

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
 Data File : VL036239.D
 Acq On : 14 Jan 2021 00:27
 Operator : SY/AP
 Sample : M1070-03
 Misc : 400ml/MSVOA L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

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 1/18/2021 3:50:00 PM

Quant Time: Jan 14 16:32:37 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 14 16:32:37 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	1467901	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3141063	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2728177	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2340095m	10.36	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	50026m	0.254	ppbv	
3) Chlorodifluoromethane	2.99	51	122813	0.681	ppbv #	87
4) Chloromethane	3.15	50	44747m	0.502	ppbv	
9) Propene	3.02	41	91394m	1.065	ppbv	
11) Trichlorofluoromethane	3.95	101	43025	0.215	ppbv	94
13) Ethanol	3.61	45	299559m	22.222	ppbv	
15) Acetone	3.85	43	635830m	3.537	ppbv	
19) Isopropyl Alcohol	3.98	45	186049m	1.717	ppbv	
20) Methylene Chloride	4.35	84	310442m	5.410	ppbv	
26) Hexane	5.69	57	396327	2.637	ppbv #	39
35) Carbon Tetrachloride	7.02	117	14960m	0.075	ppbv	
36) Benzene	6.90	78	94021	0.327	ppbv #	88
44) 2,2,4-Trimethylpentane	7.87	57	52463m	0.099	ppbv	
52) Tetrachloroethene	11.23	164	12236m	0.115	ppbv	
53) Toluene	9.82	91	166385	0.517	ppbv	99
59) m/p-Xylene	12.98	91	104873m	0.301	ppbv	

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

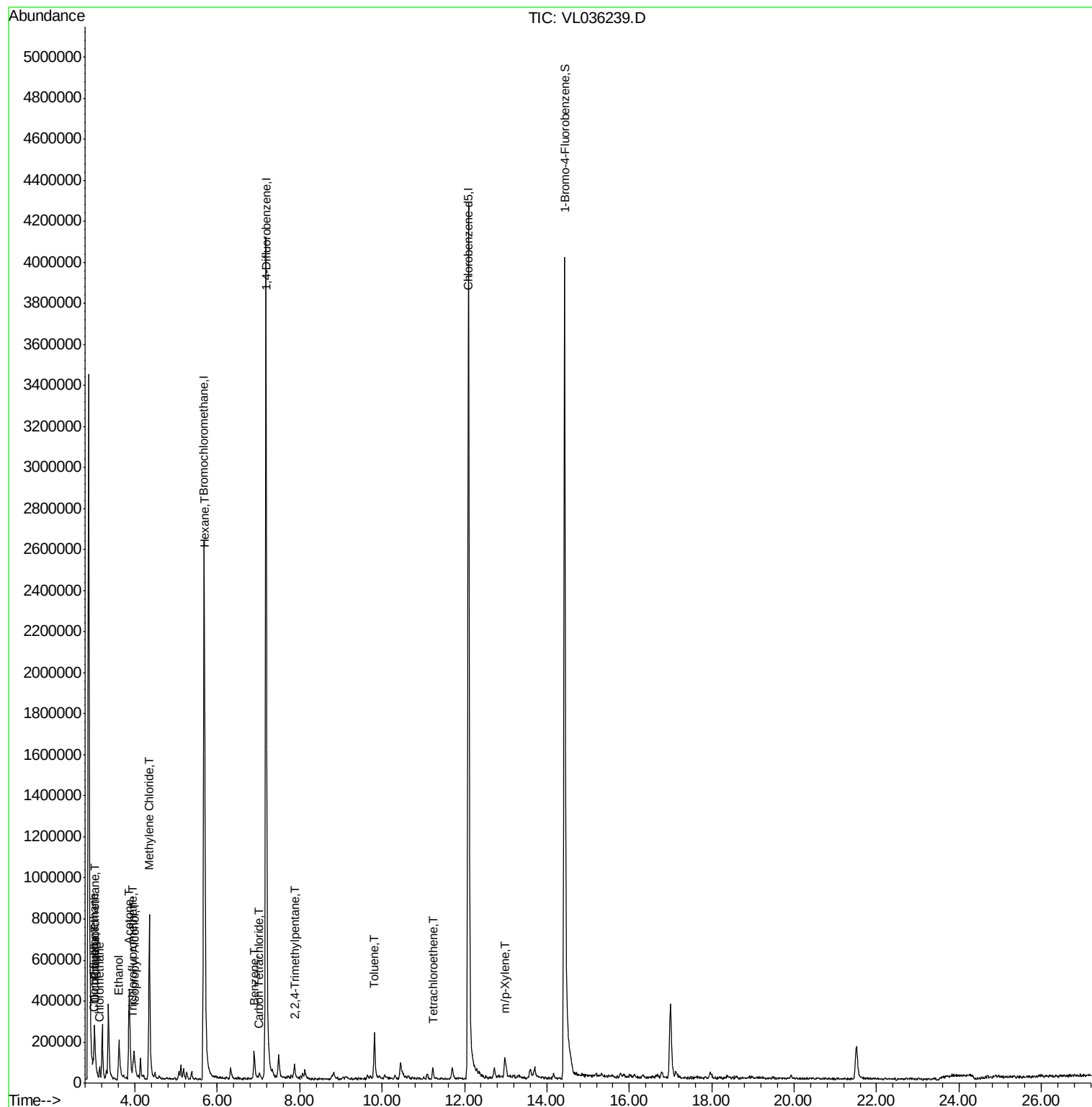
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
Data File : VL036239.D
Acq On : 14 Jan 2021 00:27
Operator : SY/AP
Sample : M1070-03
Misc : 400ml/MSVOA L
ALS Vial : 11 Sample Multiplier: 1

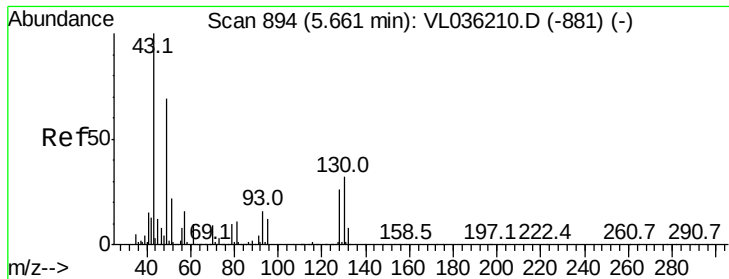
Instrument :
MSVOA_L
ClientSampled :
OA1

Manual Integrations
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Quant Time: Jan 14 16:32:37 2021
Quant Method : Z:\VOASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL036239.D

