

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032921\
 Data File : VL036548.D
 Acq On : 29 Mar 2021 20:52
 Operator : SY/AP
 Sample : M1760-13
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-8-RM-NETXT-TO-GR

Manual Integrations
 APPROVED

MMDadoda
 3/30/2021 7:44:19 PM

Quant Time: Mar 30 11:34:21 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 2021
 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	5.65	49	1529965	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3495682	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3143447	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2490169	9.94	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	65193	0.261	ppbv	91
3) Chlorodifluoromethane	2.98	51	128145m	0.448	ppbv	
4) Chloromethane	3.13	50	55493	0.550	ppbv #	79
9) Propene	3.01	41	225703m	2.477	ppbv	
10) Heptane	8.11	43	37038m	0.160	ppbv	
11) Trichlorofluoromethane	3.94	101	51973	0.204	ppbv	89
13) Ethanol	3.60	45	2346546	216.233	ppbv	94
15) Acetone	3.84	43	1398508	9.287	ppbv	92
19) Isopropyl Alcohol	3.96	45	2463619	29.741	ppbv #	97
20) Methylene Chloride	4.34	84	58337	0.827	ppbv	87
26) Hexane	5.67	57	96991m	0.584	ppbv	
34) 2-Butanone	5.24	43	73137	0.429	ppbv	96
35) Carbon Tetrachloride	7.01	117	16640m	0.062	ppbv	
36) Benzene	6.87	78	134101	0.416	ppbv	93
44) 2,2,4-Trimethylpentane	7.86	57	77592m	0.137	ppbv	
52) Tetrachloroethene	11.21	164	9088m	0.077	ppbv	
53) Toluene	9.79	91	374561	1.091	ppbv	99
59) m/p-Xylene	12.95	91	126422m	0.317	ppbv	
60) o-Xylene	13.68	91	48173m	0.125	ppbv	
76) 1,4-Dichlorobenzene	17.14	146	44216m	0.187	ppbv	

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

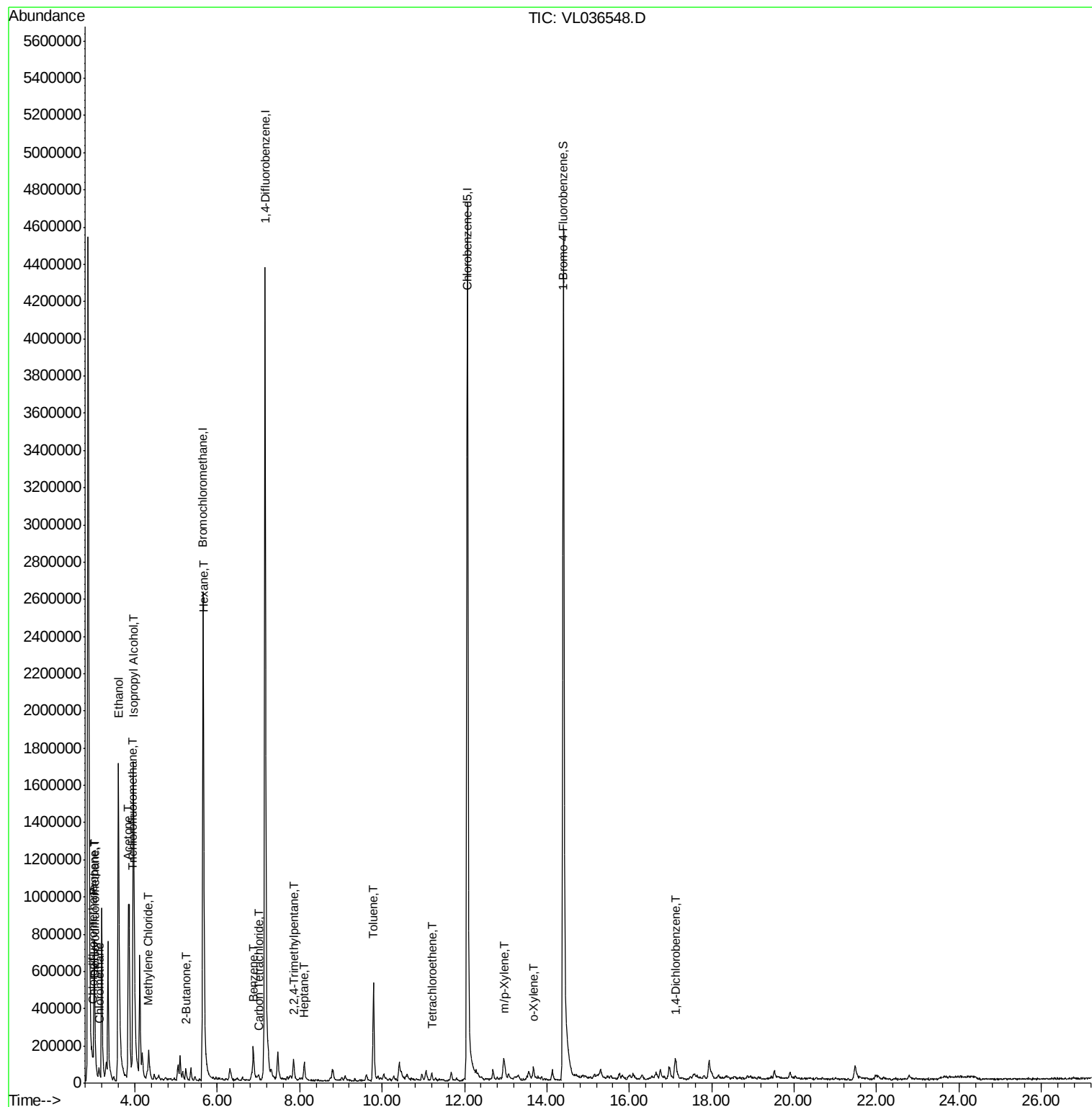
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032921\
Data File : VL036548.D
Acq On : 29 Mar 2021 20:52
Operator : SY/AP
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3/30/2021 7:44:19 PM

Quant Time: Mar 30 11:34:21 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: 5.65 min Scan# 891

Delta R.T. -0.02 min

Lab File: VL036548.D

Acq: 29 Mar 2021 20:52

Instrument :

MSVOA_L

ClientSampleId :

