

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
 Data File : VL036234.D
 Acq On : 13 Jan 2021 20:57
 Operator : SY/AP
 Sample : M1070-01
 Misc : 400ml/MSVOA L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

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 1/18/2021 3:49:49 PM

Quant Time: Jan 14 16:24:50 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jan 14 16:24:50 2021
 QLast Update : Thu Jan 14 16:13:38 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1506919	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3132317	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2729299	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2262435	10.01	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	42672m	0.211	ppbv	
3) Chlorodifluoromethane	2.99	51	106306	0.574	ppbv #	87
4) Chloromethane	3.14	50	42767	0.468	ppbv #	80
9) Propene	3.02	41	110863m	1.258	ppbv	
11) Trichlorofluoromethane	3.95	101	46503m	0.226	ppbv	
13) Ethanol	3.61	45	515542m	37.254	ppbv	
15) Acetone	3.85	43	689086	3.734	ppbv	95
19) Isopropyl Alcohol	3.97	45	179491m	1.613	ppbv	
20) Methylene Chloride	4.35	84	393388m	6.679	ppbv	
26) Hexane	5.69	57	448870	2.910	ppbv #	39
35) Carbon Tetrachloride	7.01	117	13578m	0.069	ppbv	
36) Benzene	6.89	78	96293m	0.336	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	46451m	0.088	ppbv	
52) Tetrachloroethene	11.23	164	12987m	0.123	ppbv	
53) Toluene	9.81	91	178794	0.557	ppbv	95
59) m/p-Xylene	12.98	91	62616m	0.180	ppbv	

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

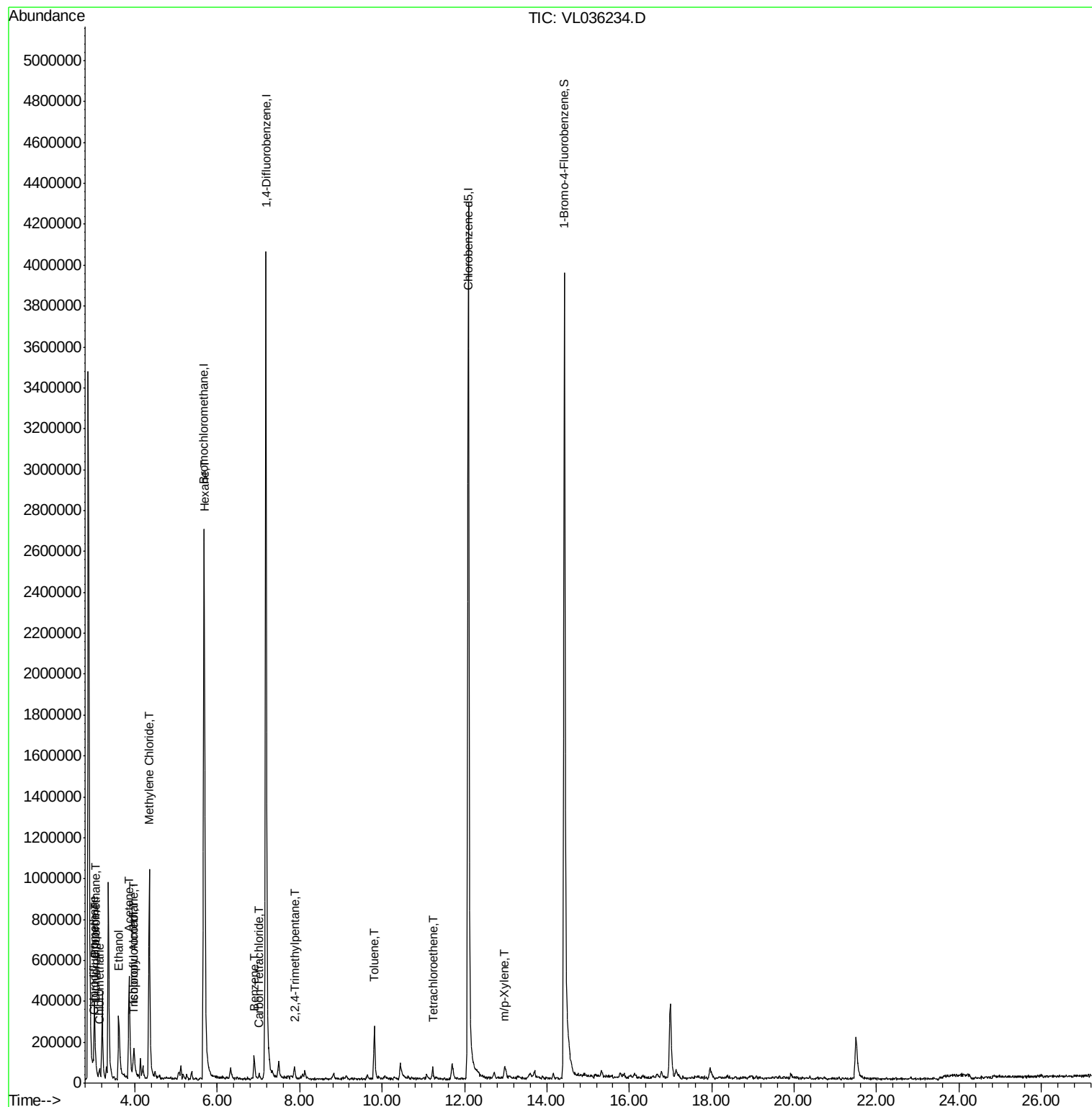
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL011321\
Data File : VL036234.D
Acq On : 13 Jan 2021 20:57
Operator : SY/AP
Sample : M1070-01
Misc : 400ml/MSVOA L
ALS Vial : 11 Sample Multiplier: 1

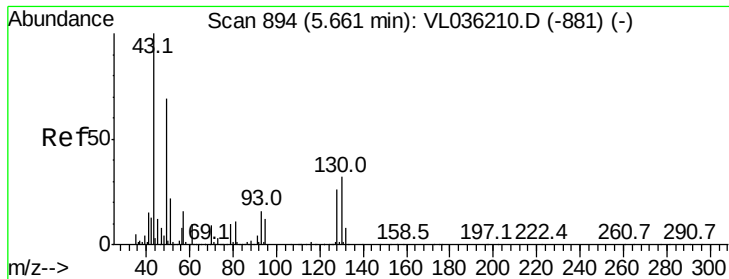
Instrument :
MSVOA_L
ClientSampleId :
IA1

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Quant Time: Jan 14 16:24:50 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan
QLast Update : Thu Jan 14 16:13:38 2021
Response via : Initial Calibration





