

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033121\
 Data File : VL036598.D
 Acq On : 31 Mar 2021 12:23
 Operator : SY/AP
 Sample : M1840-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSB-IA-1

Manual Integrations
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 4/2/2021 6:52:09 PM

Quant Time: Apr 01 22:26:43 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 2
 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	1431172	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3379158	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2838850	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2360881	10.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	52001	0.223	ppbv	99
4) Chloromethane	3.14	50	35348m	0.374	ppbv	
9) Propene	3.02	41	65398	0.767	ppbv #	72
11) Trichlorofluoromethane	3.95	101	50760m	0.213	ppbv	
13) Ethanol	3.61	45	143672m	14.153	ppbv	
15) Acetone	3.85	43	566255	4.020	ppbv	97
19) Isopropyl Alcohol	3.98	45	66760m	0.862	ppbv	
20) Methylene Chloride	4.34	84	508399	7.709	ppbv	95
26) Hexane	5.68	57	1108316	7.132	ppbv #	47
34) 2-Butanone	5.25	43	67122m	0.407	ppbv	
35) Carbon Tetrachloride	7.02	117	15842m	0.061	ppbv	
36) Benzene	6.89	78	35561m	0.114	ppbv	
52) Tetrachloroethene	11.22	164	8489m	0.074	ppbv	
53) Toluene	9.80	91	859022	2.588	ppbv	99
59) m/p-Xylene	12.97	91	50469m	0.140	ppbv	
60) o-Xylene	13.69	91	43856m	0.126	ppbv	
64) n-propylbenzene	15.55	120	22915m	0.200	ppbv	
72) 4-Ethyltoluene	15.84	105	152715	0.400	ppbv #	92
73) 1,3,5-Trimethylbenzene	16.00	105	180156m	0.506	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	287796	0.755	ppbv #	66

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

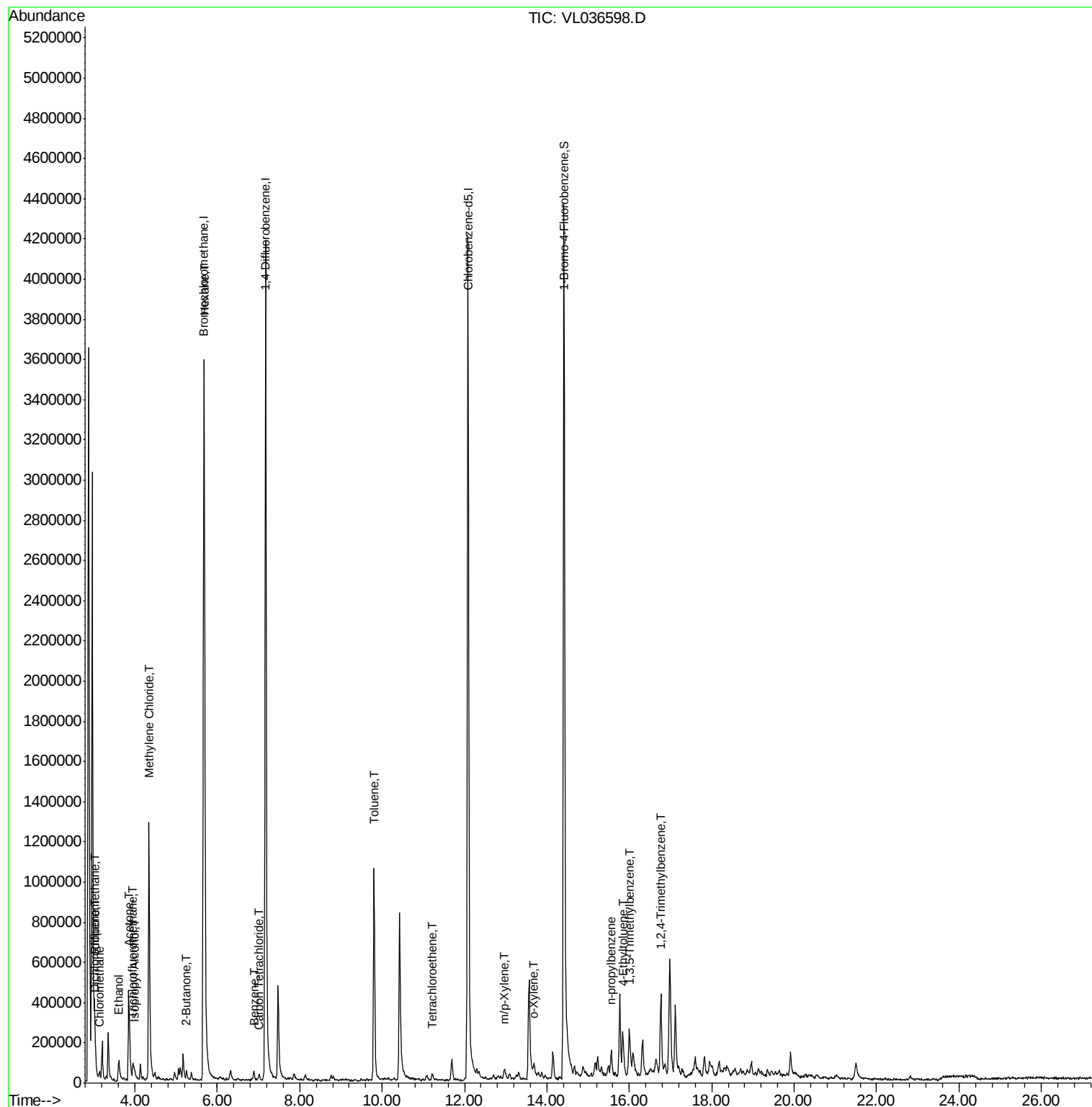
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL033121\
Data File : VL036598.D
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Operator : SY/AP
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

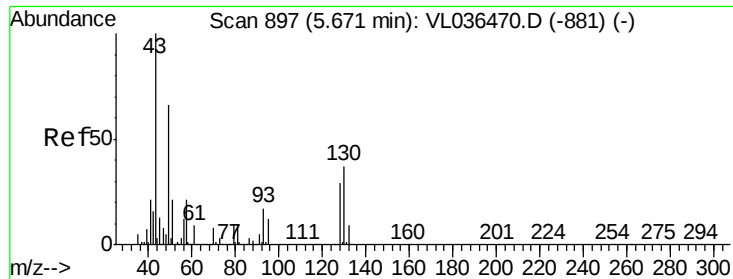
Instrument :
MSVOA_L
ClientSampleId :
SSB-IA-1

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Quant Time: Apr 01 22:26:43 2021
Quant Method : Z:\V0ASRV\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
Response via : Initial Calibration





#1

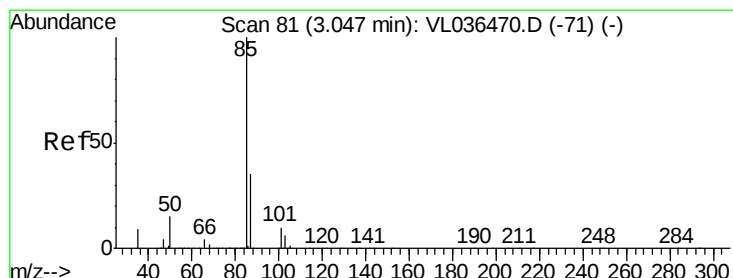
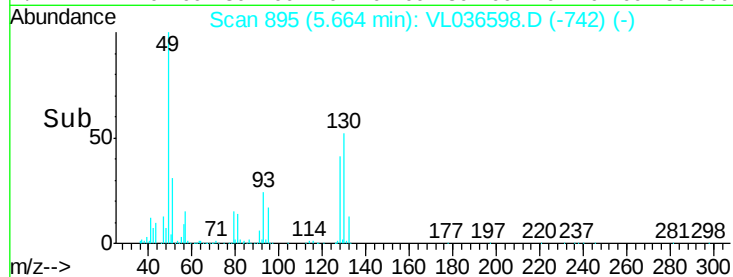
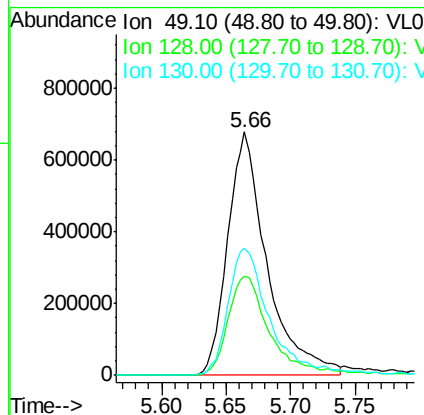
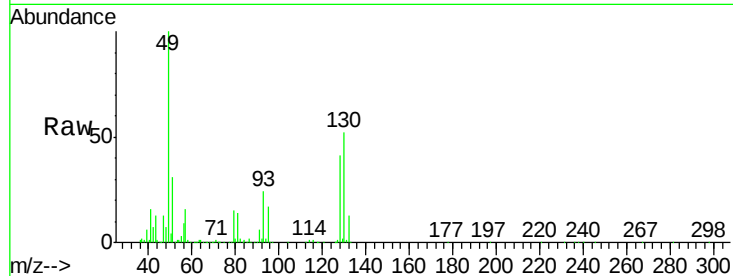
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