IAS-8-RM-NETXT-TO-GR

Tot Ion: 49 Resp: 1529965

Ion Ratio Lower Upper

49 100

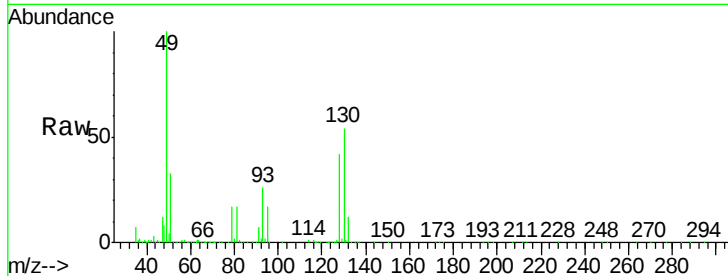
128 43.6 23.5 70.6

130 55.5 29.1 87.4

Manual Integrations
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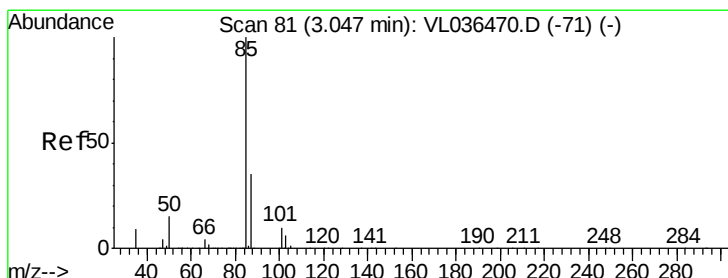
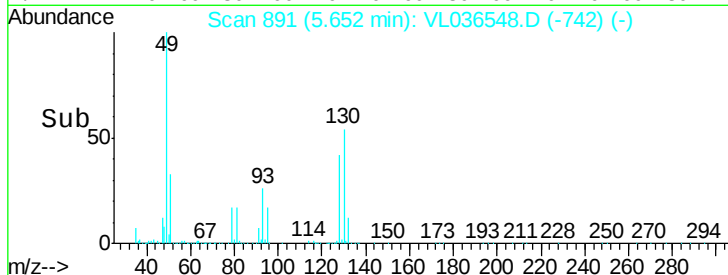
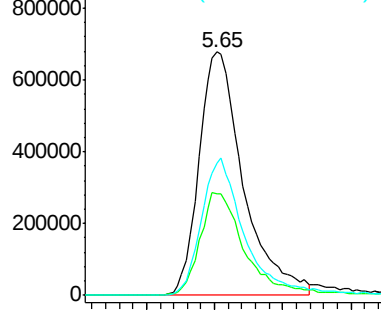
3/30/2021 7:44:19 PM



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: 0.261 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL036548.D

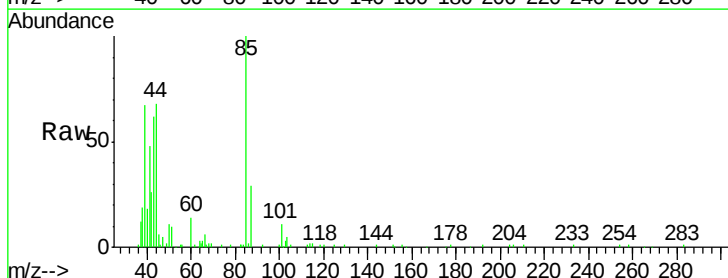
Acq: 29 Mar 2021 20:52

Tgt Ion: 85 Resp: 65193

Ion Ratio Lower Upper

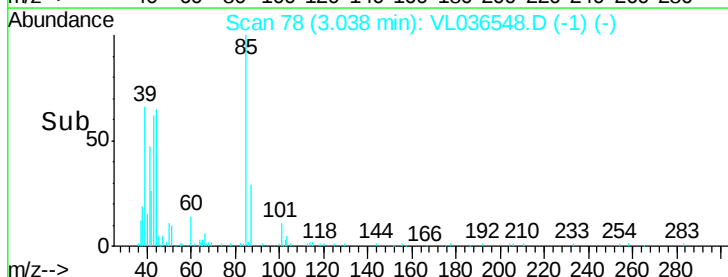
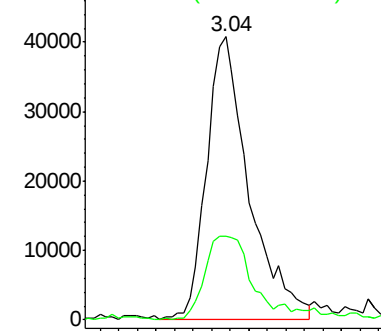
85 100

87 29.4 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.448 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL036548.D

Acq: 29 Mar 2021 20:52

Instrument :

MSVOA_L

ClientSampleId :

IAS-8-RM-NETXT-TO-GR

Tot Ion: 51 Resp: 128145

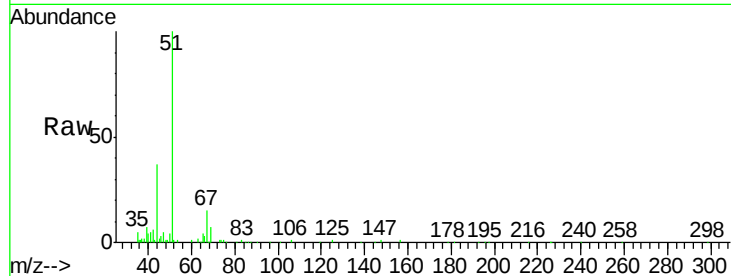
Ion Ratio Lower Upper

51 100

67 14.0 14.7 22.1#

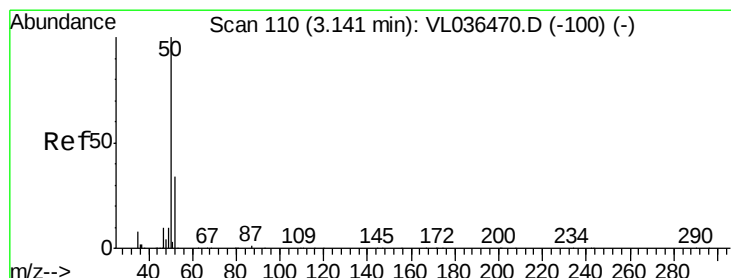
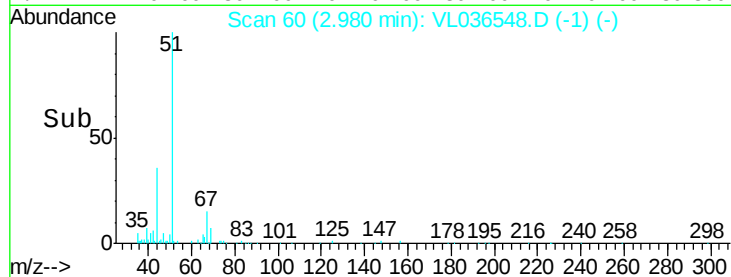
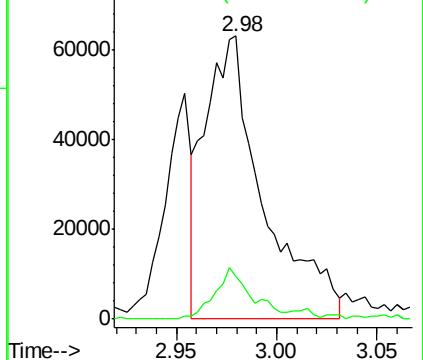
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.550 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL036548.D