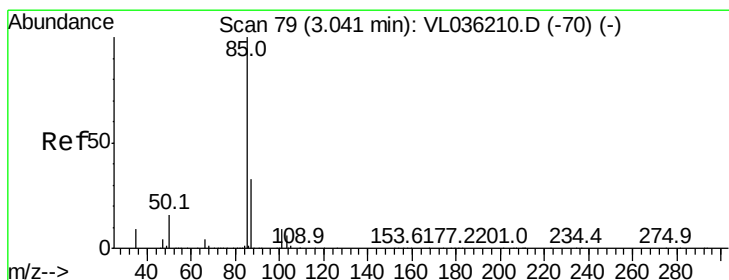
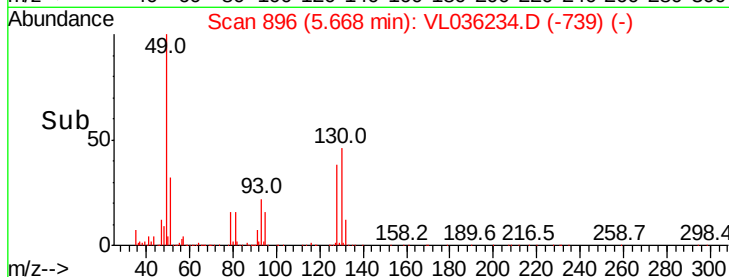
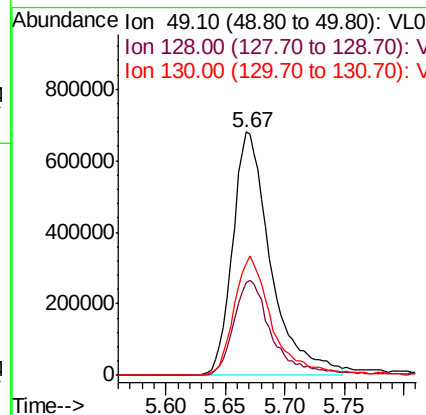
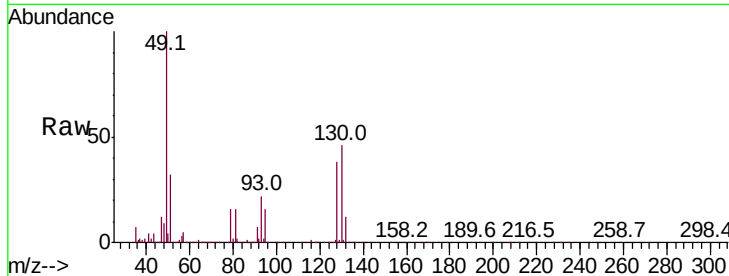
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Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.01 min
Lab File: VL036234.D
Acq: 13 Jan 2021 20:57

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion: 49 Resp: 1506919
Ion Ratio Lower Upper
49 100
128 39.7 20.1 60.2
130 50.0 25.3 75.9

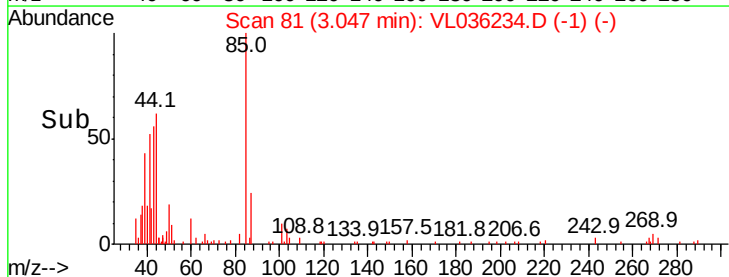
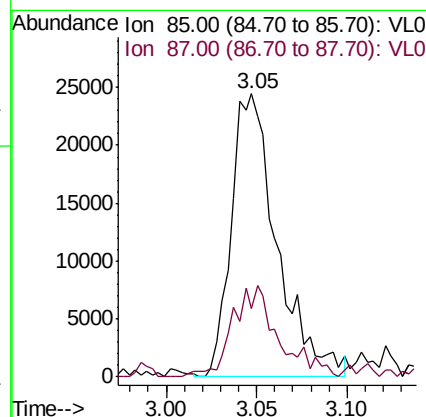
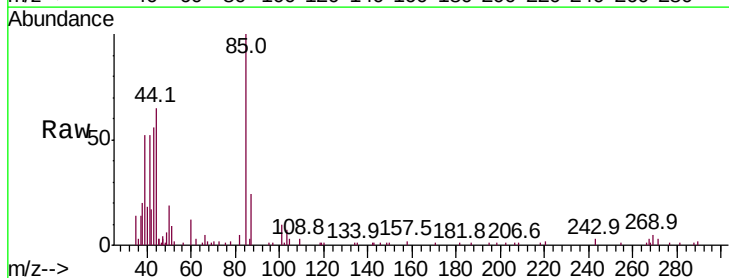
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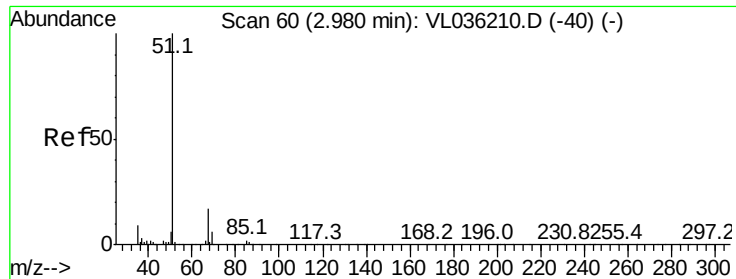
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#2
Dichlorodifluoromethane
Concen: 0.211 ppbv m
RT: 3.05 min Scan# 81
Delta R.T. 0.01 min
Lab File: VL036234.D
Acq: 13 Jan 2021 20:57

Tgt Ion: 85 Resp: 42672
Ion Ratio Lower Upper
85 100
87 24.2 26.4 39.6#





#3

Chlorodifluoromethane

Concen: 0.574 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.01 min

Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tot Ion: 51 Resp: 106306

Ion Ratio Lower Upper

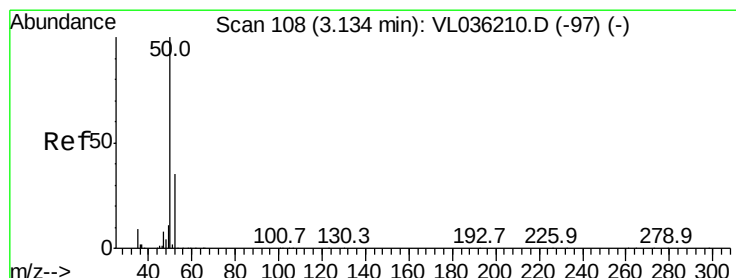
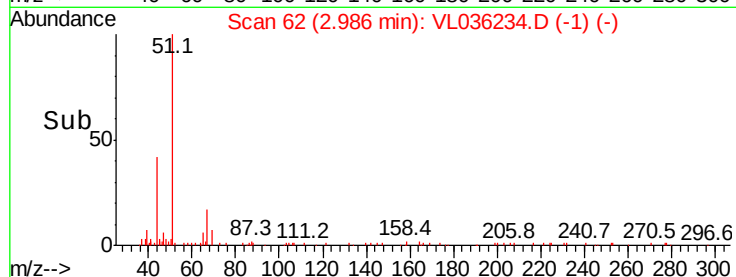
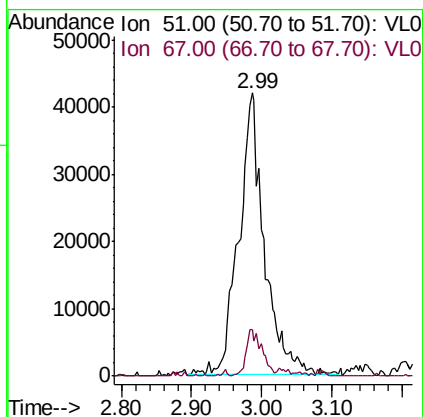
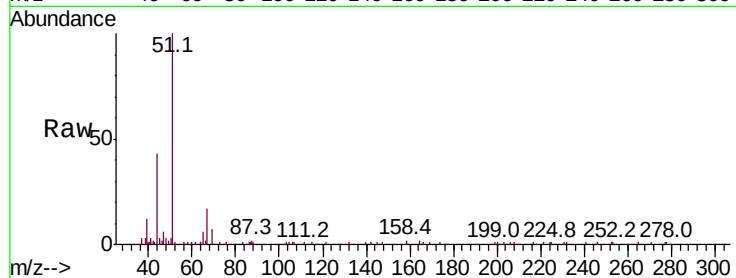
51 100

