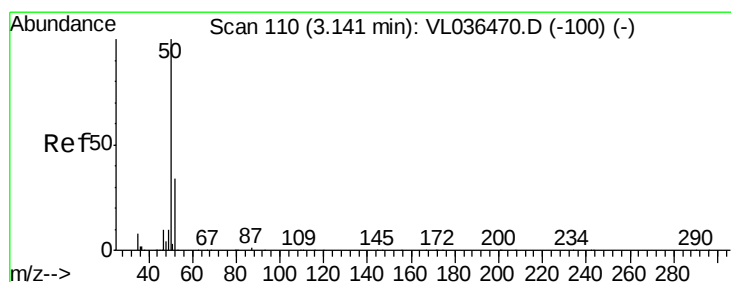
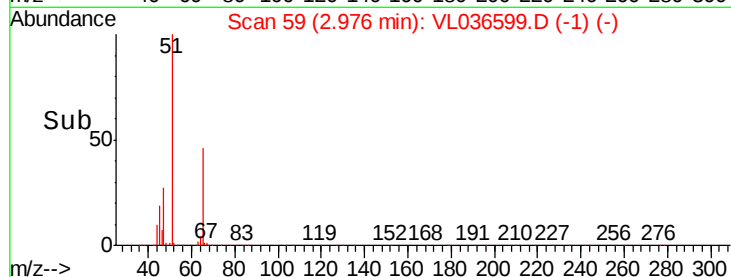
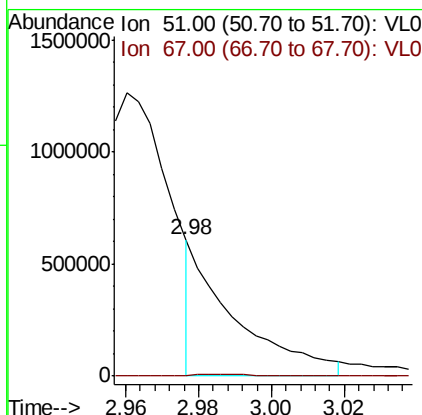
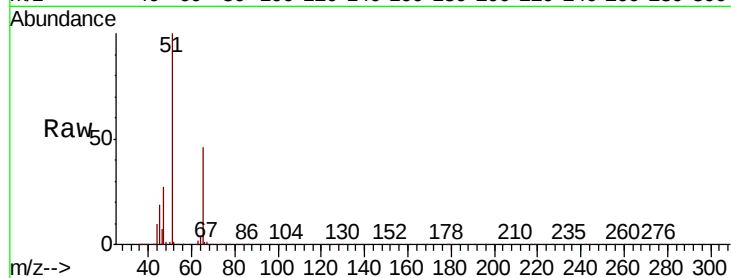
#3
Chlorodifluoromethane
Concen: 2.109 ppbv
RT: 2.98 min Scan# 59
Delta R.T. -0.01 min
Lab File: VL036599.D
Acq: 31 Mar 2021 13:04

Instrument :
MSVOA_L
ClientSampleId :
SSB-IA-1DUP

Tot Ion	Ratio	Lower	Upper
51	100		
67	2.4	14.7	22.1#

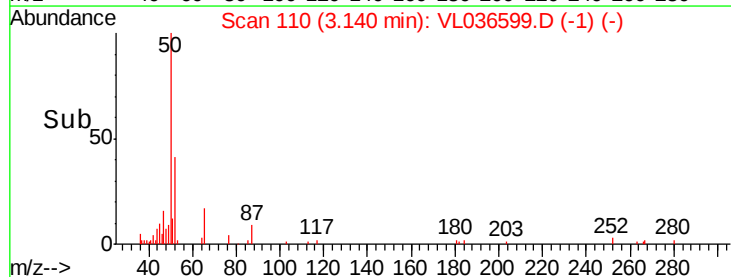
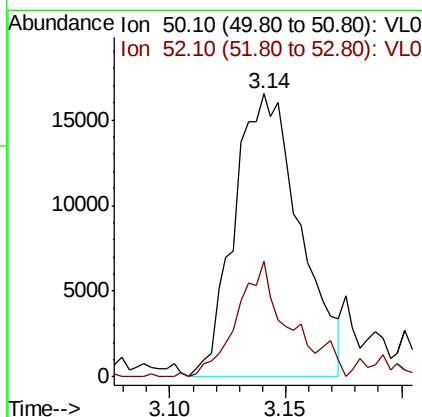
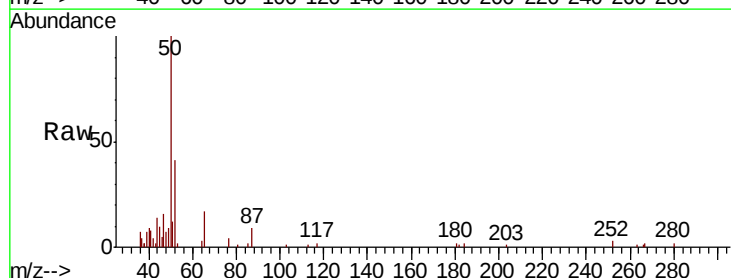
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#4
Chloromethane
Concen: 0.386 ppbv
RT: 3.14 min Scan# 110
Delta R.T. -0.00 min
Lab File: VL036599.D
Acq: 31 Mar 2021 13:04

Tgt Ion	Ratio	Lower	Upper
50	100		
52	40.9	27.0	40.6#





#9

Propene

Concen: 0.835 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL036599.D

Acq: 31 Mar 2021 13:04

Instrument :

MSVOA_L

ClientSampleId :

SSB-IA-1DUP

Tot Ion: 41 Resp: 63437

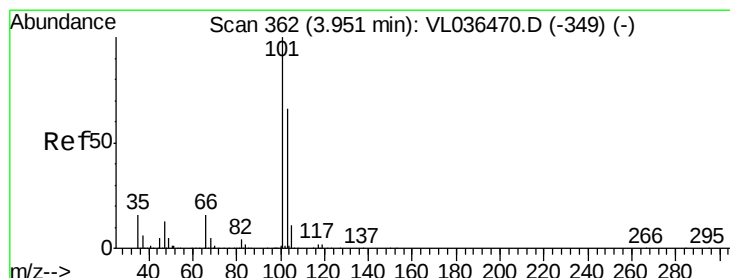
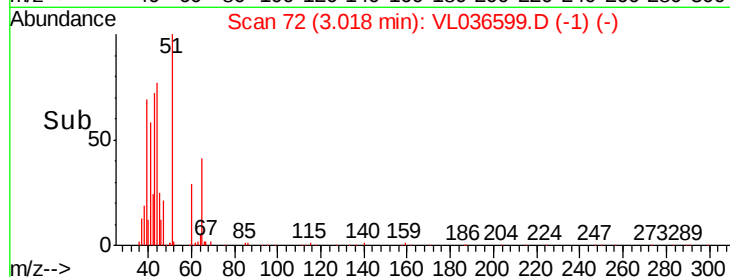
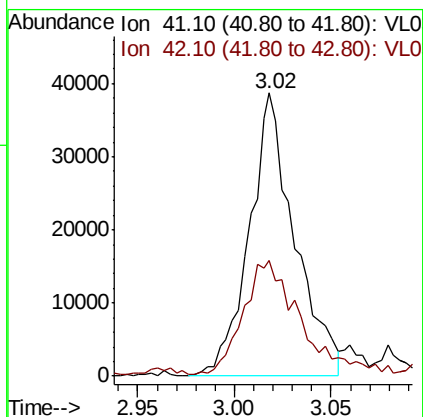
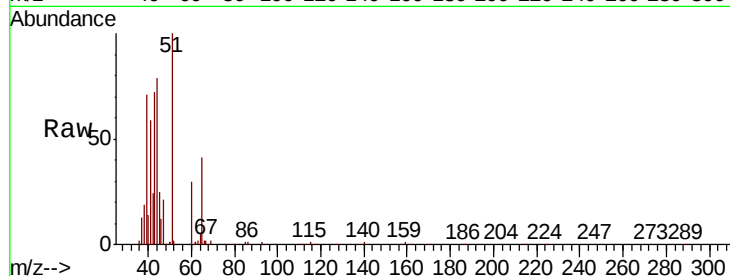
Ion Ratio Lower Upper