Instrument :
MSVOA_L
ClientSampled :
SSB-IA-1

Tot Ion: 49 Resp: 1431172
Ion Ratio Lower Upper
49 100
128 45.3 23.5 70.6
130 57.6 29.1 87.4

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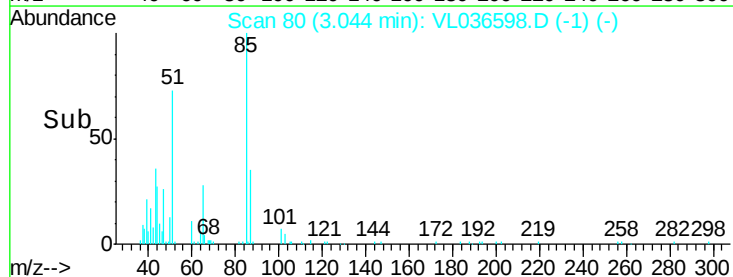
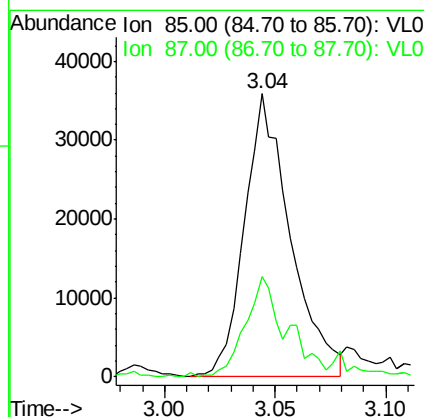
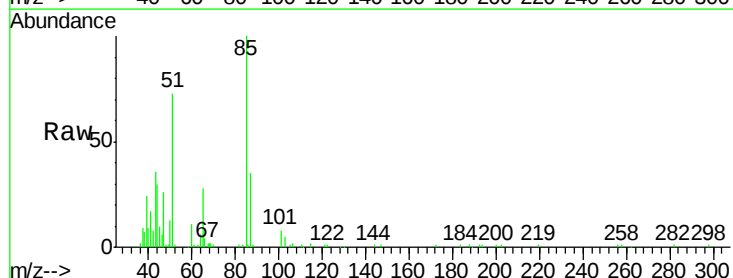
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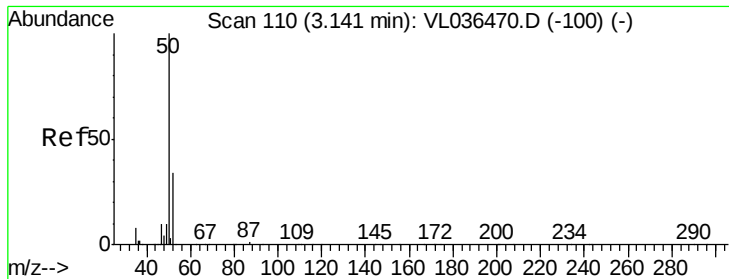


#2

Dichlorodifluoromethane
Concen: 0.223 ppbv
RT: 3.04 min Scan# 80
Delta R.T. -0.00 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

Tgt Ion: 85 Resp: 52001
Ion Ratio Lower Upper
85 100
87 34.0 27.8 41.8





#4

Chloromethane

Concen: 0.374 ppbv m

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL036598.D

Acq: 31 Mar 2021 12:23

Instrument :

MSVOA_L

ClientSampleId :

SSB-IA-1

Tot Ion: 50 Resp: 35348

Ion Ratio Lower Upper

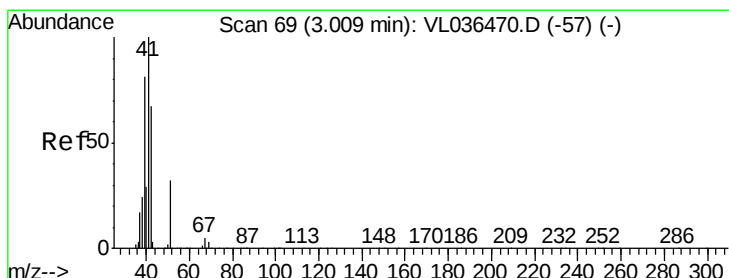
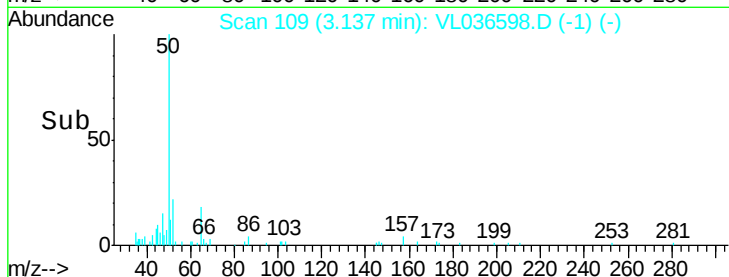
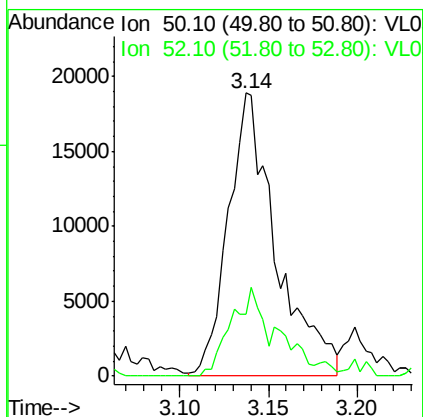
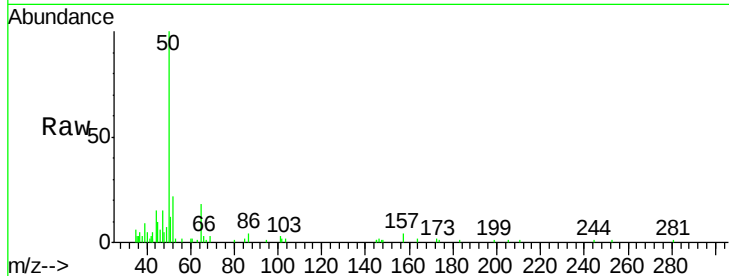
50 100

52 21.7 27.0 40.6#

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#9

Propene

Concen: 0.767 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL036598.D

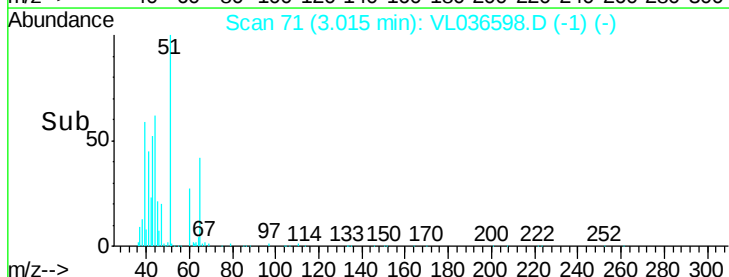
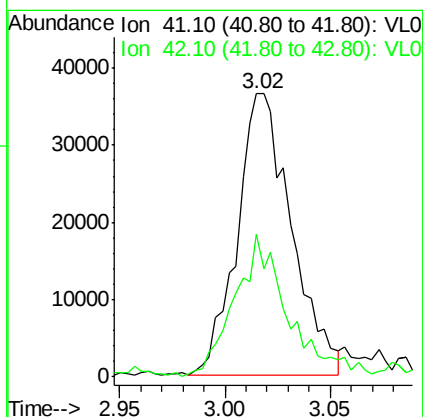
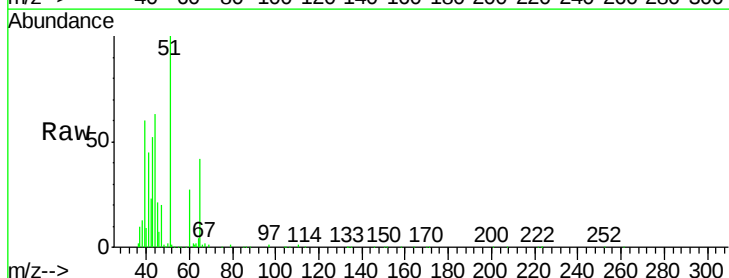
Acq: 31 Mar 2021 12:23