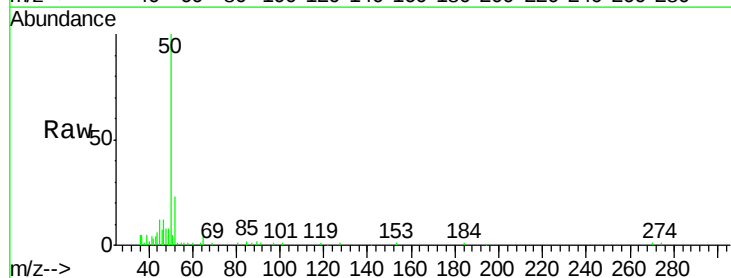
Acq: 29 Mar 2021 20:52

Tgt Ion: 50 Resp: 55493

Ion Ratio Lower Upper

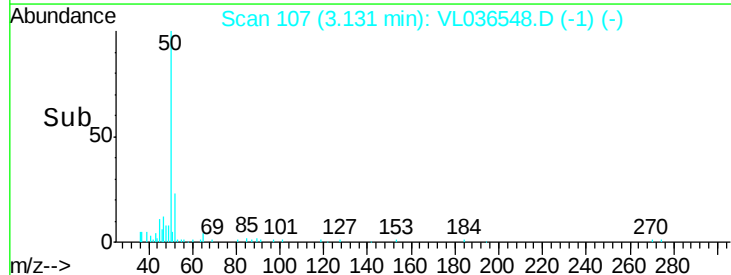
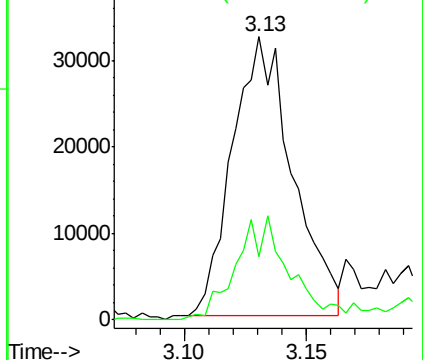
50 100

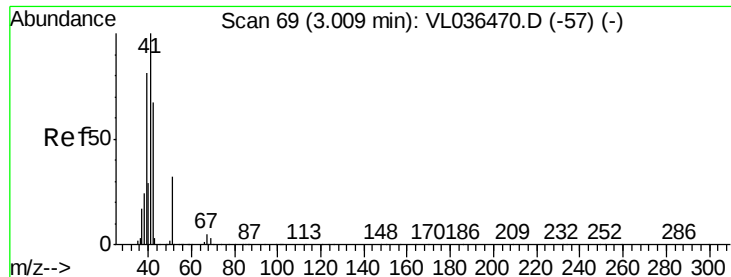
52 21.7 27.0 40.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 2.477 ppbv m

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL036548.D

Acq: 29 Mar 2021 20:52

Instrument :

MSVOA_L

ClientSampleId :

IAS-8-RM-NETXT-TO-GR

Tot Ion: 41 Resp: 225703

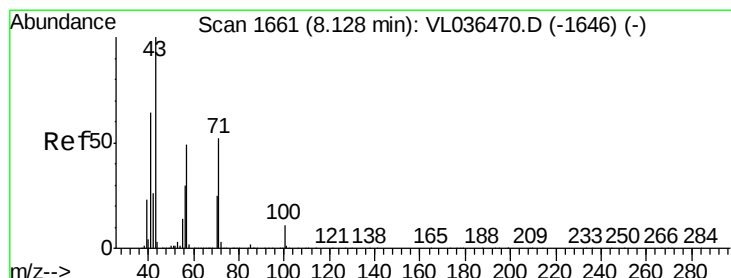
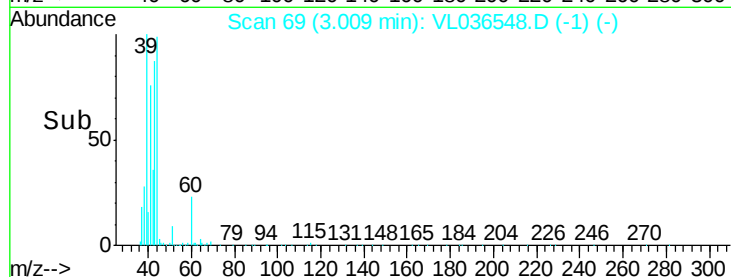
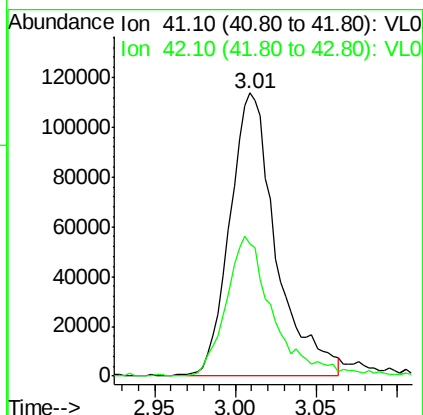
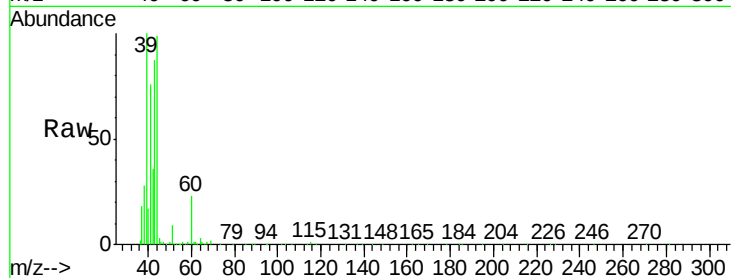
Ion Ratio Lower Upper