41 100

42 52.8 57.0 85.4#

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#11

Trichlorofluoromethane

Concen: 0.245 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.00 min

Lab File: VL036599.D

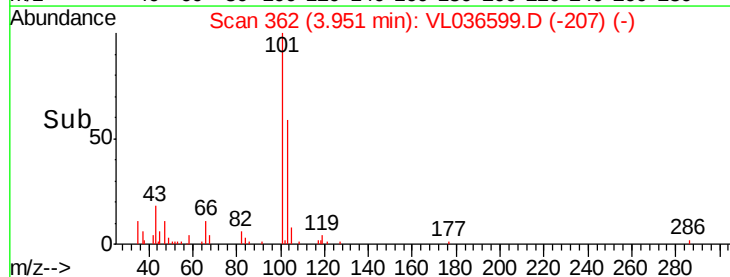
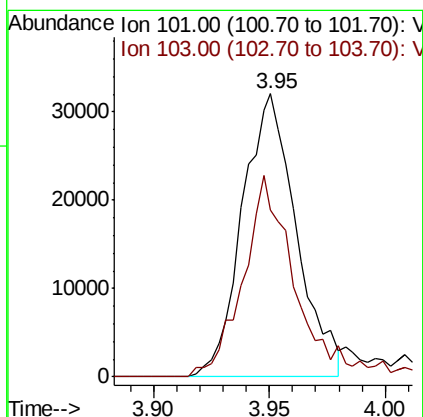
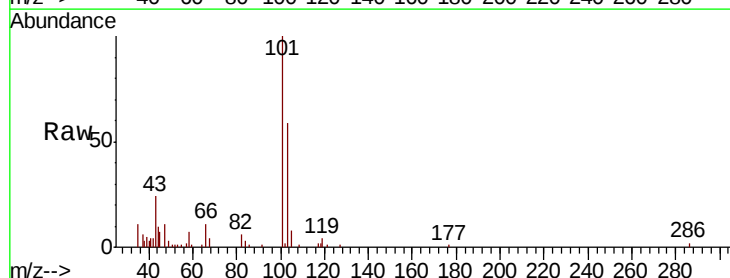
Acq: 31 Mar 2021 13:04

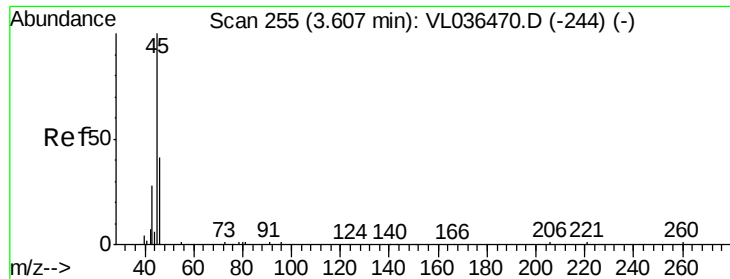
Tgt Ion: 101 Resp: 51868

Ion Ratio Lower Upper

101 100

103 59.2 52.5 78.7





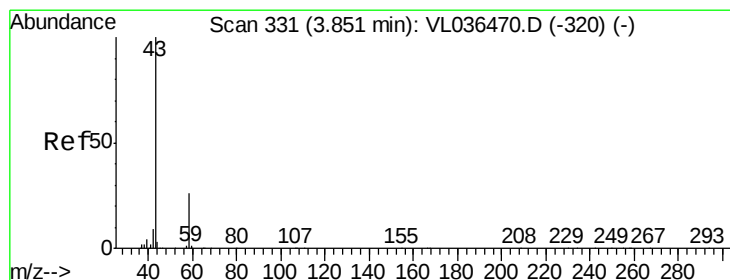
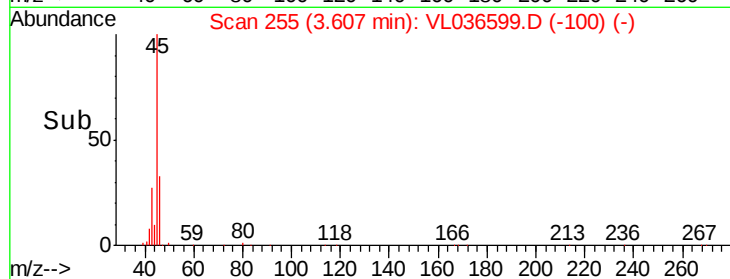
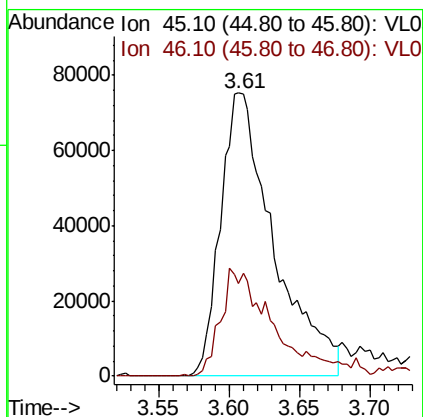
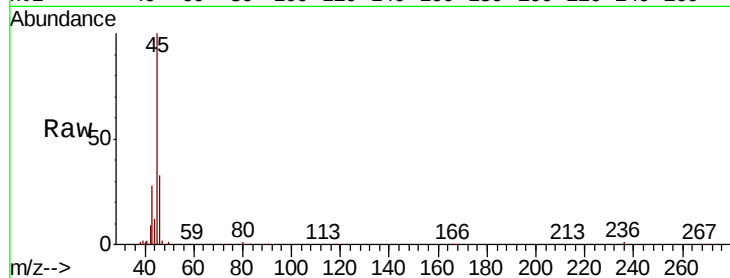
#13
Ethanol
Concen: 21.951 ppbv
RT: 3.61 min Scan# 255
Delta R.T. -0.00 min
Lab File: VL036599.D
Acq: 31 Mar 2021 13:04

Instrument :
MSVOA_L
ClientSampleId :
SSB-IA-1DUP

Tot Ion	45	46	Ratio	Lower	Upper
Resp	198484				
Ion	100	39.0			
Ratio			16.6		66.2

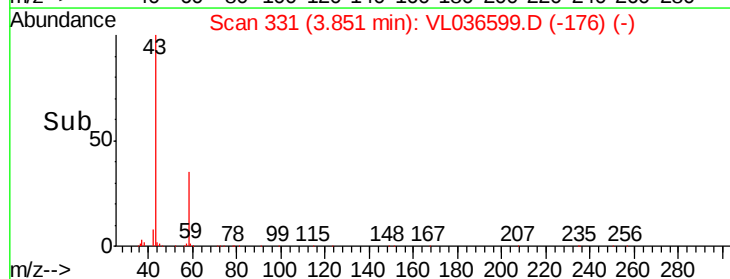
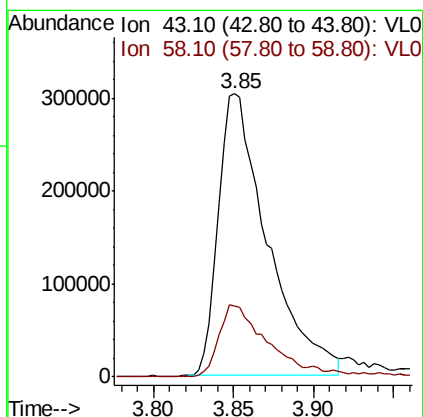
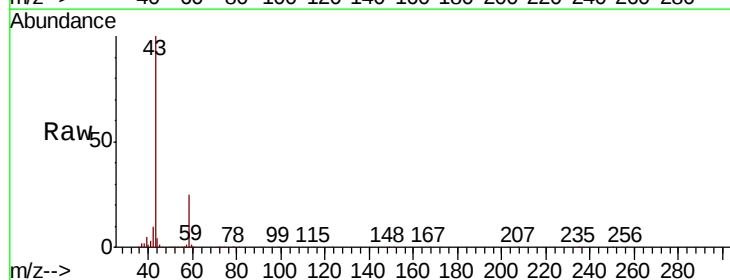
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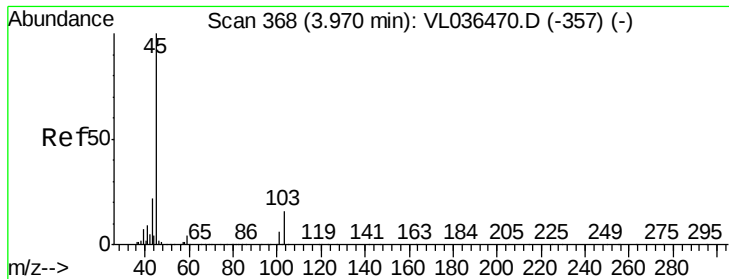
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#15
Acetone
Concen: 5.098 ppbv
RT: 3.85 min Scan# 331
Delta R.T. -0.00 min
Lab File: VL036599.D
Acq: 31 Mar 2021 13:04