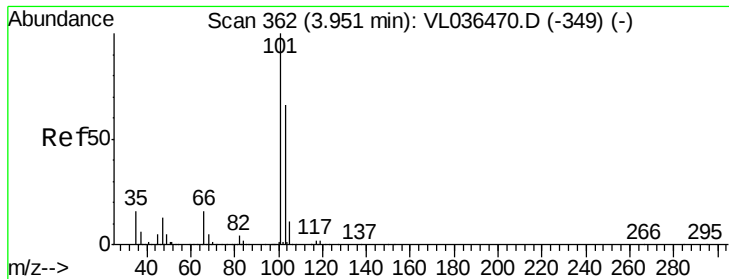
Tgt Ion: 41 Resp: 65398

Ion Ratio Lower Upper

41 100

42 48.1 57.0 85.4#





#11

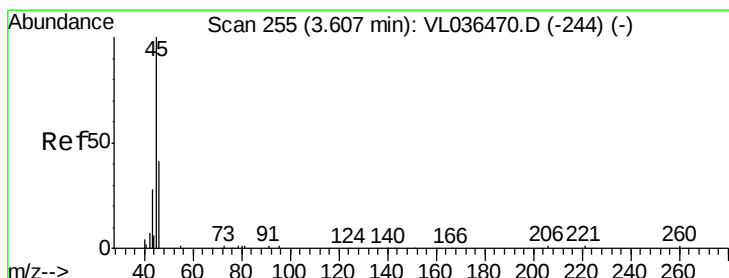
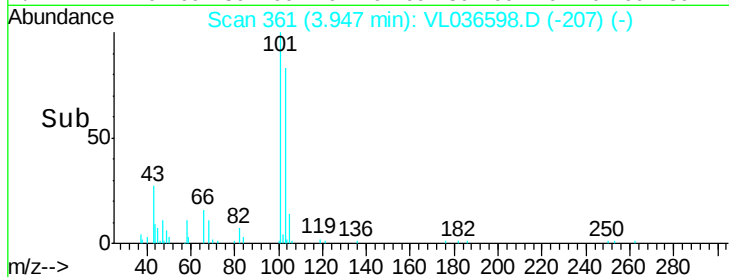
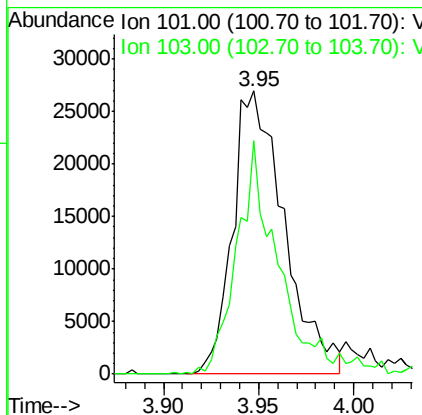
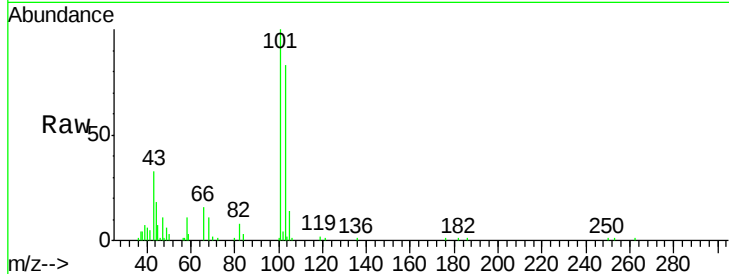
Trichlorofluoromethane
 Concen: 0.213 ppbv m
 RT: 3.95 min Scan# 361
 Delta R.T. -0.00 min
 Lab File: VL036598.D
 Acq: 31 Mar 2021 12:23

Instrument :
 MSVOA_L
 ClientSampleId :
 SSB-IA-1

Tot Ion	Ratio	Lower	Upper
101	100		
103	82.7	52.5	78.7#

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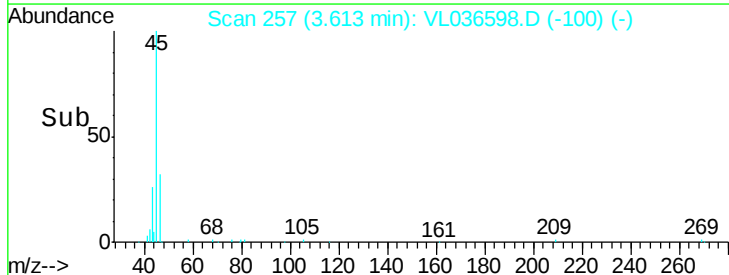
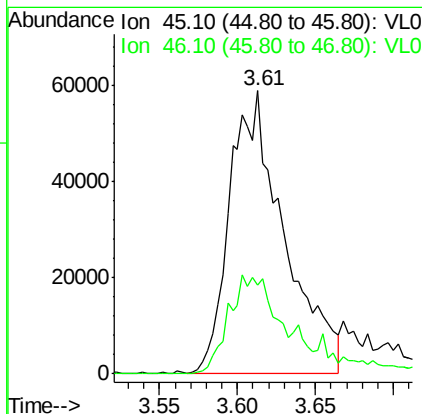
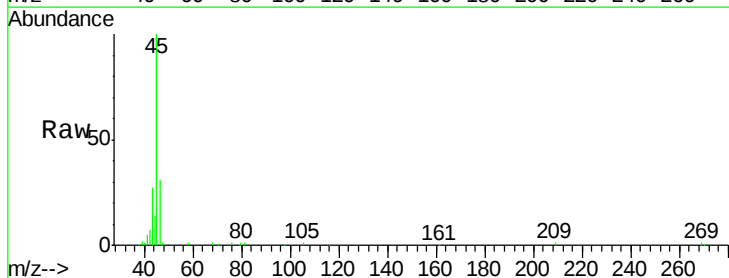
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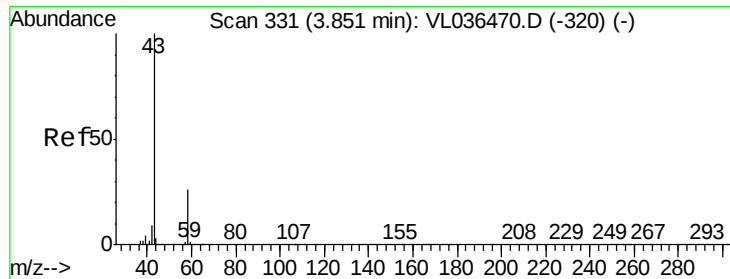


#13

Ethanol
 Concen: 14.153 ppbv m
 RT: 3.61 min Scan# 257
 Delta R.T. 0.01 min
 Lab File: VL036598.D
 Acq: 31 Mar 2021 12:23

Tgt Ion	Ratio	Lower	Upper
45	100		
46	41.6	16.6	66.2





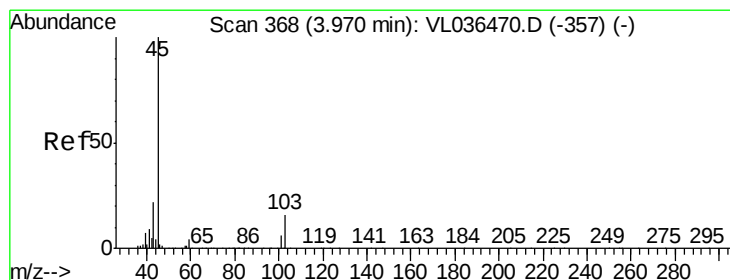
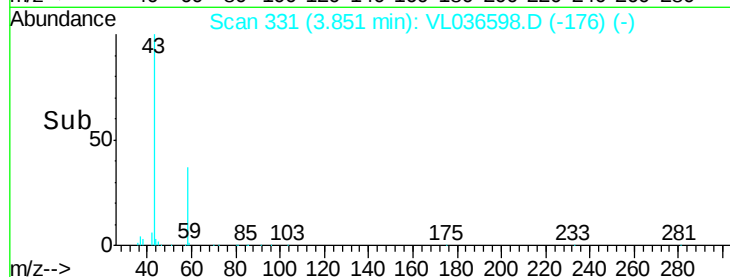
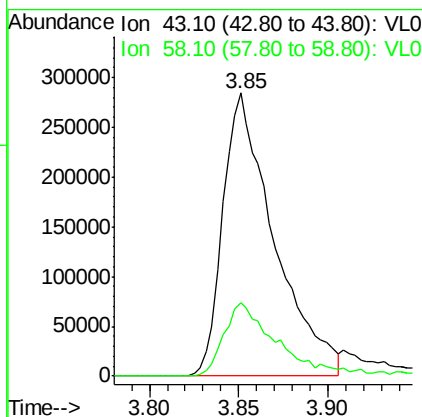
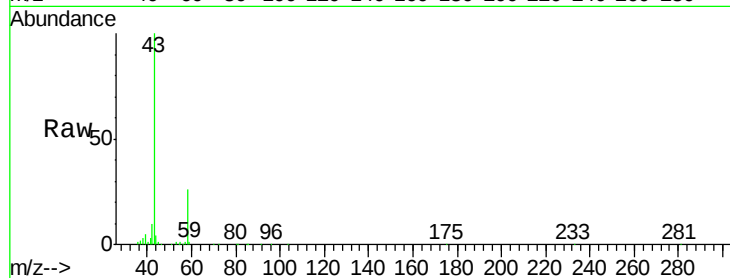
#15
Acetone
Concen: 4.020 ppbv
RT: 3.85 min Scan# 331
Delta R.T. -0.00 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