41 100

42 98.4 57.0 85.4#

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#10

Heptane

Concen: 0.160 ppbv m

RT: 8.11 min Scan# 1657

Delta R.T. -0.01 min

Lab File: VL036548.D

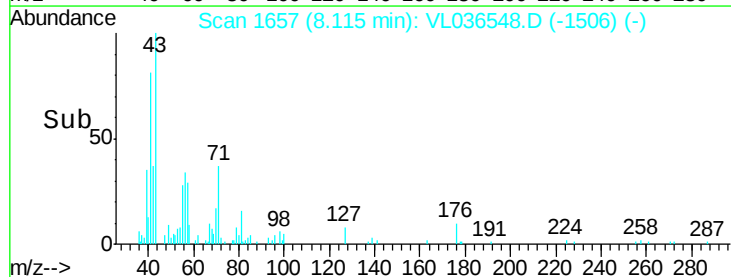
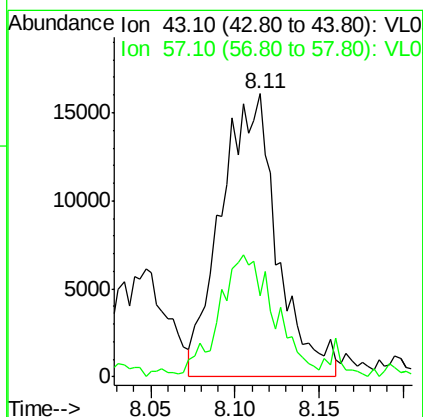
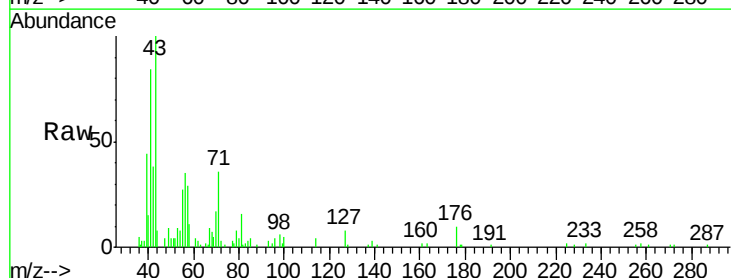
Acq: 29 Mar 2021 20:52

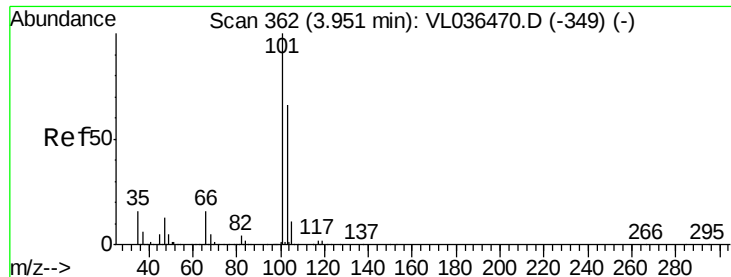
Tgt Ion: 43 Resp: 37038

Ion Ratio Lower Upper

43 100

57 41.4 39.0 58.6





#11

Trichlorofluoromethane

Concen: 0.204 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.01 min

Lab File: VL036548.D

Acq: 29 Mar 2021 20:52

Instrument :

MSVOA_L

ClientSampleId :

IAS-8-RM-NETXT-TO-GR

Tot Ion:101 Resp: 51973

Ion Ratio Lower Upper

101 100

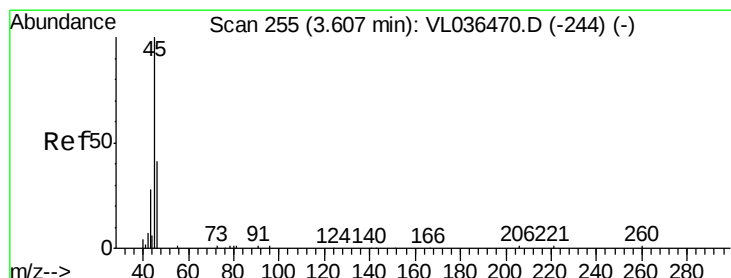
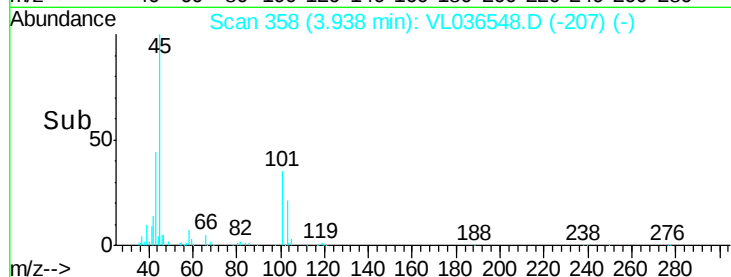
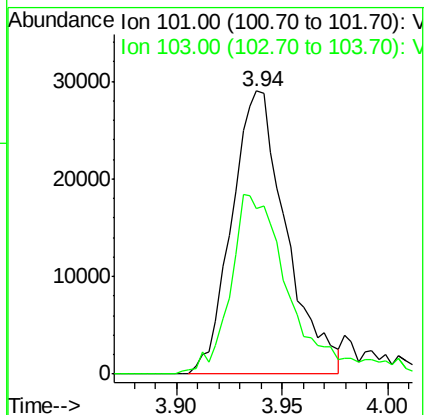
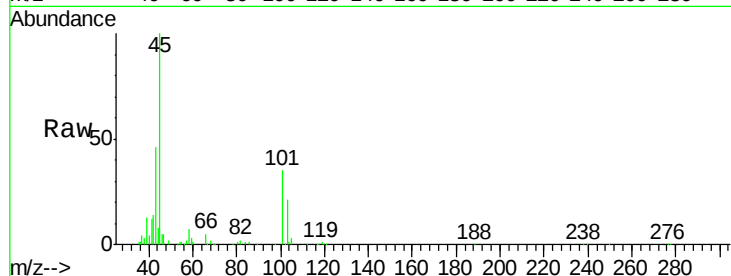
103 57.1 52.5 78.7

Manual Integrations

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#13

Ethanol

Concen: 216.233 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL036548.D

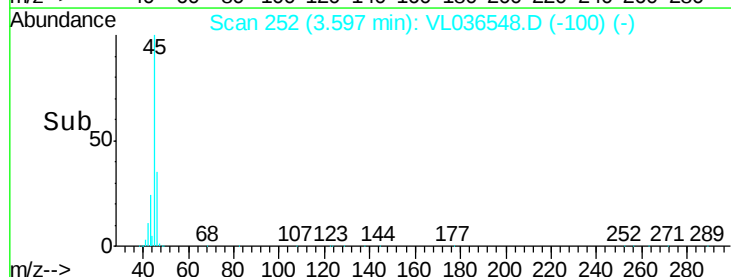
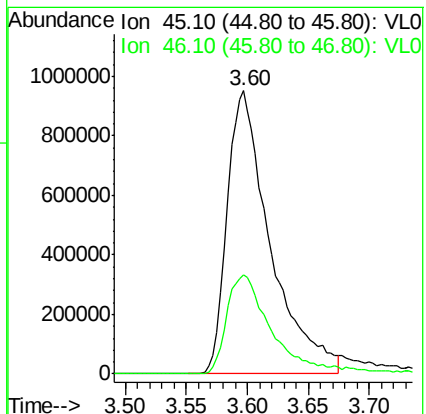
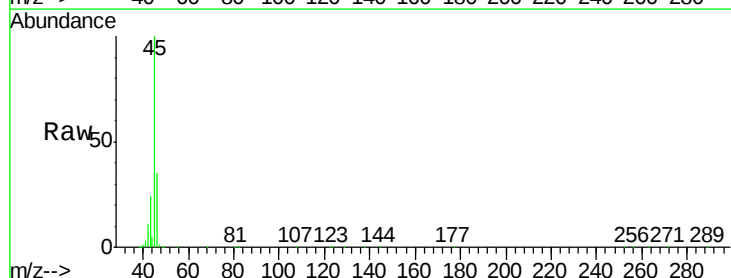
Acq: 29 Mar 2021 20:52