Acq: 14 Jan 2021 00:27

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 49 Resp: 1467901

Ion Ratio Lower Upper

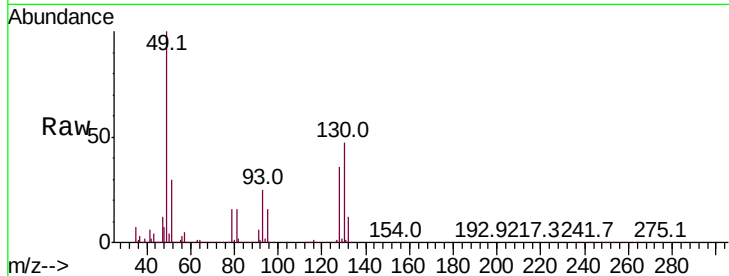
49 100

128 40.0 20.1 60.2

130 51.2 25.3 75.9

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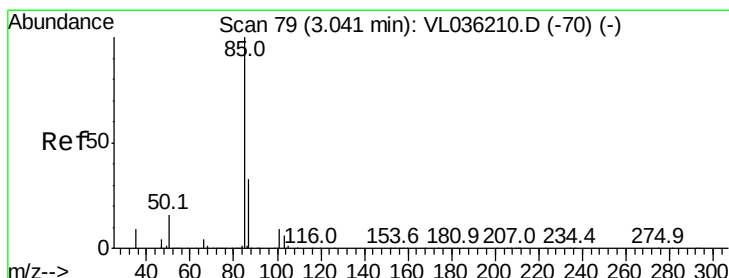
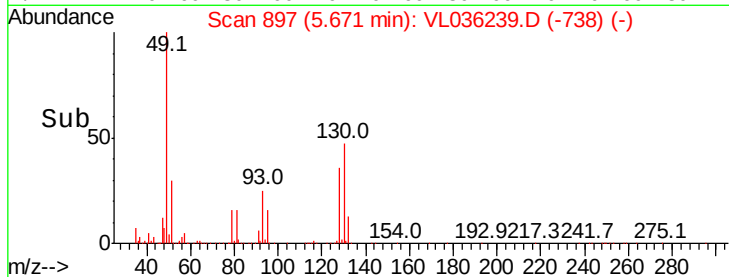
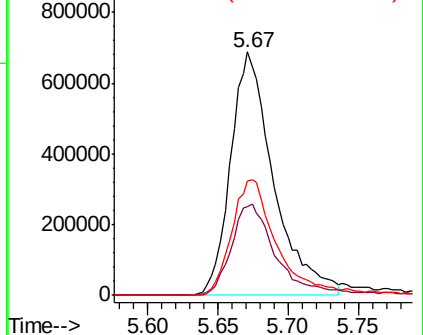
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.254 ppbv m

RT: 3.04 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL036239.D

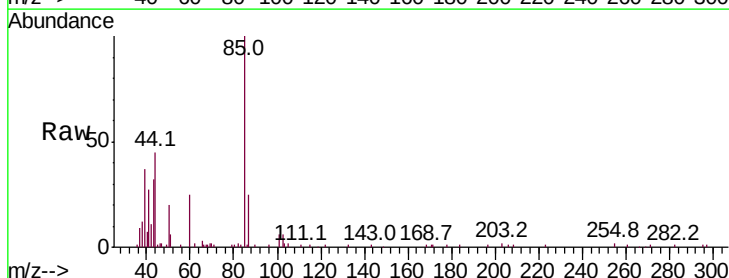
Acq: 14 Jan 2021 00:27

Tgt Ion: 85 Resp: 50026

Ion Ratio Lower Upper

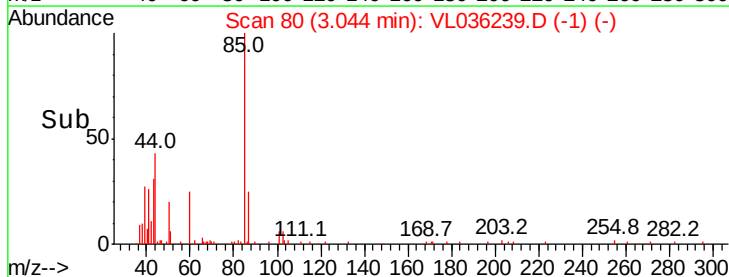
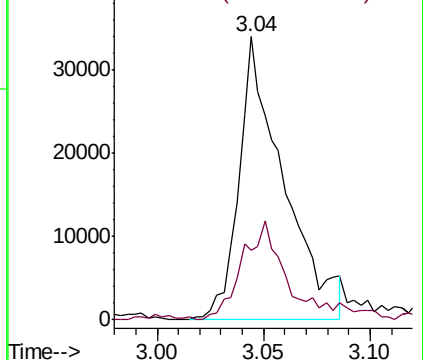
85 100

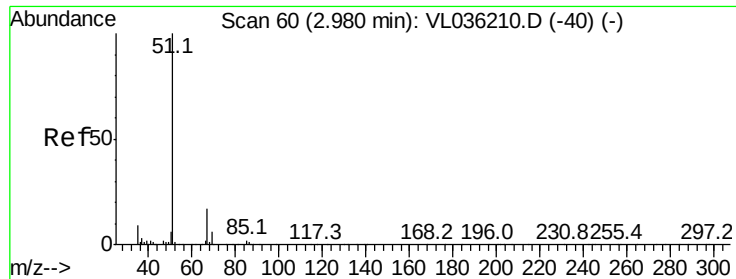
87 24.5 26.4 39.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.681 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL036239.D

Acq: 14 Jan 2021 00:27

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 51 Resp: 122813

Ion Ratio Lower Upper

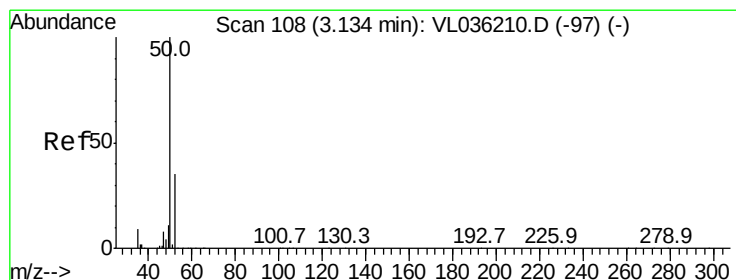
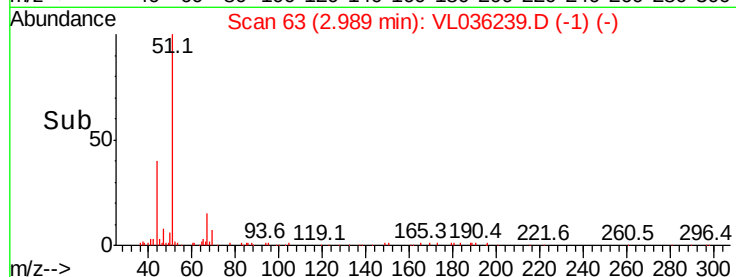
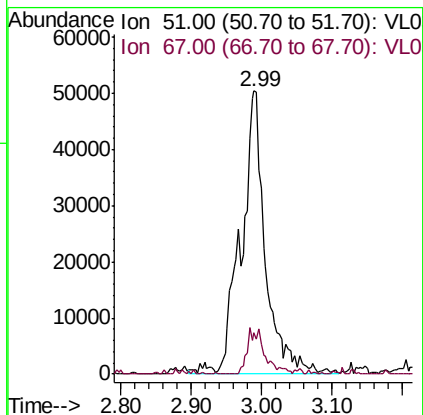
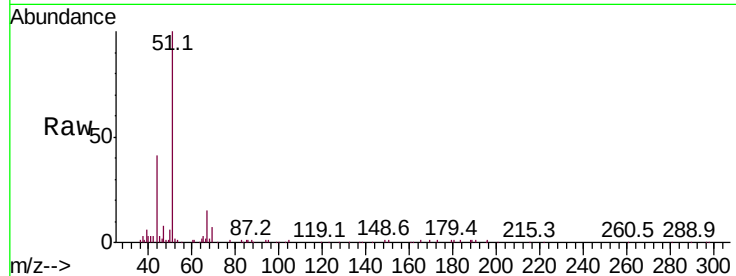
51 100