Instrument :
MSVOA_L
ClientSampleId :
SSB-IA-1

Tot Ion	Ratio	Lower	Upper
43	100		
58	28.2	21.2	31.8

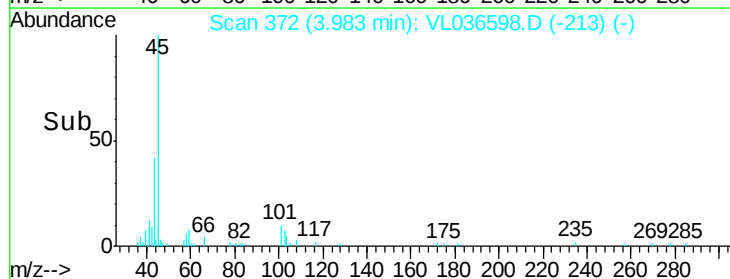
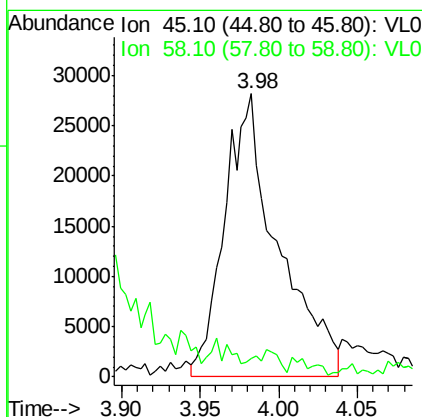
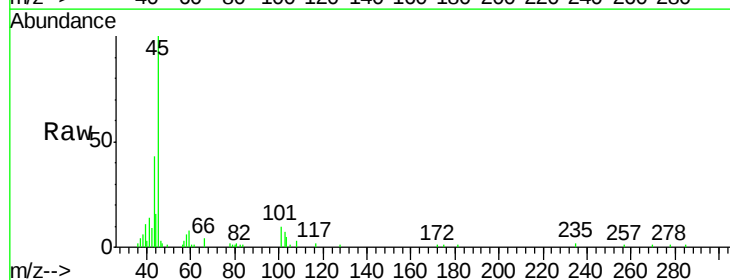
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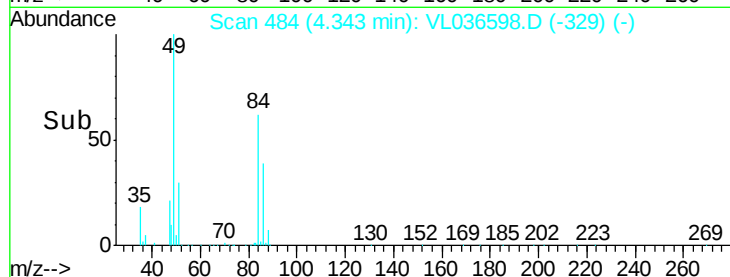
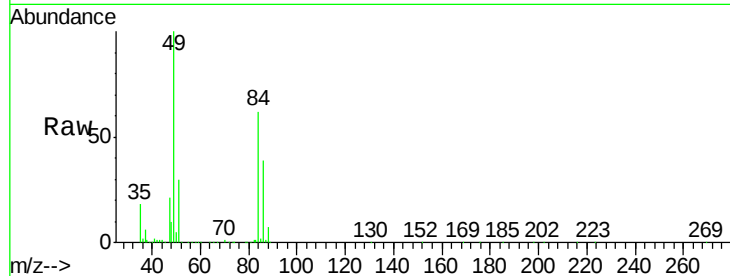
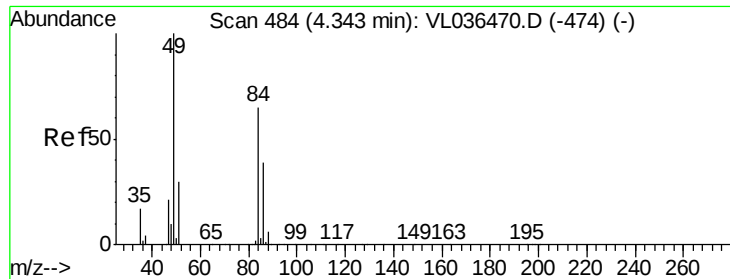
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#19
Isopropyl Alcohol
Concen: 0.862 ppbv m
RT: 3.98 min Scan# 372
Delta R.T. 0.01 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

Tgt Ion	Ratio	Lower	Upper
45	100		
58	0.0	2.9	4.3#





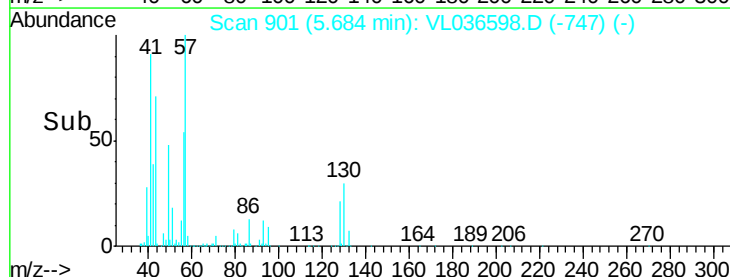
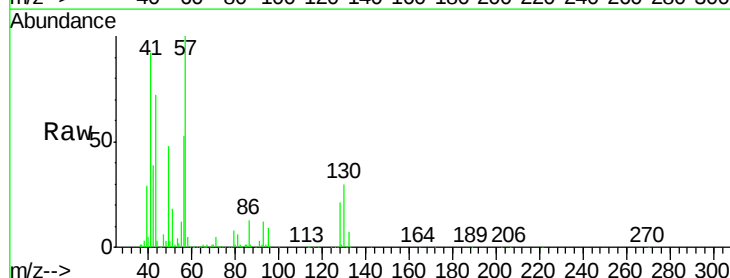
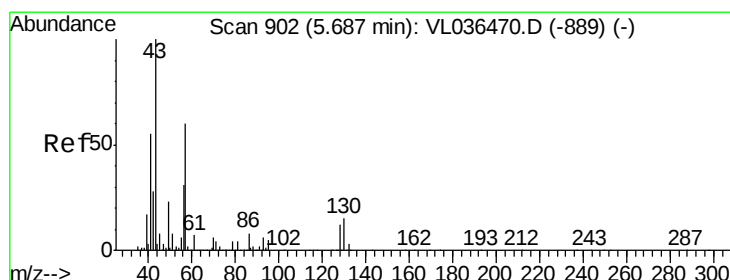
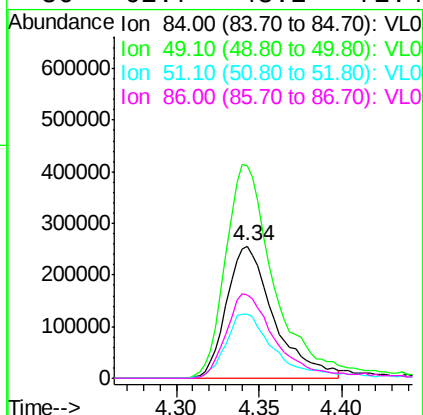
#20
Methvlene Chloride
Concen: 7.709 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.00 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

Tot Ion	Ratio	Lower	Upper
84	100		
49	161.1	122.9	184.3
51	48.4	36.9	55.3
86	62.7	48.2	72.4

Instrument :
MSVOA_L
ClientSampleId :
SSB-IA-1

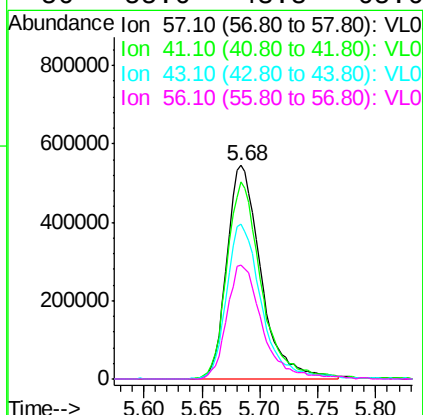
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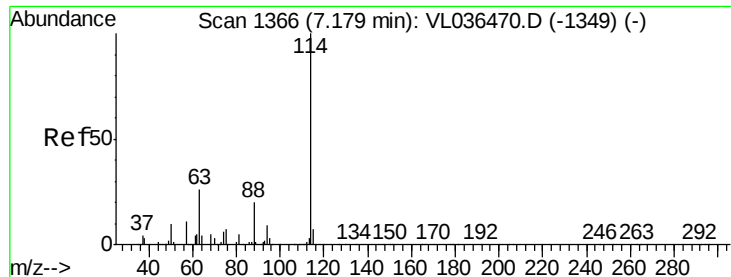
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#26
Hexane
Concen: 7.132 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

Tgt Ion	Ratio	Lower	Upper
57	100		
41	94.2	77.2	115.8
43	74.8	173.8	260.6#
56	55.6	43.8	65.6





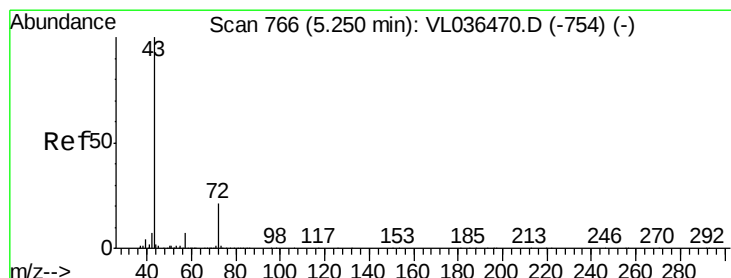
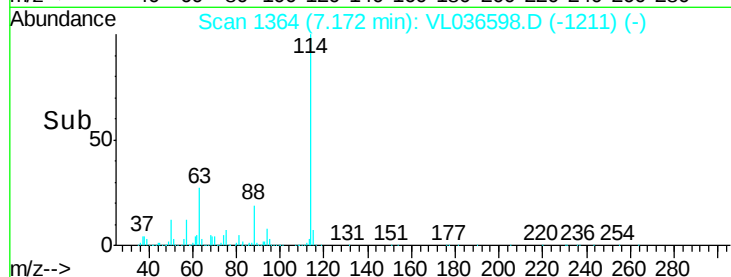
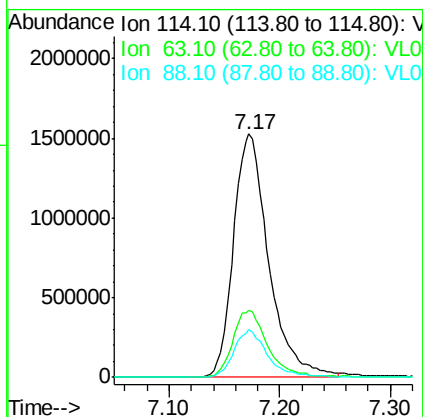
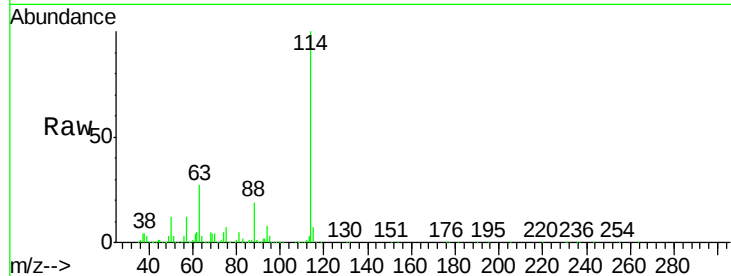
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 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VL036598.D
 Acq: 31 Mar 2021 12:23