67 11.6 14.0 21.0#

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#4

Chloromethane

Concen: 0.468 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL036234.D

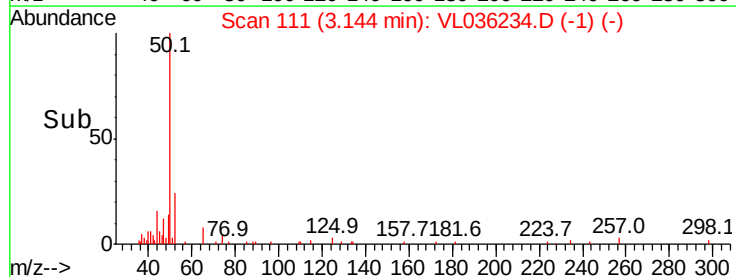
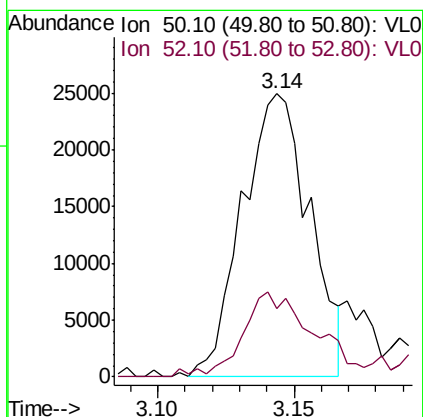
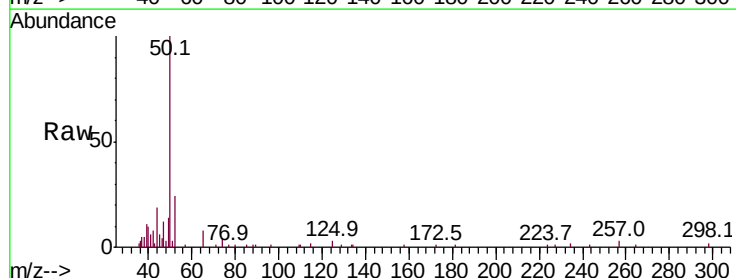
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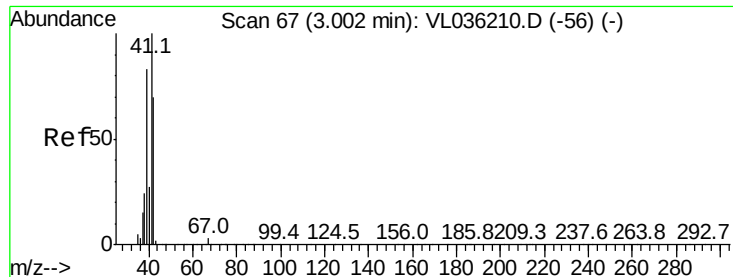
Tgt Ion: 50 Resp: 42767

Ion Ratio Lower Upper

50 100

52 23.1 27.8 41.8#





#9

Propene

Concen: 1.258 ppbv m

RT: 3.02 min Scan# 73

Delta R.T. 0.02 min

Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tot Ion: 41 Resp: 110863

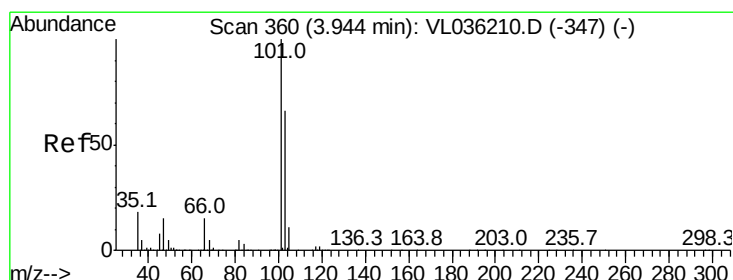
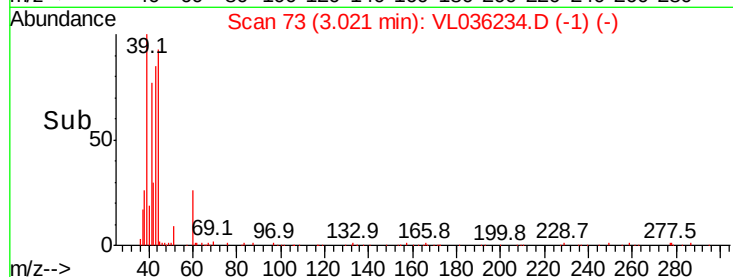
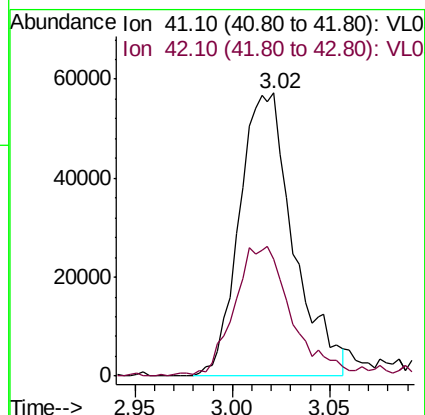
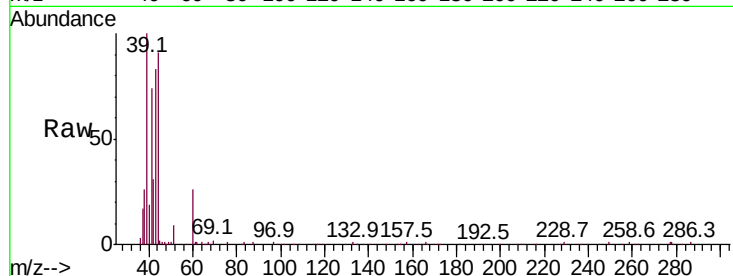
Ion Ratio Lower Upper

41 100

42 86.8 57.1 85.7#

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#11

Trichlorofluoromethane

Concen: 0.226 ppbv m

RT: 3.95 min Scan# 361

Delta R.T. 0.00 min

Lab File: VL036234.D

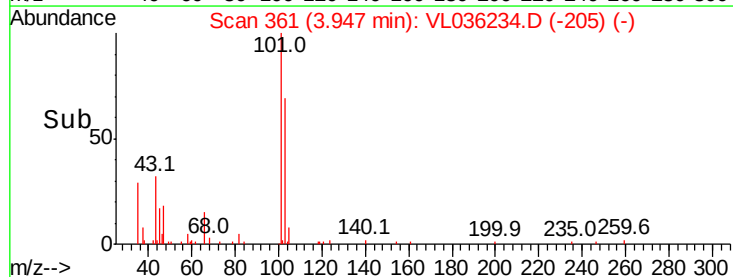
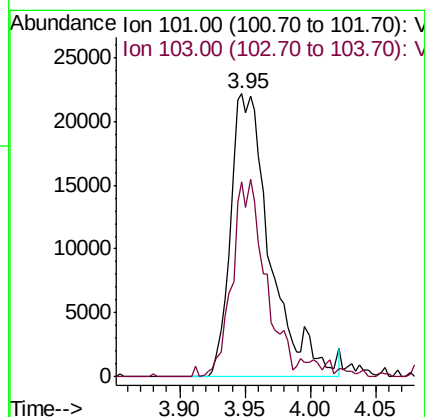
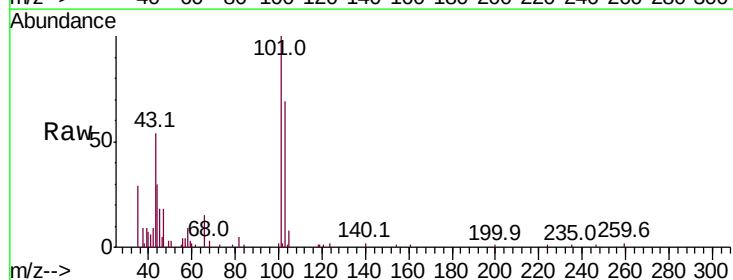
Acq: 13 Jan 2021 20:57

