

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022720\
 Data File : VL034707.D
 Acq On : 27 Feb 2020 13:55
 Operator : SY/AP
 Sample : L1662-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-1-M-ELECT-RM

Manual Integrations
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MMDadoda
 2/28/2020 12:32:32 PM

Quant Time: Feb 28 01:28:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 2
 QLast Update : Wed Feb 26 06:58:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	948261	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.20	114	1956733	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.14	117	1878841	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1600041	10.39	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	37843	0.253	ppbv	100
3) Chlorodifluoromethane	2.96	51	33549m	0.328	ppbv	
4) Chloromethane	3.12	50	31530	0.550	ppbv	93
9) Propene	3.00	41	59894m	1.400	ppbv	
11) Trichlorofluoromethane	3.94	101	35940	0.274	ppbv	90
13) Ethanol	3.59	45	204964	15.167	ppbv	100
15) Acetone	3.84	43	450704	4.171	ppbv	93
19) Isopropyl Alcohol	3.97	45	60280	0.937	ppbv #	86
20) Methylene Chloride	4.34	84	106940	2.661	ppbv	91
26) Hexane	5.70	57	133024	1.509	ppbv #	42
34) 2-Butanone	5.26	43	42078	0.342	ppbv	99
35) Carbon Tetrachloride	7.04	117	11111m	0.085	ppbv	
36) Benzene	6.92	78	62147m	0.368	ppbv	
44) 2,2,4-Trimethylpentane	7.90	57	39102m	0.132	ppbv	
53) Toluene	9.85	91	975218	5.425	ppbv	97
59) m/p-Xylene	13.01	91	42720m	0.215	ppbv	

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

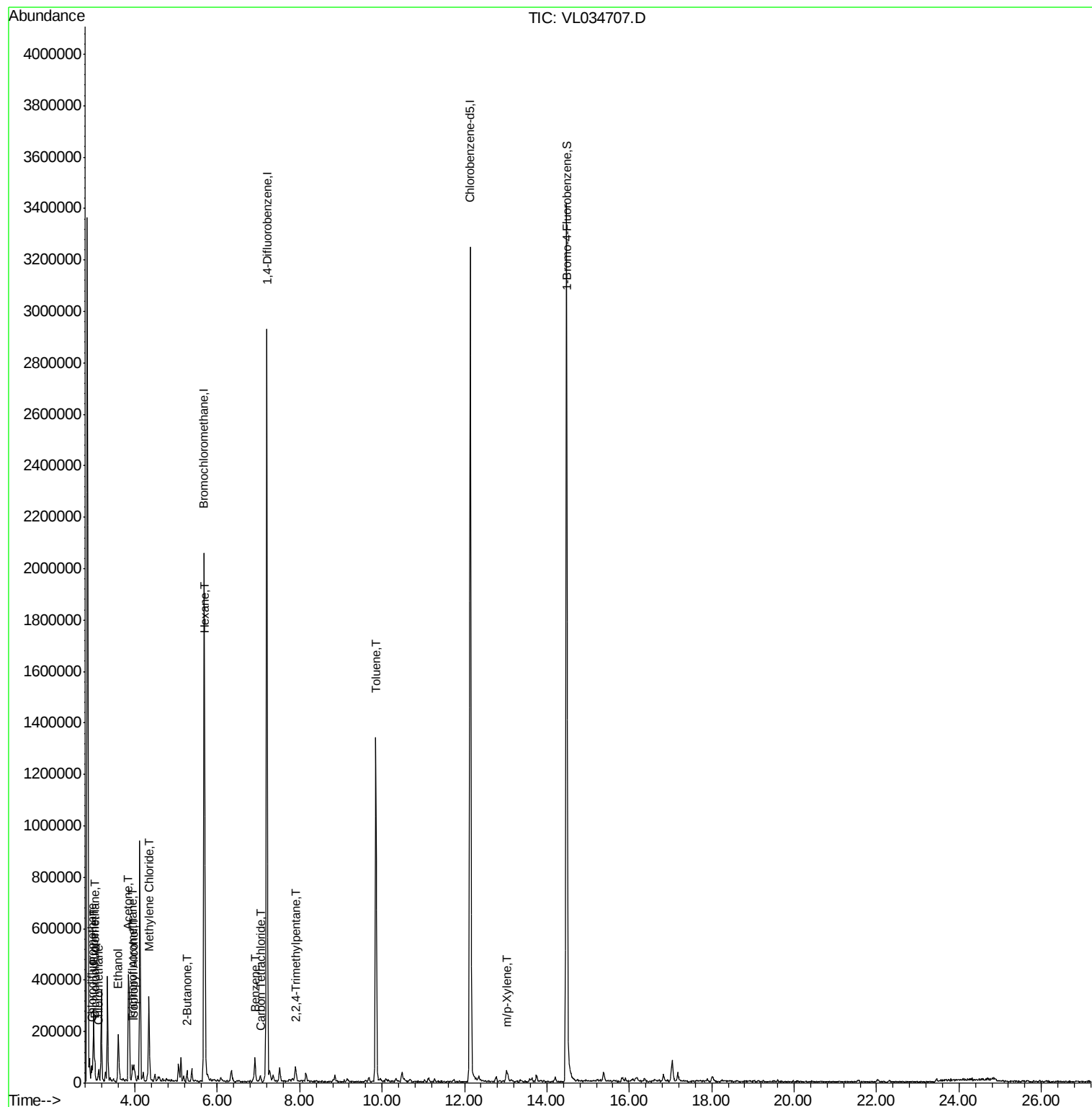
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL022720\
Data File : VL034707.D
Acq On : 27 Feb 2020 13:55
Operator : SY/AP
Sample : L1662-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

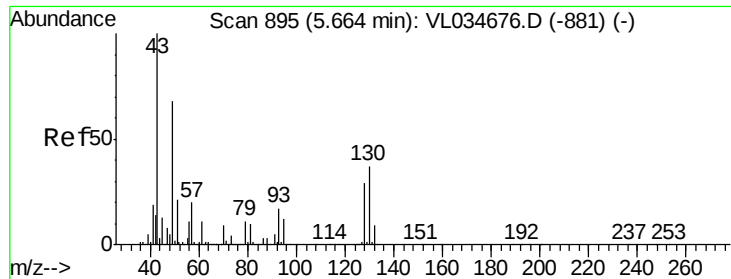
Instrument :
MSVOA_L
ClientSampleId :
IAS-1-M-ELECT-RM

Manual Integrations
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Quant Time: Feb 28 01:28:44 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL022620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb
QLast Update : Wed Feb 26 06:58:15 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.01 min

Lab File: VL034707.D

Acq: 27 Feb 2020 13:55

Instrument :