Instrument :
 MSVOA_L
 ClientSampleId :
 SSB-IA-1

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.9	22.4	33.6
88	18.9	15.4	23.0

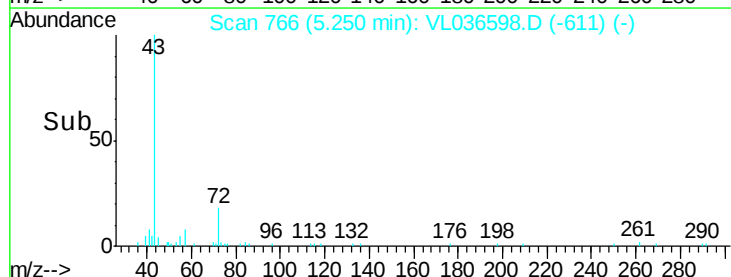
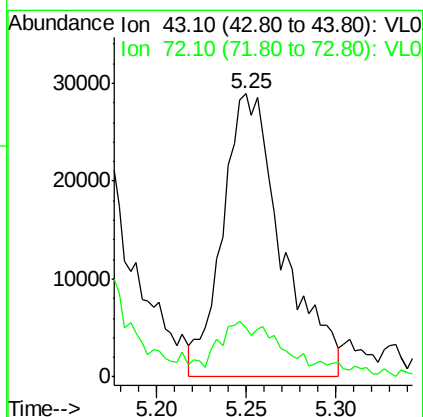
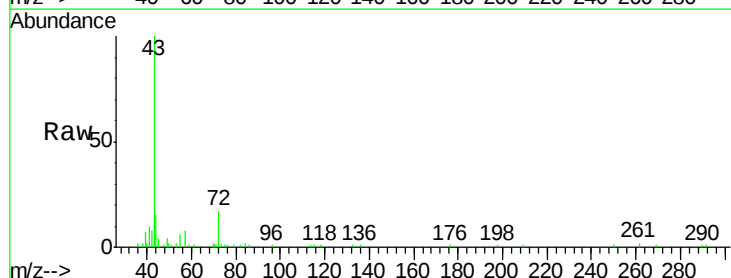
Manual Integrations
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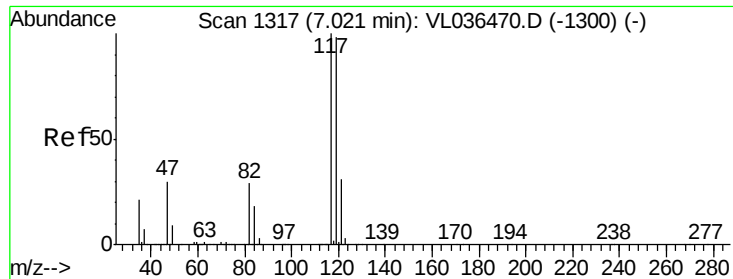
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#34
 2-Butanone
 Concen: 0.407 ppbv m
 RT: 5.25 min Scan# 766
 Delta R.T. -0.00 min
 Lab File: VL036598.D
 Acq: 31 Mar 2021 12:23

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.9	17.0	25.6





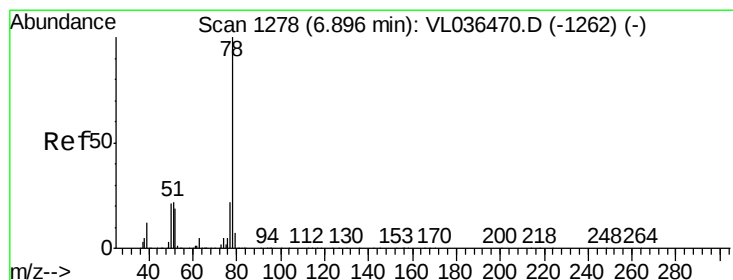
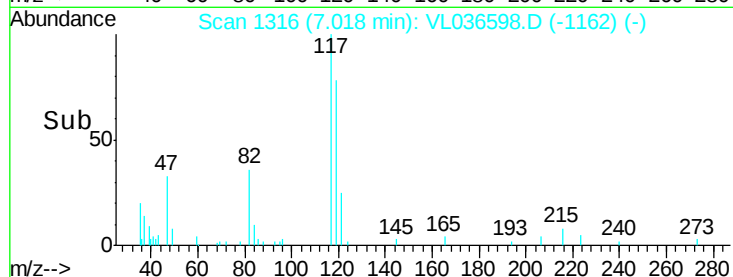
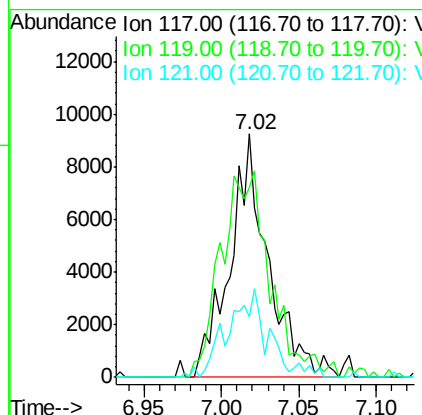
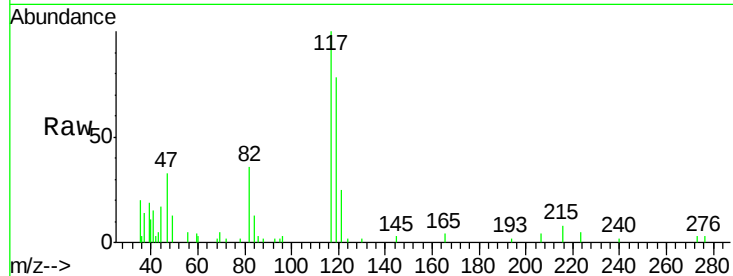
#35
Carbon Tetrachloride
Concen: 0.061 ppbv m
RT: 7.02 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

Instrument :
MSVOA_L
ClientSampled :
SSB-IA-1

Tot Ion	Ratio	Lower	Upper
117	100		
119	77.8	78.2	117.2#
121	24.8	24.5	36.7

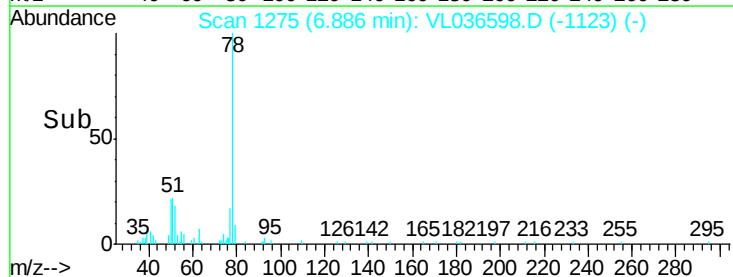
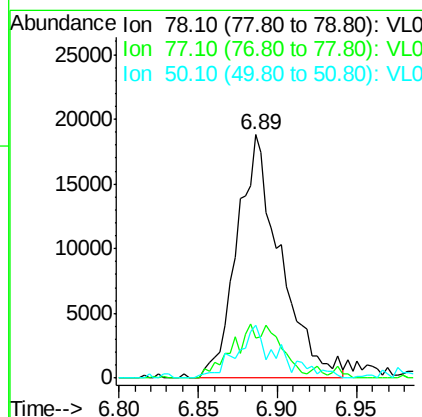
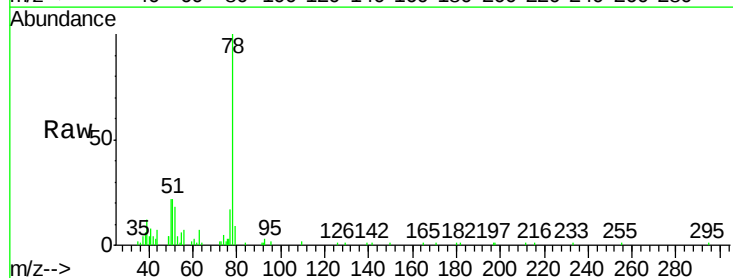
Manual Integrations
APPROVED

