

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122320\
 Data File : VL036201.D
 Acq On : 23 Dec 2020 20:51
 Operator : SY/AP
 Sample : L5196-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IIA2

Manual Integrations
 APPROVED

MMDadoda
 12/26/2020 1:36:32 PM

Quant Time: Dec 25 23:45:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 0
 QLast Update : Mon Dec 07 16:56:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1382242	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.15	114	2721351	10.00	ppbv	-0.05
55) Chlorobenzene-d5	12.06	117	2409325	10.00	ppbv	-0.05

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2110551	11.03	ppbv	-0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	55735m	0.346	ppbv	
3) Chlorodifluoromethane	2.97	51	187627	1.190	ppbv	97
4) Chloromethane	3.12	50	34058	0.440	ppbv	98
9) Propene	3.00	41	145923m	1.847	ppbv	
10) Heptane	8.10	43	41829m	0.207	ppbv	
11) Trichlorofluoromethane	3.93	101	61146	0.323	ppbv	91
13) Ethanol	3.58	45	1531162	140.591	ppbv	84
15) Acetone	3.83	43	696246m	4.191	ppbv	
19) Isopropyl Alcohol	3.94	45	970910m	9.562	ppbv	
20) Methylene Chloride	4.32	84	135678m	1.993	ppbv	
26) Hexane	5.66	57	416923	2.791	ppbv #	42
34) 2-Butanone	5.22	43	62496	0.346	ppbv	92
35) Carbon Tetrachloride	6.98	117	12012m	0.076	ppbv	
36) Benzene	6.86	78	108850	0.472	ppbv #	91
44) 2,2,4-Trimethylpentane	7.84	57	99954	0.239	ppbv #	73
53) Toluene	9.78	91	320857m	1.239	ppbv	
58) Ethyl Benzene	12.69	91	55427m	0.168	ppbv	
59) m/p-Xylene	12.94	91	168123m	0.605	ppbv	
60) o-Xylene	13.67	91	63485	0.242	ppbv	95
74) 1,2,4-Trimethylbenzene	16.74	105	56544m	0.208	ppbv	

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

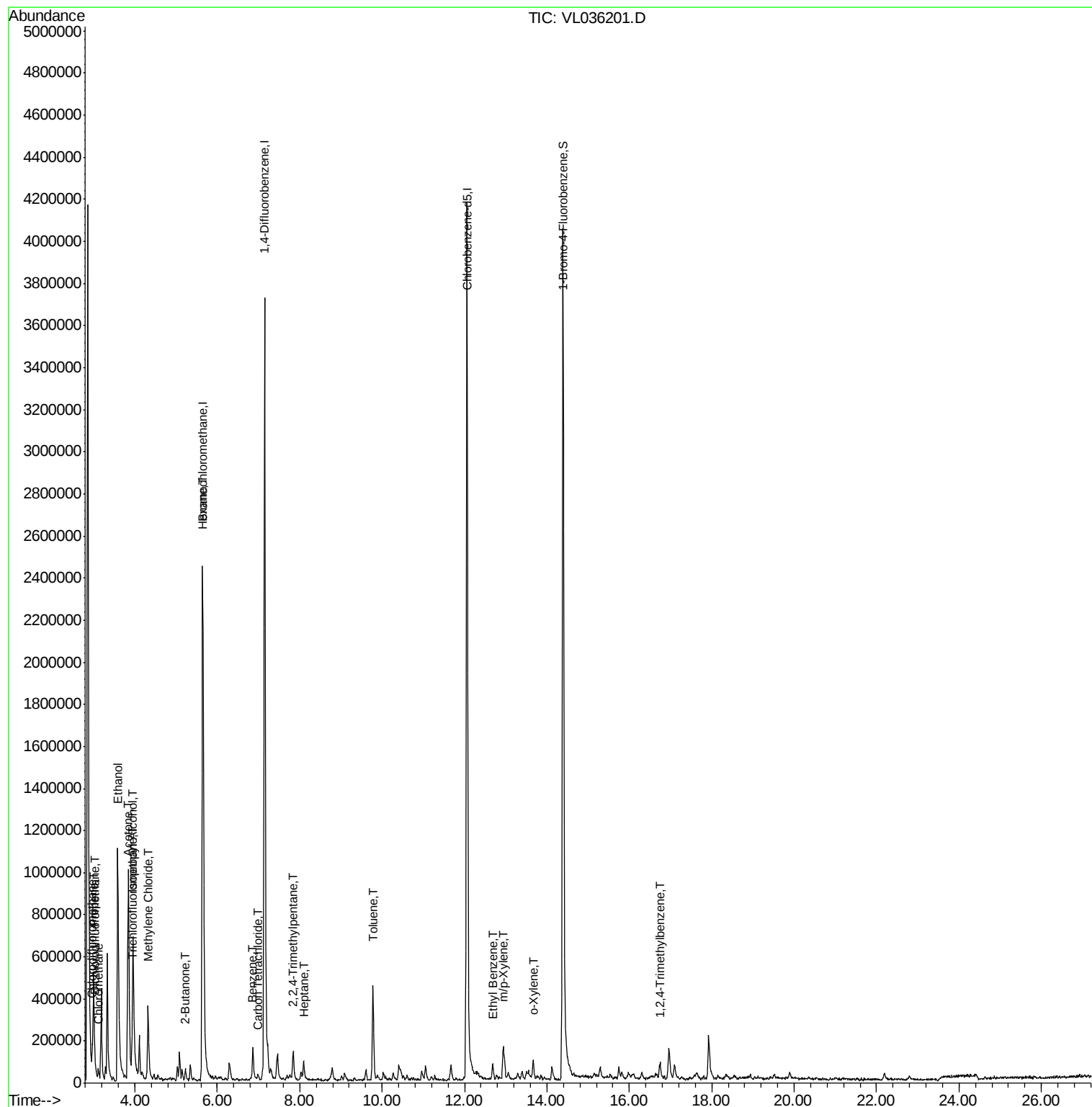
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL122320\
Data File : VL036201.D
Acq On : 23 Dec 2020 20:51
Operator : SY/AP
Sample : L5196-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

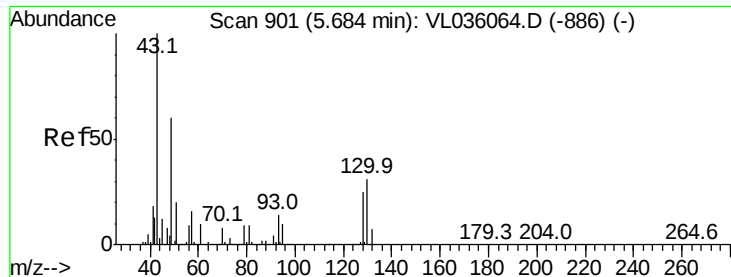
Instrument :
MSVOA_L
ClientSampleId :
IIA2

Manual Integrations
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Quant Time: Dec 25 23:45:50 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 07 16:56:49 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.04 min

Lab File: VL036201.D

Acq: 23 Dec 2020 20:51

Instrument :

MSVOA_L

ClientSampled :

IIA2

Tot Ion: 49 Resp: 1382242

Ion Ratio Lower Upper

49 100

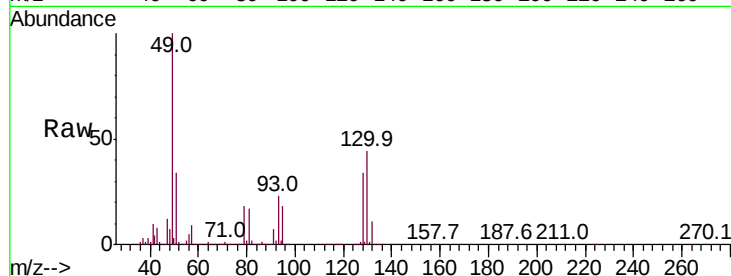
128 35.5 21.1 63.1

130 45.3 27.1 81.3

Manual Integrations
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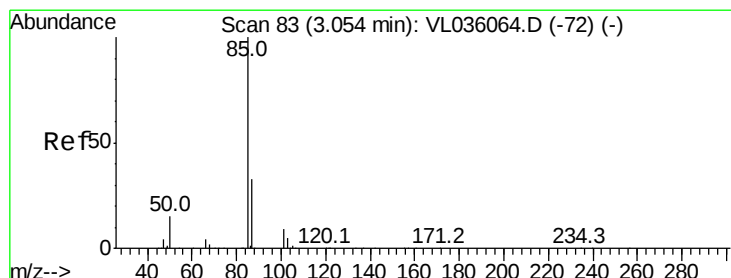
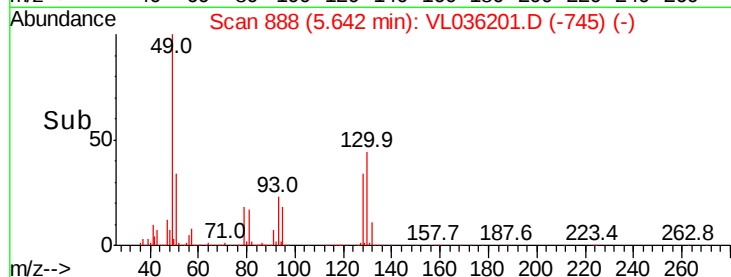
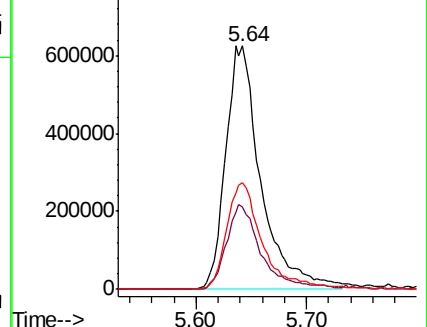
12/26/2020 1:36:32 PM