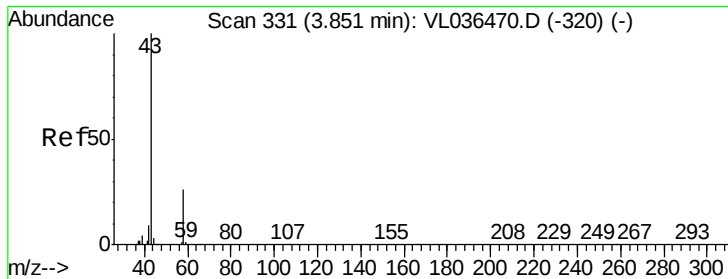
Tgt Ion: 45 Resp: 2346546

Ion Ratio Lower Upper

45 100

46 37.8 16.6 66.2





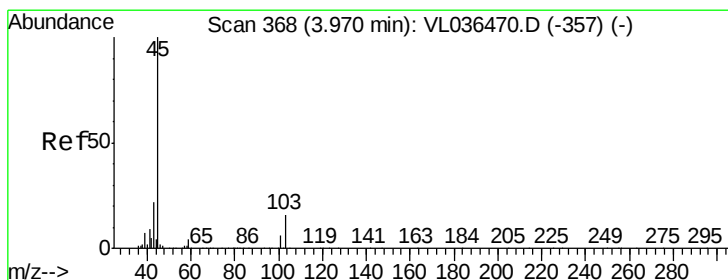
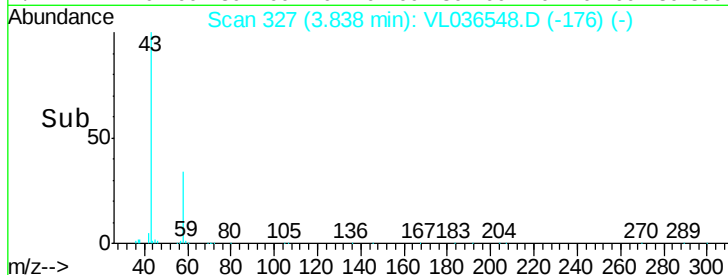
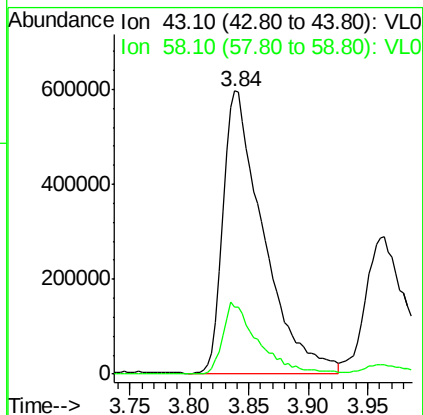
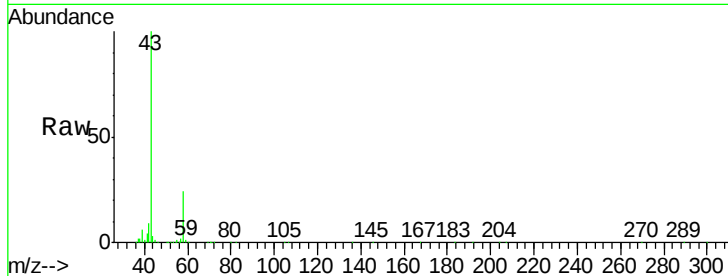
#15
Acetone
Concen: 9.287 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.01 min
Lab File: VL036548.D
Acq: 29 Mar 2021 20:52

Instrument :
MSVOA_L
ClientSampleId :
IAS-8-RM-NETXT-TO-GR

Tot Ion: 43 Resp: 1398508
Ion Ratio Lower Upper
43 100
58 22.6 21.2 31.8

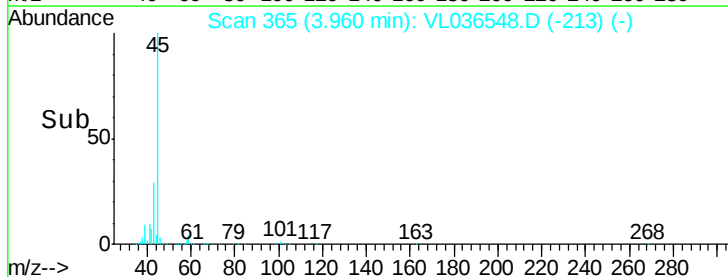
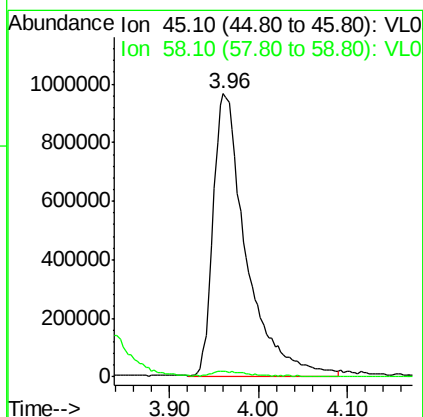
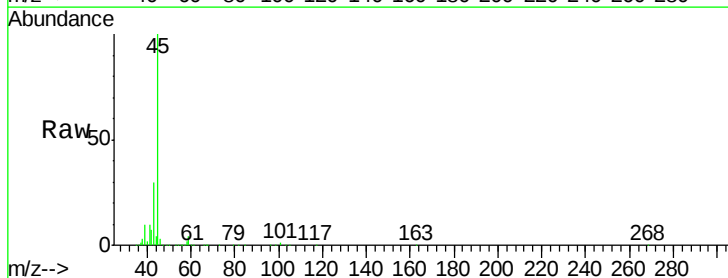
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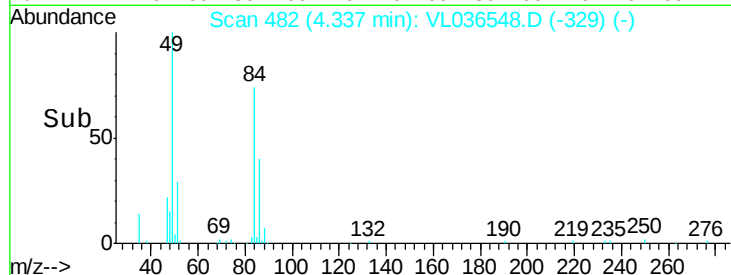
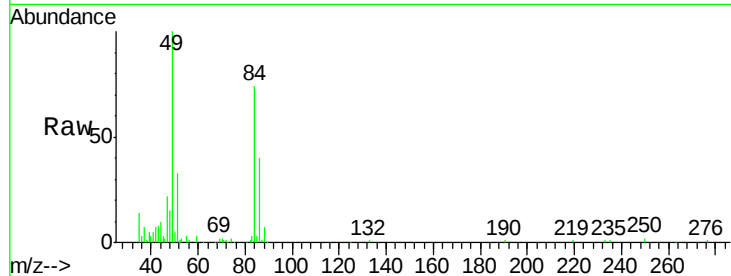
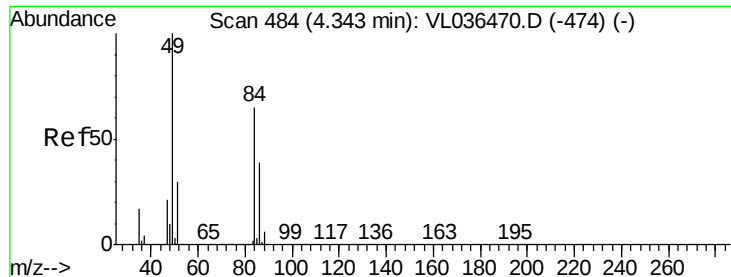
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#19
Isopropyl Alcohol
Concen: 29.741 ppbv
RT: 3.96 min Scan# 365
Delta R.T. -0.01 min
Lab File: VL036548.D
Acq: 29 Mar 2021 20:52