MSVOA_L

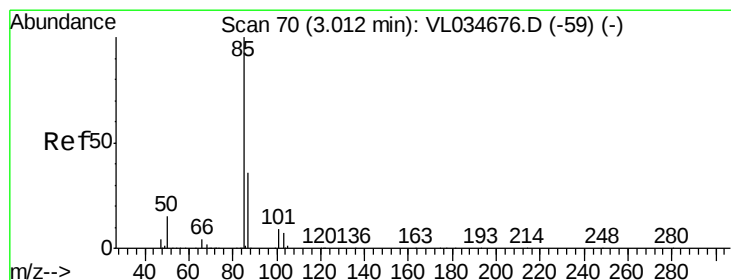
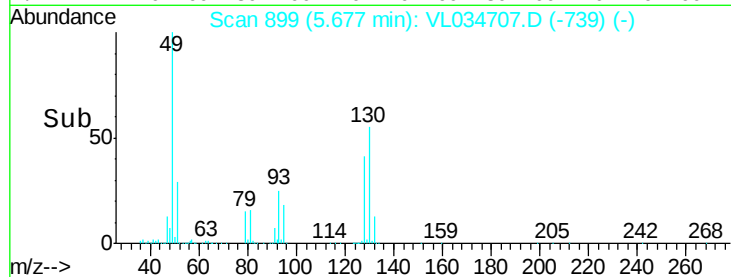
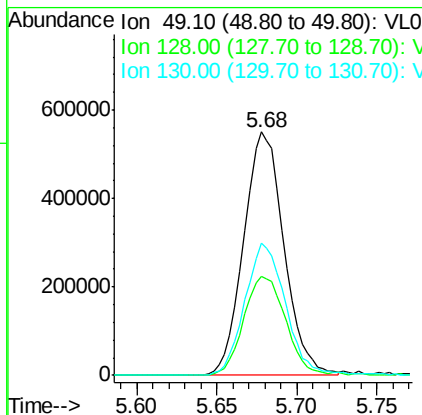
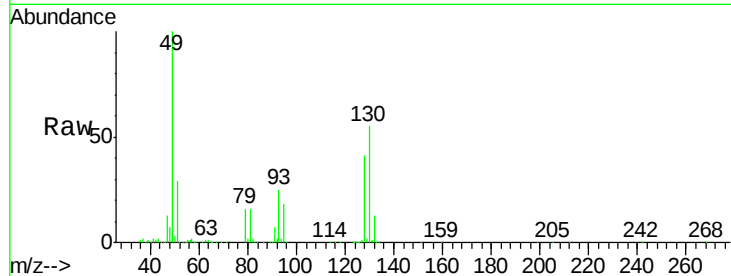
ClientSampleId :

IAS-1-M-ELECT-RM

Tot Ion	Ratio	Lower	Upper
49	100		
128	42.8	21.6	65.0
130	55.5	27.7	83.1

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.253 ppbv

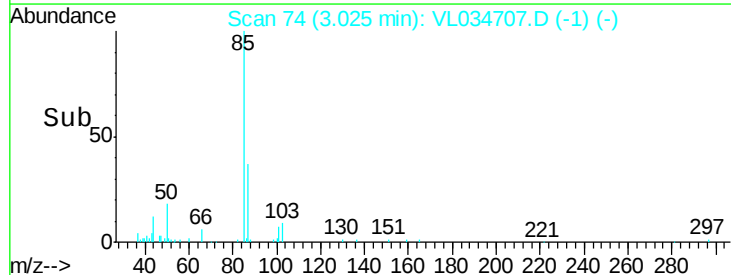
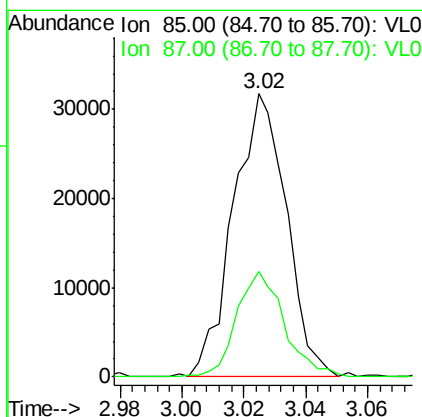
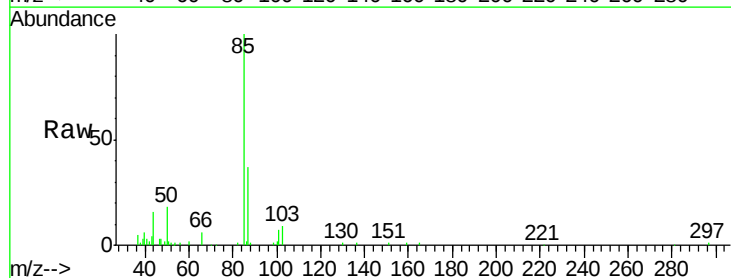
RT: 3.02 min Scan# 74

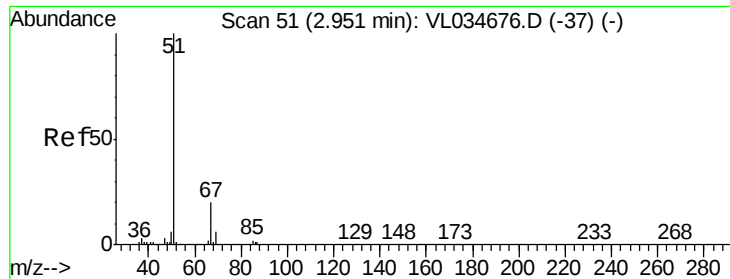
Delta R.T. 0.01 min

Lab File: VL034707.D

Acq: 27 Feb 2020 13:55

Tgt Ion	Ratio	Lower	Upper
85	100		
87	36.7	29.2	43.8





#3

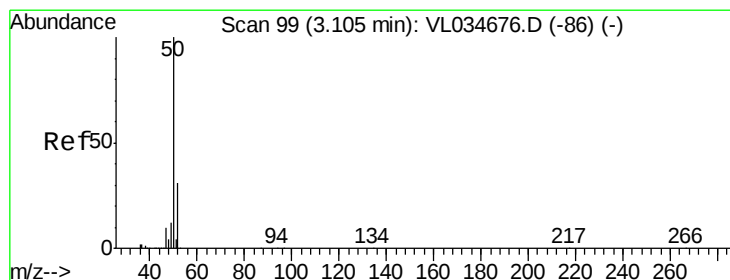
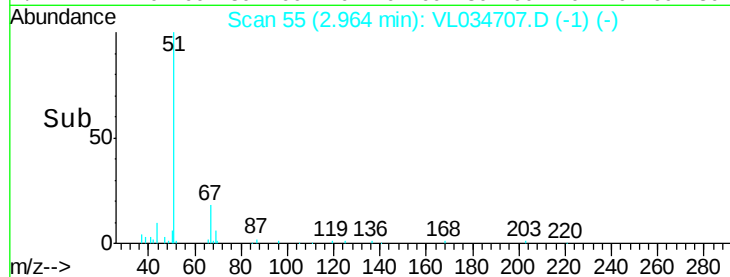
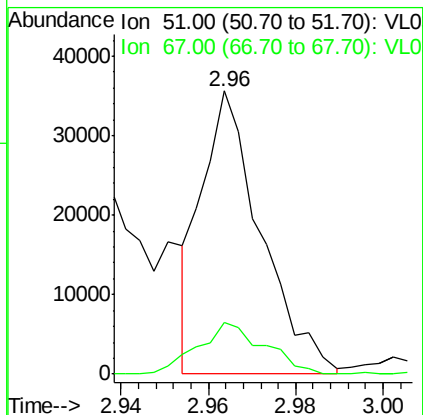
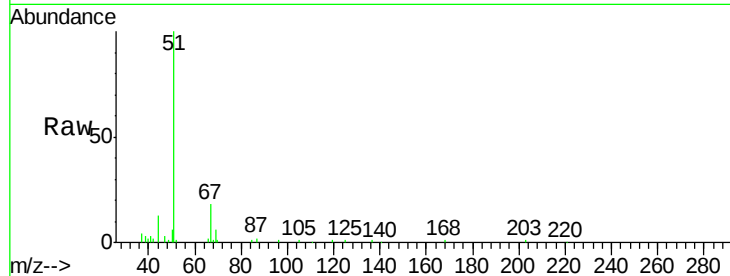
Chlorodifluoromethane
 Concen: 0.328 ppbv m
 RT: 2.96 min Scan# 55
 Delta R.T. 0.01 min
 Lab File: VL034707.D
 Acq: 27 Feb 2020 13:55