67 11.9 14.0 21.0#

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#4

Chloromethane

Concen: 0.502 ppbv m

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL036239.D

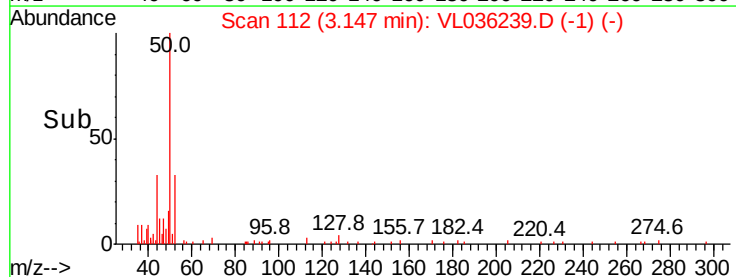
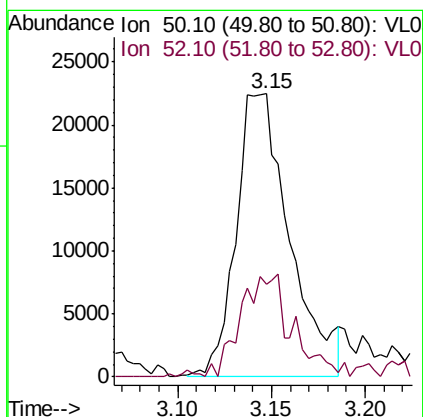
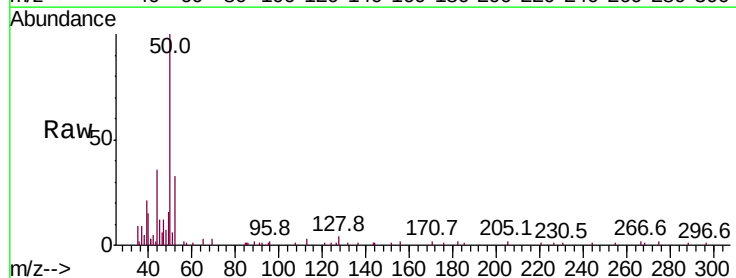
Acq: 14 Jan 2021 00:27

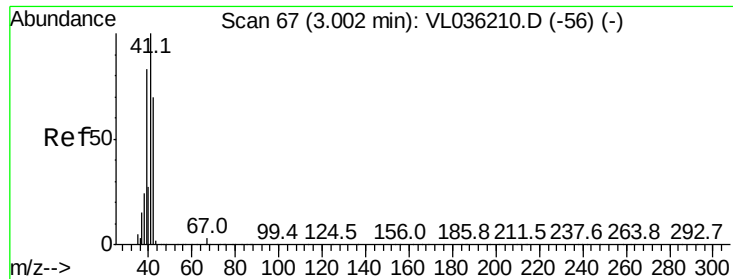
Tgt Ion: 50 Resp: 44747

Ion Ratio Lower Upper

50 100

52 32.5 27.8 41.8





#9

Propene

Concen: 1.065 ppbv m

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL036239.D

Acq: 14 Jan 2021 00:27

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 41 Resp: 91394

Ion Ratio Lower Upper

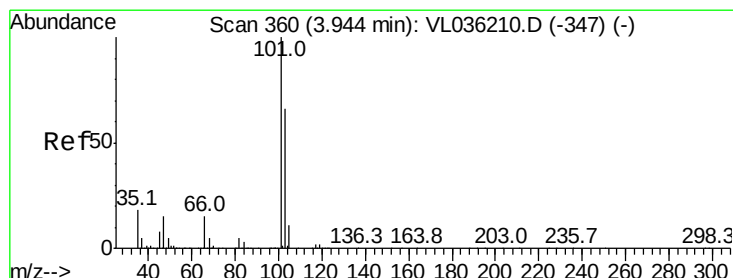
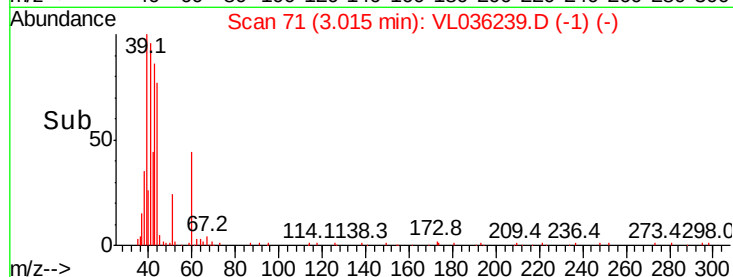
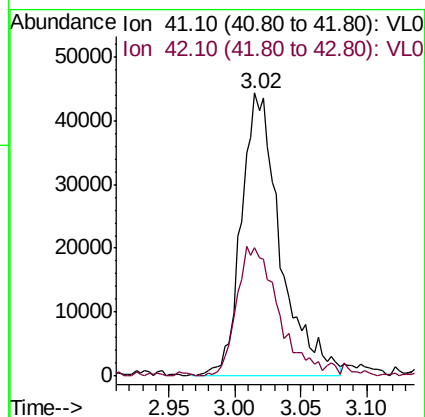
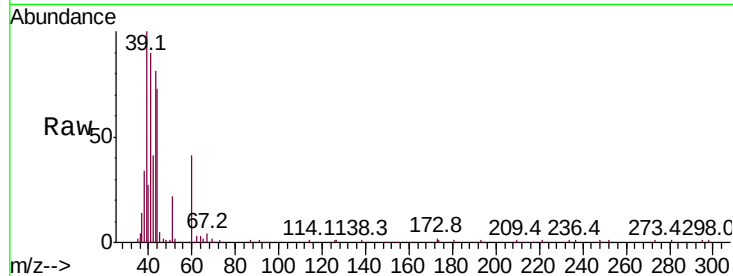
41 100

42 67.7 57.1 85.7

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#11

Trichlorofluoromethane

Concen: 0.215 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL036239.D

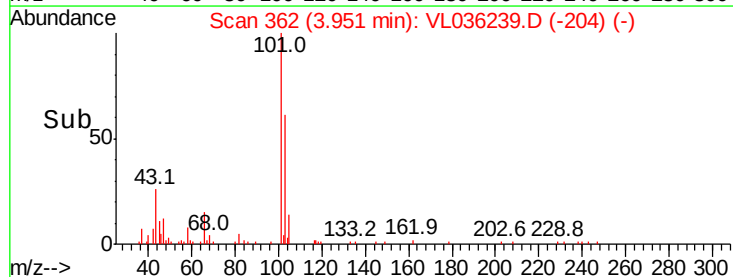
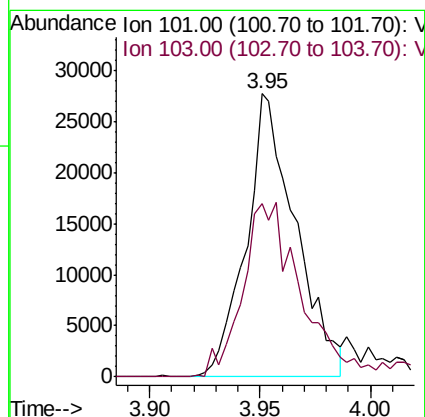
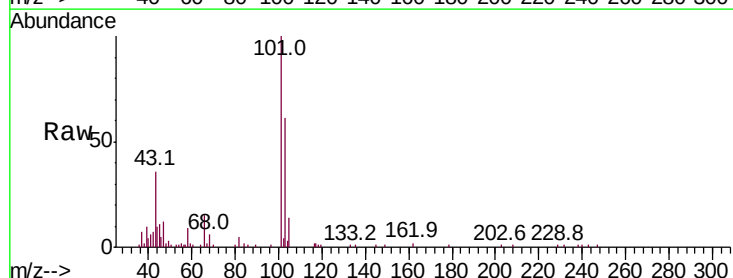
Acq: 14 Jan 2021 00:27