Tgt Ion	43	58	Ratio	Lower	Upper
Resp	639590				
Ion	100	27.8			
Ratio			21.2		31.8





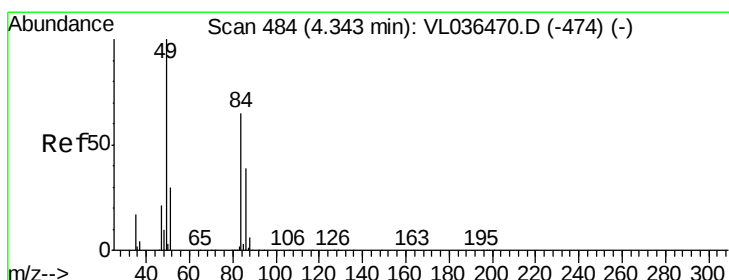
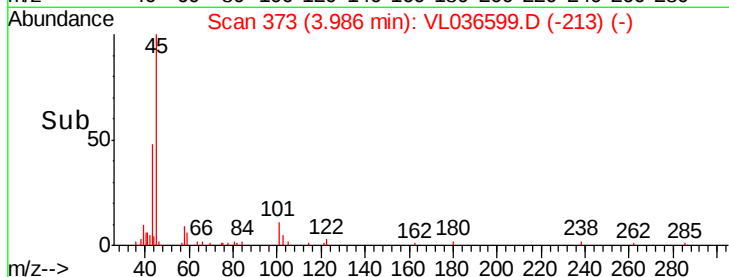
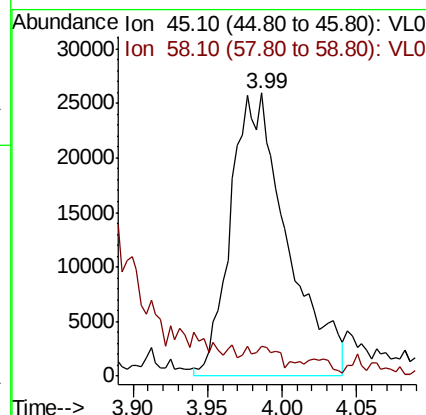
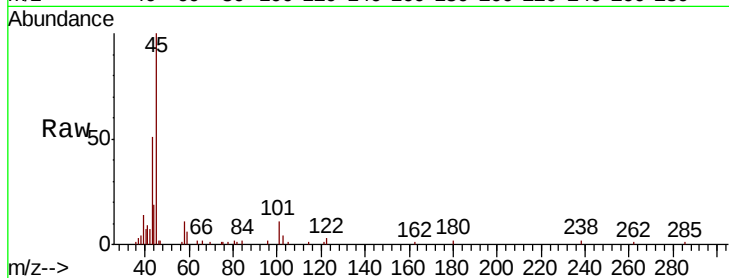
#19
Isopropyl Alcohol
Concen: 0.993 ppbv m
RT: 3.99 min Scan# 373
Delta R.T. 0.02 min
Lab File: VL036599.D
Acq: 31 Mar 2021 13:04

Instrument :
MSVOA_L
ClientSampleId :
SSB-IA-1DUP

Tot Ion: 45 Resp: 68569
Ion Ratio Lower Upper
45 100
58 17.5 2.9 4.3#

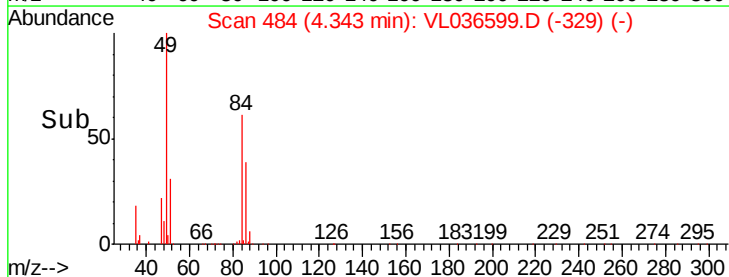
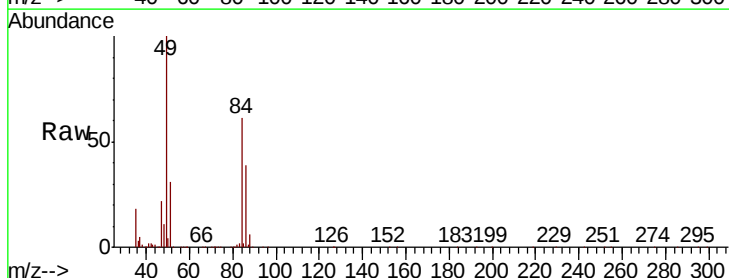
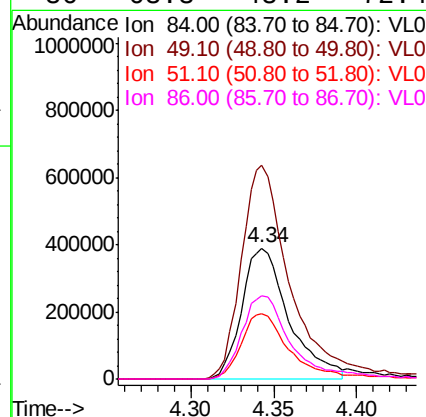
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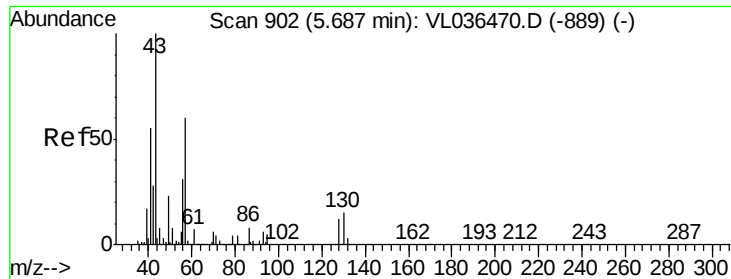
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#20
Methylene Chloride
Concen: 13.079 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.00 min
Lab File: VL036599.D
Acq: 31 Mar 2021 13:04

Tgt Ion: 84 Resp: 768307
Ion Ratio Lower Upper
84 100
49 162.8 122.9 184.3
51 49.7 36.9 55.3
86 63.3 48.2 72.4