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-1-M-ELECT-RM

Tot Ion	Ion	Ratio	Lower	Upper
51	51	100		
67	67	20.4	15.5	23.3

Manual Integrations
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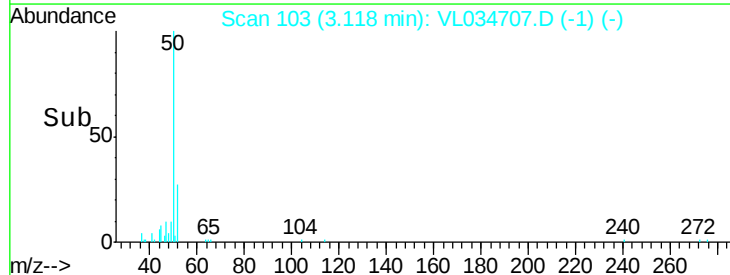
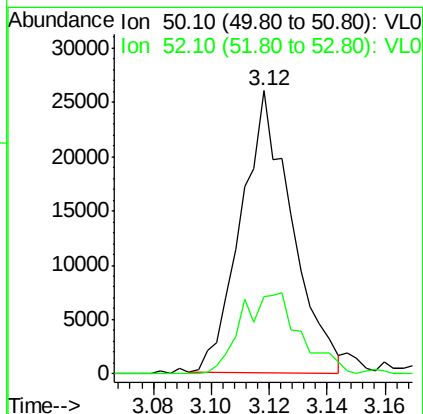
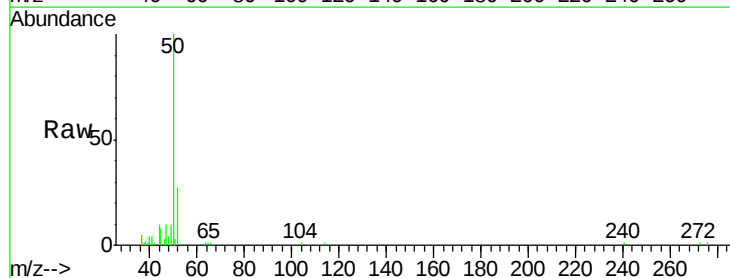
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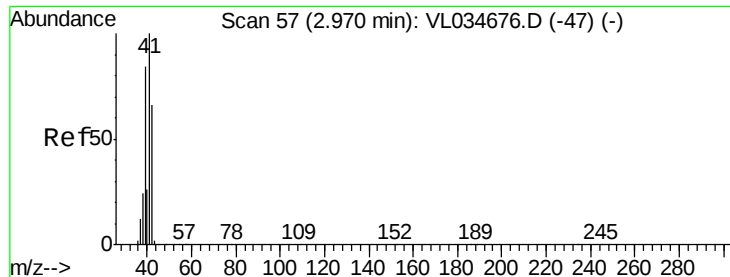


#4

Chloromethane
 Concen: 0.550 ppbv
 RT: 3.12 min Scan# 103
 Delta R.T. 0.01 min
 Lab File: VL034707.D
 Acq: 27 Feb 2020 13:55

Tgt Ion	Ion	Ratio	Lower	Upper
50	50	100		
52	52	27.6	25.0	37.4





#9

Propene

Concen: 1.400 ppbv m

RT: 3.00 min Scan# 65

Delta R.T. 0.03 min

Lab File: VL034707.D

Acq: 27 Feb 2020 13:55

Instrument :

MSVOA_L

ClientSampleId :

IAS-1-M-ELECT-RM

Tot Ion: 41 Resp: 59894

Ion Ratio Lower Upper

41 100

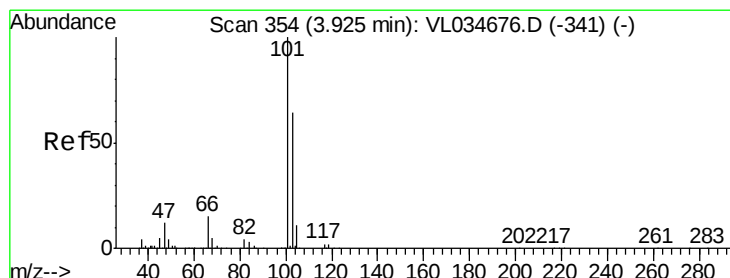
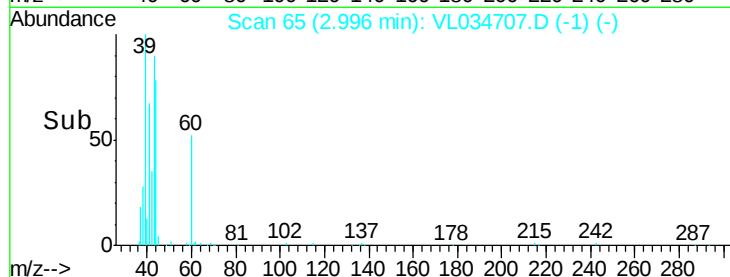
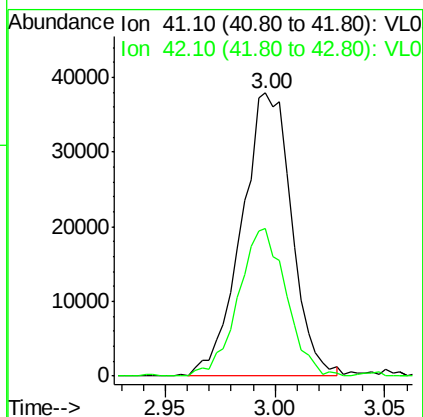
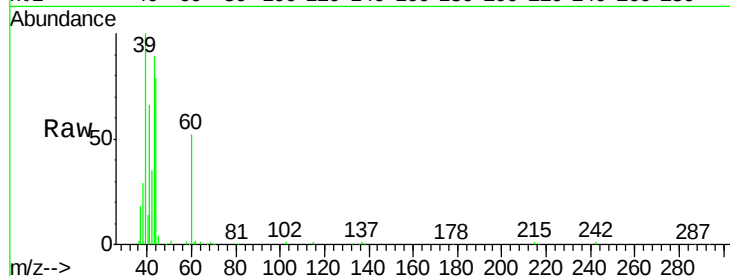
42 49.9 54.9 82.3#

Manual Integrations

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#11

Trichlorofluoromethane

Concen: 0.274 ppbv

RT: 3.94 min Scan# 358

Delta R.T. 0.01 min

Lab File: VL034707.D

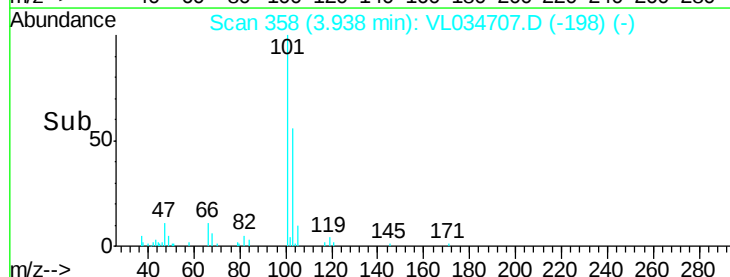
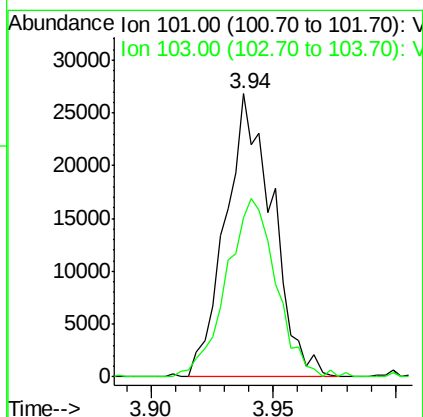
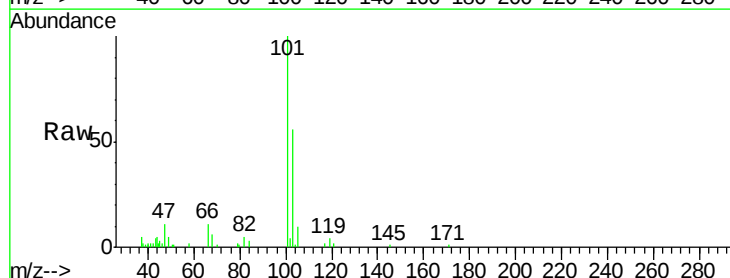
Acq: 27 Feb 2020 13:55