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: 0.346 ppbv m

RT: 3.03 min Scan# 75

Delta R.T. -0.03 min

Lab File: VL036201.D

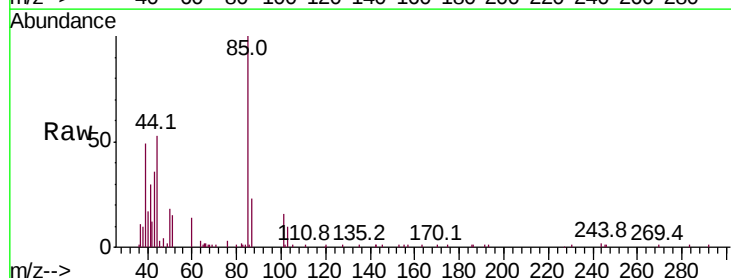
Acq: 23 Dec 2020 20:51

Tgt Ion: 85 Resp: 55735

Ion Ratio Lower Upper

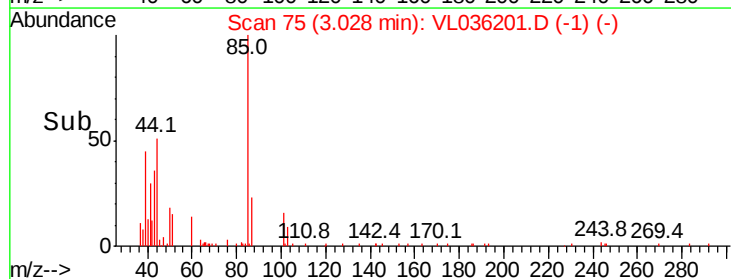
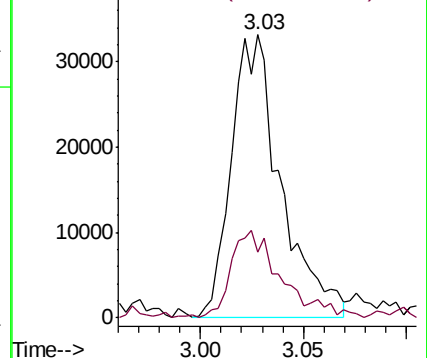
85 100

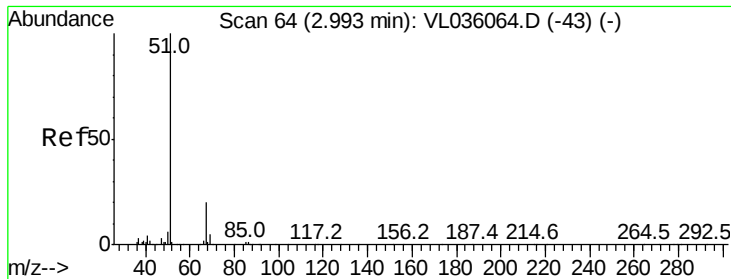
87 23.5 26.5 39.7#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.190 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.03 min

Lab File: VL036201.D

Acq: 23 Dec 2020 20:51

Instrument :

MSVOA_L

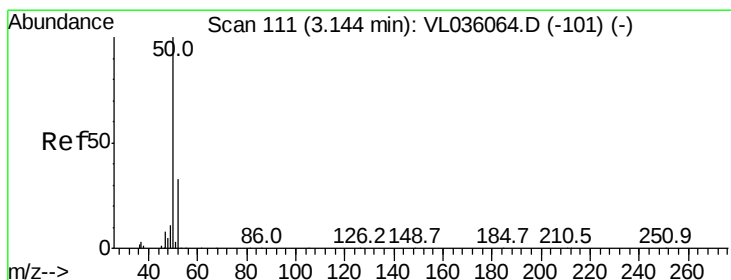
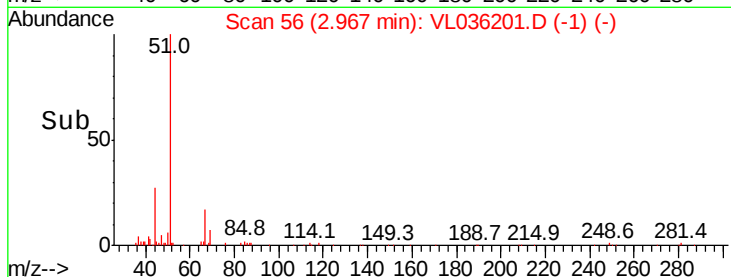
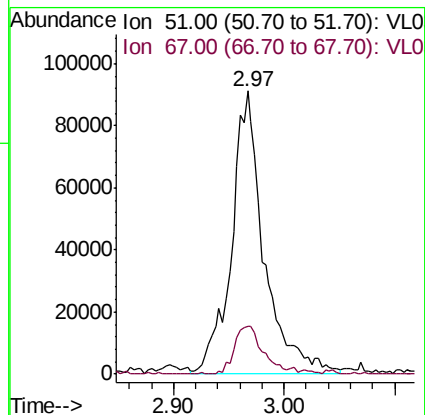
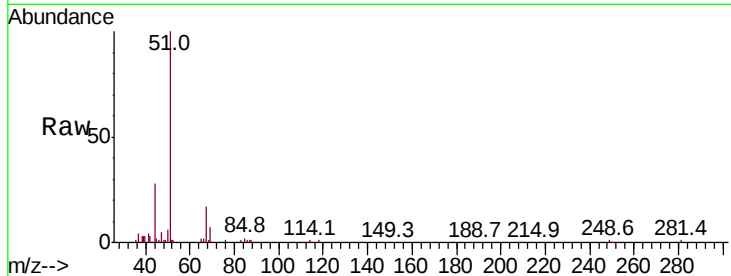
ClientSampleId :

IIA2

Tot Ion	Ratio	Lower	Upper
51	100		
67	16.4	14.3	21.5

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#4

Chloromethane

Concen: 0.440 ppbv

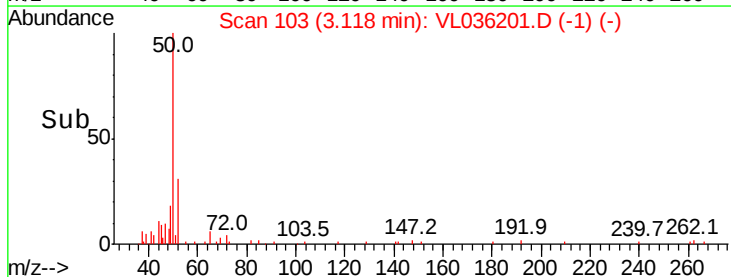
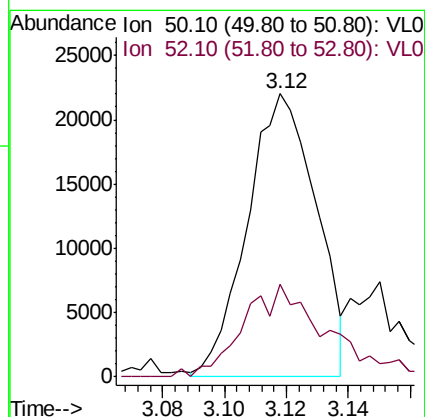
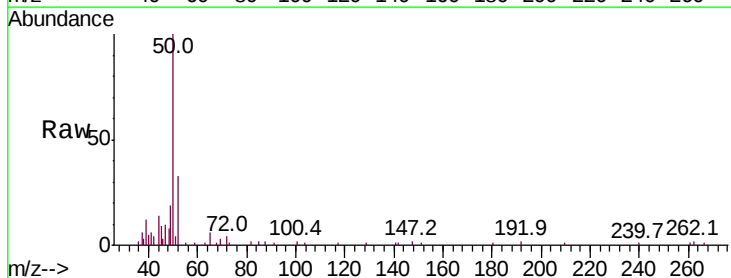
RT: 3.12 min Scan# 103

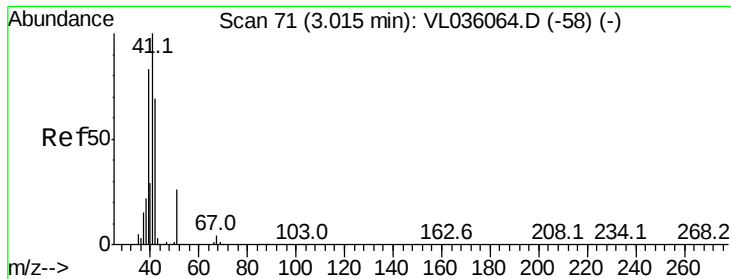
Delta R.T. -0.03 min

Lab File: VL036201.D

Acq: 23 Dec 2020 20:51

Tgt Ion	Ratio	Lower	Upper
50	100		
52	33.6	26.1	39.1





#9

Propene

Concen: 1.847 ppbv m

RT: 3.00 min Scan# 65

Delta R.T. -0.02 min

Lab File: VL036201.D

Acq: 23 Dec 2020 20:51

Instrument :

MSVOA_L

ClientSampled :