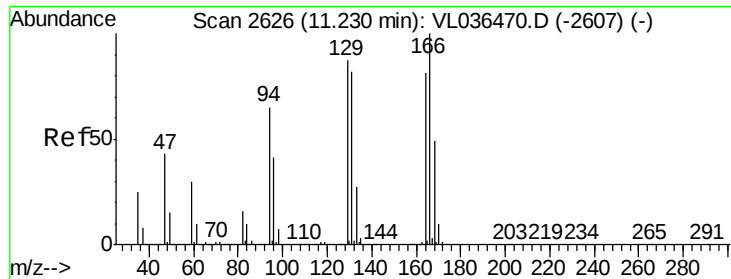
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#36
Benzene
Concen: 0.114 ppbv m
RT: 6.89 min Scan# 1275
Delta R.T. -0.01 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

Tgt Ion	Ratio	Lower	Upper
78	100		
77	16.7	18.0	27.0#
50	21.8	16.5	24.7





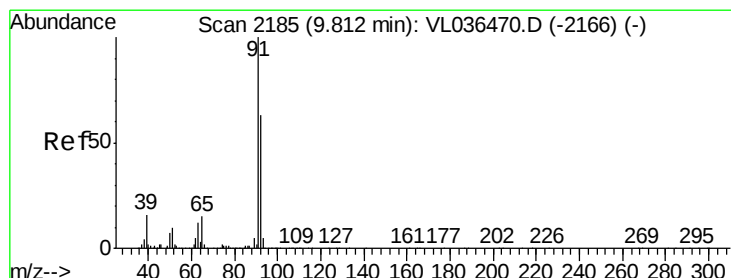
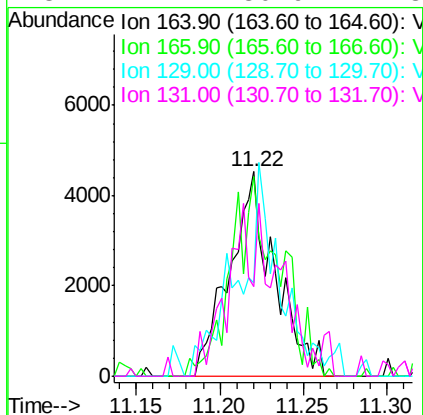
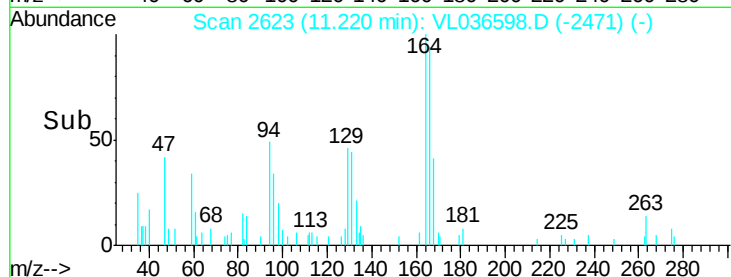
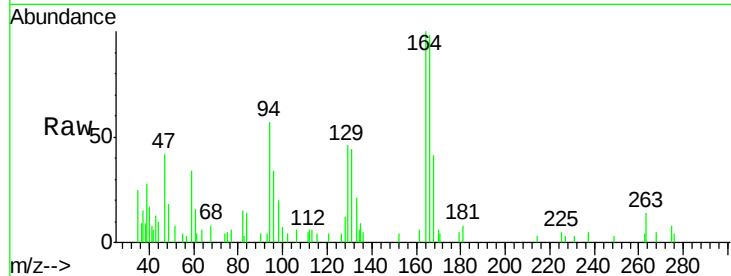
#52
Tetrachloroethene
Concen: 0.074 ppbv m
RT: 11.22 min Scan# 2623
Delta R.T. -0.01 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

Instrument :
MSVOA_L
ClientSampled :
SSB-IA-1

Tot Ion	Ratio	Lower	Upper
164	100		
166	97.7	98.3	147.5#
129	45.8	85.8	128.8#
131	44.1	80.9	121.3#

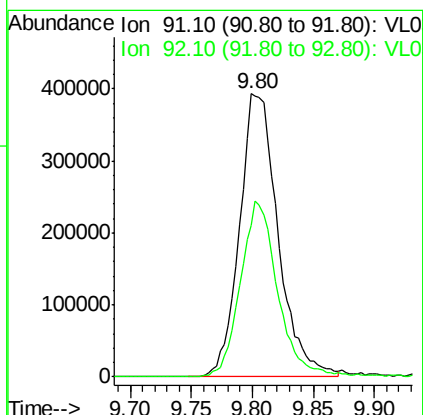
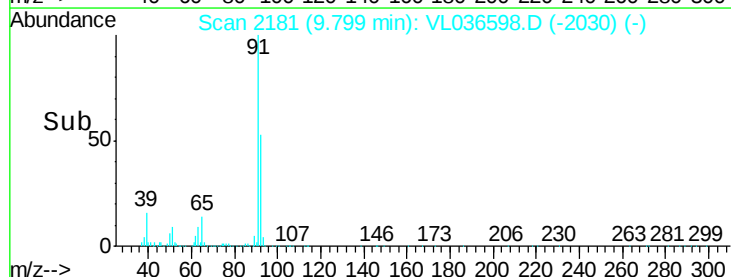
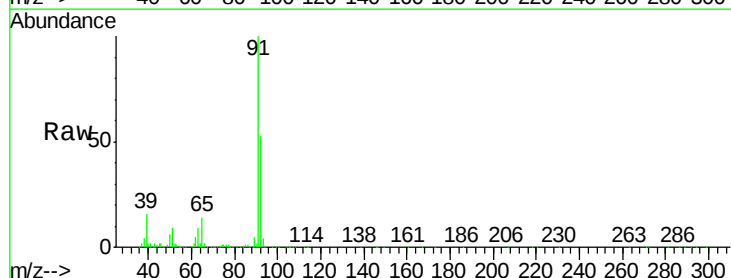
Manual Integrations
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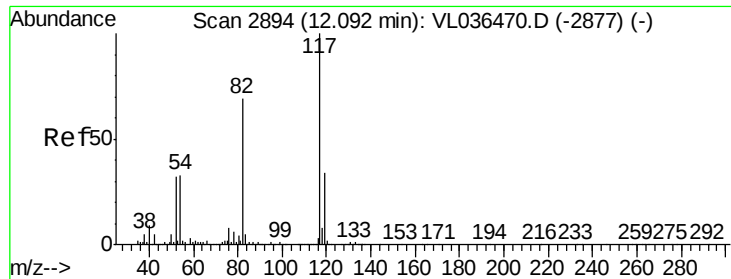
MMDadoda
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#53
Toluene
Concen: 2.588 ppbv
RT: 9.80 min Scan# 2181
Delta R.T. -0.01 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.5	48.8	73.2





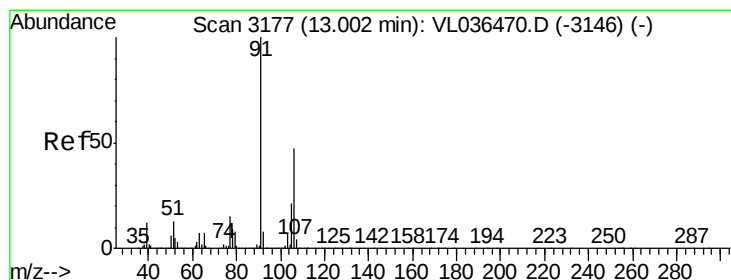
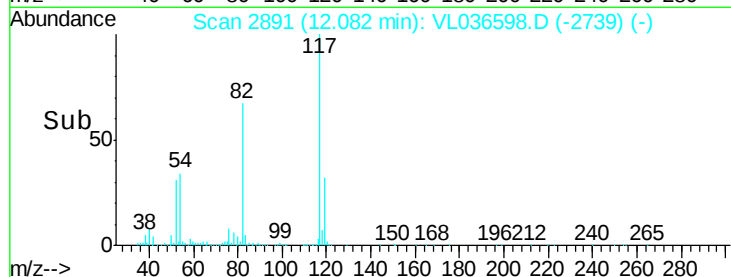
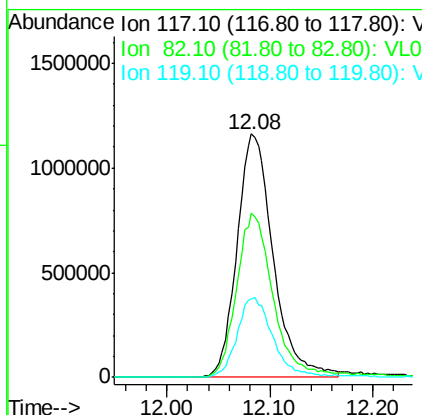
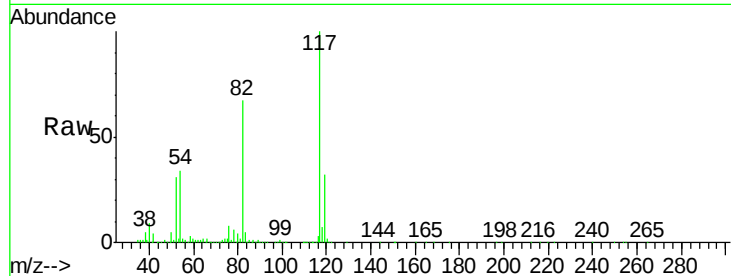
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

Instrument :
MSVOA_L
ClientSampleId :
SSB-IA-1

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.3	57.4	86.0
119	33.5	47.4	71.0#