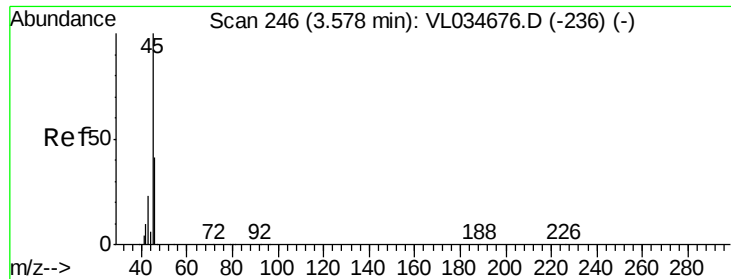
Tgt Ion: 101 Resp: 35940

Ion Ratio Lower Upper

101 100

103 56.3 51.2 76.8





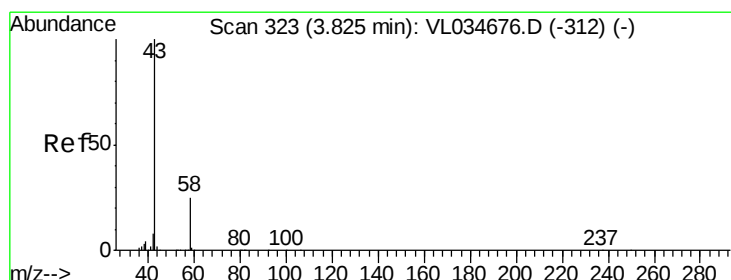
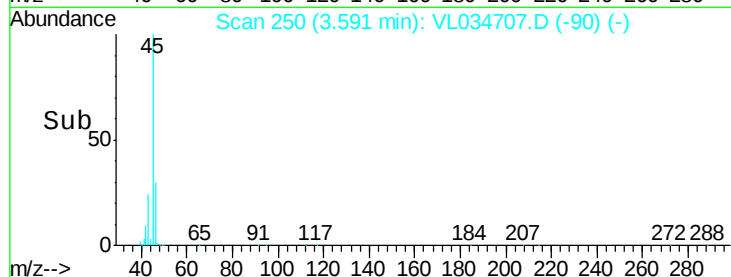
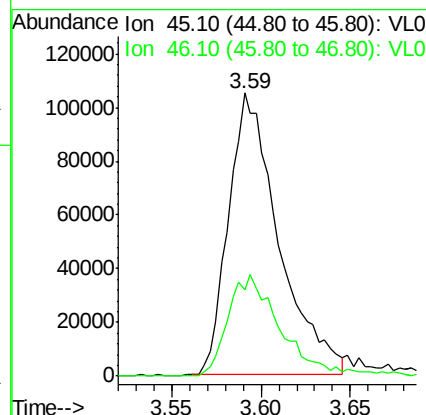
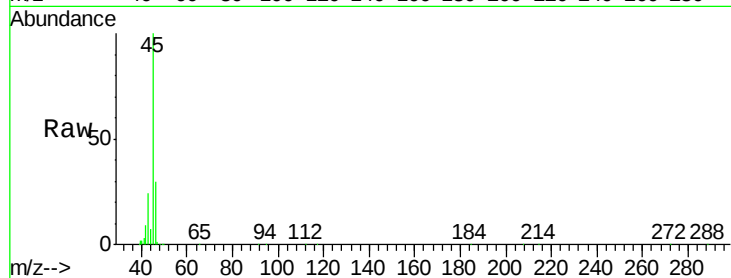
#13
Ethanol
Concen: 15.167 ppbv
RT: 3.59 min Scan# 250
Delta R.T. 0.01 min
Lab File: VL034707.D
Acq: 27 Feb 2020 13:55

Instrument :
MSVOA_L
ClientSampleId :
IAS-1-M-ELECT-RM

Tot Ion: 45 Resp: 204964
Ion Ratio Lower Upper
45 100
46 38.2 15.4 61.4

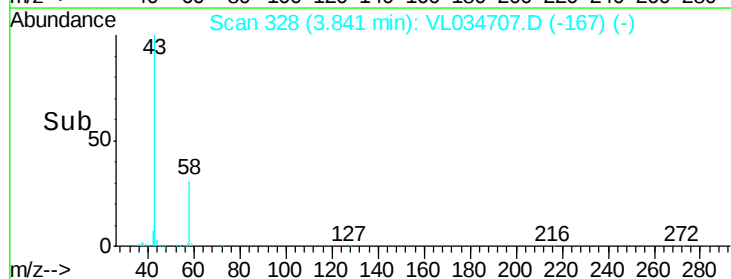
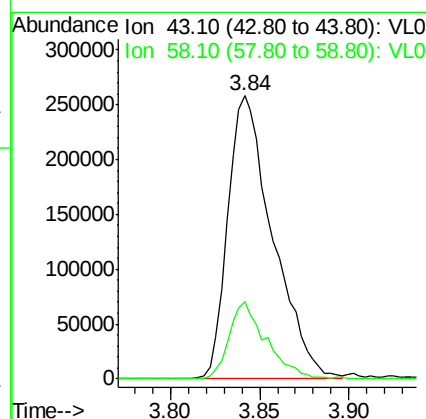
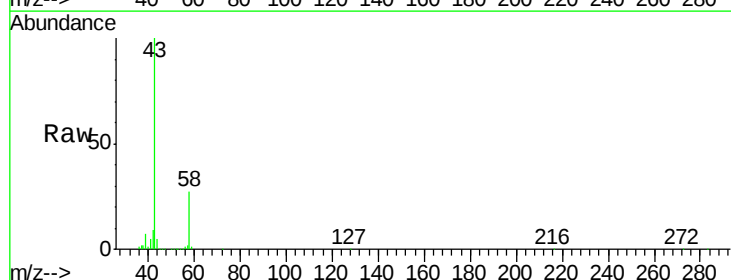
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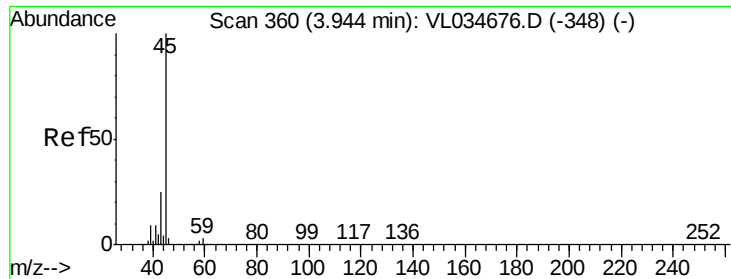
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#15
Acetone
Concen: 4.171 ppbv
RT: 3.84 min Scan# 328
Delta R.T. 0.02 min
Lab File: VL034707.D
Acq: 27 Feb 2020 13:55

Tgt Ion: 43 Resp: 450704
Ion Ratio Lower Upper
43 100
58 23.0 21.4 32.0





#19

Isopropyl Alcohol

Concen: 0.937 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.03 min

Lab File: VL034707.D

Acq: 27 Feb 2020 13:55

Instrument :

MSVOA_L

ClientSampleId :