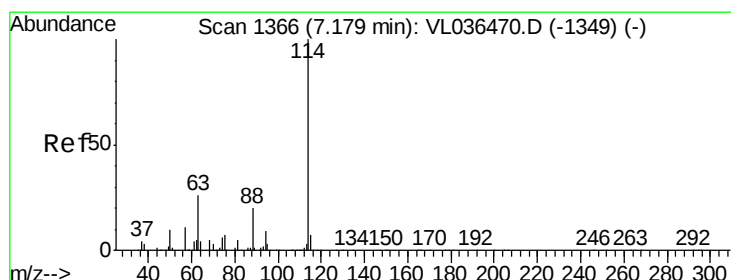
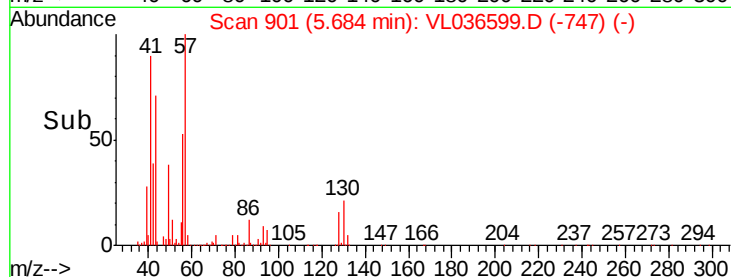
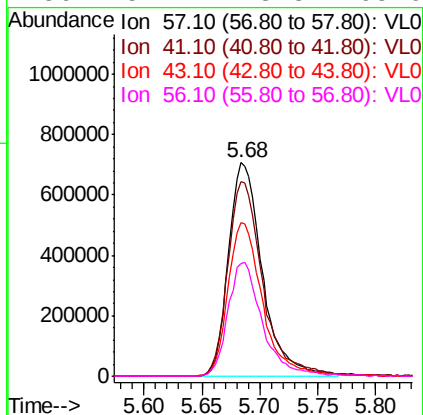
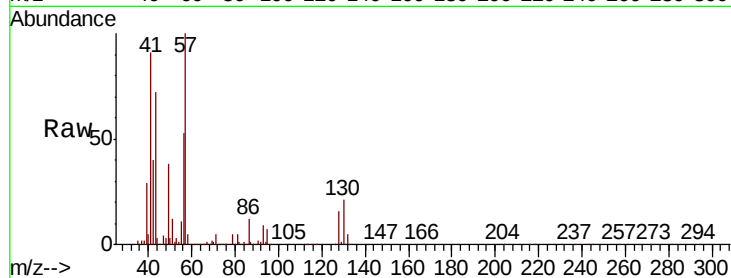
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Hexane
Concen: 10.341 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036599.D
Acq: 31 Mar 2021 13:04

Instrument :
MSVOA_L
ClientSampleId :
SSB-IA-1DUP

Tot Ion	57	Resp	1431533
Ion	Ratio	Lower	Upper
57	100		
41	94.8	77.2	115.8
43	73.9	173.8	260.6#
56	54.7	43.8	65.6

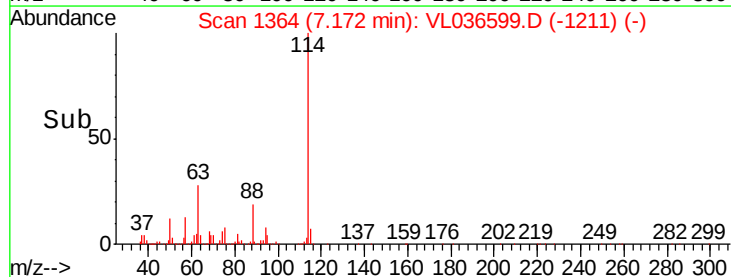
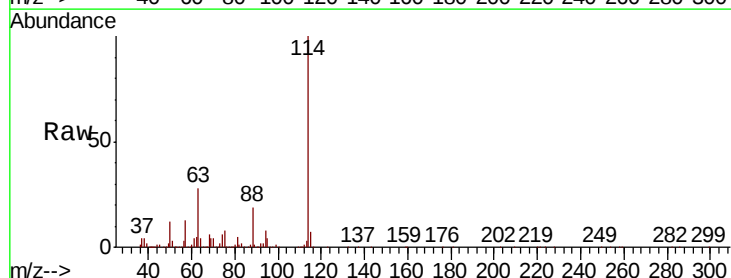
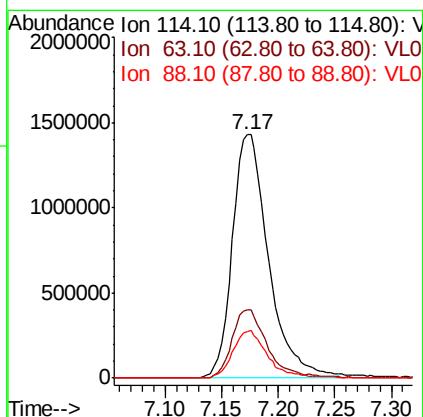
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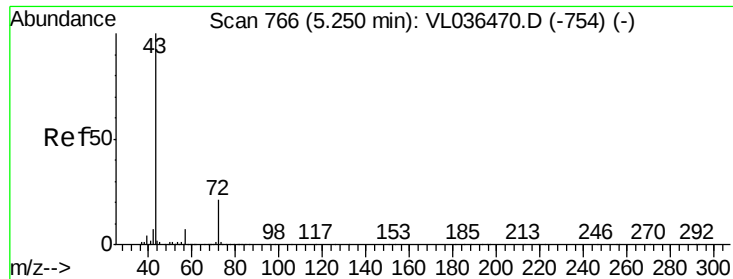
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.01 min
Lab File: VL036599.D
Acq: 31 Mar 2021 13:04

Tgt Ion	114	Resp	3186637
Ion	Ratio	Lower	Upper
114	100		
63	27.9	22.4	33.6
88	19.1	15.4	23.0





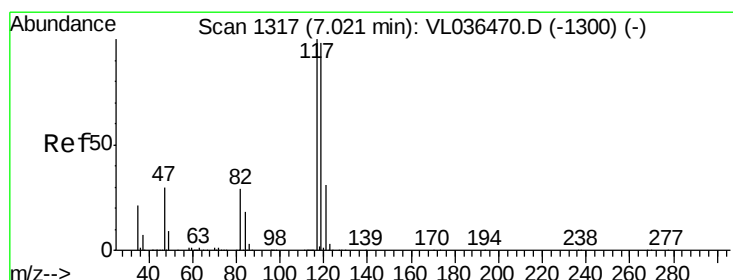
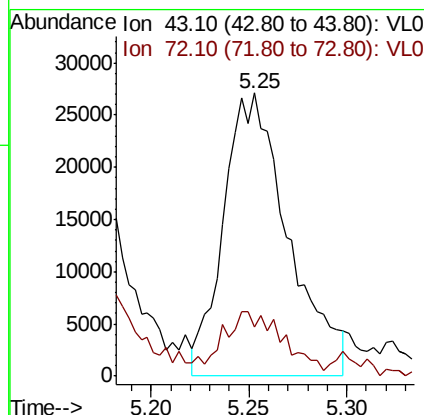
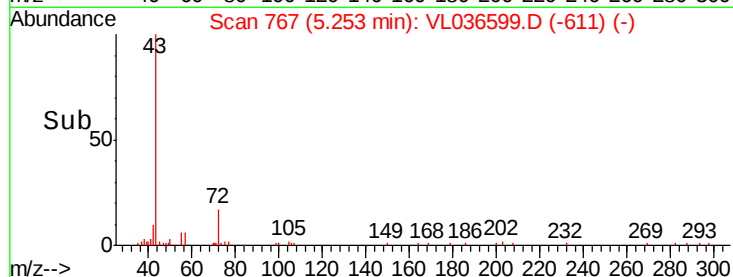
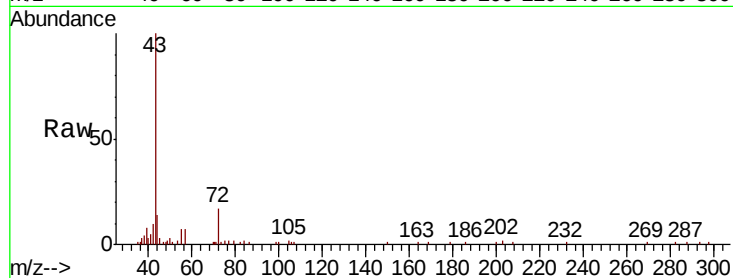
#34
2-Butanone
Concen: 0.399 ppbv m
RT: 5.25 min Scan# 767
Delta R.T. 0.00 min
Lab File: VL036599.D
Acq: 31 Mar 2021 13:04