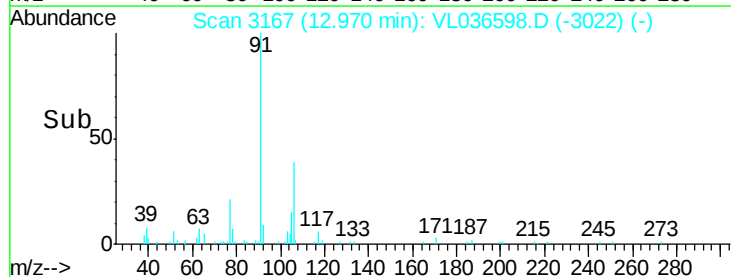
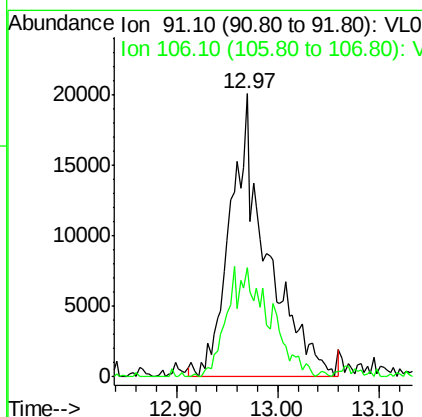
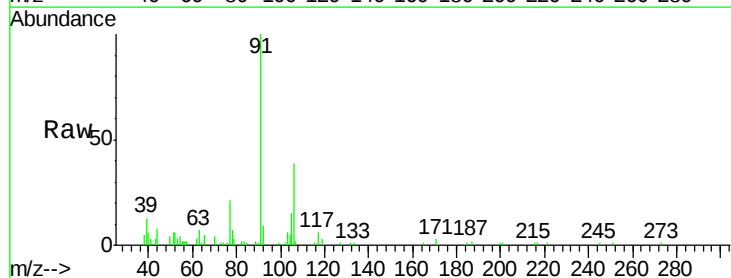
Manual Integrations
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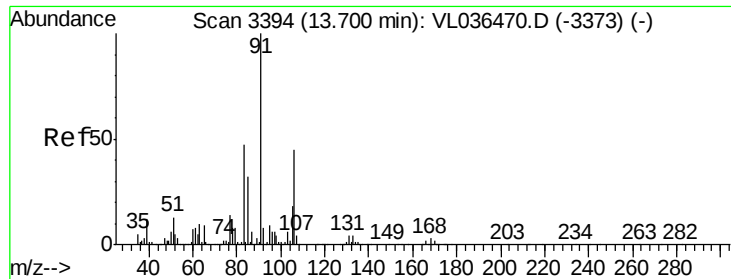
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#59
m/p-Xylene
Concen: 0.140 ppbv m
RT: 12.97 min Scan# 3167
Delta R.T. -0.03 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.3	52.9#





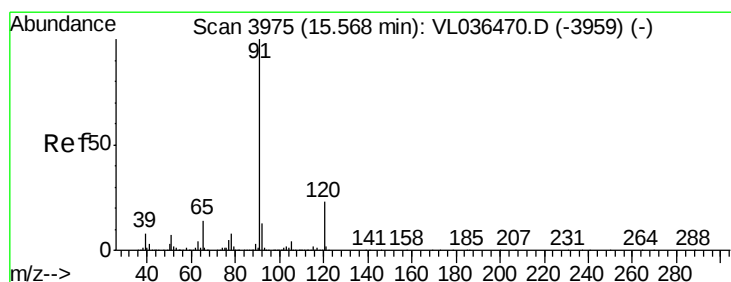
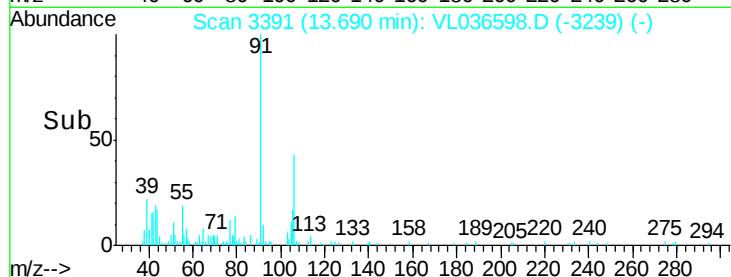
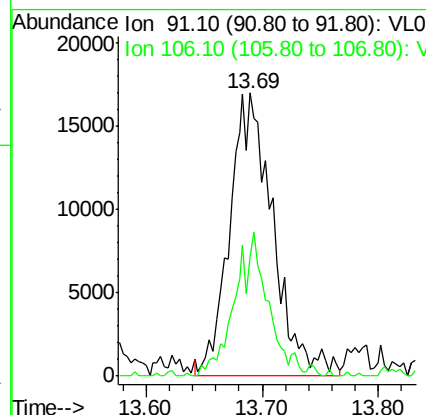
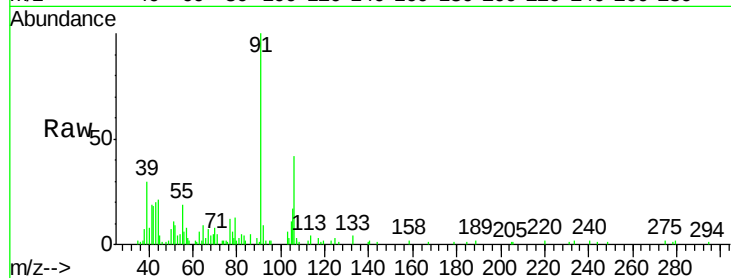
#60
o-Xylene
Concen: 0.126 ppbv m
RT: 13.69 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

Instrument :
MSVOA_L
ClientSampleId :
SSB-IA-1

Tot Ion: 91 Resp: 43856
Ion Ratio Lower Upper
91 100
106 1.2 22.3 66.9#

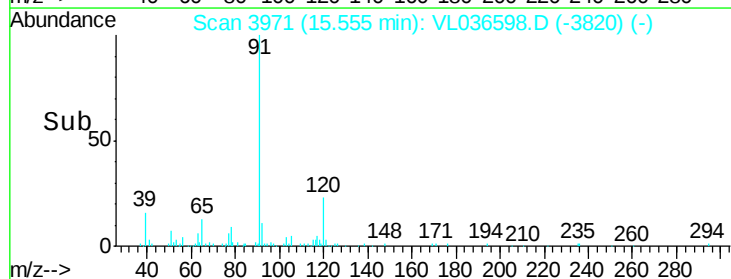
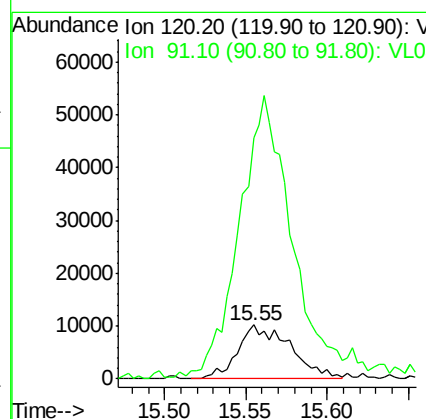
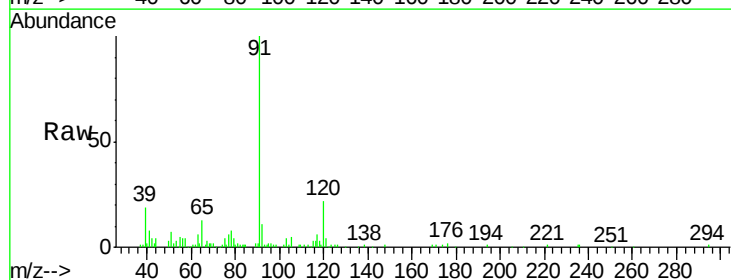
Manual Integrations
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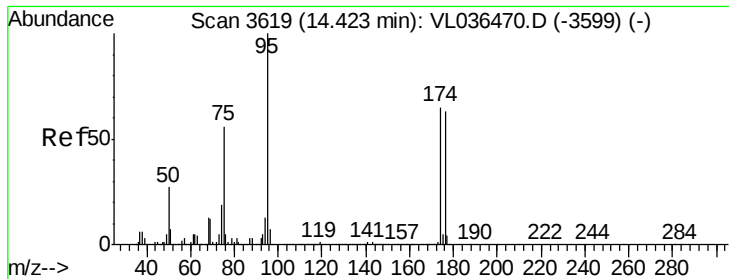
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#64
n-propylbenzene
Concen: 0.200 ppbv m
RT: 15.55 min Scan# 3971
Delta R.T. -0.01 min
Lab File: VL036598.D
Acq: 31 Mar 2021 12:23