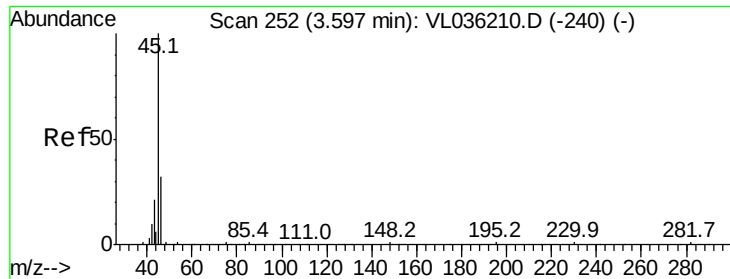
Tgt Ion: 101 Resp: 46503

Ion Ratio Lower Upper

101 100

103 69.0 52.6 78.8





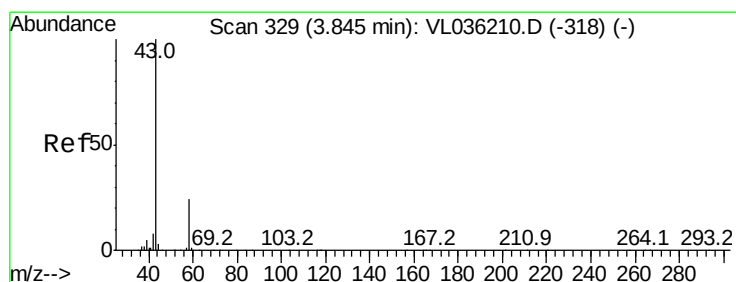
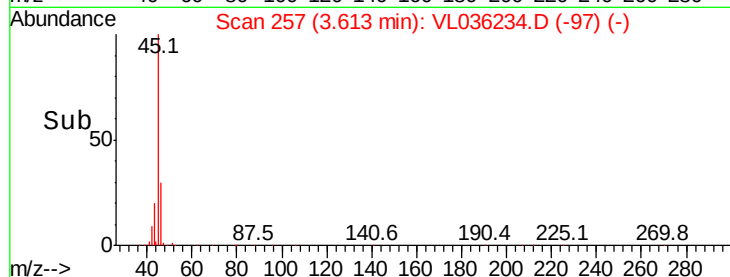
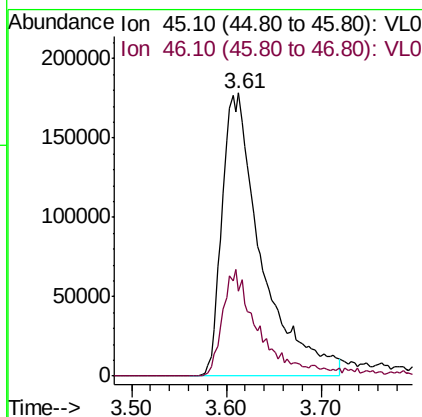
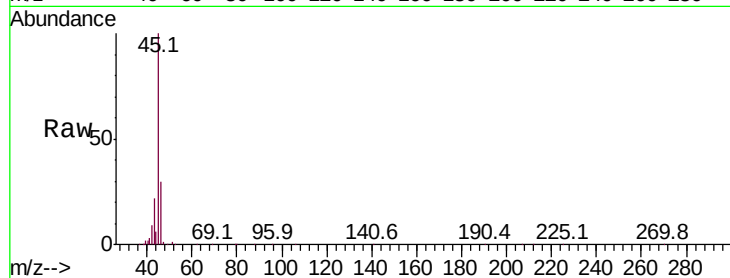
#13
Ethanol
Concen: 37.254 ppbv m
RT: 3.61 min Scan# 257
Delta R.T. 0.02 min
Lab File: VL036234.D
Acq: 13 Jan 2021 20:57

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tot Ion	Ratio	Lower	Upper
45	100		
46	0.0	19.2	77.0#

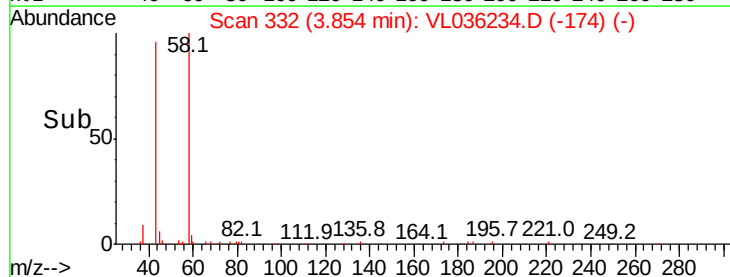
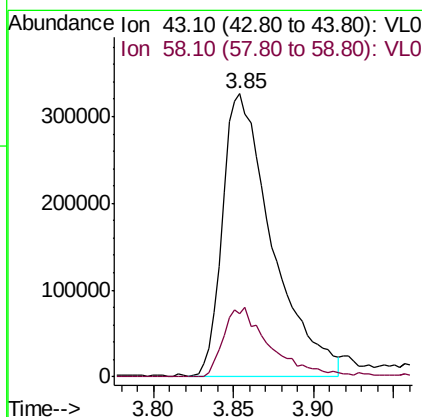
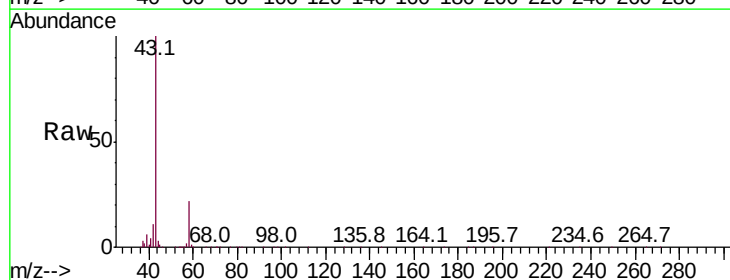
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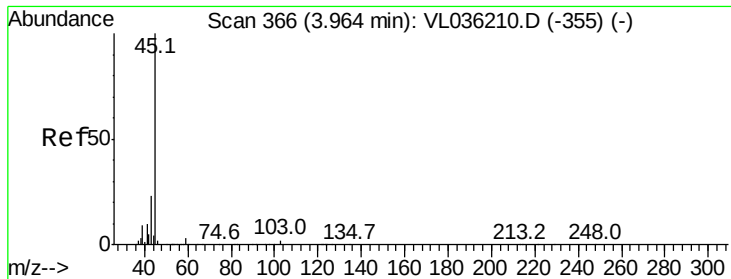
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#15
Acetone
Concen: 3.734 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.01 min
Lab File: VL036234.D
Acq: 13 Jan 2021 20:57