Tgt Ion: 45 Resp: 2463619
Ion Ratio Lower Upper
45 100
58 2.5 2.9 4.3#





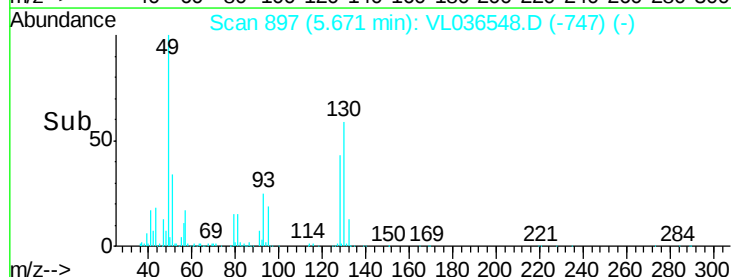
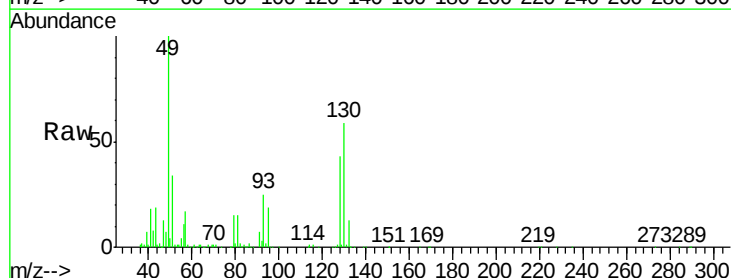
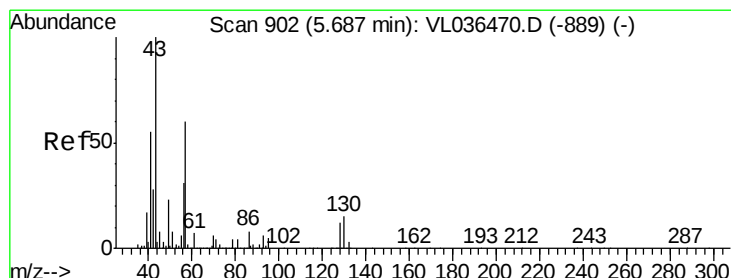
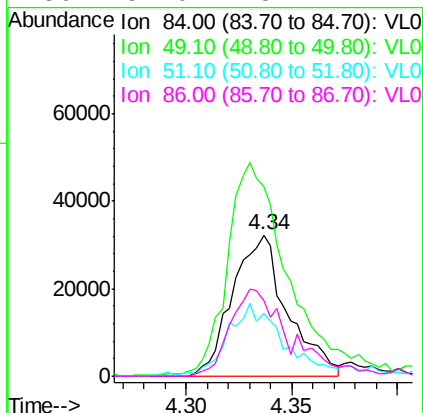
#20
Methvlene Chloride
Concen: 0.827 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL036548.D
Acq: 29 Mar 2021 20:52

Tot Ion	84	Resp	58337
Ion Ratio	Lower	Upper	
84	100		
49	130.9	122.9	184.3
51	41.9	36.9	55.3
86	54.0	48.2	72.4

Instrument :
MSVOA_L
ClientSampleId :
IAS-8-RM-NETXT-TO-GR

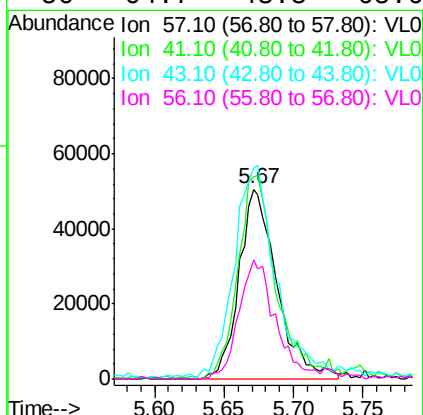
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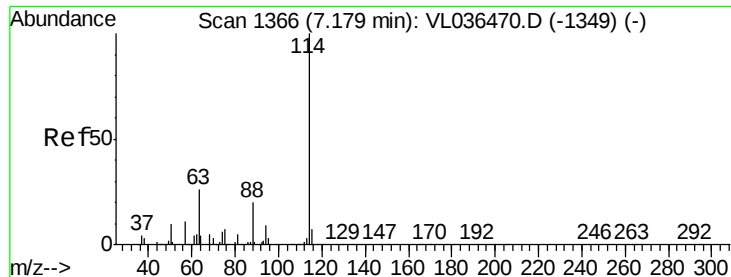
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#26
Hexane
Concen: 0.584 ppbv m
RT: 5.67 min Scan# 897
Delta R.T. -0.02 min
Lab File: VL036548.D
Acq: 29 Mar 2021 20:52