Instrument :
MSVOA_L
ClientSampleId :
SSB-IA-1DUP

Tot Ion	43	Resp	62118
Ion Ratio	Lower	Upper	
43	100		
72	24.6	17.0	25.6

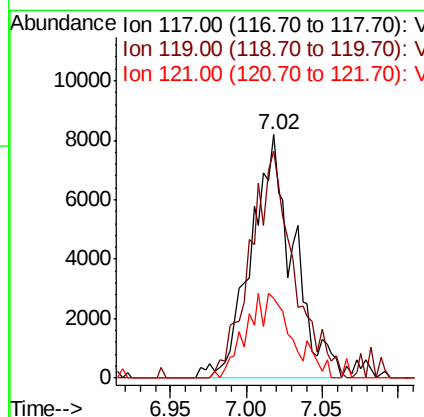
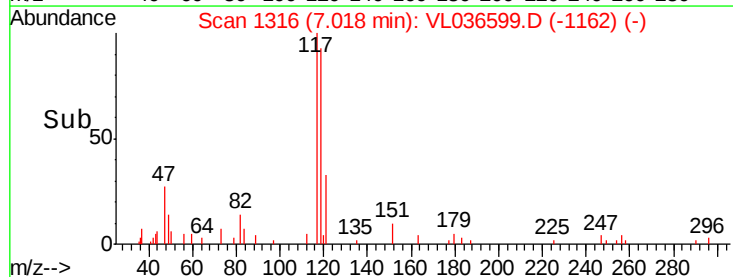
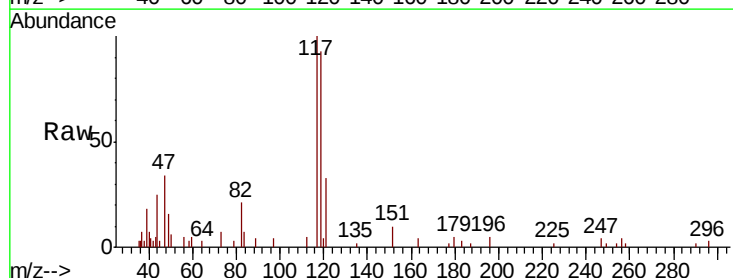
Manual Integrations
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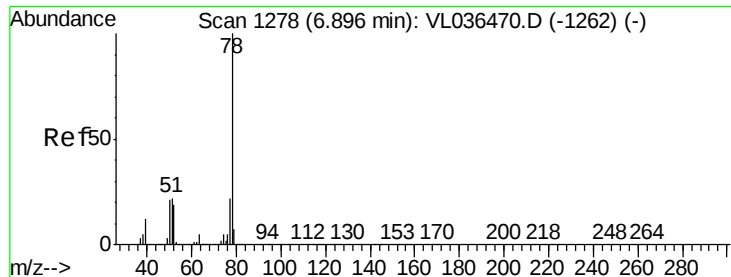
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#35
Carbon Tetrachloride
Concen: 0.065 ppbv m
RT: 7.02 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VL036599.D
Acq: 31 Mar 2021 13:04

Tgt Ion	117	Resp	16024
Ion Ratio	Lower	Upper	
117	100		
119	93.4	78.2	117.2
121	32.9	24.5	36.7





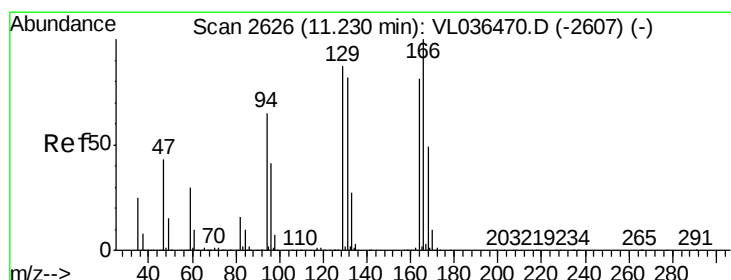
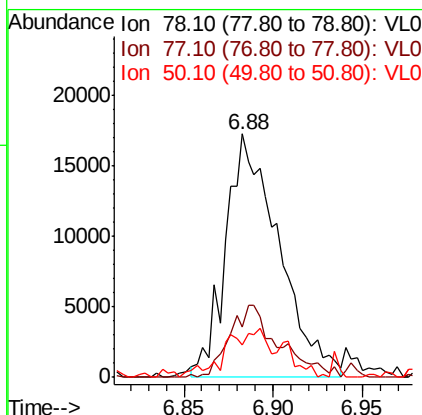
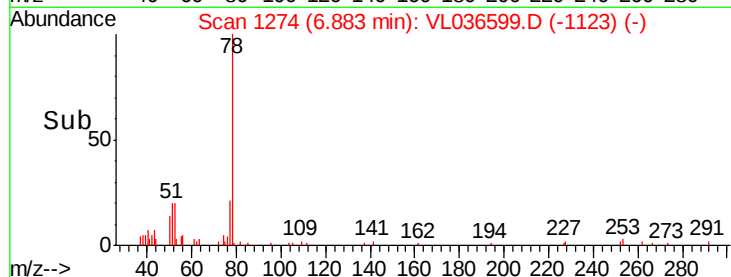
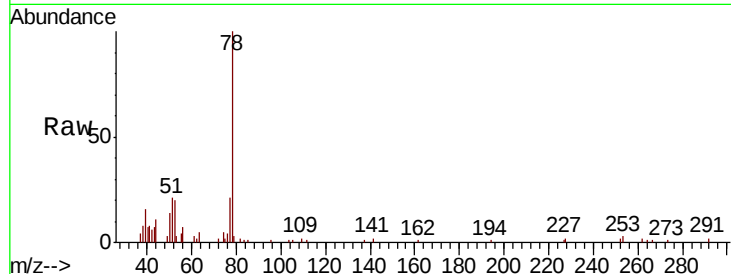
#36
Benzene
Concen: 0.121 ppbv m
RT: 6.88 min Scan# 1274
Delta R.T. -0.01 min
Lab File: VL036599.D
Acq: 31 Mar 2021 13:04

Instrument :
MSVOA_L
ClientSampleId :
SSB-IA-1DUP

Tot Ion	Ratio	Lower	Upper
78	100		
77	20.7	18.0	27.0
50	13.5	16.5	24.7#

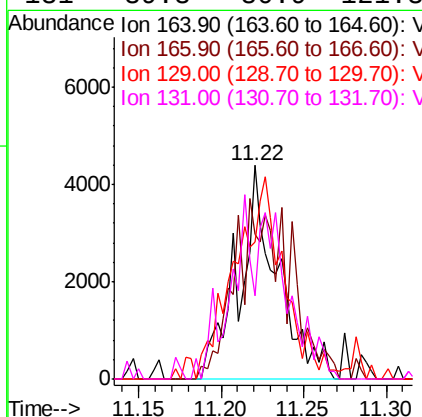
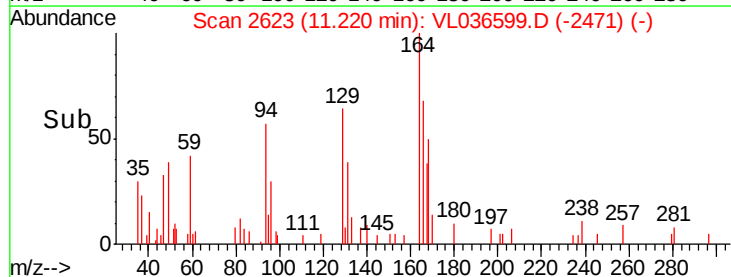
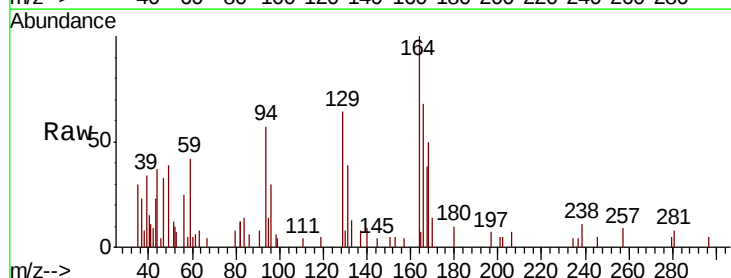
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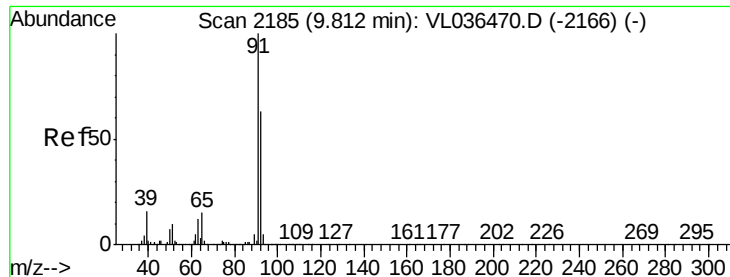
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#52
Tetrachloroethene
Concen: 0.067 ppbv m
RT: 11.22 min Scan# 2623
Delta R.T. -0.01 min
Lab File: VL036599.D
Acq: 31 Mar 2021 13:04