Tgt Ion: 120 Resp: 22915
Ion Ratio Lower Upper
120 100
91 0.0 377.4 566.2#





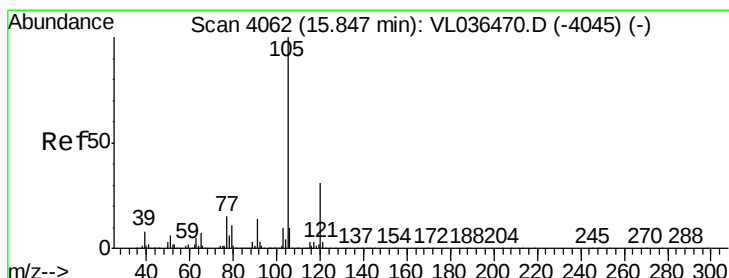
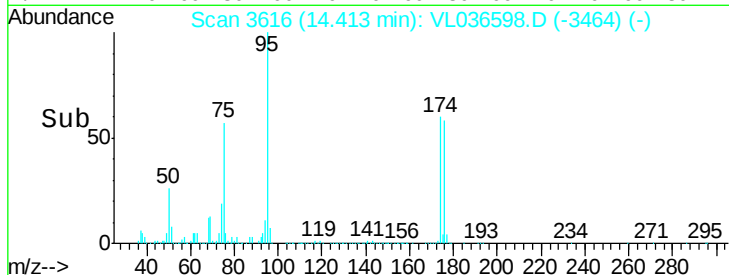
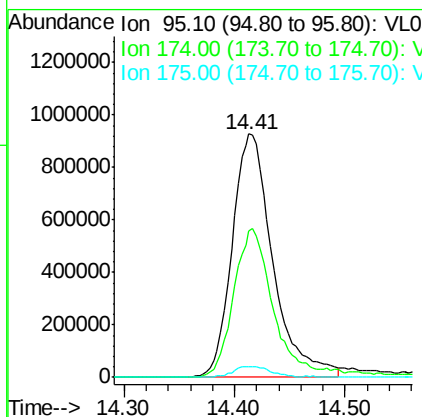
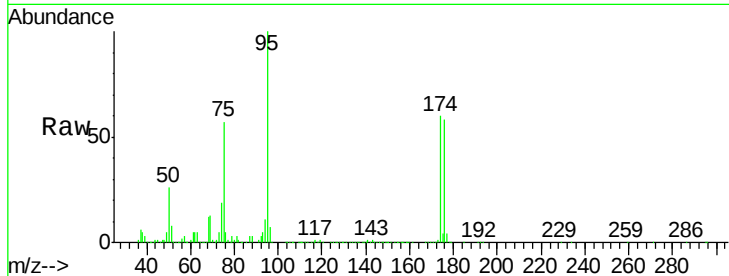
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.434 ppbv
 RT: 14.41 min Scan# 3616
 Delta R.T. -0.01 min
 Lab File: VL036598.D
 Acq: 31 Mar 2021 12:23

Instrument :
 MSVOA_L
 ClientSampleId :
 SSB-IA-1

Tot Ion: 95 Resp: 2360881
 Ion Ratio Lower Upper
 95 100
 174 63.7 51.0 76.6
 175 4.6 3.9 5.9

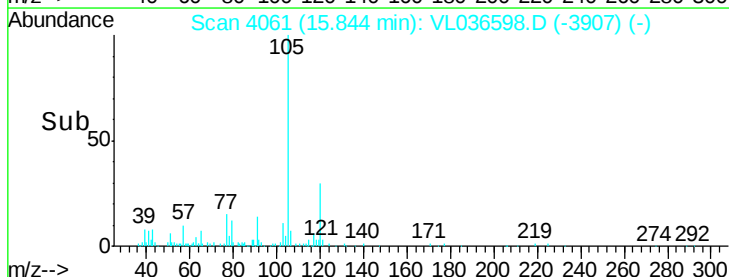
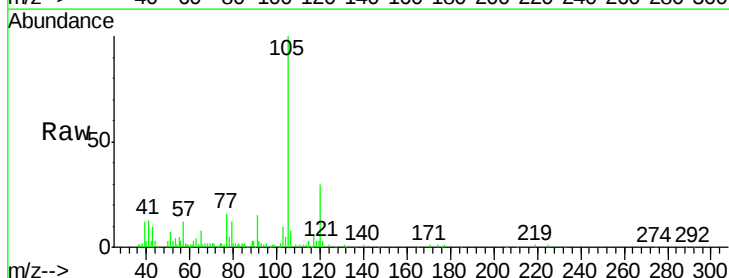
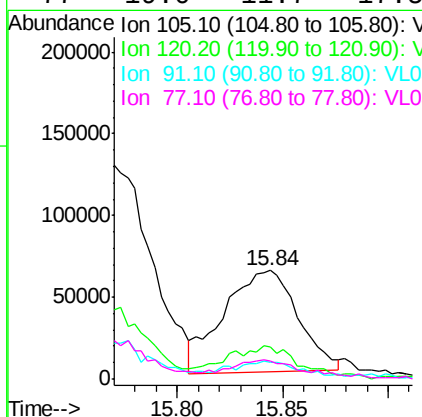
Manual Integrations
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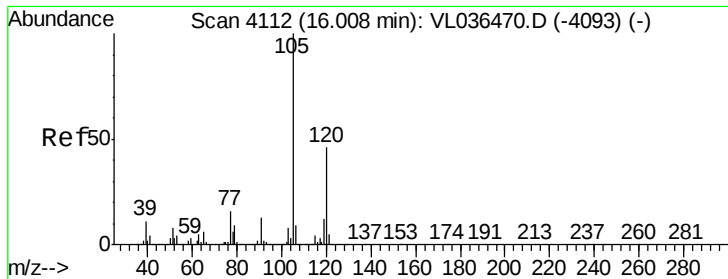
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#72
 4-Ethyltoluene
 Concen: 0.400 ppbv
 RT: 15.84 min Scan# 4061
 Delta R.T. -0.00 min
 Lab File: VL036598.D
 Acq: 31 Mar 2021 12:23

Tgt Ion: 105 Resp: 152715
 Ion Ratio Lower Upper
 105 100
 120 33.9 24.0 36.0
 91 17.3 11.0 16.4#
 77 19.0 11.7 17.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.506 ppbv m

RT: 16.00 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL036598.D

Acq: 31 Mar 2021 12:23

Instrument :

MSVOA_L

ClientSampleId :

SSB-IA-1

Tot Ion:105 Resp: 180156

Ion Ratio Lower Upper

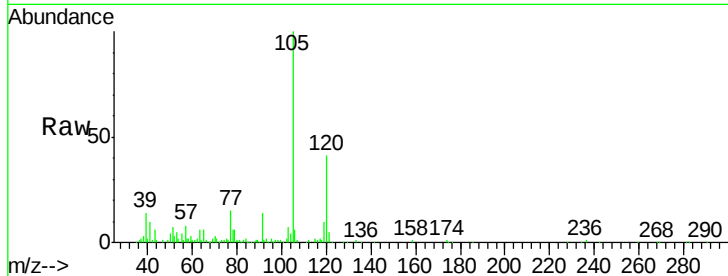
105 100

120 40.9 36.6 54.8

Manual Integrations
APPROVED

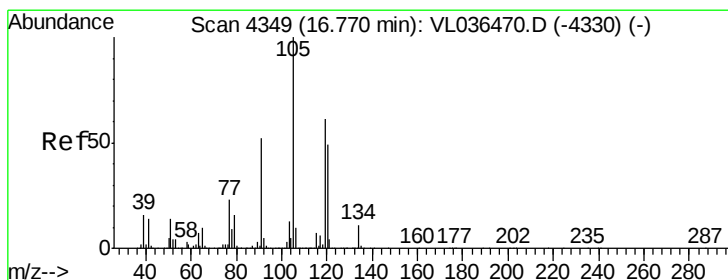
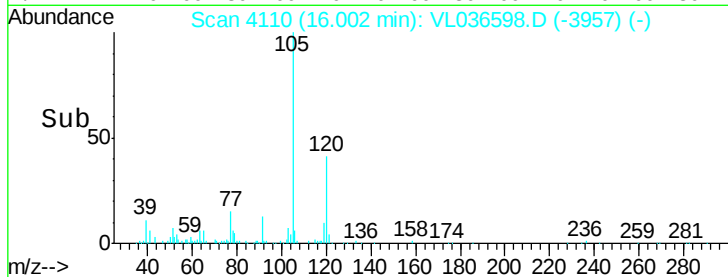
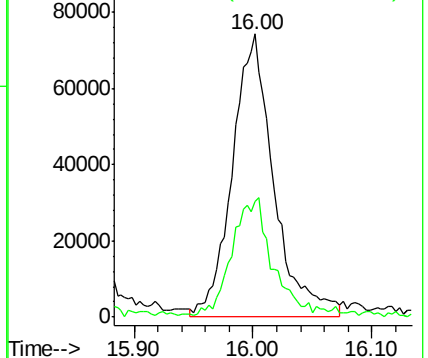
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.755 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. -0.01 min

Lab File: VL036598.D

Acq: 31 Mar 2021 12:23

Tgt Ion:105 Resp: 287796

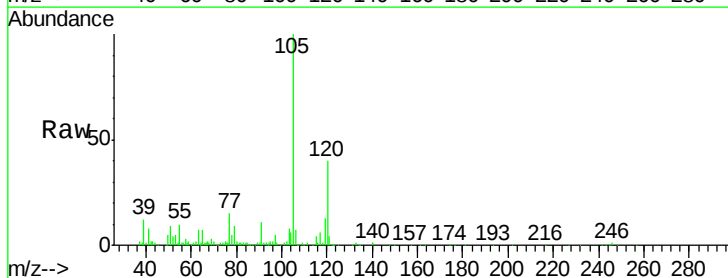
Ion Ratio Lower Upper

105 100

120 40.5 39.2 58.8

91 10.3 42.6 64.0#

77 14.9 18.6 28.0#



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