IIA2

Tot Ion: 41 Resp: 145923

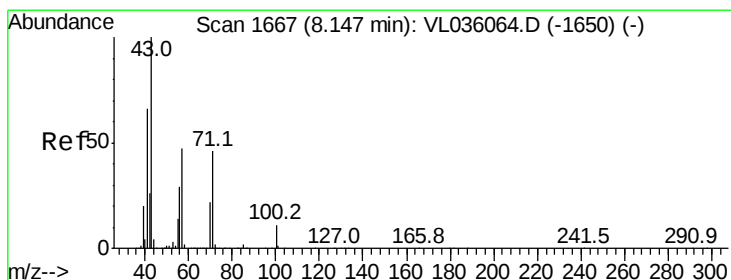
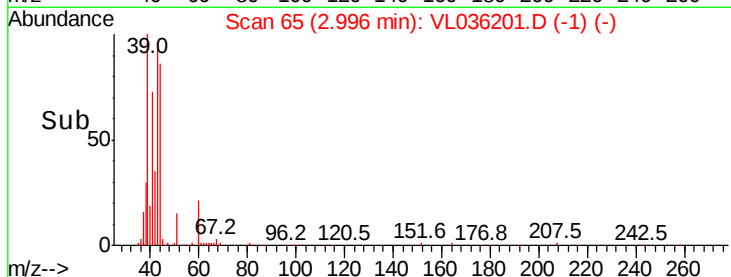
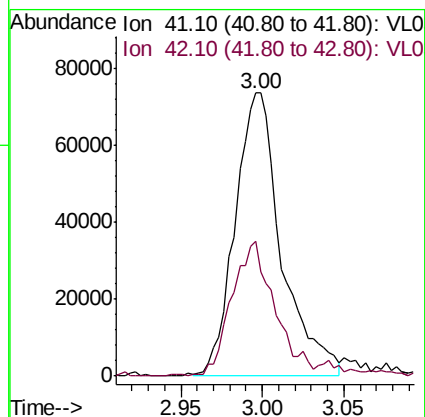
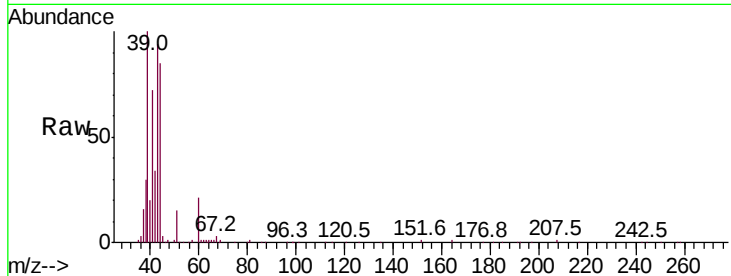
Ion Ratio Lower Upper

41 100

42 70.0 57.0 85.6

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#10

Heptane

Concen: 0.207 ppbv m

RT: 8.10 min Scan# 1651

Delta R.T. -0.05 min

Lab File: VL036201.D

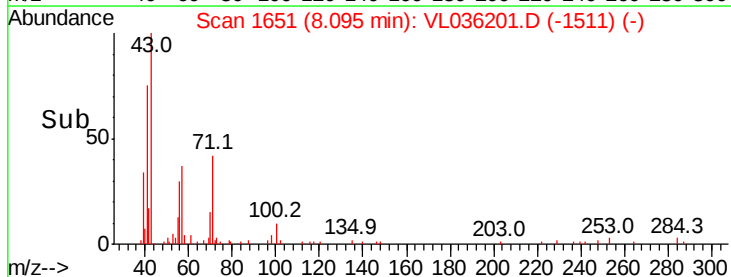
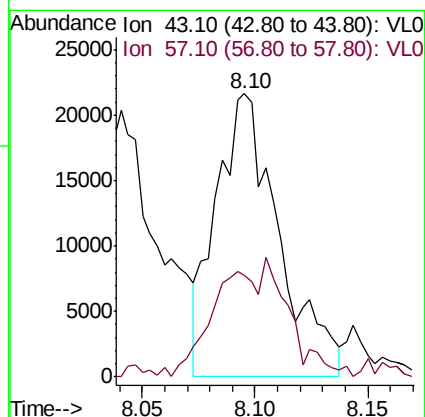
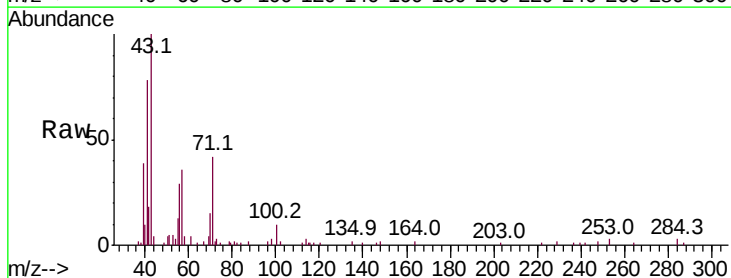
Acq: 23 Dec 2020 20:51

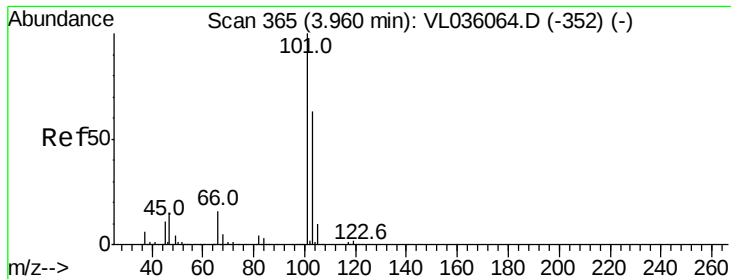
Tgt Ion: 43 Resp: 41829

Ion Ratio Lower Upper

43 100

57 0.0 37.9 56.9#





#11

Trichlorofluoromethane

Concen: 0.323 ppbv

RT: 3.93 min Scan# 354

Delta R.T. -0.04 min

Lab File: VL036201.D

Acq: 23 Dec 2020 20:51

Instrument :

MSVOA_L

ClientSampleId :

IIA2

Tot Ion:101 Resp: 61146

Ion Ratio Lower Upper

101 100

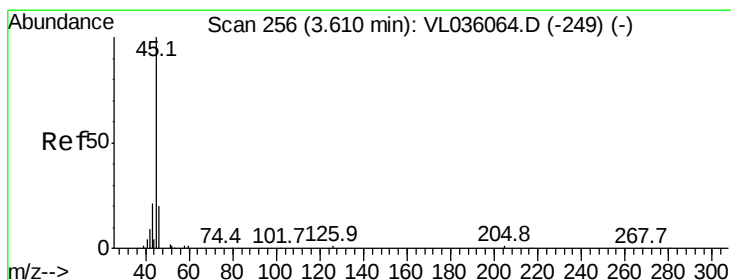
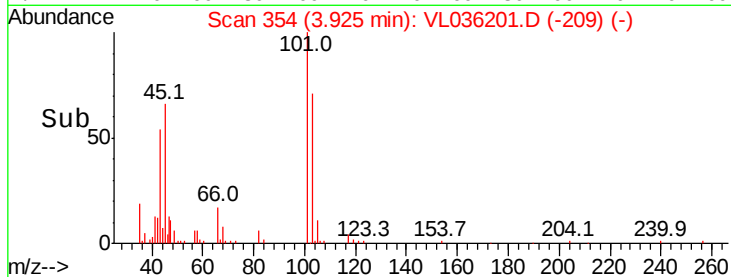
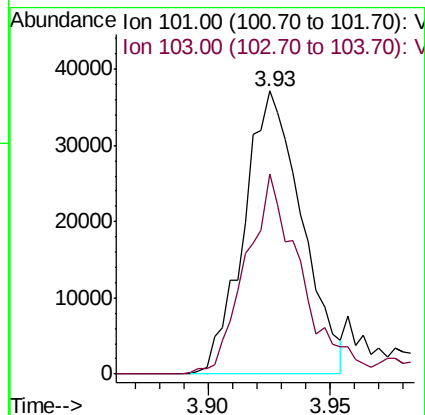
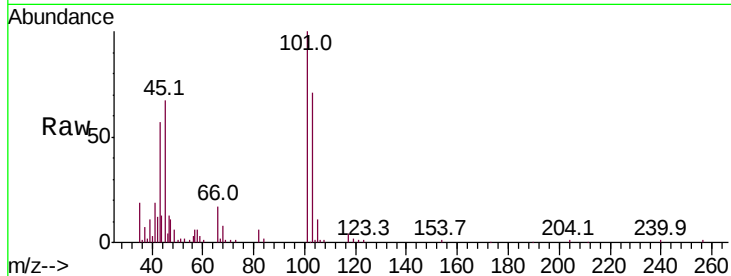
103 70.0 50.3 75.5