IAS-1-M-ELECT-RM

Tot Ion: 45 Resp: 60280

Ion Ratio Lower Upper

45 100

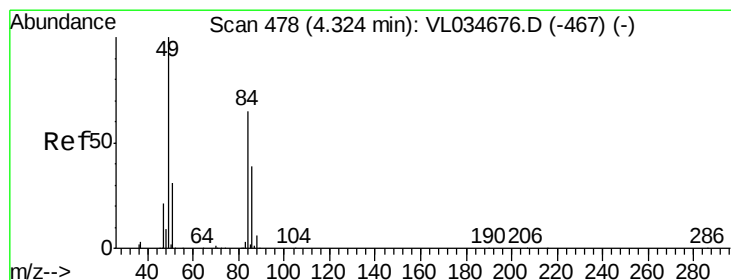
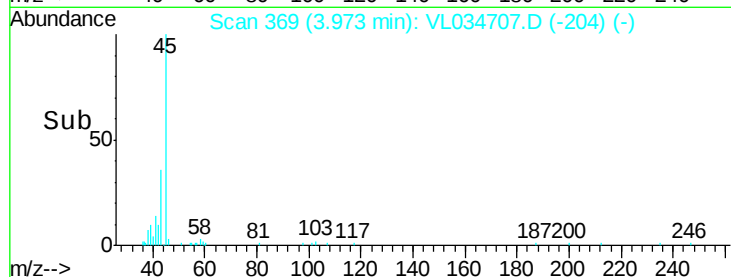
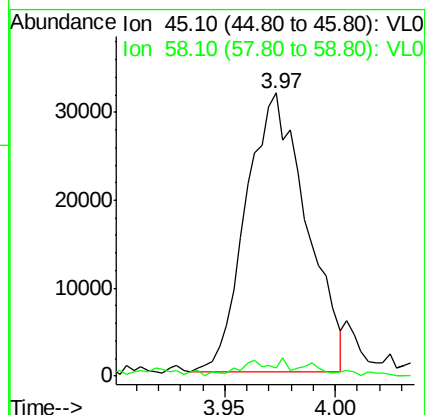
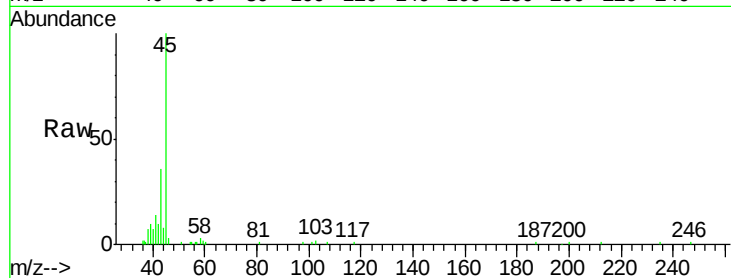
58 7.2 1.8 2.6#

Manual Integrations

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#20

Methylene Chloride

Concen: 2.661 ppbv

RT: 4.34 min Scan# 483

Delta R.T. 0.02 min

Lab File: VL034707.D

Acq: 27 Feb 2020 13:55

Tgt Ion: 84 Resp: 106940

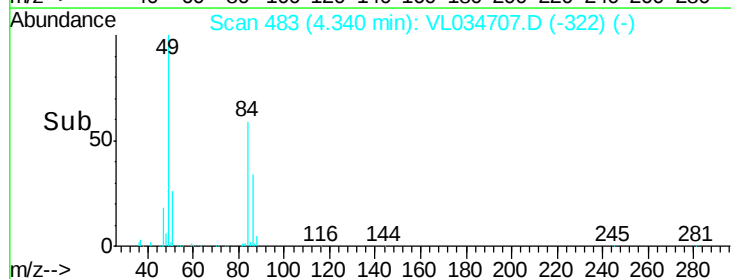
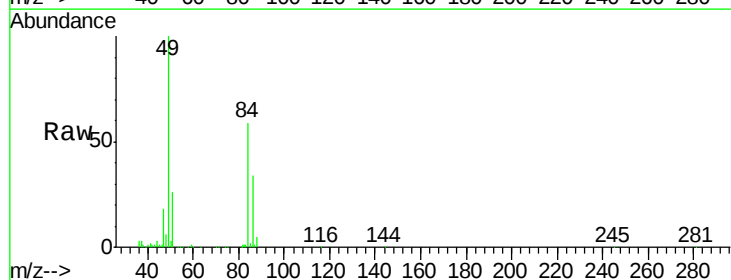
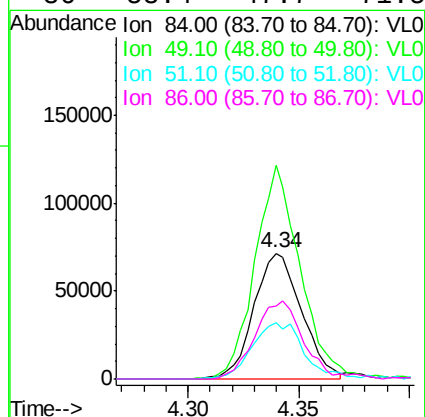
Ion Ratio Lower Upper

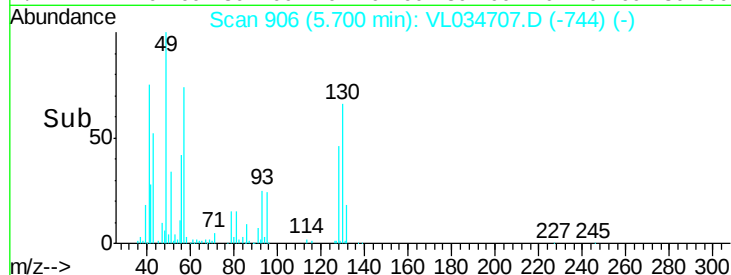
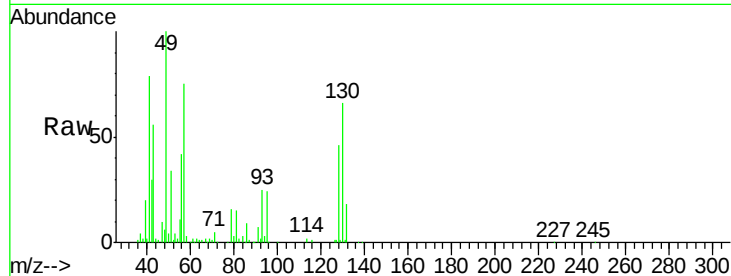
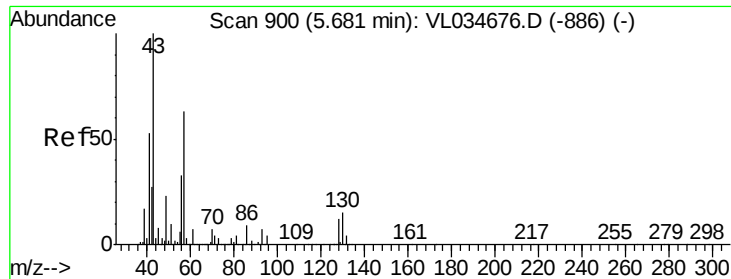
84 100

49 169.5 122.8 184.2

51 44.4 38.6 58.0

86 58.4 47.7 71.5





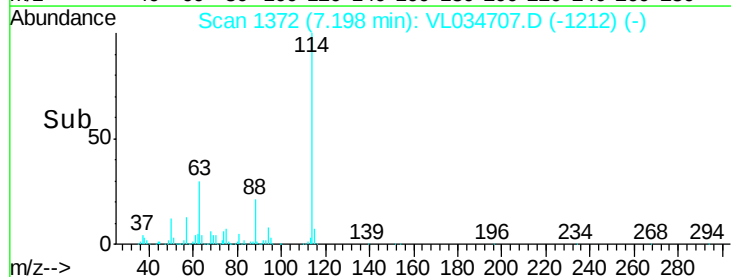
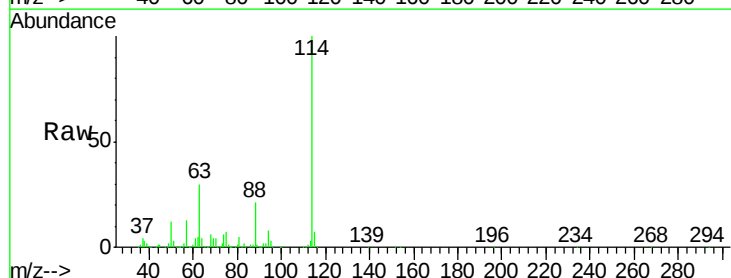
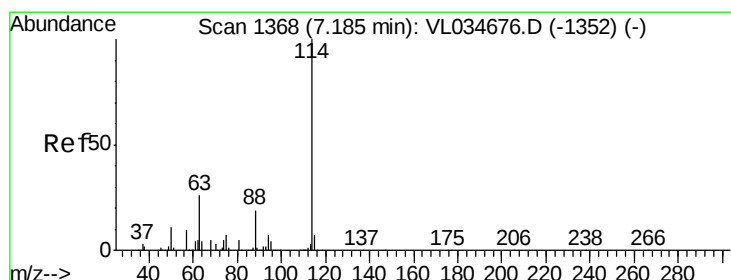
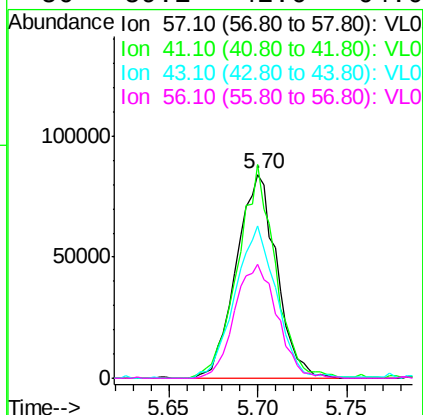
#26
Hexane
Concen: 1.509 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.02 min
Lab File: VL034707.D
Acq: 27 Feb 2020 13:55