Tgt Ion	Ratio	Lower	Upper
43	100		
58	23.4	20.9	31.3





#19

Isopropyl Alcohol

Concen: 1.613 ppbv m

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tot Ion: 45 Resp: 179491

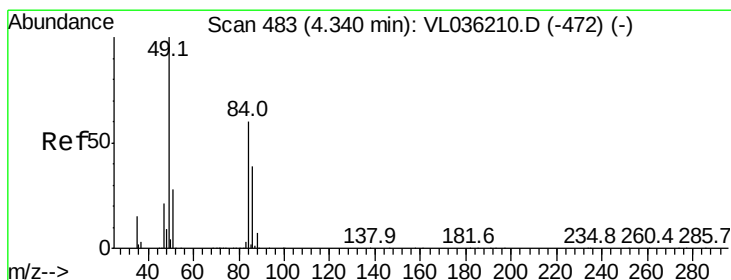
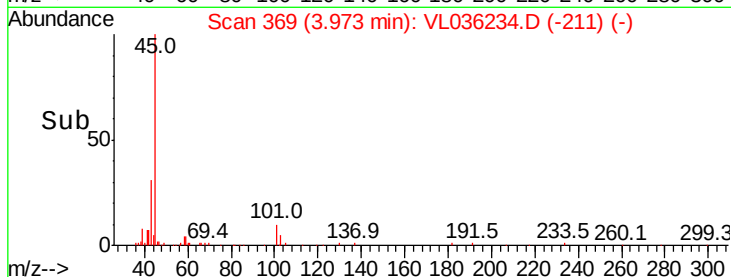
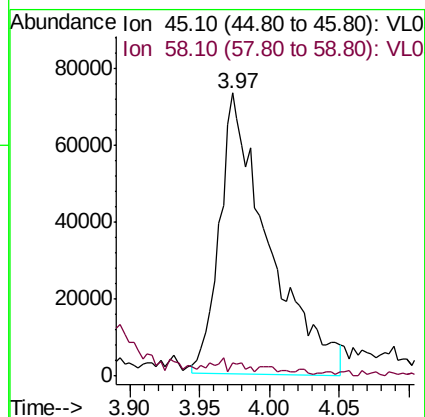
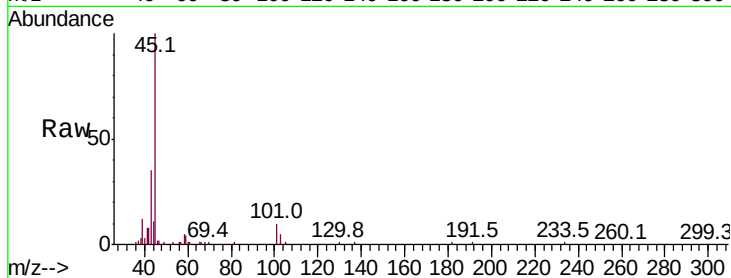
Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#

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#20

Methylene Chloride

Concen: 6.679 ppbv m

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

Tgt Ion: 84 Resp: 393388

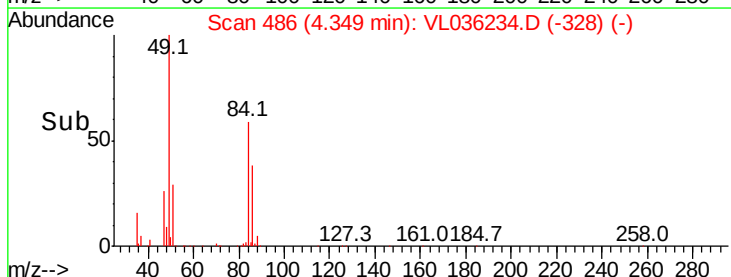
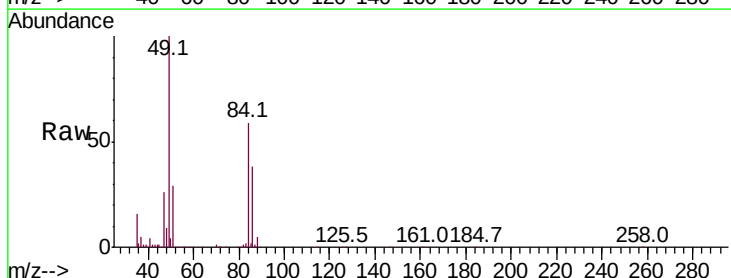
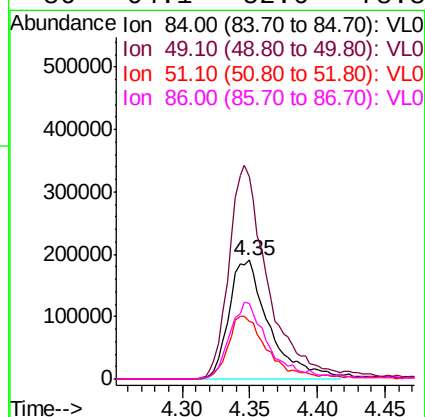
Ion Ratio Lower Upper

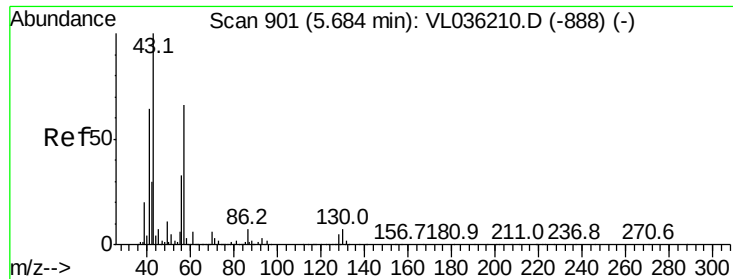
84 100

49 170.3 134.1 201.1

51 49.1 37.4 56.0

86 64.1 52.6 78.8





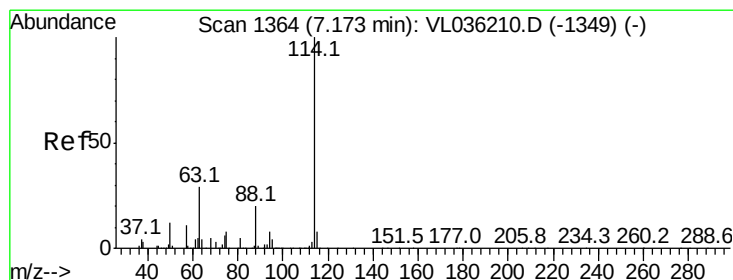
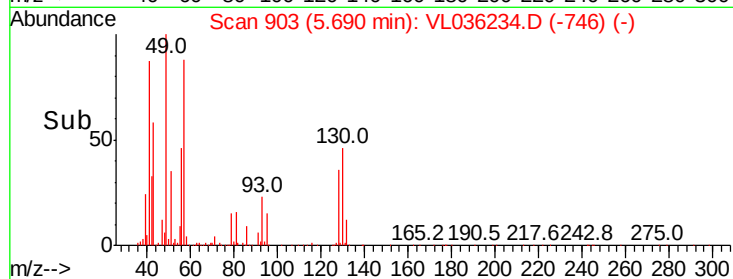
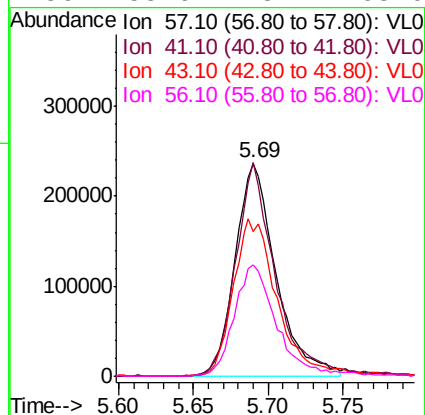
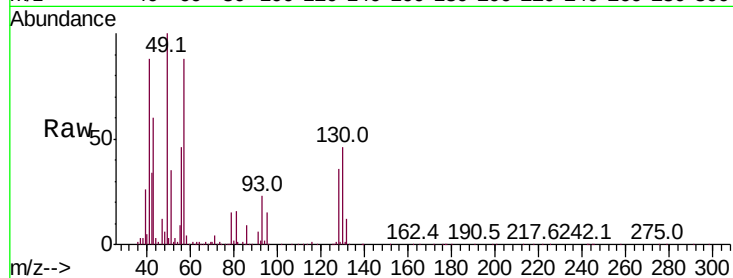
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Hexane
Concen: 2.910 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL036234.D
Acq: 13 Jan 2021 20:57

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	Ratio	Lower	Upper
57	100		
41	100.3	83.0	124.6
43	81.7	202.4	303.6#
56	55.6	43.4	65.0