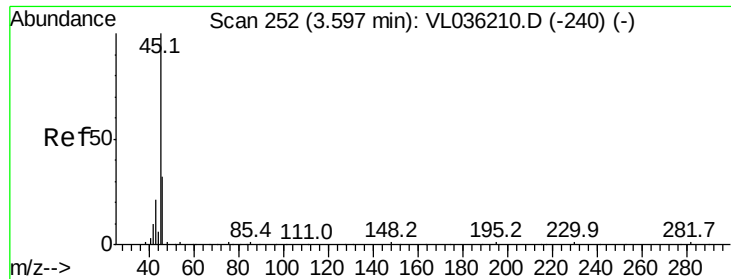
Tgt Ion: 101 Resp: 43025

Ion Ratio Lower Upper

101 100

103 61.3 52.6 78.8





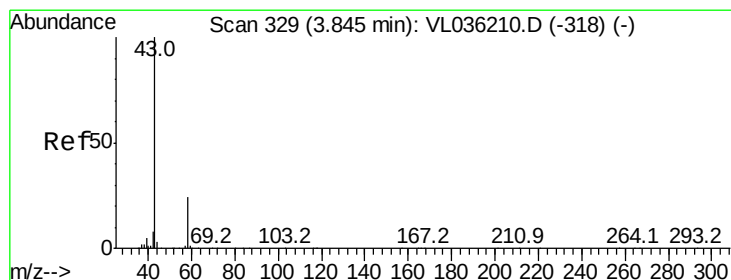
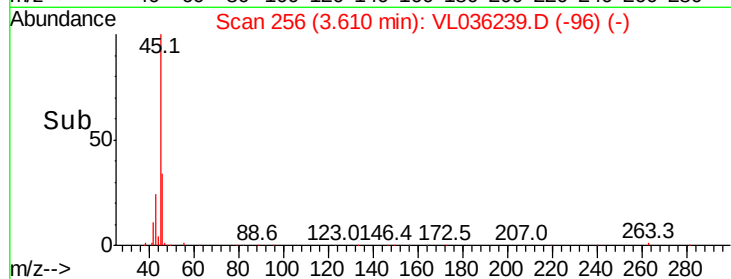
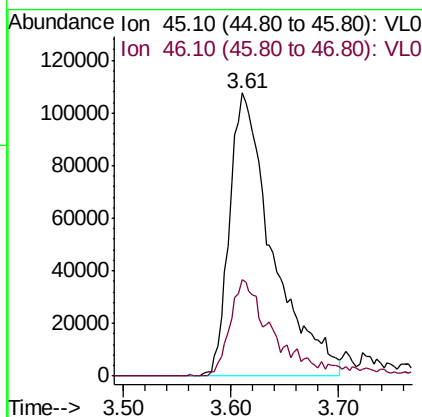
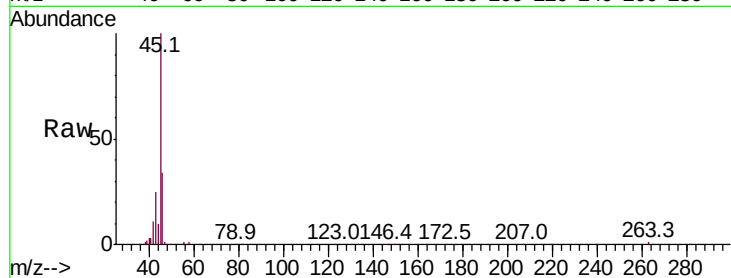
#13
Ethanol
Concen: 22.222 ppbv m
RT: 3.61 min Scan# 256
Delta R.T. 0.01 min
Lab File: VL036239.D
Acq: 14 Jan 2021 00:27

Instrument :
MSVOA_L
ClientSampleId :
QA1

Tot Ion: 45 Resp: 299559
Ion Ratio Lower Upper
45 100
46 34.8 19.2 77.0

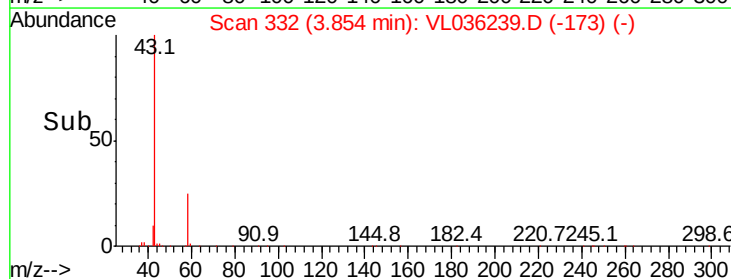
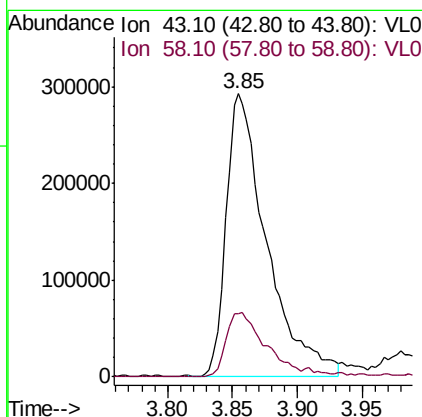
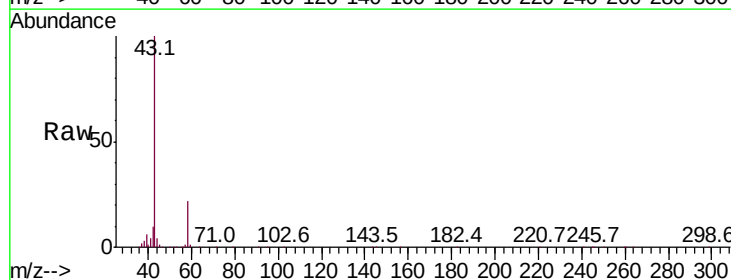
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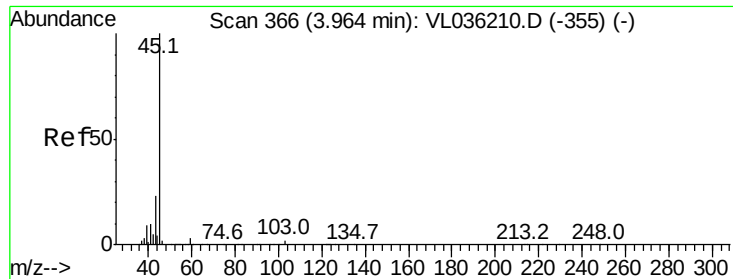
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#15
Acetone
Concen: 3.537 ppbv m
RT: 3.85 min Scan# 332
Delta R.T. 0.01 min
Lab File: VL036239.D
Acq: 14 Jan 2021 00:27

Tgt Ion: 43 Resp: 635830
Ion Ratio Lower Upper
43 100
58 23.9 20.9 31.3





#19

Isopropyl Alcohol

Concen: 1.717 ppbv m

RT: 3.98 min Scan# 371

Delta R.T. 0.02 min

Lab File: VL036239.D

Acq: 14 Jan 2021 00:27

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 45 Resp: 186049

Ion Ratio Lower Upper

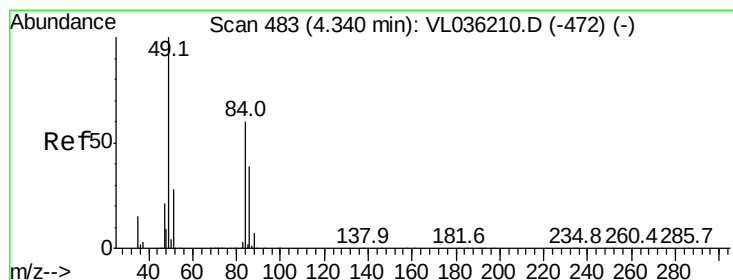
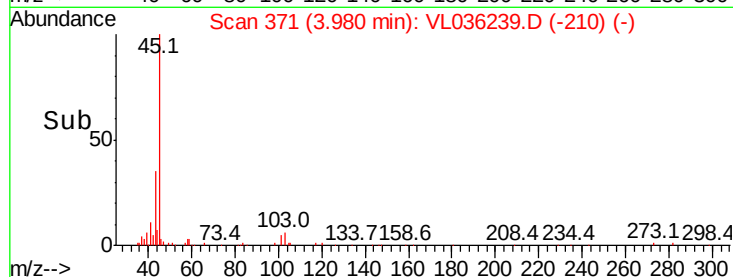
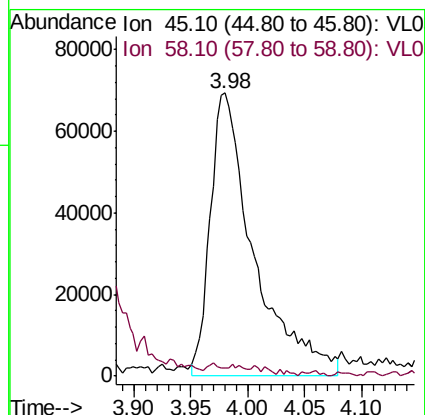
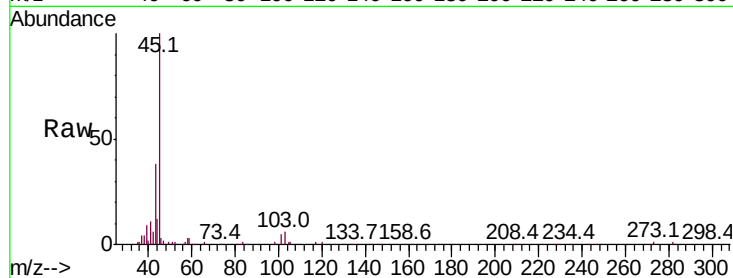
45 100