Tot Ion	Ratio	Lower	Upper
57	100		
41	98.0	70.3	105.5
43	77.3	177.0	265.4#
56	59.1	42.6	64.0

Instrument :
MSVOA_L
ClientSampleId :
IAS-1-M-ELECT-RM

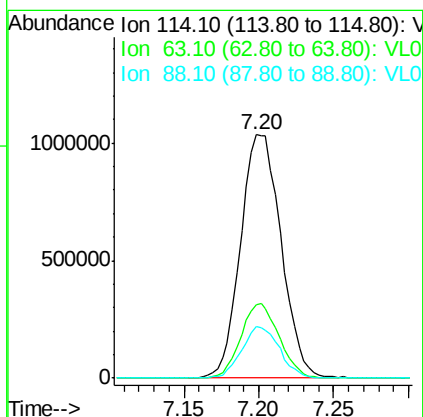
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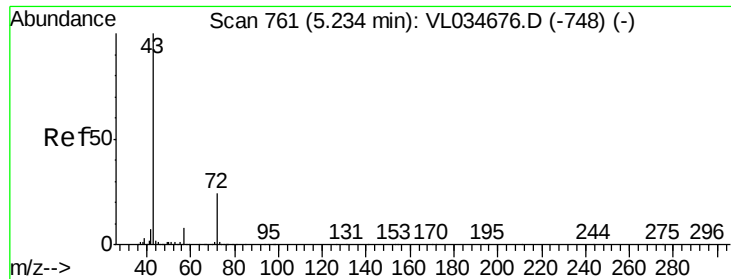
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1372
Delta R.T. 0.01 min
Lab File: VL034707.D
Acq: 27 Feb 2020 13:55

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.1	22.9	34.3
88	19.8	15.8	23.6





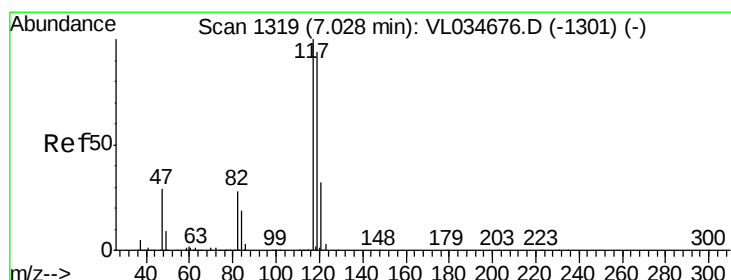
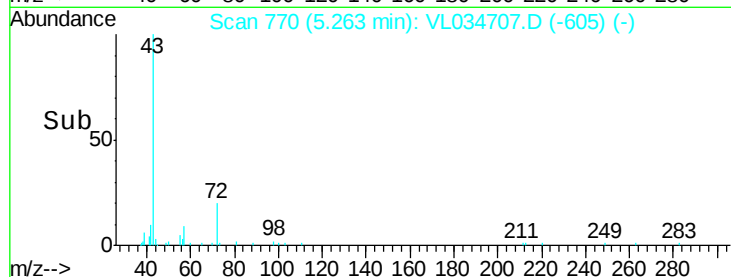
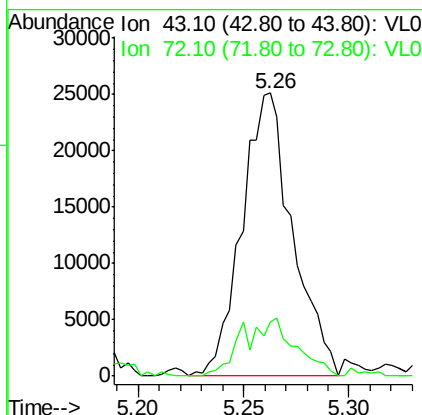
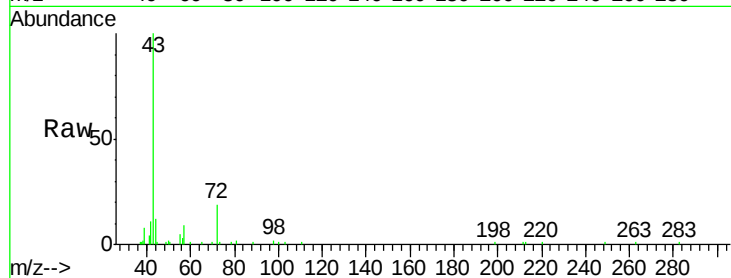
#34
2-Butanone
Concen: 0.342 ppbv
RT: 5.26 min Scan# 770
Delta R.T. 0.03 min
Lab File: VL034707.D
Acq: 27 Feb 2020 13:55

Instrument :
MSVOA_L
ClientSampleId :
IAS-1-M-ELECT-RM

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
72	22.3	18.2	27.2	

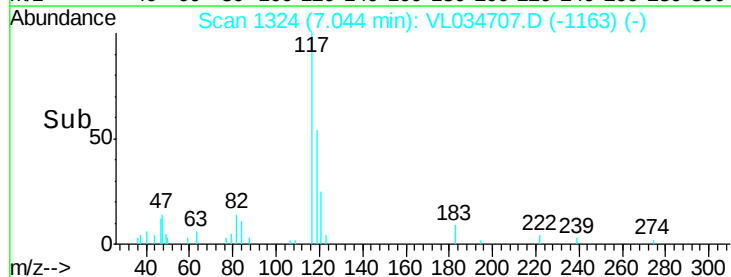
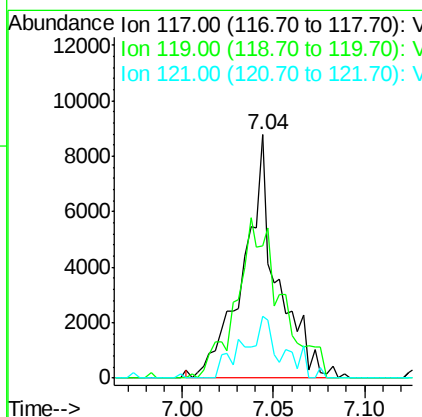
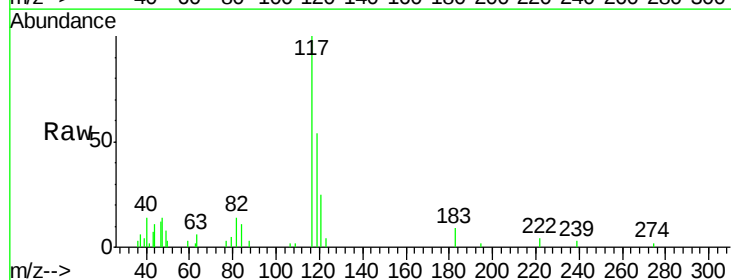
Manual Integrations
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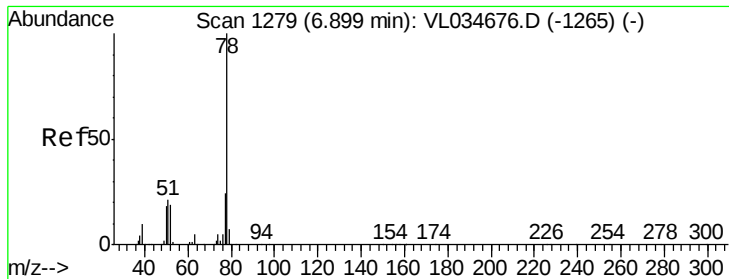
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#35
Carbon Tetrachloride
Concen: 0.085 ppbv m
RT: 7.04 min Scan# 1324
Delta R.T. 0.02 min
Lab File: VL034707.D
Acq: 27 Feb 2020 13:55