Tgt Ion	Ratio	Lower	Upper
164	100		
166	68.0	98.3	147.5#
129	63.9	85.8	128.8#
131	39.3	80.9	121.3#





#53

Toluene

Concen: 2.647 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL036599.D

Acq: 31 Mar 2021 13:04

Instrument :

MSVOA_L

ClientSampleId :

SSB-IA-1DUP

Tot Ion: 91 Resp: 828545

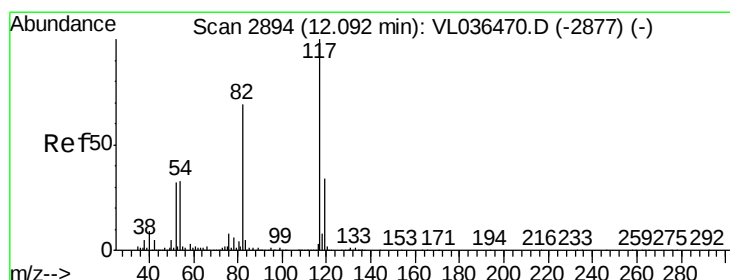
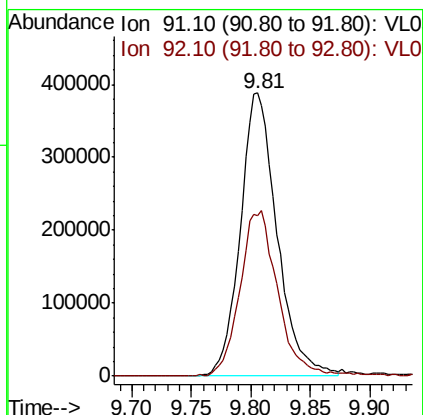
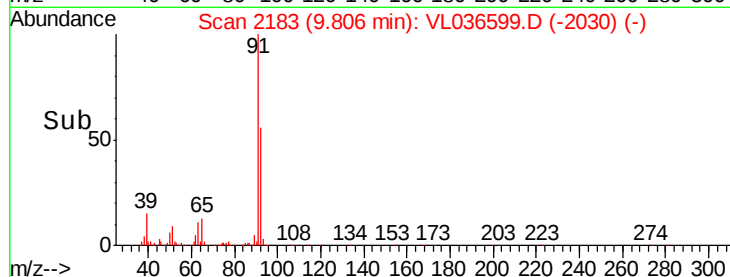
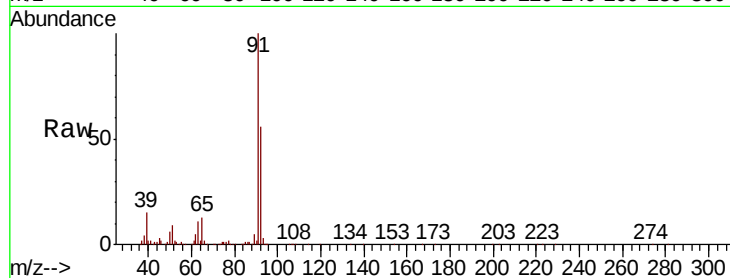
Ion Ratio Lower Upper

91 100

92 61.2 48.8 73.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL036599.D

Acq: 31 Mar 2021 13:04

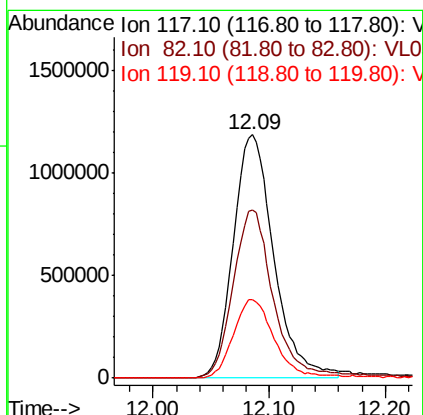
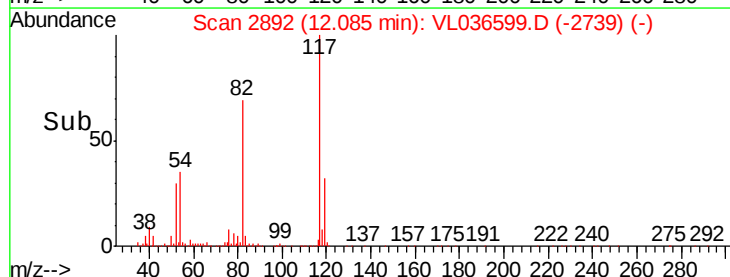
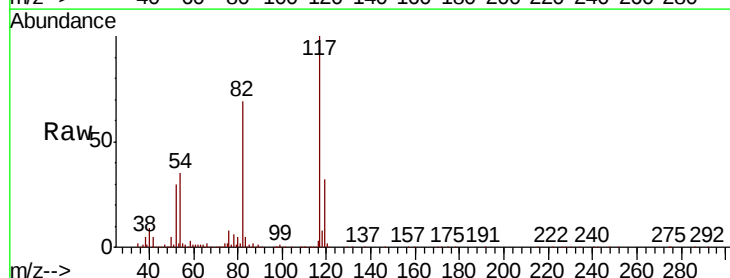
Tgt Ion: 117 Resp: 2876206

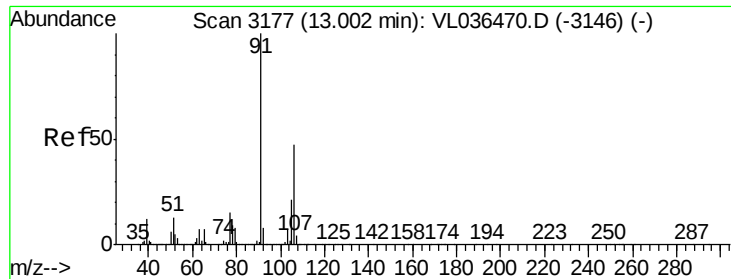
Ion Ratio Lower Upper

117 100

82 70.1 57.4 86.0

119 33.2 47.4 71.0#





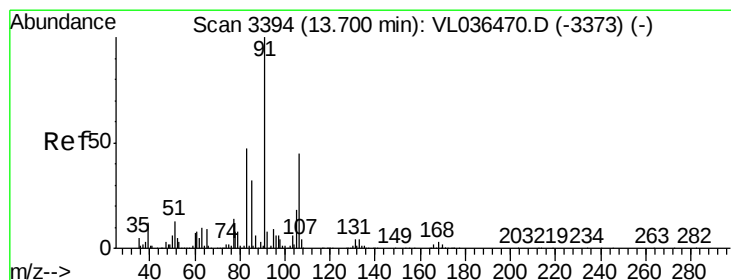
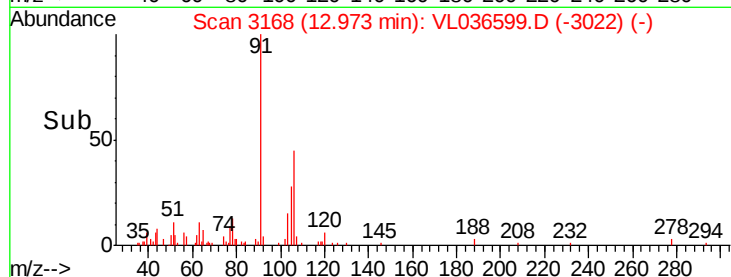
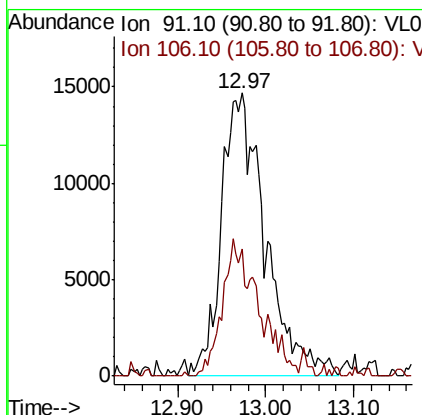
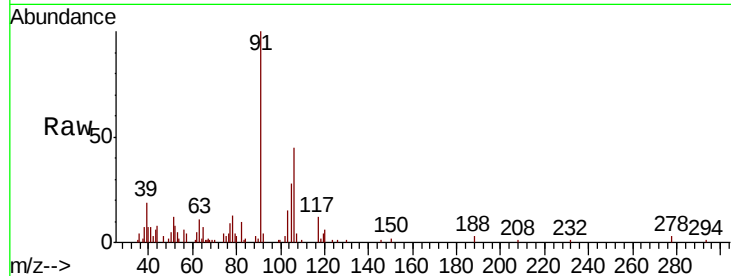
#59
m/p-Xylene
Concen: 0.139 ppbv m
RT: 12.97 min Scan# 3168
Delta R.T. -0.03 min
Lab File: VL036599.D
Acq: 31 Mar 2021 13:04