58 2.6 1.9 2.9

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#20

Methylene Chloride

Concen: 5.410 ppbv m

RT: 4.35 min Scan# 485

Delta R.T. 0.01 min

Lab File: VL036239.D

Acq: 14 Jan 2021 00:27

Tgt Ion: 84 Resp: 310442

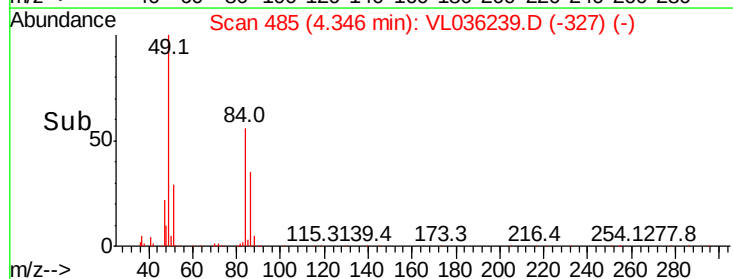
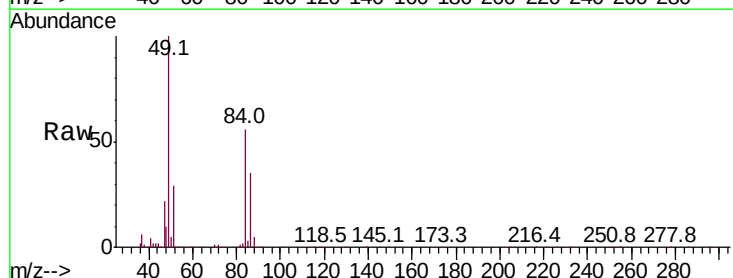
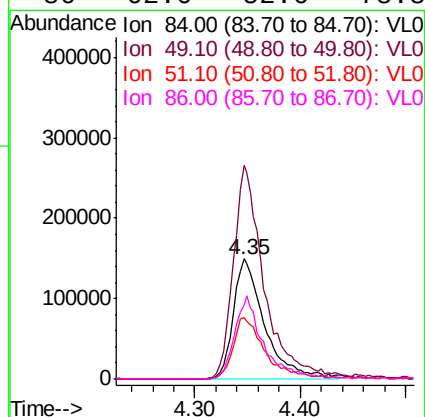
Ion Ratio Lower Upper

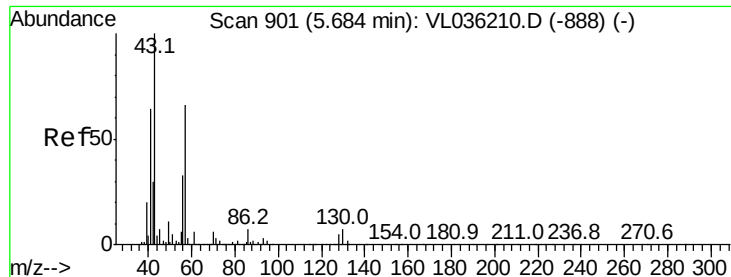
84 100

49 178.2 134.1 201.1

51 51.7 37.4 56.0

86 62.0 52.6 78.8





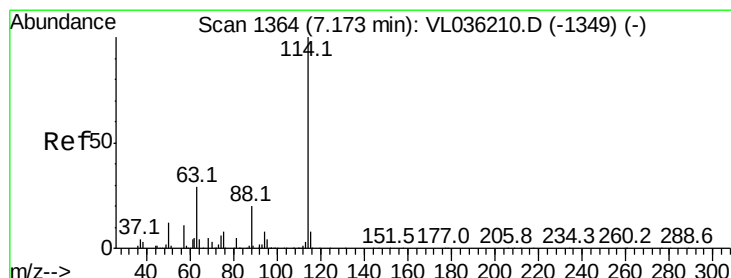
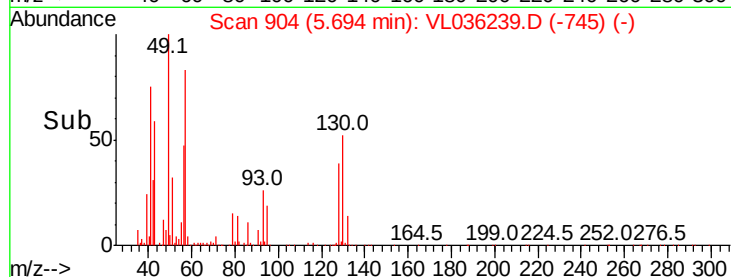
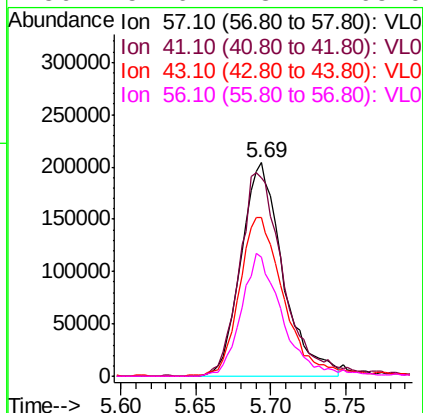
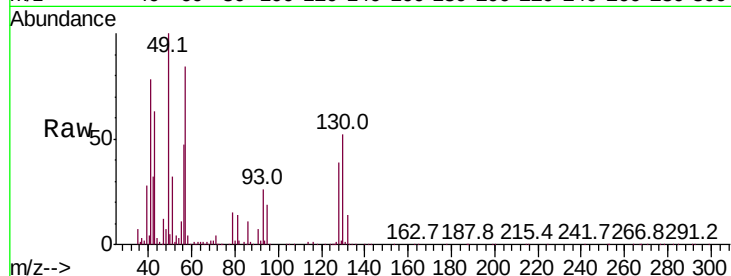
#26
Hexane
Concen: 2.637 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL036239.D
Acq: 14 Jan 2021 00:27

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion	Ratio	Lower	Upper
57	100		
41	103.7	83.0	124.6
43	81.3	202.4	303.6#
56	57.6	43.4	65.0