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#13

Ethanol

Concen: 140.591 ppbv

RT: 3.58 min Scan# 247

Delta R.T. -0.03 min

Lab File: VL036201.D

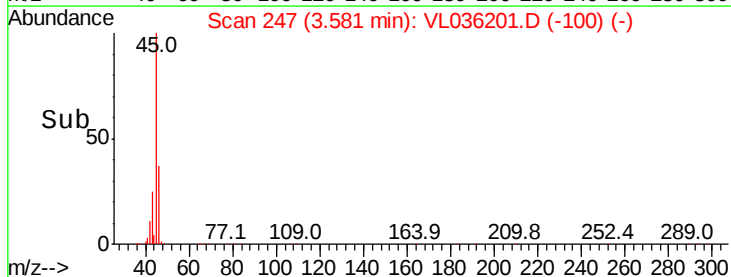
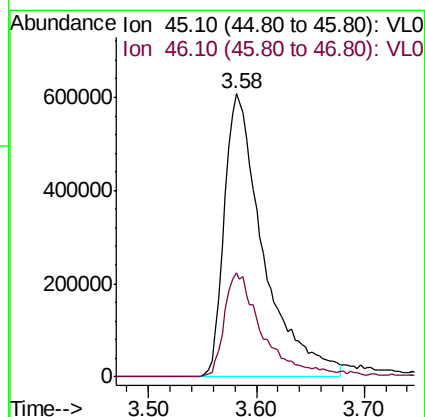
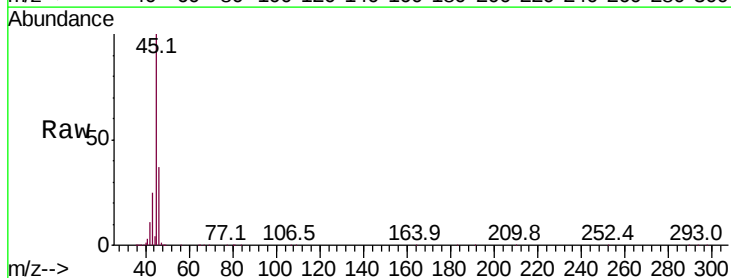
Acq: 23 Dec 2020 20:51

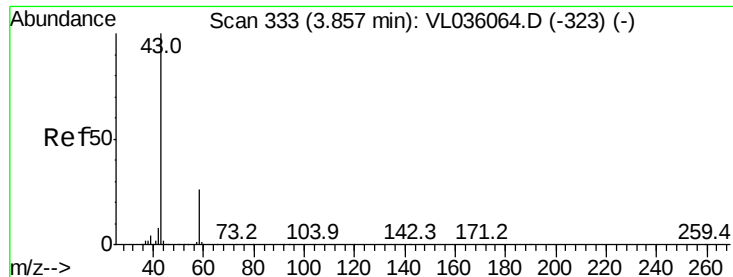
Tgt Ion: 45 Resp: 1531162

Ion Ratio Lower Upper

45 100

46 36.8 19.0 75.8





#15

Acetone

Concen: 4.191 ppbv m

RT: 3.83 min Scan# 324

Delta R.T. -0.03 min

Lab File: VL036201.D

Acq: 23 Dec 2020 20:51

Instrument :

MSVOA_L

ClientSampleId :

IIA2

Tot Ion: 43 Resp: 696246

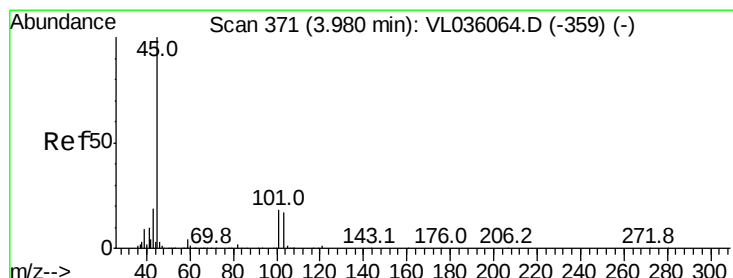
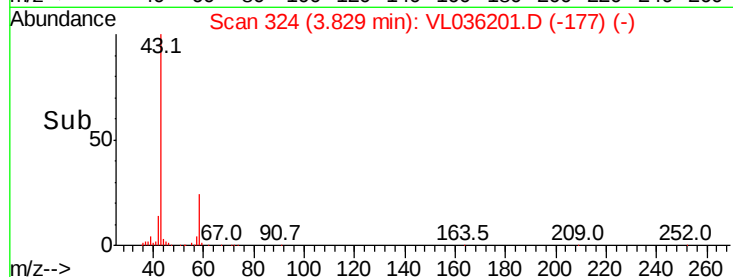
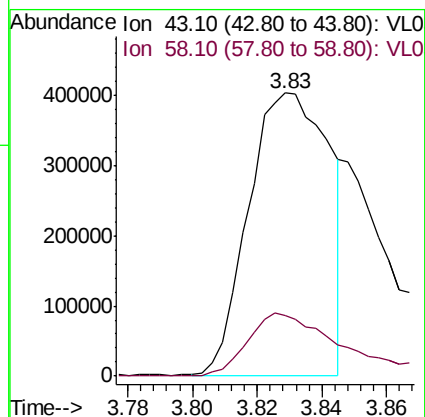
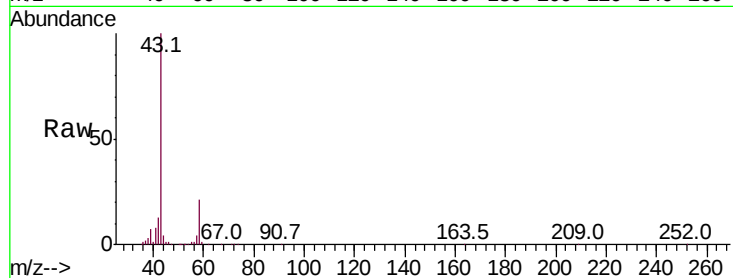
Ion Ratio Lower Upper

43 100

58 28.0 20.9 31.3

Manual Integrations
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#19

Isopropyl Alcohol

Concen: 9.562 ppbv m

RT: 3.94 min Scan# 360

Delta R.T. -0.04 min

Lab File: VL036201.D

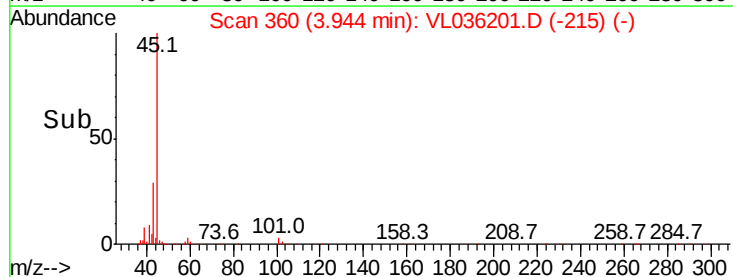
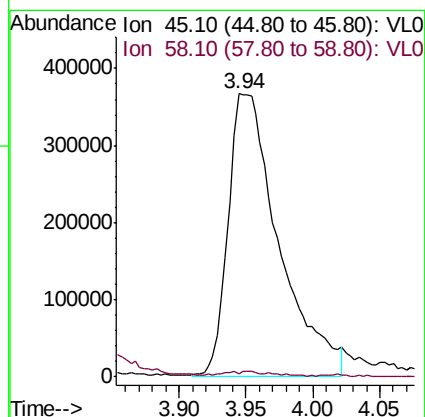
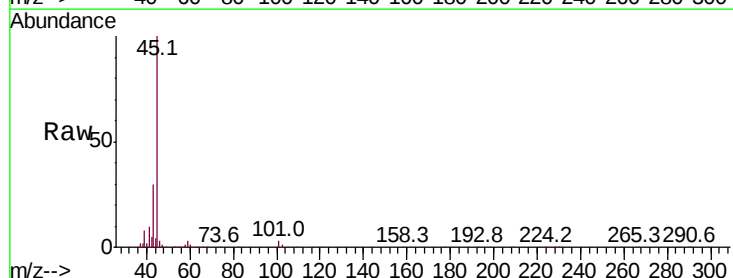
Acq: 23 Dec 2020 20:51