Tgt Ion	57	Resp	96991
Ion Ratio	Lower	Upper	
57	100		
41	109.4	77.2	115.8
43	130.3	173.8	260.6#
56	64.7	43.8	65.6





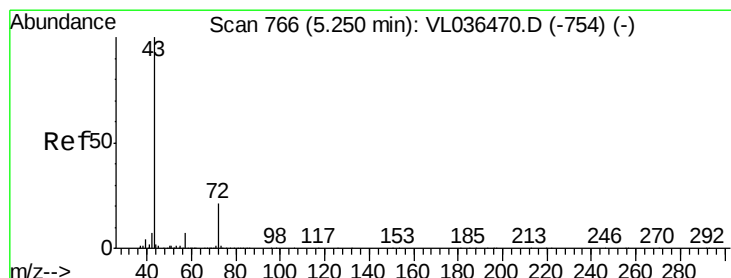
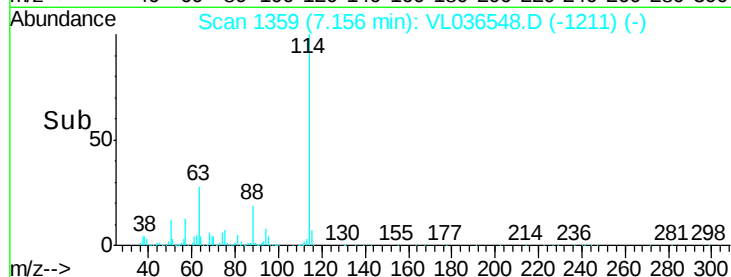
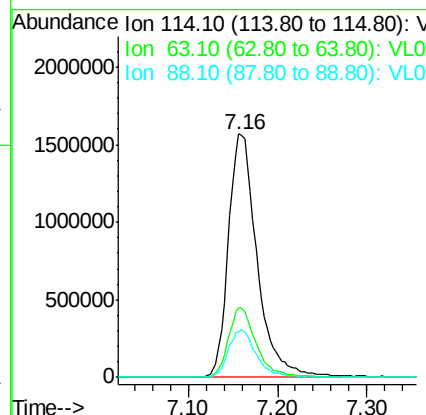
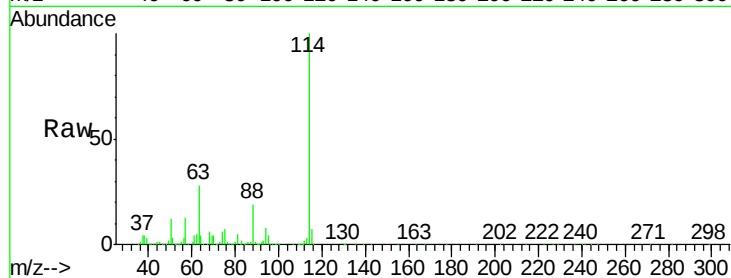
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.02 min
 Lab File: VL036548.D
 Acq: 29 Mar 2021 20:52

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-8-RM-NETXT-TO-GR

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.2	22.4	33.6
88	19.2	15.4	23.0

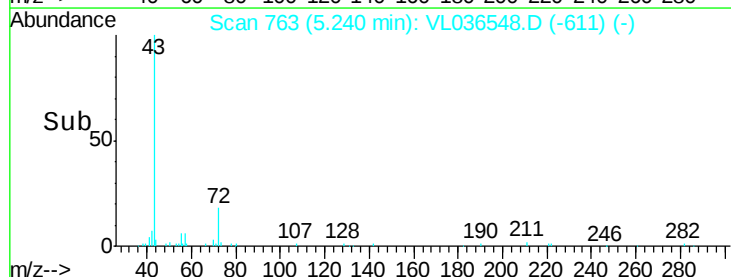
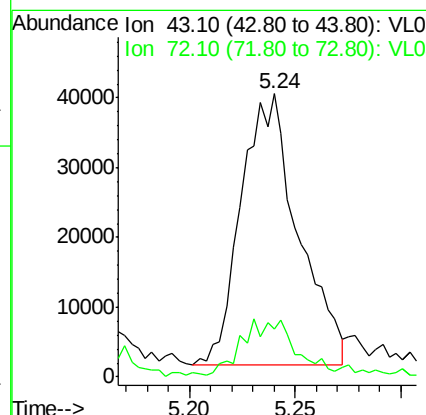
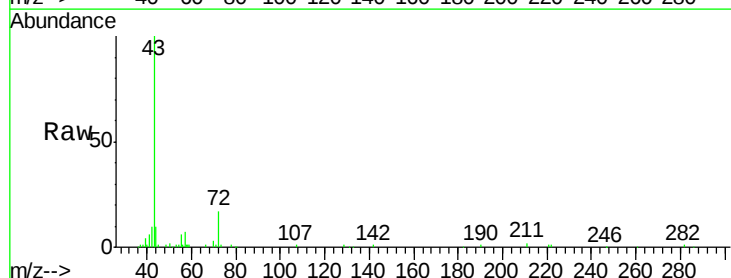
Manual Integrations
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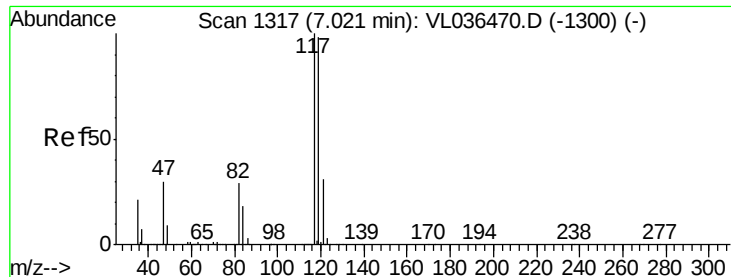
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#34
 2-Butanone
 Concen: 0.429 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. -0.01 min
 Lab File: VL036548.D
 Acq: 29 Mar 2021 20:52

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.2	17.0	25.6





#35

Carbon Tetrachloride

Concen: 0.062 ppbv m

RT: 7.01 min Scan# 1313

Delta R.T. -0.01 min

Lab File: VL036548.D

Acq: 29 Mar 2021 20:52

Instrument :