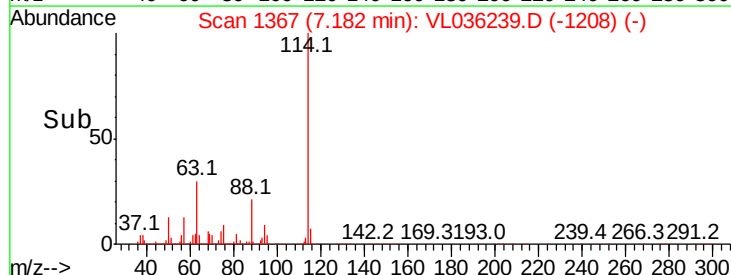
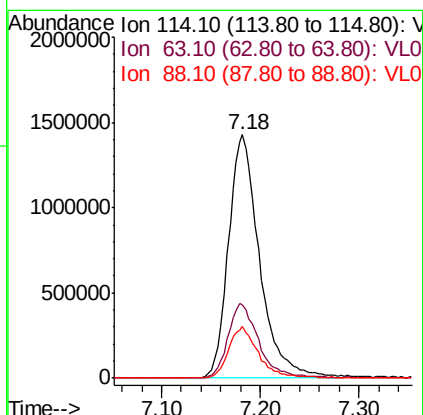
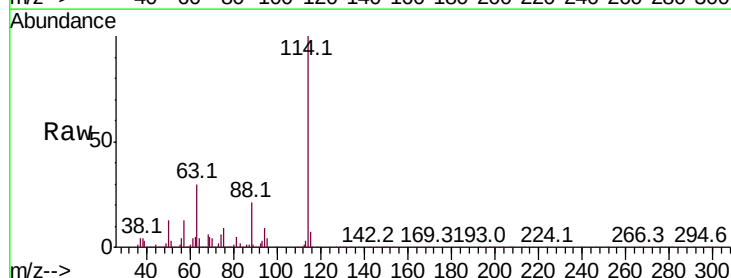
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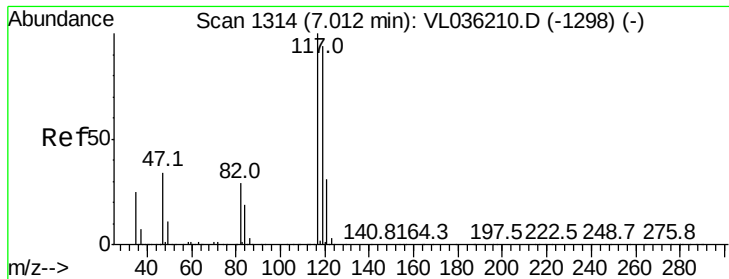
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. 0.01 min
Lab File: VL036239.D
Acq: 14 Jan 2021 00:27

Tgt Ion	Ratio	Lower	Upper
114	100		
63	30.7	24.7	37.1
88	20.4	16.6	24.8





#35

Carbon Tetrachloride

Concen: 0.075 ppbv m

RT: 7.02 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VL036239.D

Acq: 14 Jan 2021 00:27

Instrument :

MSVOA_L

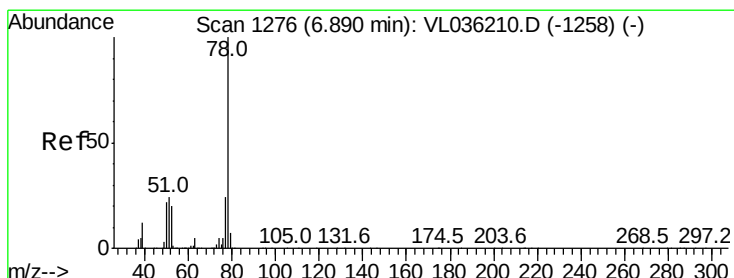
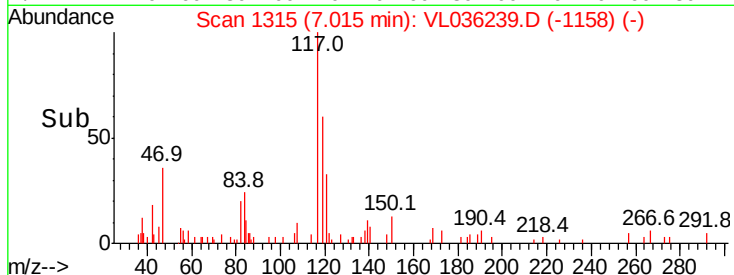
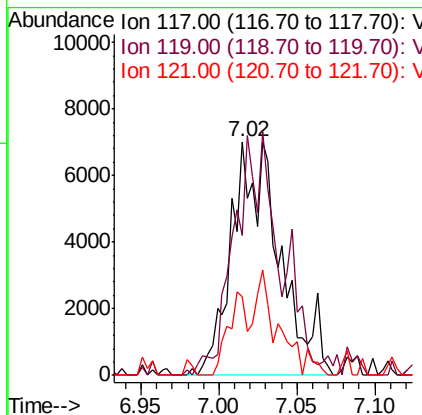
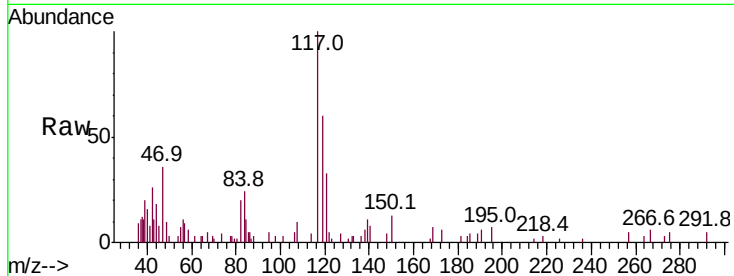
ClientSampled :

QA1

Tot Ion:	117	Resp:	14960
Ion Ratio	Lower	Upper	
117	100		
119	59.8	74.9	112.3#
121	33.5	25.0	37.6

Manual Integrations
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#36

Benzene

Concen: 0.327 ppbv

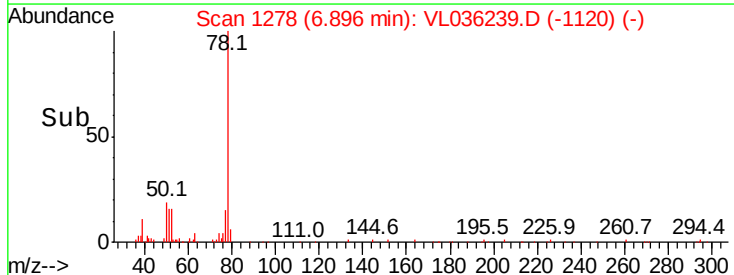
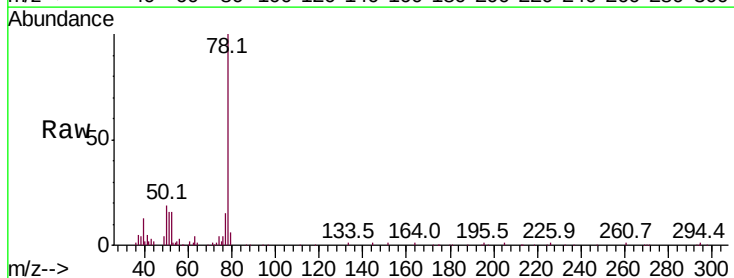
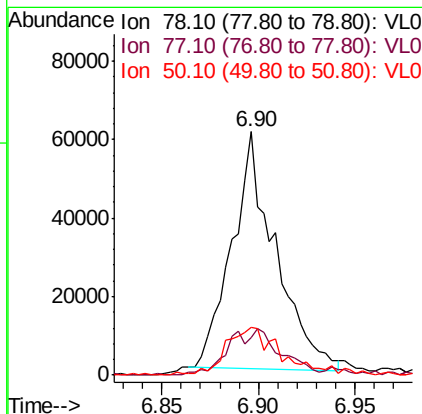
RT: 6.90 min Scan# 1278

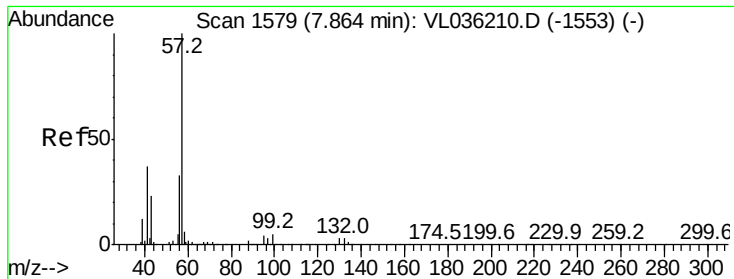
Delta R.T. 0.01 min

Lab File: VL036239.D

Acq: 14 Jan 2021 00:27

Tgt Ion:	78	Resp:	94021
Ion Ratio	Lower	Upper	
78	100		
77	14.8	19.4	29.0#
50	19.6	17.4	26.2