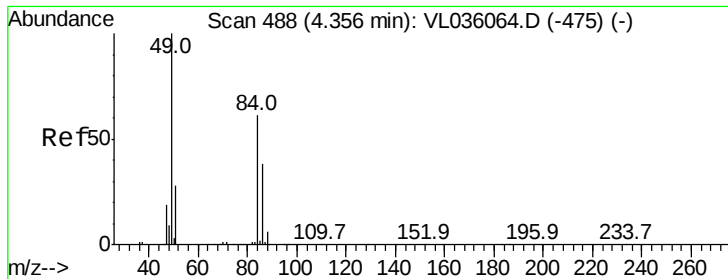
Tgt Ion: 45 Resp: 970910

Ion Ratio Lower Upper

45 100

58 0.0 0.0 0.0





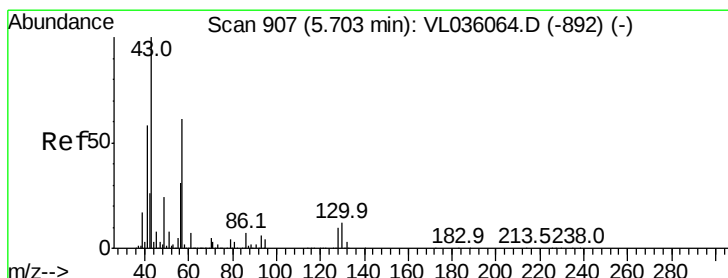
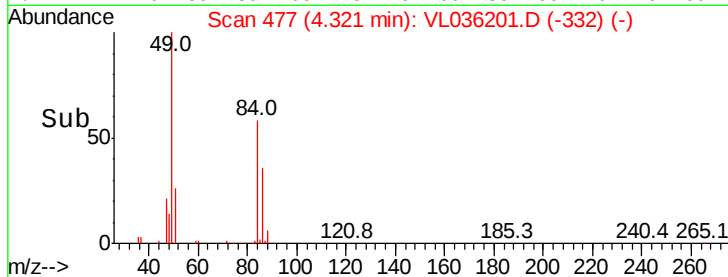
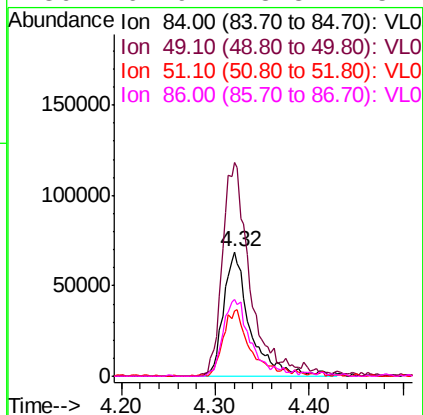
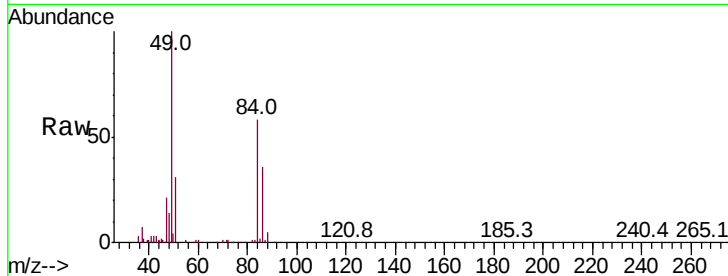
#20
Methvlene Chloride
Concen: 1.993 ppbv m
RT: 4.32 min Scan# 477
Delta R.T. -0.04 min
Lab File: VL036201.D
Acq: 23 Dec 2020 20:51

Instrument :
MSVOA_L
ClientSampled :
IIA2

Tot Ion	84	Resp	135678
Ion	Ratio	Lower	Upper
84	100		
49	171.5	133.0	199.4
51	52.4	38.9	58.3
86	61.9	48.8	73.2

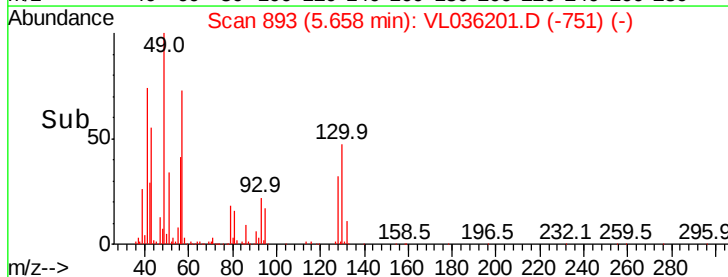
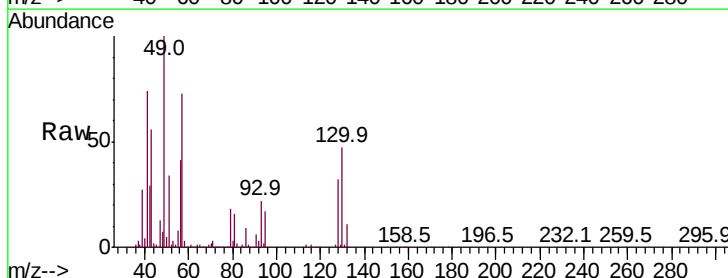
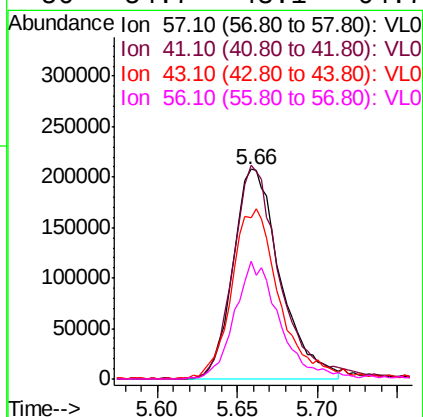
Manual Integrations
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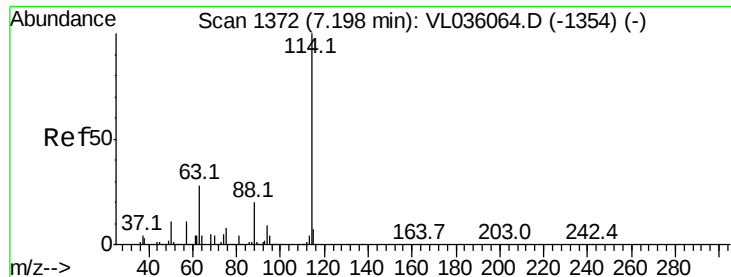
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#26
Hexane
Concen: 2.791 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.04 min
Lab File: VL036201.D
Acq: 23 Dec 2020 20:51

Tgt Ion	57	Resp	416923
Ion	Ratio	Lower	Upper
57	100		
41	103.6	82.9	124.3
43	85.1	199.9	299.9
56	54.7	43.1	64.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. -0.05 min

Lab File: VL036201.D

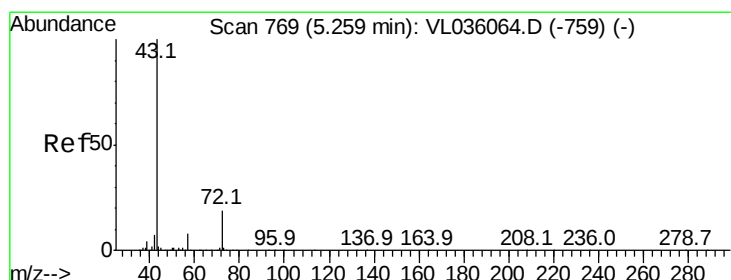
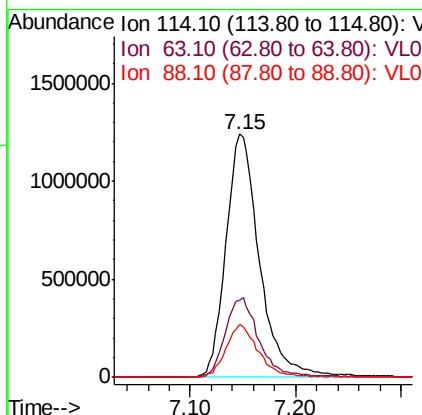
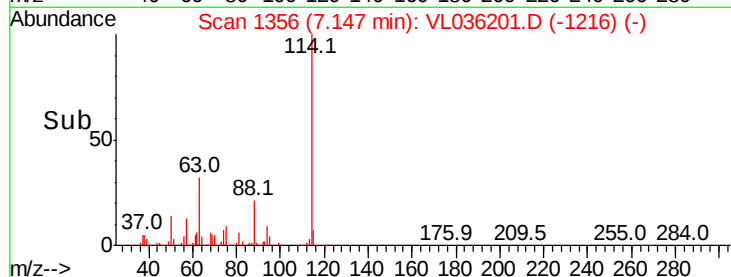
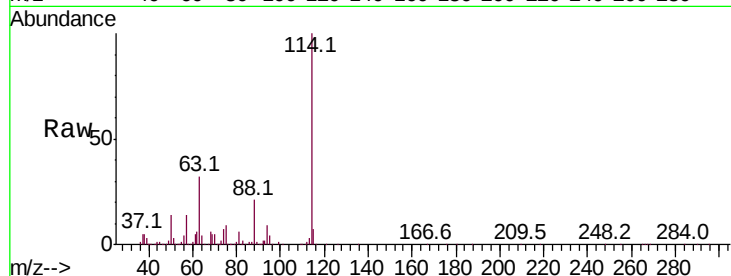
Acq: 23 Dec 2020 20:51

Instrument :
MSVOA_L
ClientSampleId :
IIA2

Tot Ion	Ratio	Lower	Upper
114	100		
63	33.3	23.6	35.4
88	21.3	15.8	23.6

Manual Integrations
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#34

2-Butanone

Concen: 0.346 ppbv

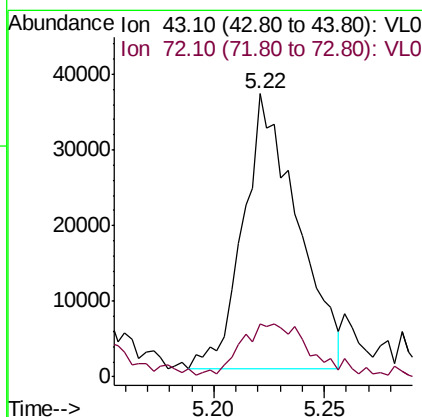
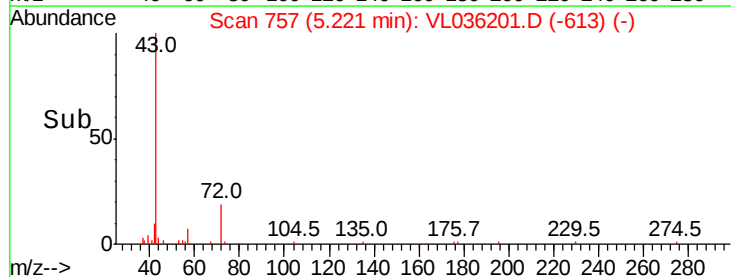
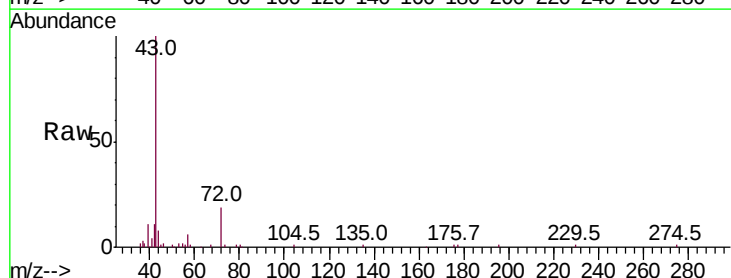
RT: 5.22 min Scan# 757