Tgt Ion	Ion	Ratio	Lower	Upper
117	100			
119	54.5	75.5	113.3#	
121	25.3	25.4	38.0#	





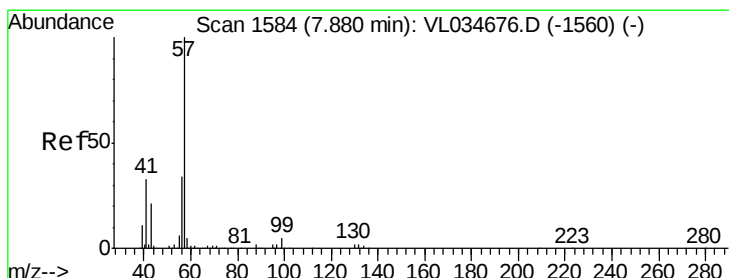
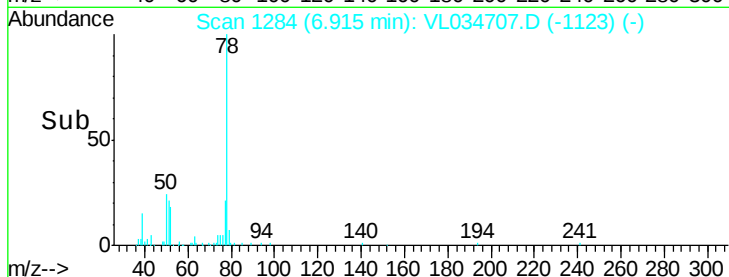
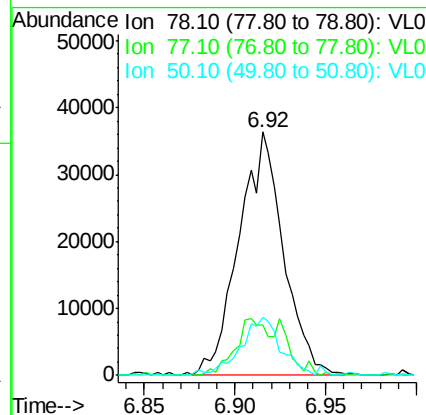
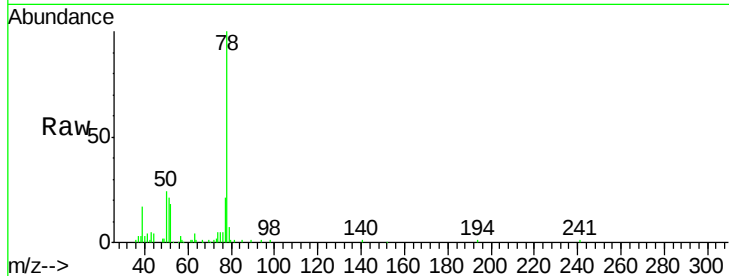
#36
Benzene
Concen: 0.368 ppbv m
RT: 6.92 min Scan# 1284
Delta R.T. 0.02 min
Lab File: VL034707.D
Acq: 27 Feb 2020 13:55

Instrument :
MSVOA_L
ClientSampleId :
IAS-1-M-ELECT-RM

Tot Ion	Ratio	Lower	Upper
78	100		
77	20.8	19.5	29.3
50	24.1	14.6	21.8

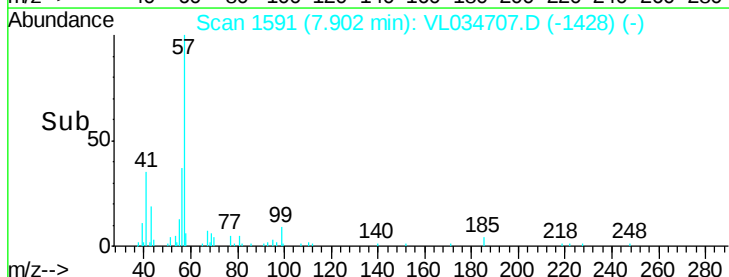
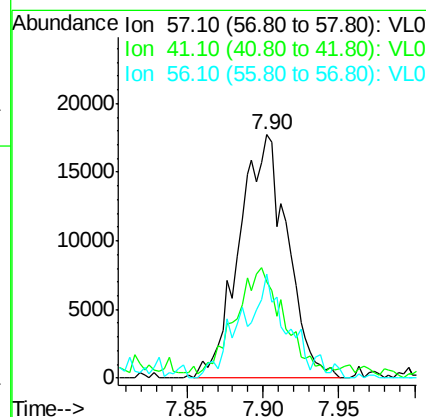
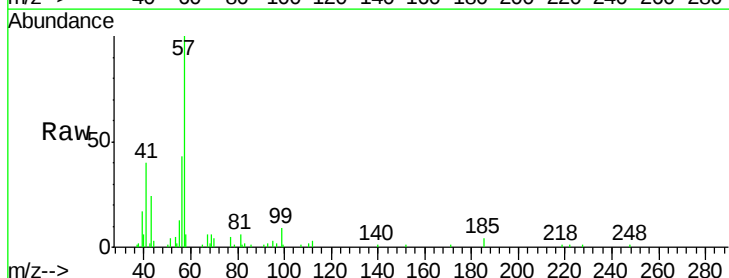
Manual Integrations
APPROVED

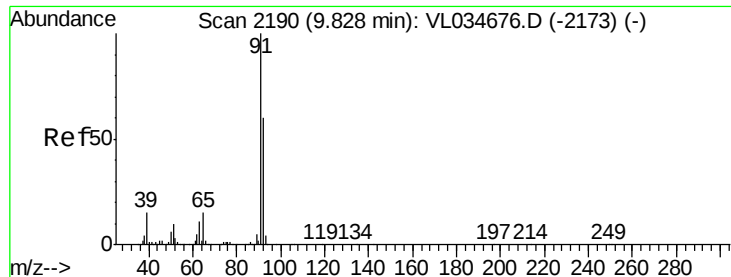
MMDadoda
2/28/2020 12:32:32 PM



#44
2,2,4-Trimethylpentane
Concen: 0.132 ppbv m
RT: 7.90 min Scan# 1591
Delta R.T. 0.02 min
Lab File: VL034707.D
Acq: 27 Feb 2020 13:55

Tgt Ion	Ratio	Lower	Upper
57	100		
41	51.4	26.0	39.0
56	42.6	25.6	38.4





#53

Toluene

Concen: 5.425 ppbv

RT: 9.85 min Scan# 2196

Delta R.T. 0.02 min

Lab File: VL034707.D

Acq: 27 Feb 2020 13:55

Instrument :

MSVOA_L

ClientSampleId :