#44

2,2,4-Trimethylpentane

Concen: 0.099 ppbv m

RT: 7.87 min Scan# 1582

Delta R.T. 0.01 min

Lab File: VL036239.D

Acq: 14 Jan 2021 00:27

Instrument :

MSVOA_L

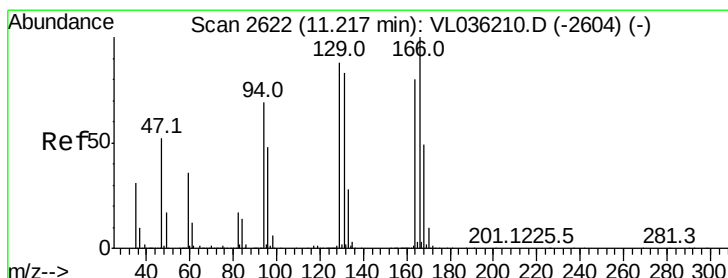
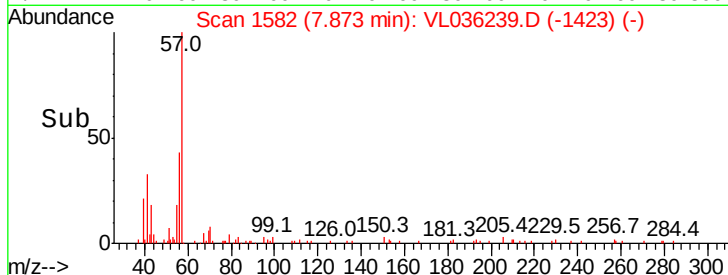
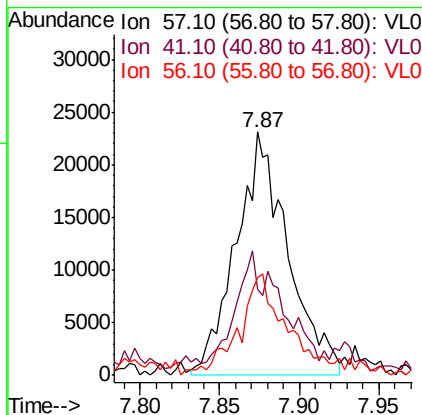
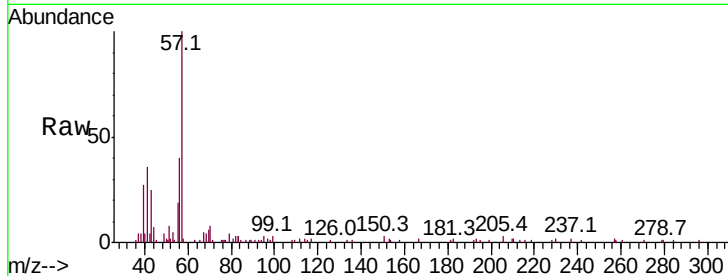
ClientSampled :

QA1

Tot Ion:	57	Resp:	52463
Ion Ratio	Lower	Upper	
57	100		
41	58.0	28.5	42.7#
56	41.8	25.5	38.3#

Manual Integrations
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#52

Tetrachloroethene

Concen: 0.115 ppbv m

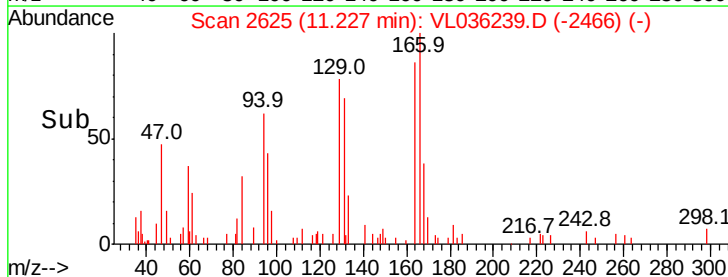
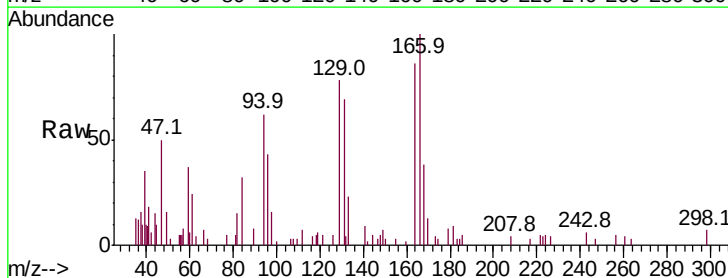
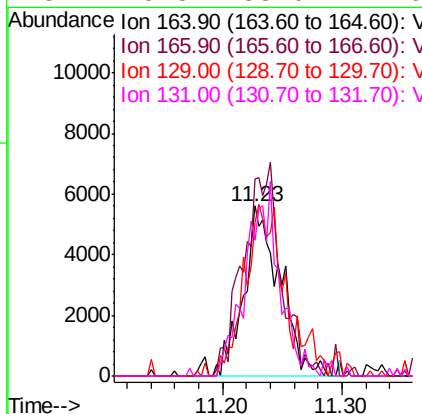
RT: 11.23 min Scan# 2625

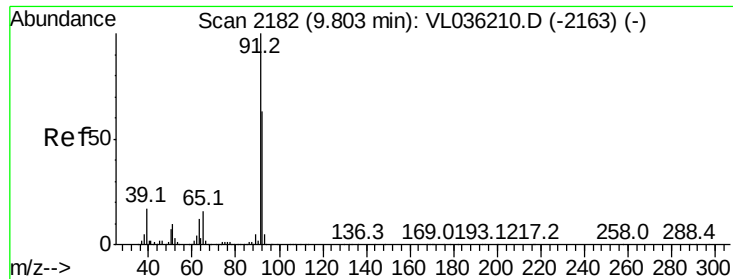
Delta R.T. 0.01 min

Lab File: VL036239.D

Acq: 14 Jan 2021 00:27

Tgt Ion:	164	Resp:	12236
Ion Ratio	Lower	Upper	
164	100		
166	116.4	99.9	149.9
129	90.3	88.2	132.4
131	79.8	83.0	124.6#