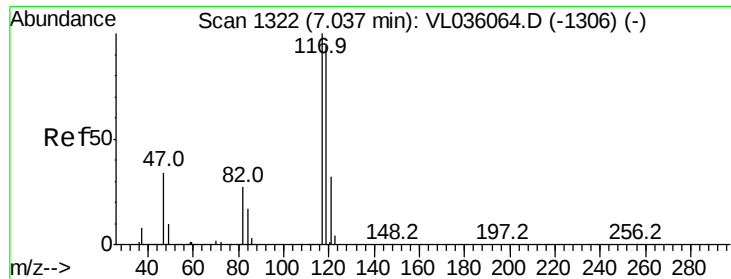
Delta R.T. -0.04 min

Lab File: VL036201.D

Acq: 23 Dec 2020 20:51

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.3	16.5	24.7





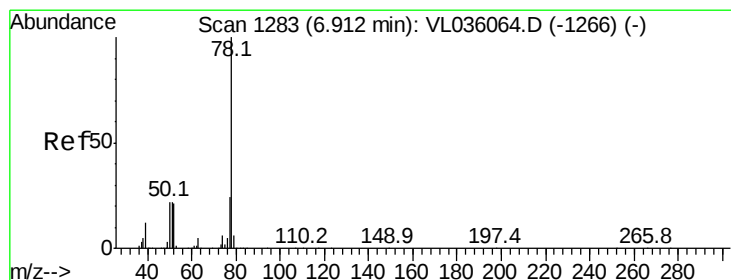
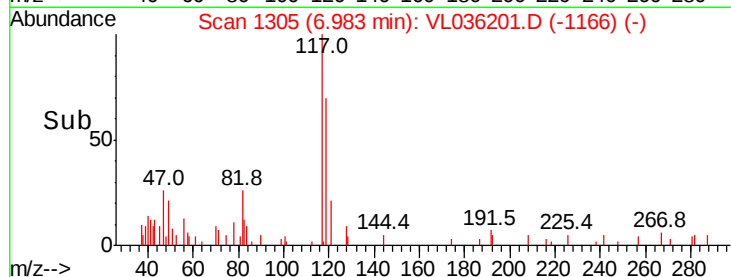
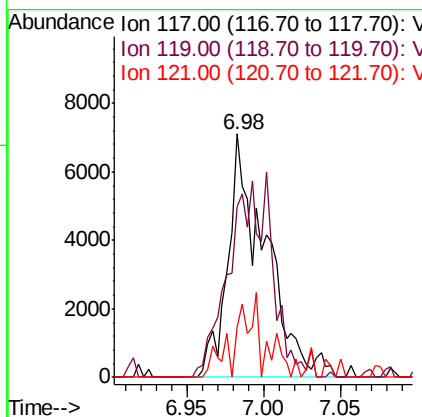
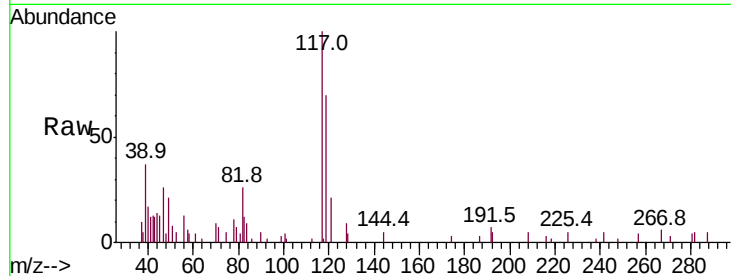
#35
Carbon Tetrachloride
Concen: 0.076 ppbv m
RT: 6.98 min Scan# 1305
Delta R.T. -0.05 min
Lab File: VL036201.D
Acq: 23 Dec 2020 20:51

Instrument :
MSVOA_L
ClientSampleId :
IIA2

Tot Ion	Ratio	Lower	Upper
117	100		
119	70.2	75.1	112.7#
121	20.8	25.6	38.4#

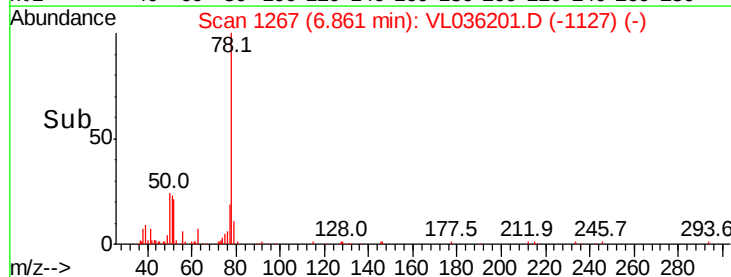
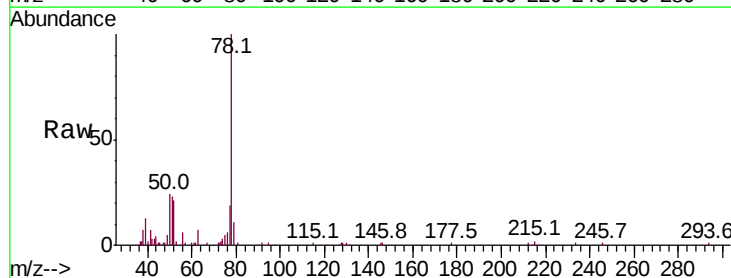
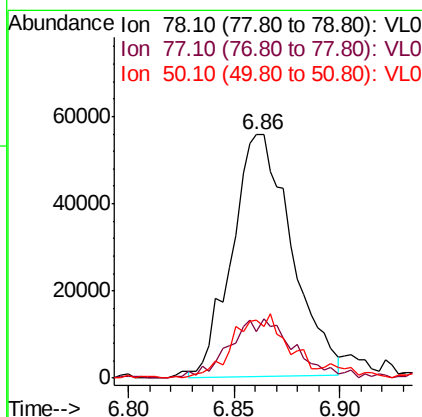
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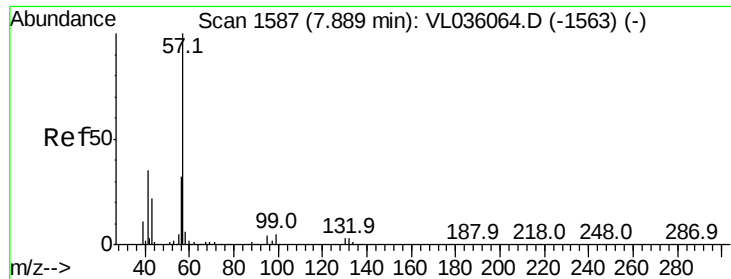
MMDadoda
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#36
Benzene
Concen: 0.472 ppbv
RT: 6.86 min Scan# 1267
Delta R.T. -0.05 min
Lab File: VL036201.D
Acq: 23 Dec 2020 20:51

Tgt Ion	Ratio	Lower	Upper
78	100		
77	17.6	19.4	29.2#
50	24.0	17.8	26.8





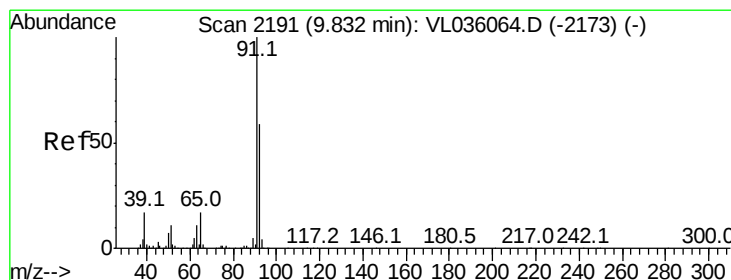
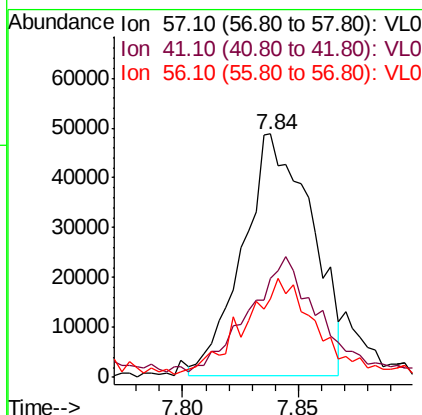
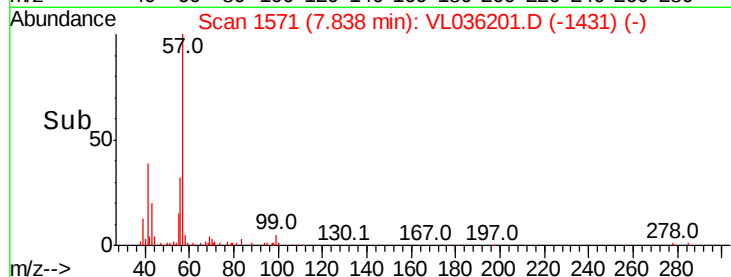
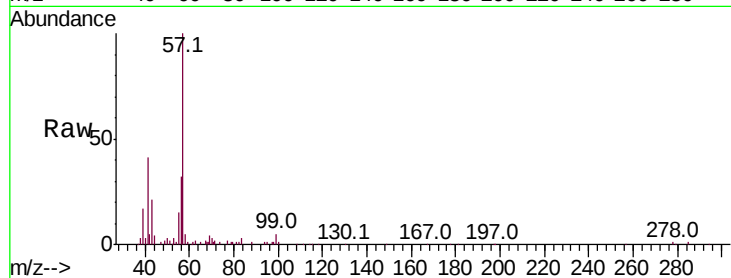
#44
 2,2,4-Trimethylpentane
 Concen: 0.239 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. -0.05 min
 Lab File: VL036201.D
 Acq: 23 Dec 2020 20:51