Instrument :
MSVOA_L
ClientSampleId :
SSB-IA-1DUP

Tot Ion: 91 Resp: 50586
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

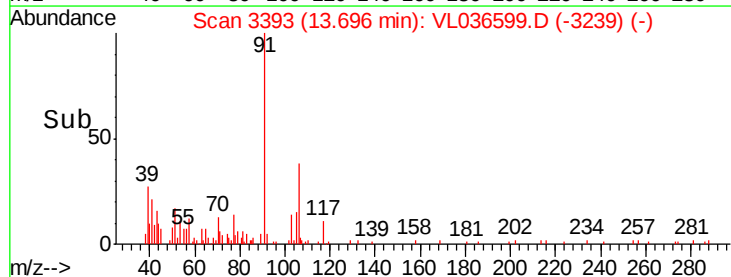
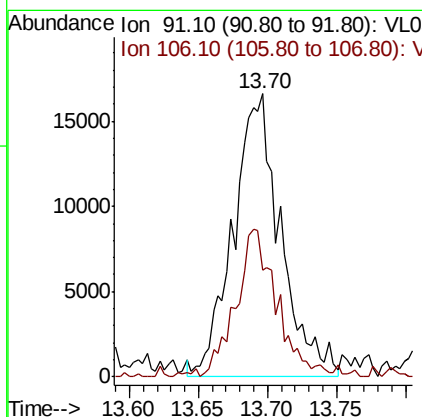
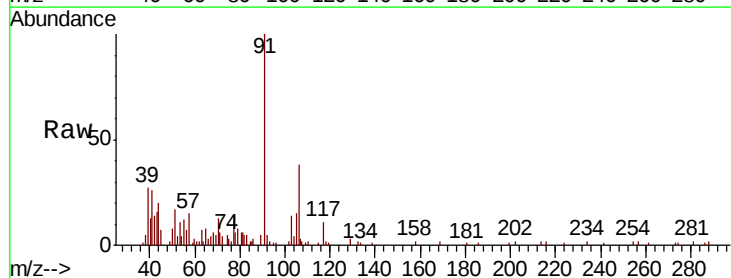
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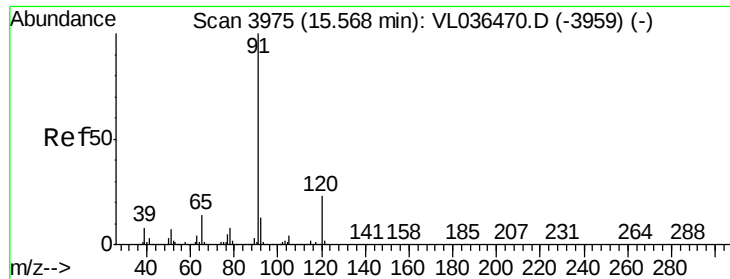
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#60
o-Xylene
Concen: 0.112 ppbv m
RT: 13.70 min Scan# 3393
Delta R.T. -0.00 min
Lab File: VL036599.D
Acq: 31 Mar 2021 13:04

Tgt Ion: 91 Resp: 39674
Ion Ratio Lower Upper
91 100
106 46.6 22.3 66.9





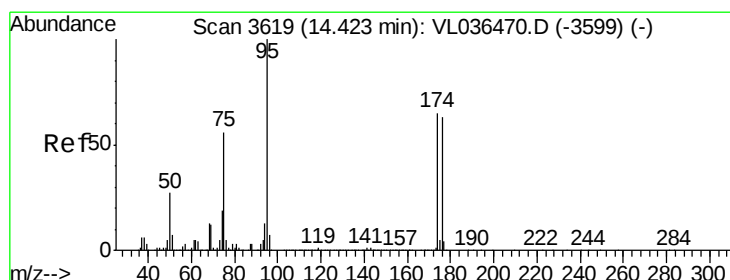
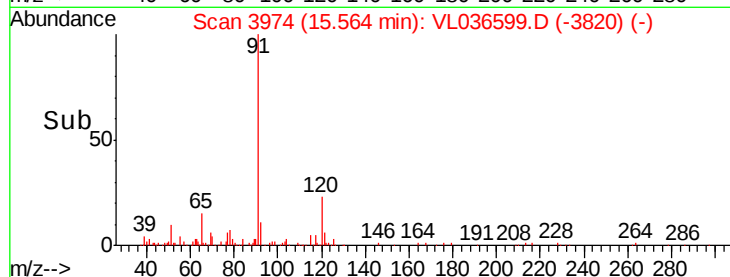
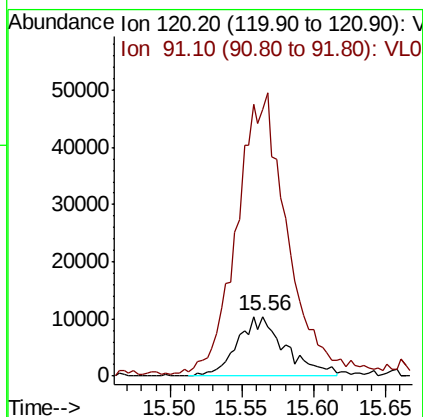
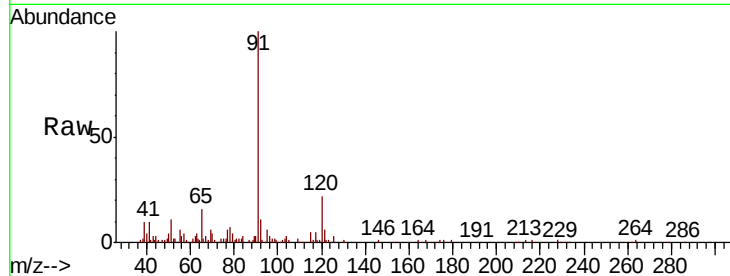
#64
n-propylbenzene
Concen: 0.208 ppbv m
RT: 15.56 min Scan# 3974
Delta R.T. -0.00 min
Lab File: VL036599.D
Acq: 31 Mar 2021 13:04