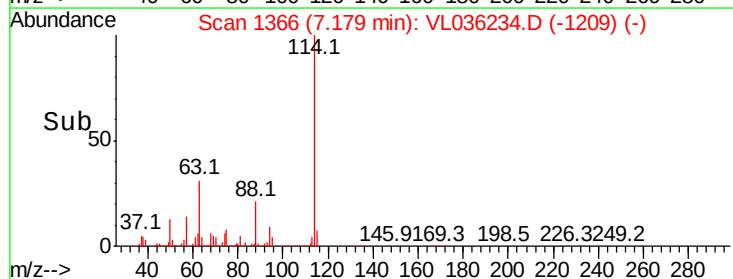
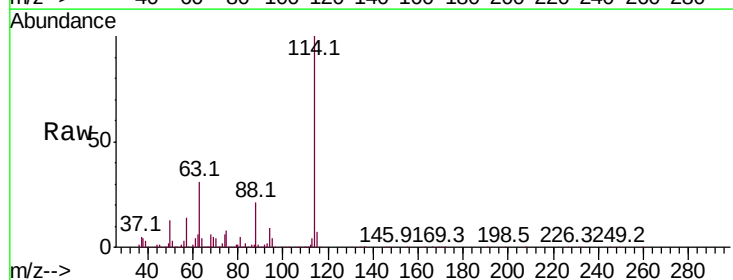
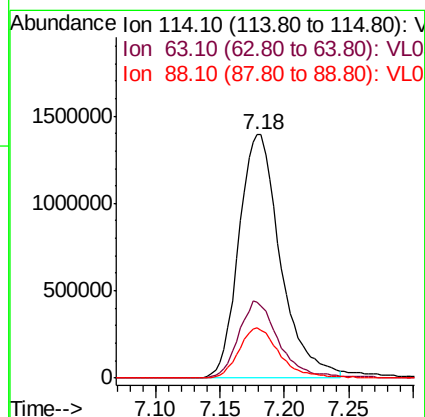
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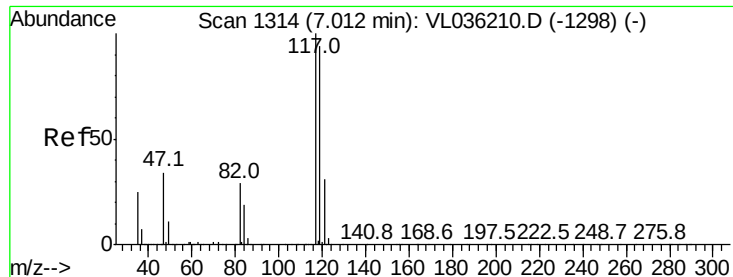
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. 0.01 min
Lab File: VL036234.D
Acq: 13 Jan 2021 20:57

Tgt Ion	Ratio	Lower	Upper
114	100		
63	31.3	24.7	37.1
88	20.5	16.6	24.8





#35

Carbon Tetrachloride

Concen: 0.069 ppbv m

RT: 7.01 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

Instrument :

MSVOA_L

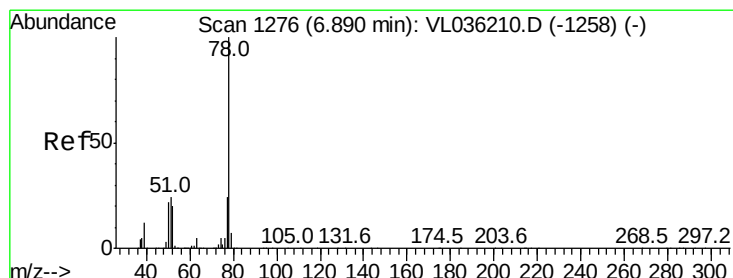
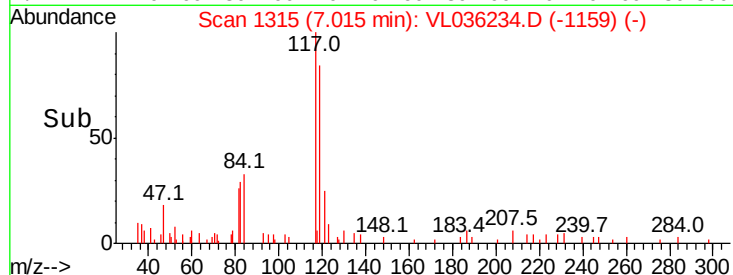
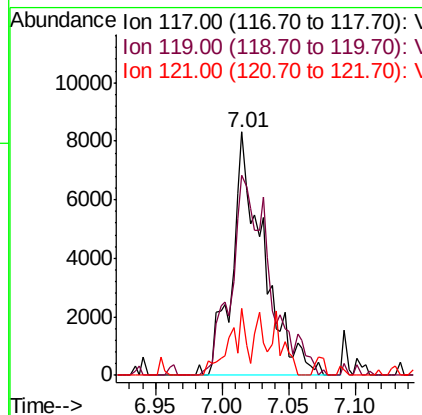
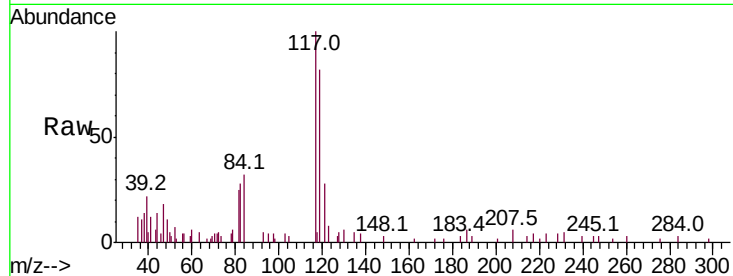
ClientSampled :

IA1

Tot Ion:	117	Resp:	13578
Ion Ratio	Lower	Upper	
117	100		
119	82.2	74.9	112.3
121	27.5	25.0	37.6

Manual Integrations
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#36

Benzene

Concen: 0.336 ppbv m

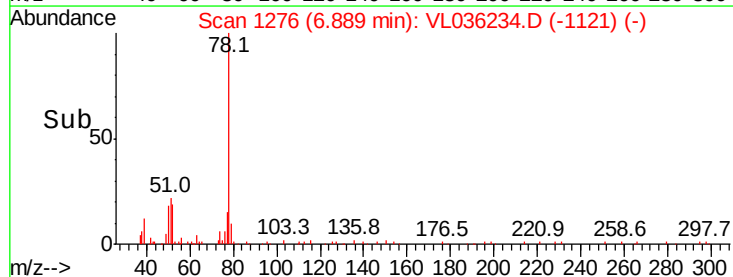
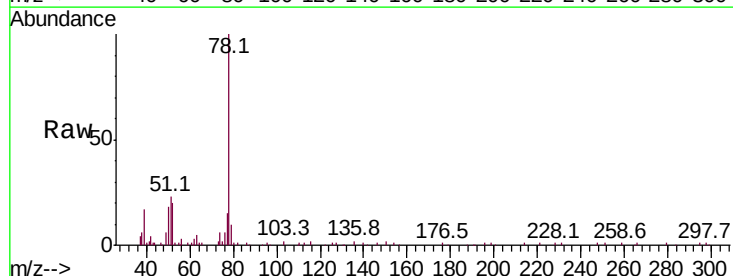
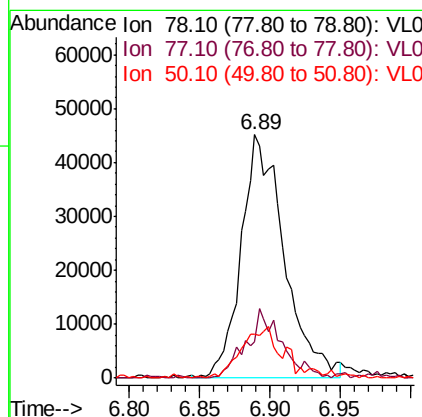
RT: 6.89 min Scan# 1276

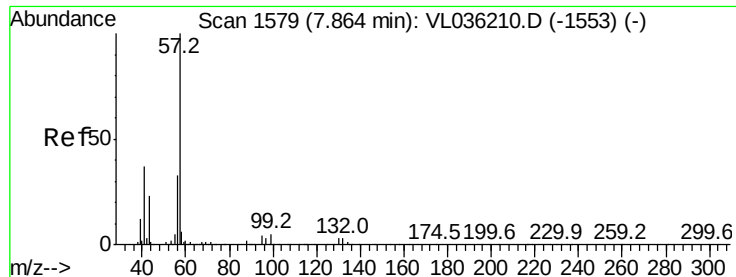
Delta R.T. -0.00 min

Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

Tgt Ion:	78	Resp:	96293
Ion Ratio	Lower	Upper	
78	100		
77	15.1	19.4	29.0#
50	18.2	17.4	26.2