IAS-1-M-ELECT-RM

Tot Ion: 91 Resp: 975218

Ion Ratio Lower Upper

91 100

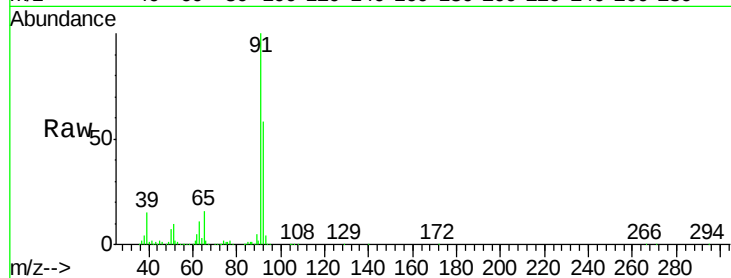
92 58.3 48.5 72.7

Manual Integrations

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2/28/2020 12:32:32 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.85

500000

400000

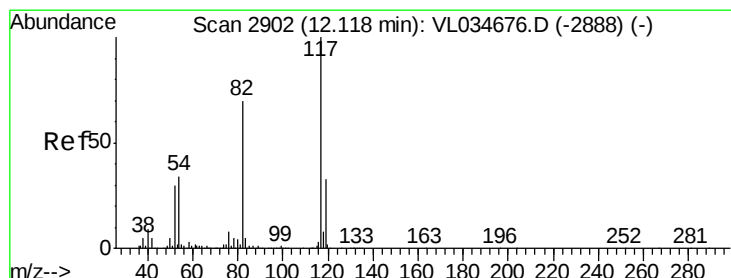
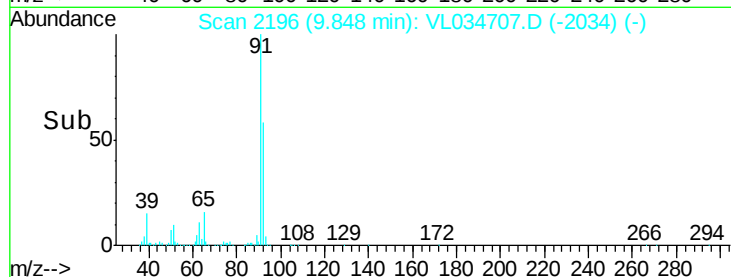
300000

200000

100000

0

Time--> 9.75 9.80 9.85 9.90



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.14 min Scan# 2909

Delta R.T. 0.02 min

Lab File: VL034707.D

Acq: 27 Feb 2020 13:55

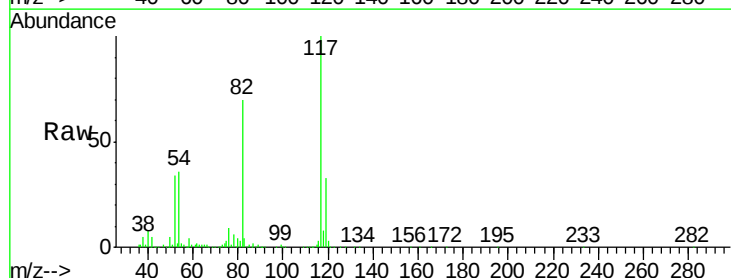
Tgt Ion: 117 Resp: 1878841

Ion Ratio Lower Upper

117 100

82 72.8 54.1 81.1

119 33.4 27.6 41.4



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

1200000

1000000

800000

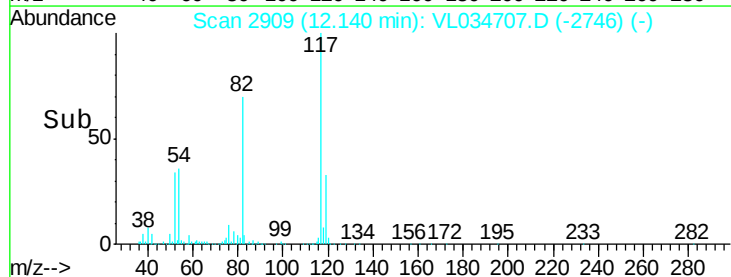
600000

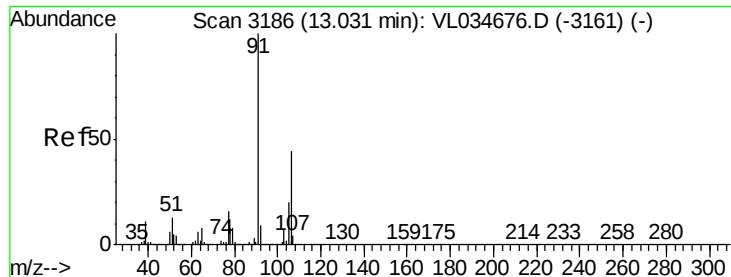
400000

200000

0

Time--> 12.10 12.20





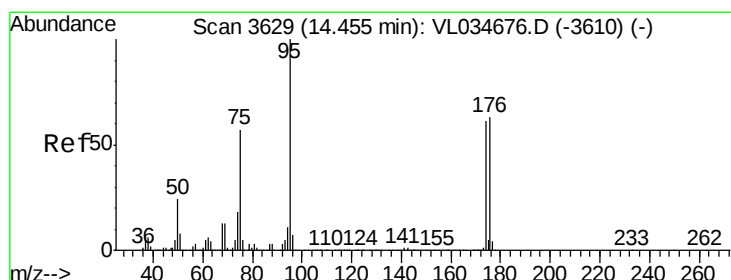
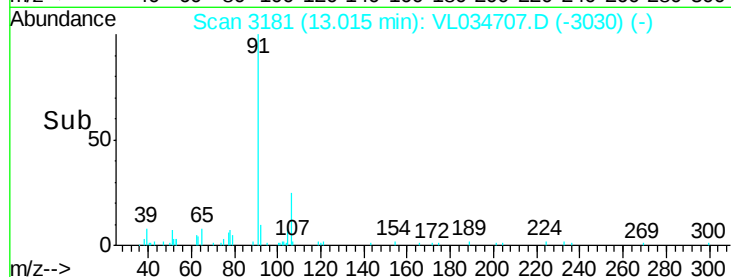
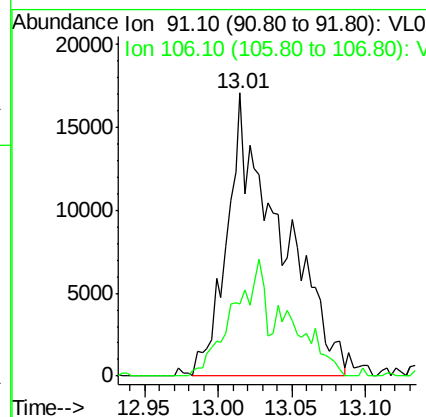
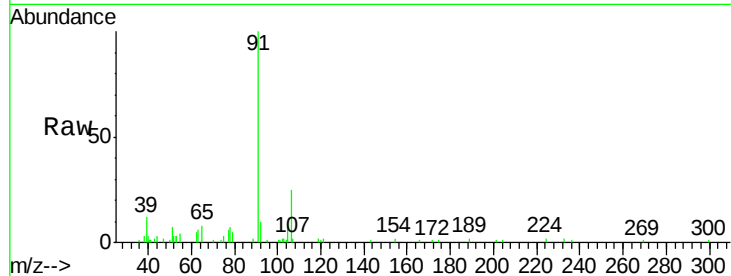
#59
m/p-Xylene
Concen: 0.215 ppbv m
RT: 13.01 min Scan# 3181
Delta R.T. -0.02 min
Lab File: VL034707.D
Acq: 27 Feb 2020 13:55

Instrument :
MSVOA_L
ClientSampleId :
IAS-1-M-ELECT-RM

Tot Ion: 91 Resp: 42720
Ion Ratio Lower Upper
91 100
106 0.0 35.6 53.4#

Manual Integrations
APPROVED

MMDadoda
2/28/2020 12:32:32 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.386 ppbv
RT: 14.47 min Scan# 3635
Delta R.T. 0.02 min
Lab File: VL034707.D
Acq: 27 Feb 2020 13:55

Tgt Ion: 95 Resp: 1600041
Ion Ratio Lower Upper
95 100
174 63.8 50.7 76.1
175 4.6 3.9 5.9