Instrument :
MSVOA_L
ClientSampleId :
SSB-IA-1DUP

Tot Ion:120 Resp: 24144
Ion Ratio Lower Upper
120 100
91 0.0 377.4 566.2#

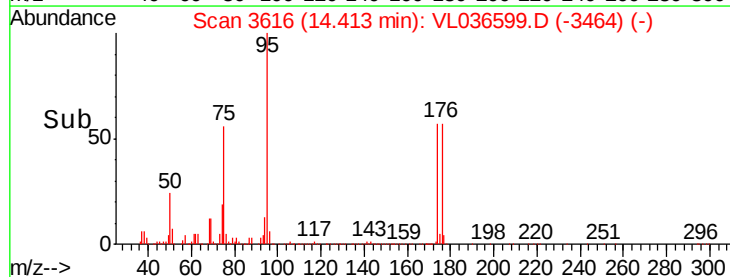
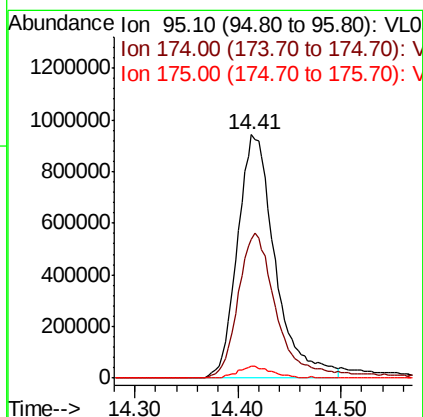
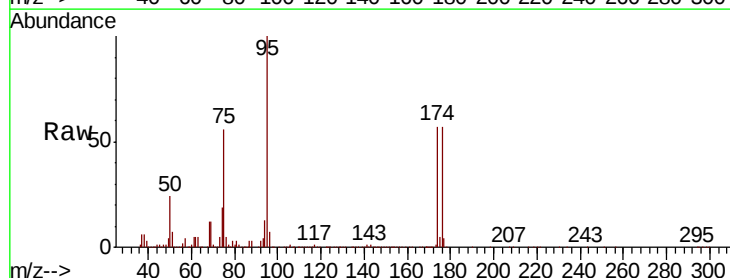
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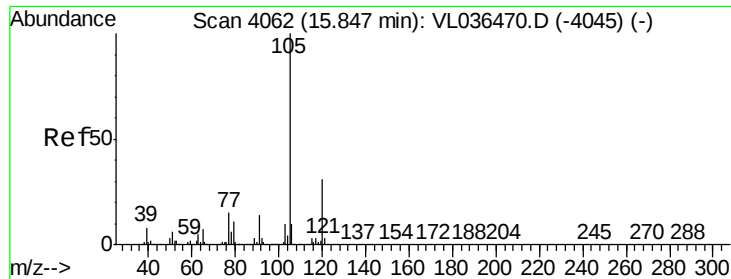
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.466 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. -0.01 min
Lab File: VL036599.D
Acq: 31 Mar 2021 13:04

Tgt Ion: 95 Resp: 2399121
Ion Ratio Lower Upper
95 100
174 63.0 51.0 76.6
175 4.8 3.9 5.9





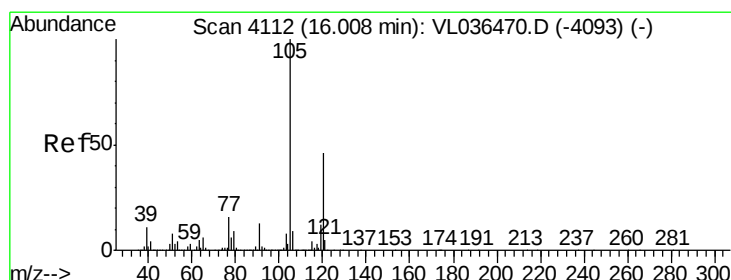
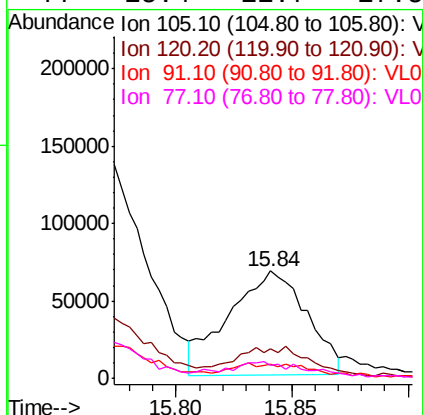
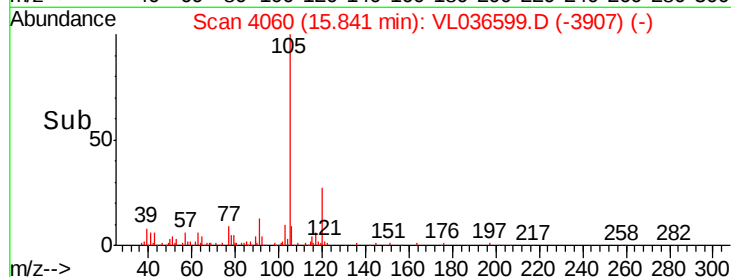
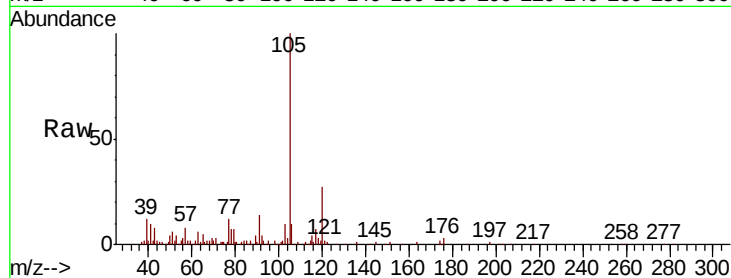
#72
4-Ethyltoluene
Concen: 0.409 ppbv
RT: 15.84 min Scan# 4060
Delta R.T. -0.01 min
Lab File: VL036599.D
Acq: 31 Mar 2021 13:04

Instrument :
MSVOA_L
ClientSampleId :
SSB-IA-1DUP

Tot Ion	Ion	Ratio	Resp	Lower	Upper
105	105	100	158075		
120	120	32.1		24.0	36.0
91	91	14.6		11.0	16.4
77	77	15.4		11.7	17.5

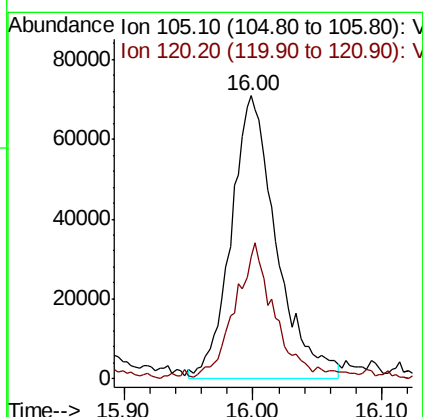
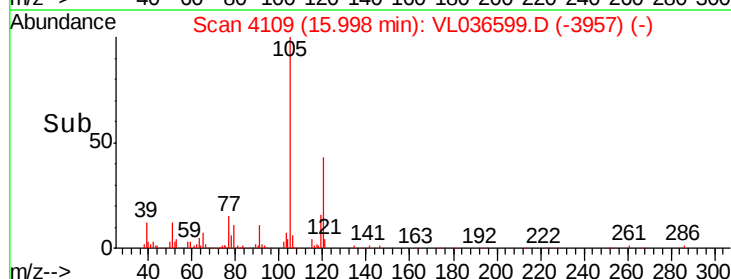
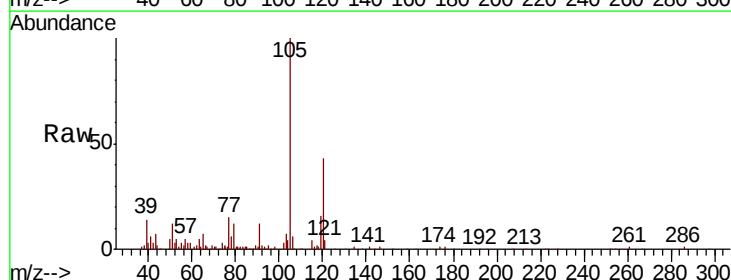
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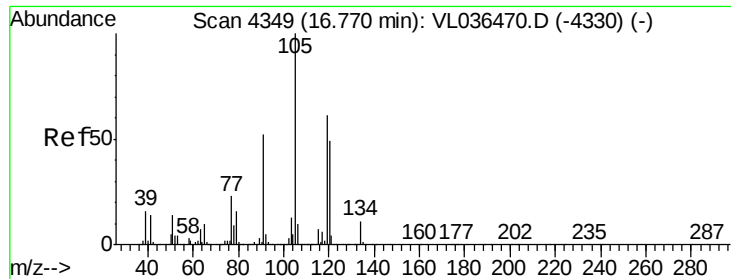
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#73
1,3,5-Trimethylbenzene
Concen: 0.480 ppbv m
RT: 16.00 min Scan# 4109
Delta R.T. -0.01 min
Lab File: VL036599.D
Acq: 31 Mar 2021 13:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	105	100	173167		
120	120	42.9		36.6	54.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.729 ppbv
 RT: 16.76 min Scan# 4347
 Delta R.T. -0.01 min
 Lab File: VL036599.D
 Acq: 31 Mar 2021 13:04

Instrument :
 MSVOA_L
 ClientSampleId :
 SSB-IA-1DUP

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	41.1	39.2	58.8
91	15.3	42.6	64.0#
77	12.0	18.6	28.0#

Manual Integrations
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