Instrument :
 MSVOA_L
 ClientSampleId :
 IIA2

Tot Ion	Ratio	Lower	Upper
57	100		
41	53.0	28.9	43.3#
56	46.0	25.3	37.9#

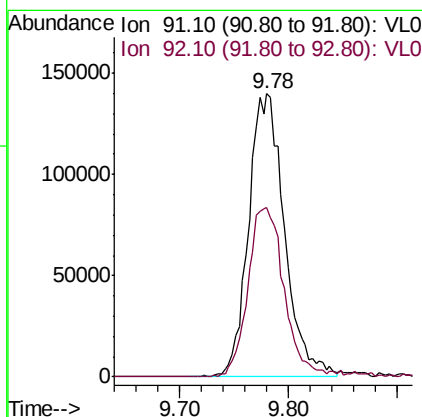
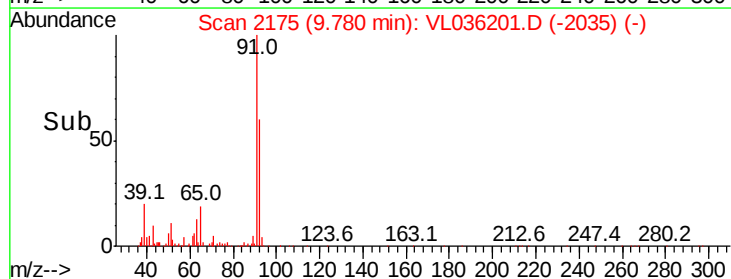
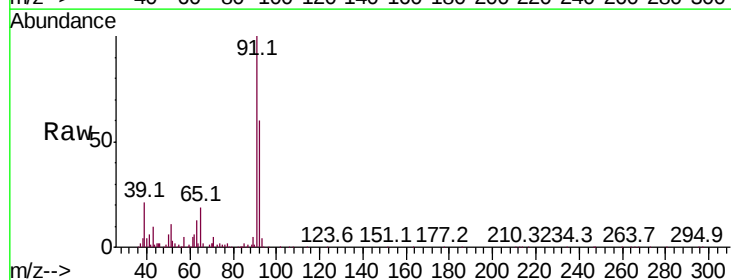
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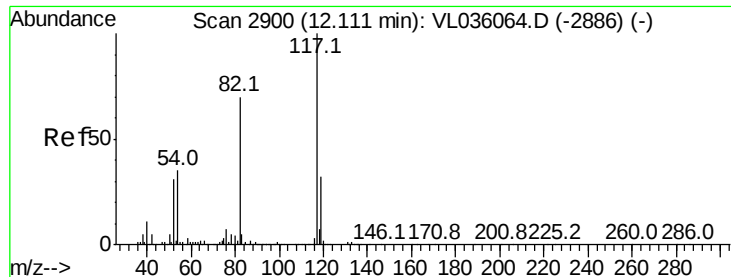
MMDadoda
 12/26/2020 1:36:32 PM



#53
 Toluene
 Concen: 1.239 ppbv m
 RT: 9.78 min Scan# 2175
 Delta R.T. -0.05 min
 Lab File: VL036201.D
 Acq: 23 Dec 2020 20:51

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.2	72.2#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.05 min

Lab File: VL036201.D

Acq: 23 Dec 2020 20:51

Instrument :

MSVOA_L

ClientSampled :

IIA2

Tot Ion:117 Resp: 2409325

Ion Ratio Lower Upper

117 100

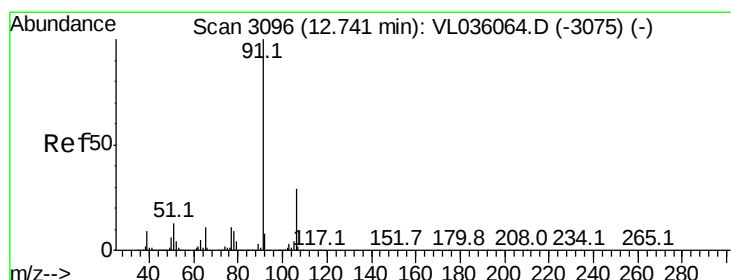
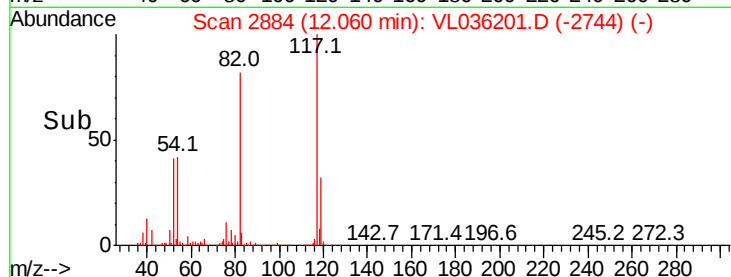
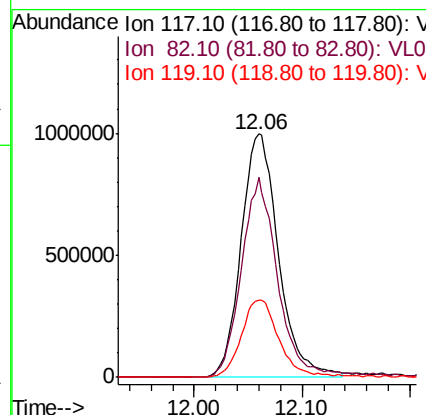
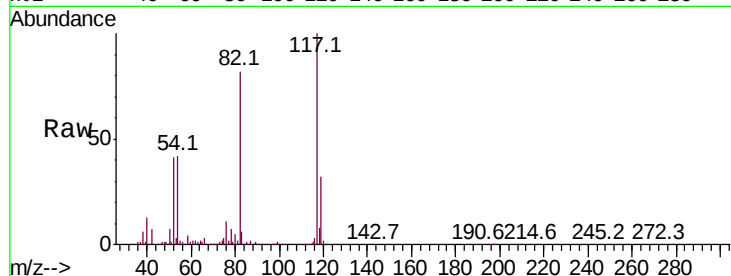
82 81.3 0.0 0.0#

119 32.2 0.0 0.0#

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#58

Ethyl Benzene

Concen: 0.168 ppbv m

RT: 12.69 min Scan# 3080

Delta R.T. -0.05 min

Lab File: VL036201.D

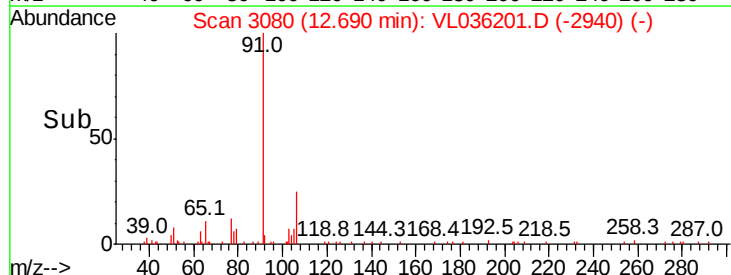
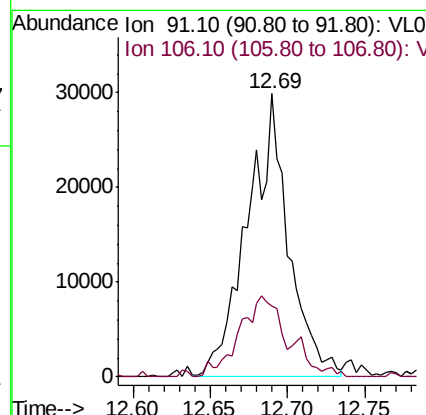
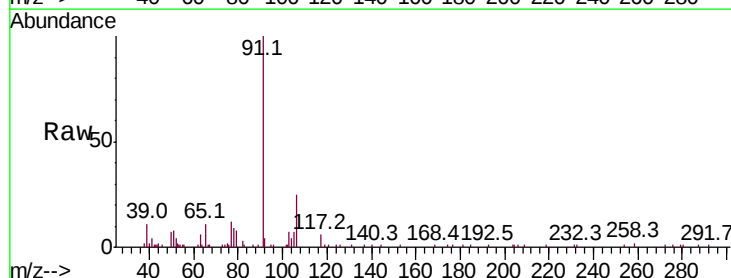
Acq: 23 Dec 2020 20:51

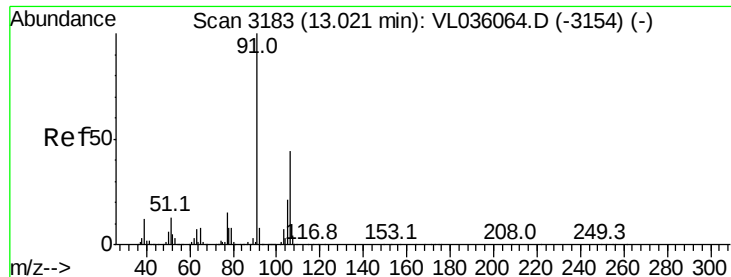
Tgt Ion: 91 Resp: 55427

Ion Ratio Lower Upper

91 100

106 25.0 23.0 34.4





#59

m/p-Xylene

Concen: 0.605 ppbv m

RT: 12.94 min Scan# 3158

Delta R.T. -0.08 min

Lab File: VL036201.D

Acq: 23 Dec 2020 20:51

Instrument :