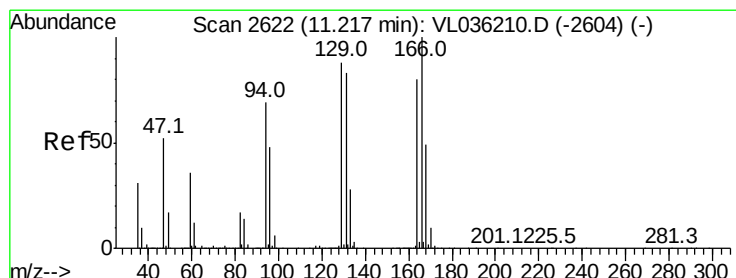
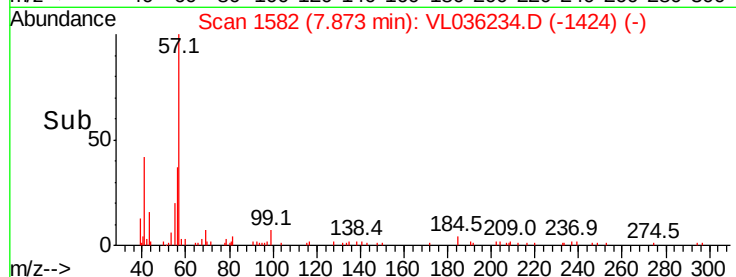
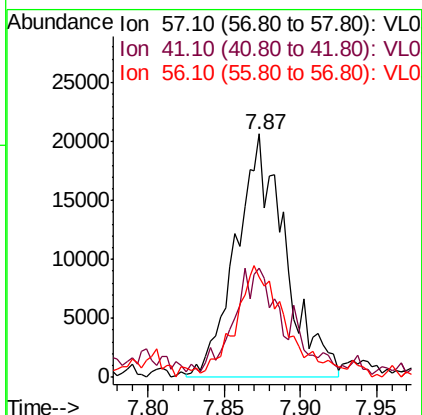
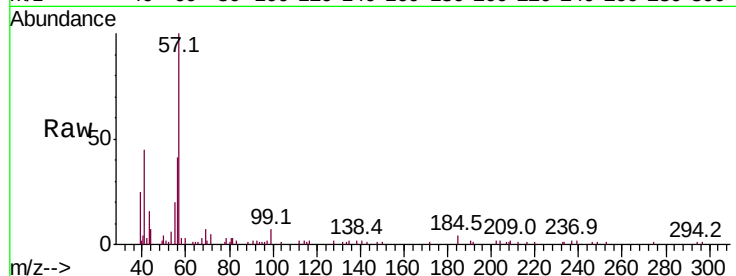
#44
2,2,4-Trimethylpentane
Concen: 0.088 ppbv m
RT: 7.87 min Scan# 1582
Delta R.T. 0.01 min
Lab File: VL036234.D
Acq: 13 Jan 2021 20:57

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	Ratio	Lower	Upper
57	100		
41	47.3	28.5	42.7#
56	47.5	25.5	38.3#

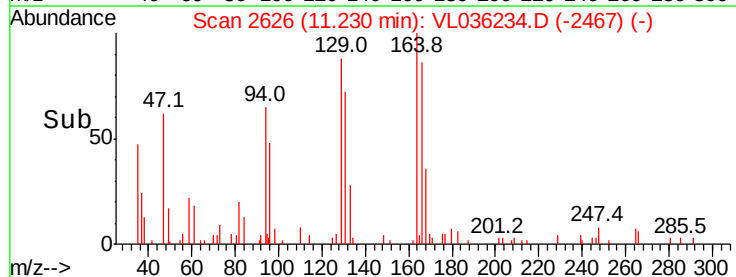
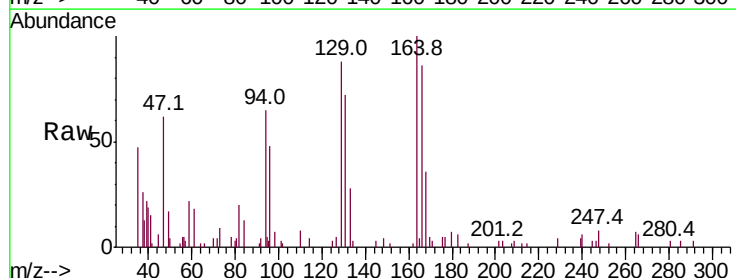
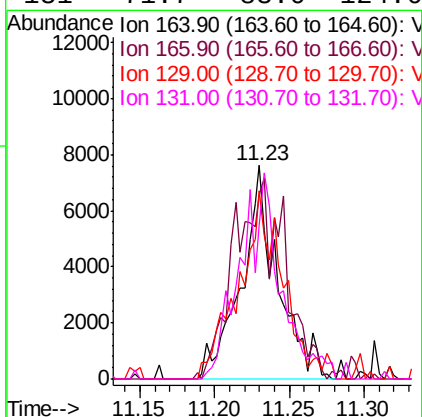
Manual Integrations
APPROVED

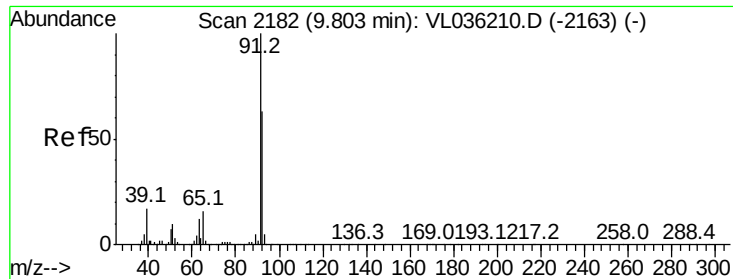
MMDadoda
1/18/2021 3:49:49 PM



#52
Tetrachloroethene
Concen: 0.123 ppbv m
RT: 11.23 min Scan# 2626
Delta R.T. 0.01 min
Lab File: VL036234.D
Acq: 13 Jan 2021 20:57

Tgt Ion	Ratio	Lower	Upper
164	100		
166	86.3	99.9	149.9#
129	87.9	88.2	132.4#
131	71.7	83.0	124.6#





#53

Toluene

Concen: 0.557 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. 0.01 min

Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

Instrument :

MSVOA_L

ClientSampled :