#53

Toluene

Concen: 0.517 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.01 min

Lab File: VL036239.D

Acq: 14 Jan 2021 00:27

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 91 Resp: 166385

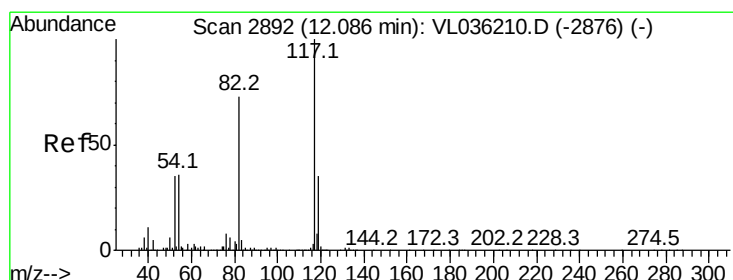
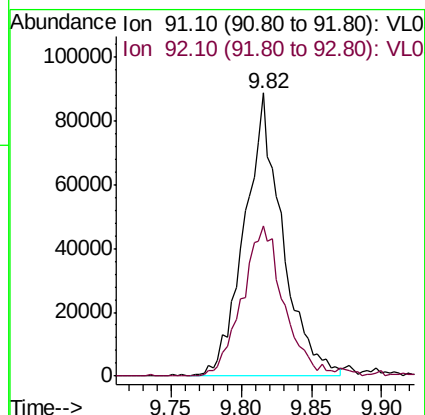
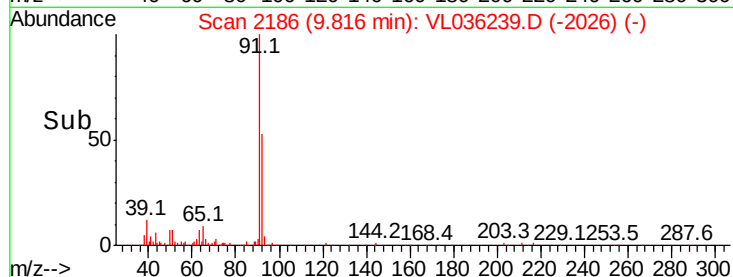
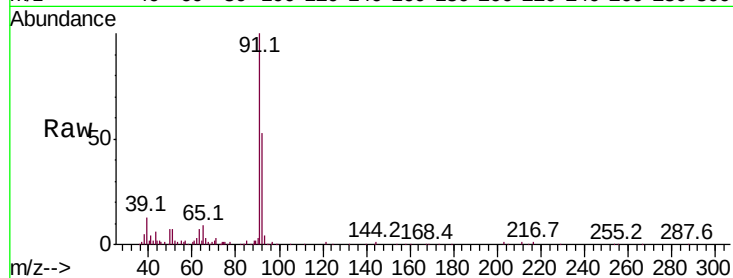
Ion Ratio Lower Upper

91 100

92 59.5 48.5 72.7

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2895

Delta R.T. 0.01 min

Lab File: VL036239.D

Acq: 14 Jan 2021 00:27

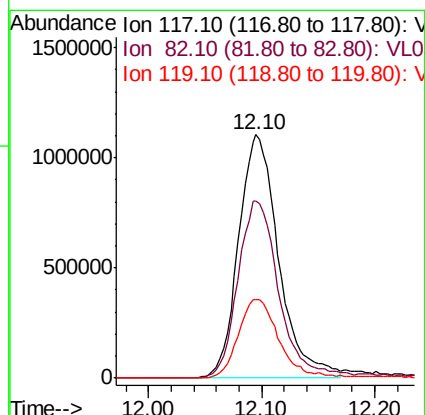
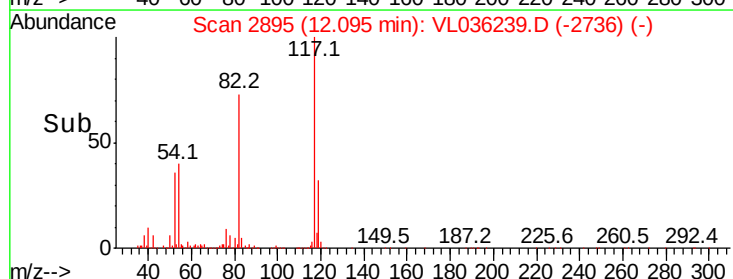
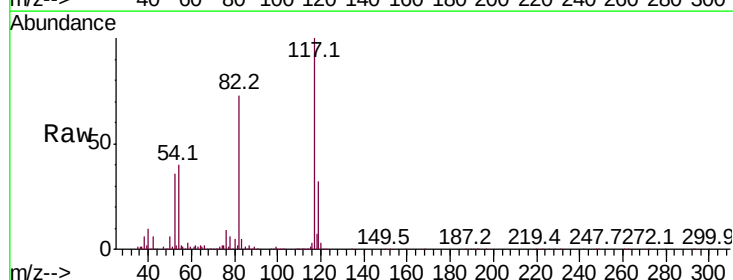
Tgt Ion: 117 Resp: 2728177

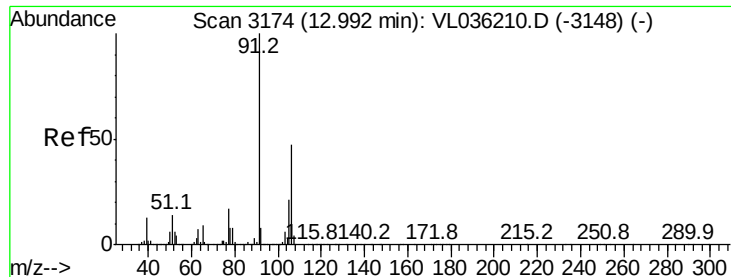
Ion Ratio Lower Upper

117 100

82 77.6 59.7 89.5

119 33.1 28.6 43.0





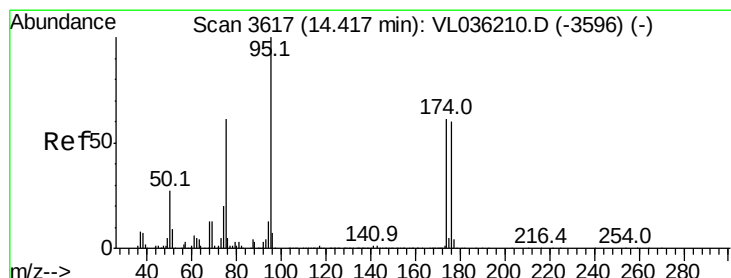
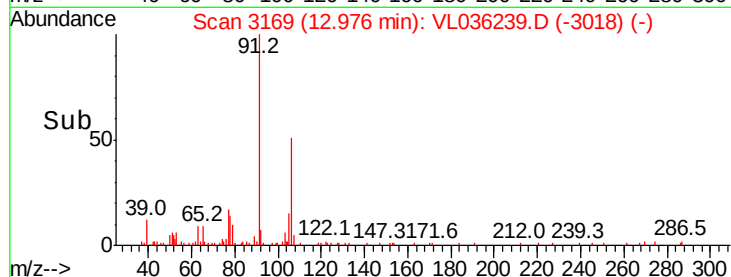
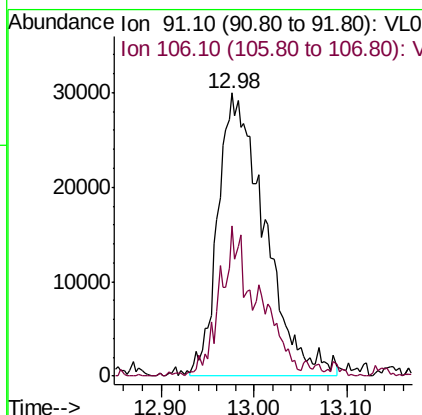
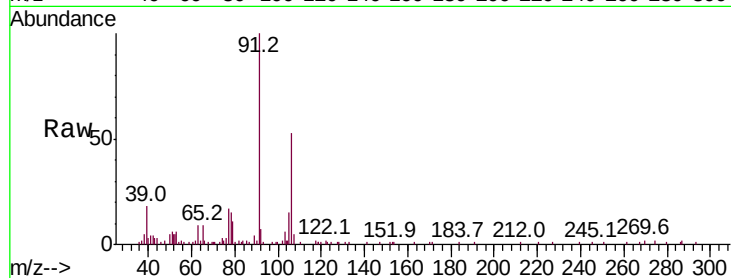
#59
m/p-Xylene
Concen: 0.301 ppbv m
RT: 12.98 min Scan# 3169
Delta R.T. -0.02 min
Lab File: VL036239.D
Acq: 14 Jan 2021 00:27

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion: 91 Resp: 104873
Ion Ratio Lower Upper
91 100
106 0.0 34.6 51.8#

Manual Integrations
APPROVED

MMDadoda
1/18/2021 3:50:00 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.363 ppbv m
RT: 14.43 min Scan# 3621
Delta R.T. 0.01 min
Lab File: VL036239.D
Acq: 14 Jan 2021 00:27

Tgt Ion: 95 Resp: 2340095
Ion Ratio Lower Upper
95 100
174 60.7 49.4 74.0
175 4.3 3.8 5.8