MSVOA_L

ClientSampled :

IIA2

Tot Ion: 91 Resp: 168123

Ion Ratio Lower Upper

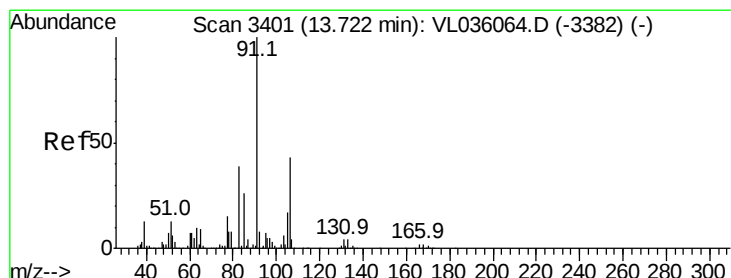
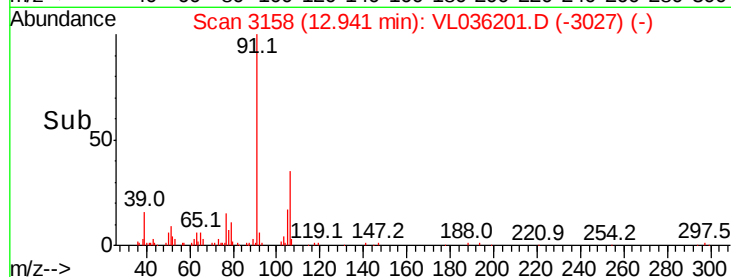
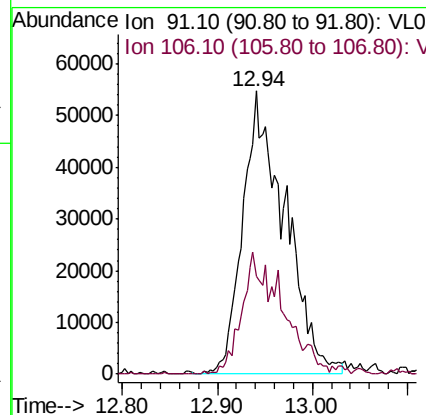
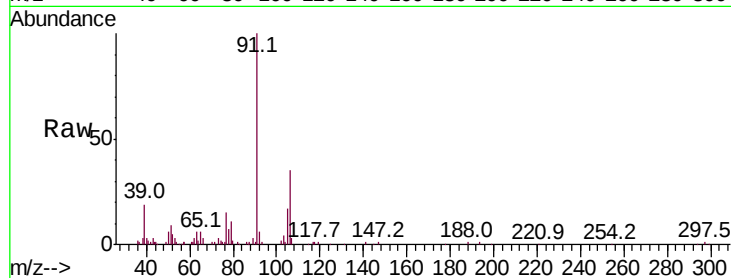
91 100

106 0.0 33.6 50.4#

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#60

o-Xylene

Concen: 0.242 ppbv

RT: 13.67 min Scan# 3384

Delta R.T. -0.05 min

Lab File: VL036201.D

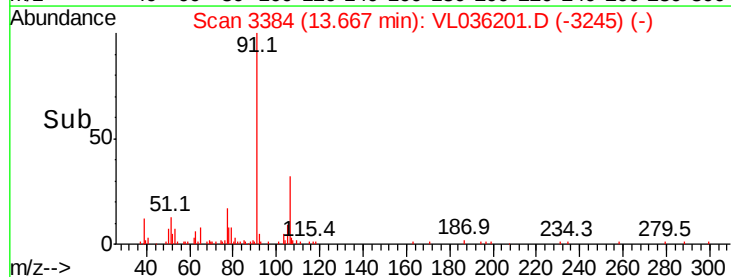
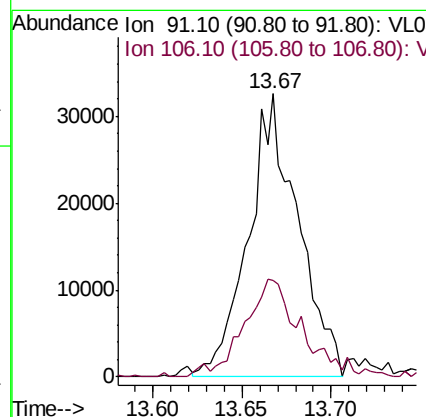
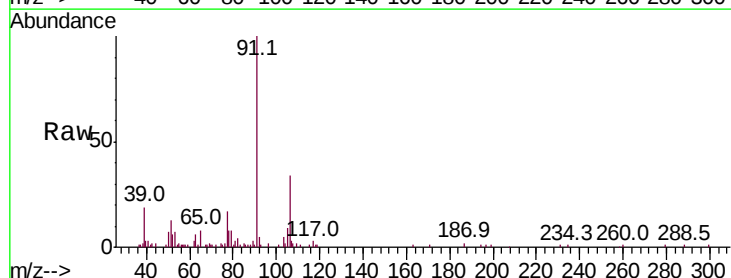
Acq: 23 Dec 2020 20:51

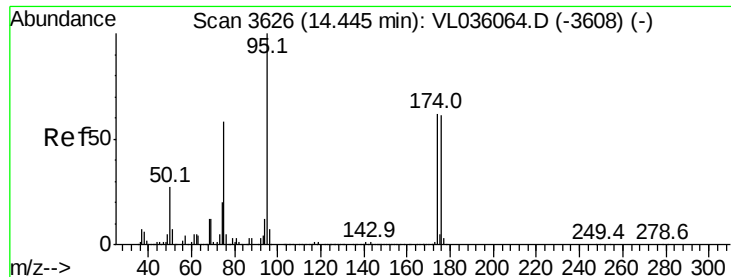
Tgt Ion: 91 Resp: 63485

Ion Ratio Lower Upper

91 100

106 40.0 21.6 64.6





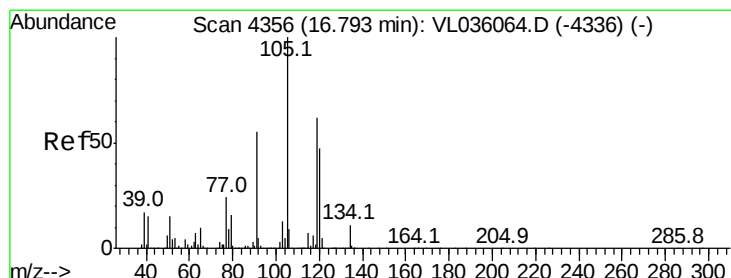
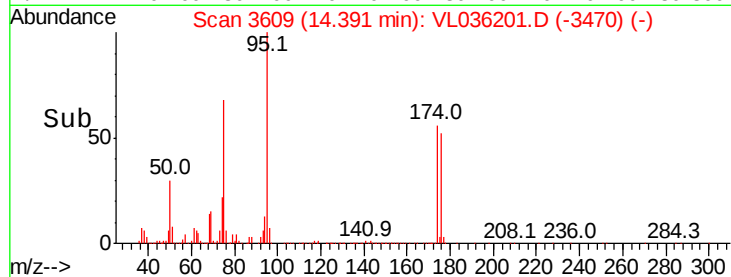
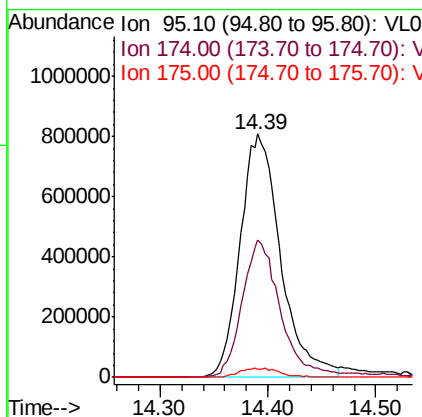
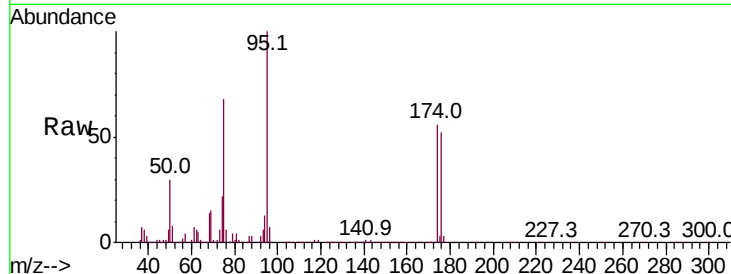
#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.032 ppbv
 RT: 14.39 min Scan# 3609
 Delta R.T. -0.05 min
 Lab File: VL036201.D
 Acq: 23 Dec 2020 20:51

Instrument :
 MSVOA_L
 ClientSampled :
 IIA2

Tot Ion: 95 Resp: 2110551
 Ion Ratio Lower Upper
 95 100
 174 55.6 50.7 76.1
 175 3.9 4.0 6.0#

Manual Integrations
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.208 ppbv m
 RT: 16.74 min Scan# 4341
 Delta R.T. -0.05 min
 Lab File: VL036201.D
 Acq: 23 Dec 2020 20:51

Tgt Ion: 105 Resp: 56544
 Ion Ratio Lower Upper
 105 100
 120 26.9 37.4 56.0#
 91 9.0 45.6 68.4#
 77 15.0 19.4 29.2#