IA1

Tot Ion: 91 Resp: 178794

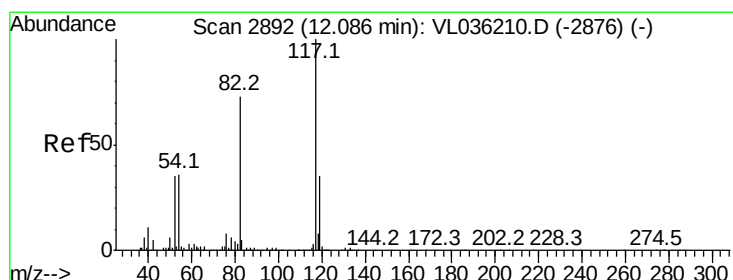
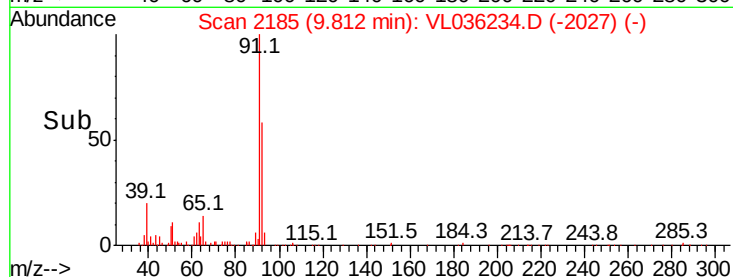
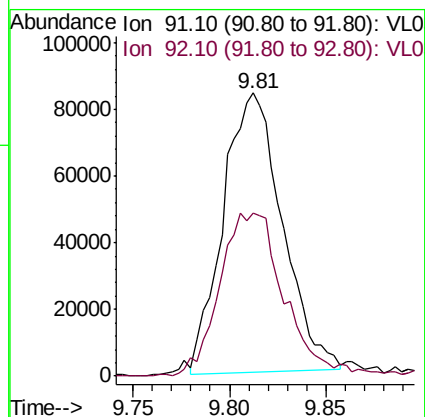
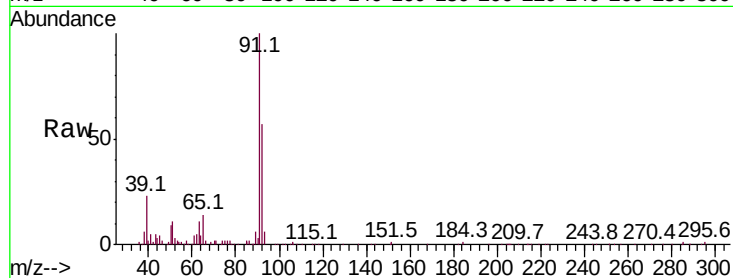
Ion Ratio Lower Upper

91 100

92 64.1 48.5 72.7

Manual Integrations
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1/18/2021 3:49:49 PM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. 0.01 min

Lab File: VL036234.D

Acq: 13 Jan 2021 20:57

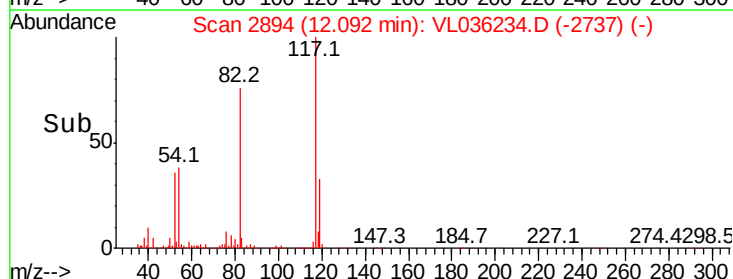
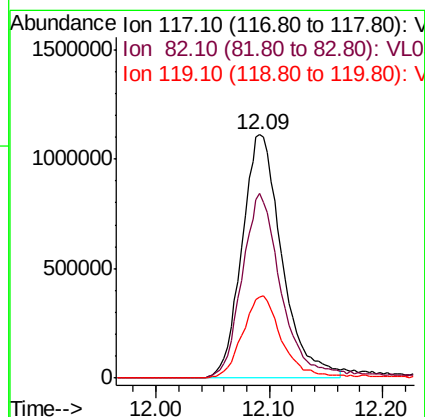
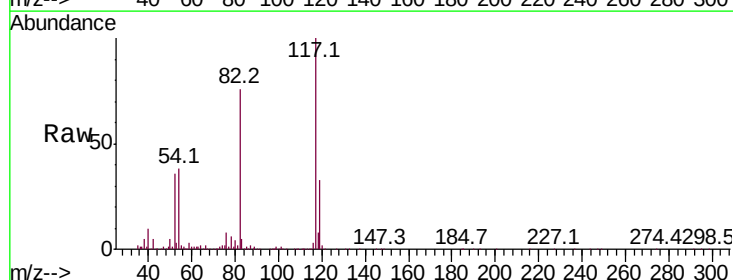
Tgt Ion: 117 Resp: 2729299

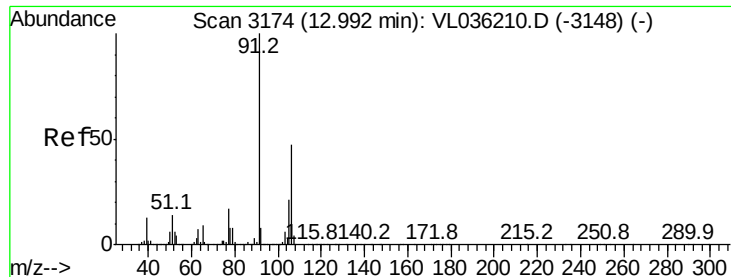
Ion Ratio Lower Upper

117 100

82 77.6 59.7 89.5

119 34.2 28.6 43.0





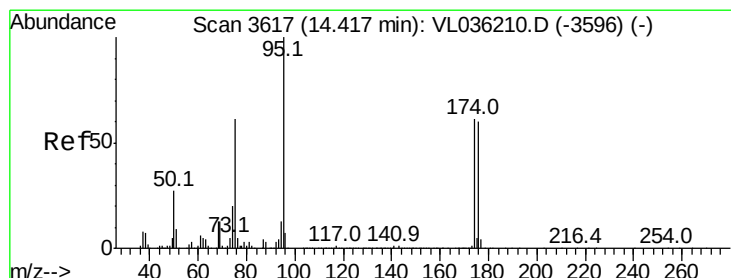
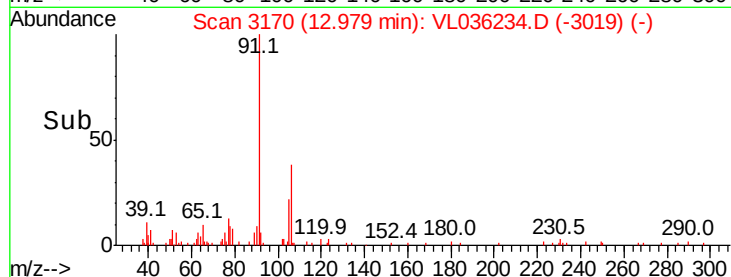
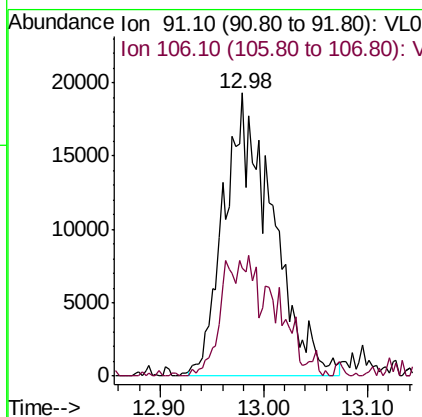
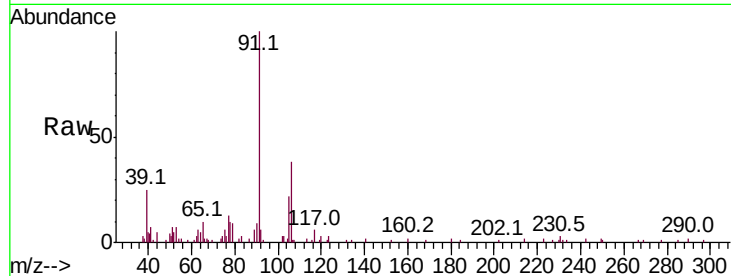
#59
m/p-Xylene
Concen: 0.180 ppbv m
RT: 12.98 min Scan# 3170
Delta R.T. -0.01 min
Lab File: VL036234.D
Acq: 13 Jan 2021 20:57

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion: 91 Resp: 62616
Ion Ratio Lower Upper
91 100
106 0.0 34.6 51.8#

Manual Integrations
APPROVED

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1/18/2021 3:49:49 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.015 ppbv
RT: 14.43 min Scan# 3620
Delta R.T. 0.01 min
Lab File: VL036234.D
Acq: 13 Jan 2021 20:57

Tgt Ion: 95 Resp: 2262435
Ion Ratio Lower Upper
95 100
174 61.7 49.4 74.0
175 4.5 3.8 5.8