MSVOA_L

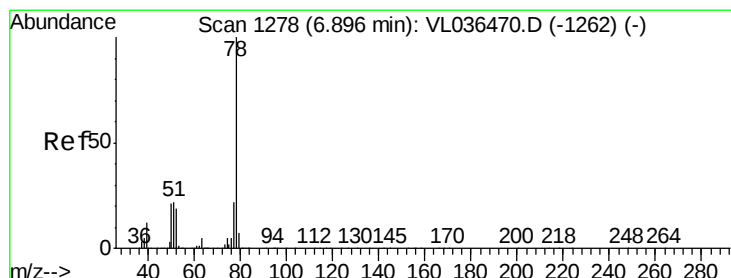
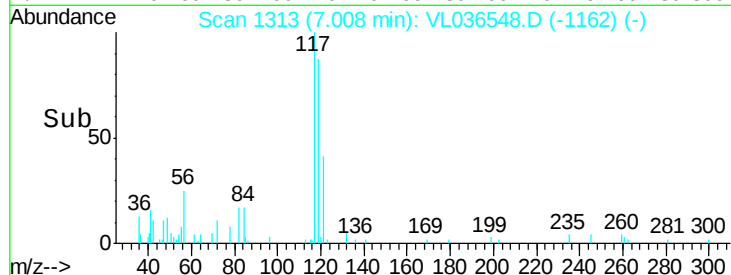
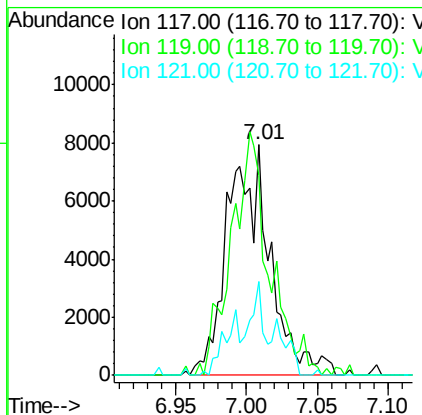
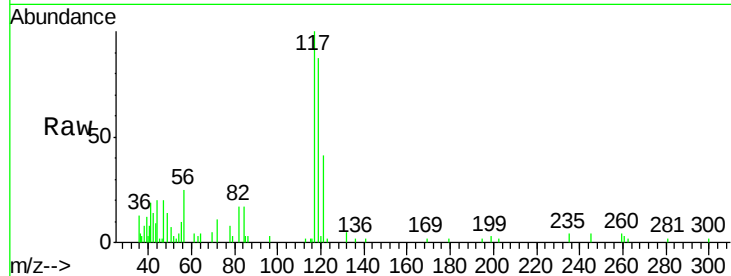
ClientSampleId :

IAS-8-RM-NETXT-TO-GR

Tot Ion:	117	Resp:	16640
Ion Ratio	Lower	Upper	
117	100		
119	86.8	78.2	117.2
121	40.6	24.5	36.7#

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#36

Benzene

Concen: 0.416 ppbv

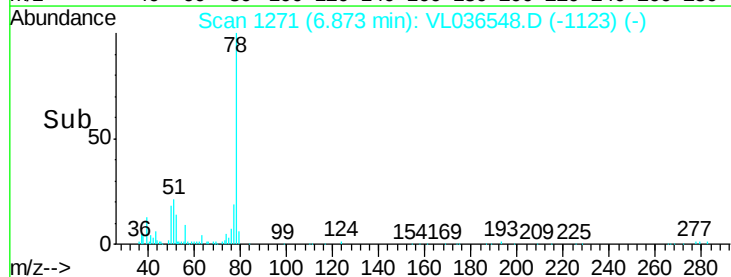
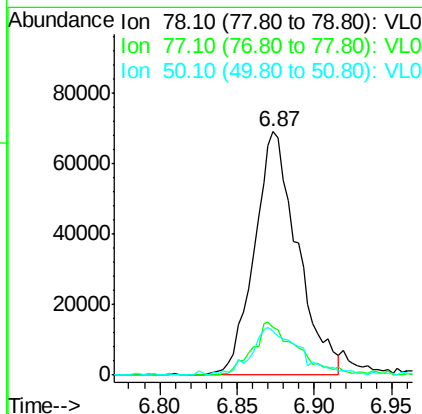
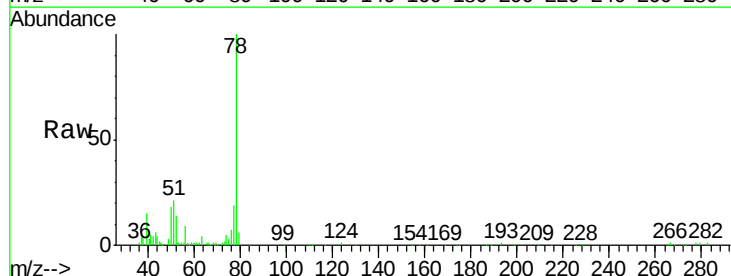
RT: 6.87 min Scan# 1271

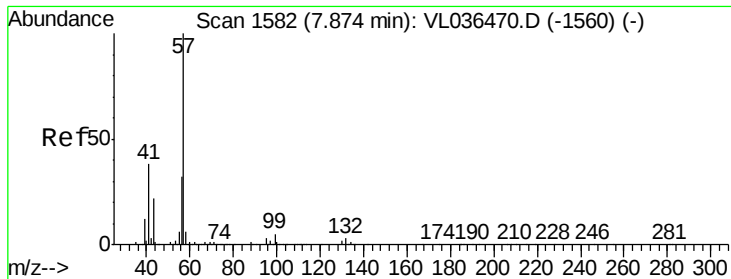
Delta R.T. -0.02 min

Lab File: VL036548.D

Acq: 29 Mar 2021 20:52

Tgt Ion:	78	Resp:	134101
Ion Ratio	Lower	Upper	
78	100		
77	19.0	18.0	27.0
50	17.8	16.5	24.7





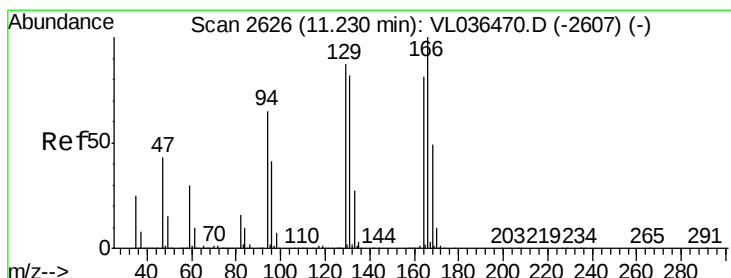
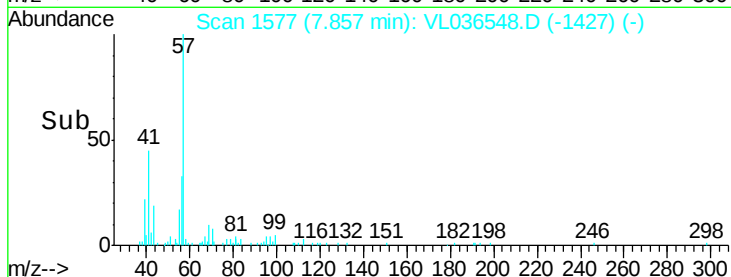
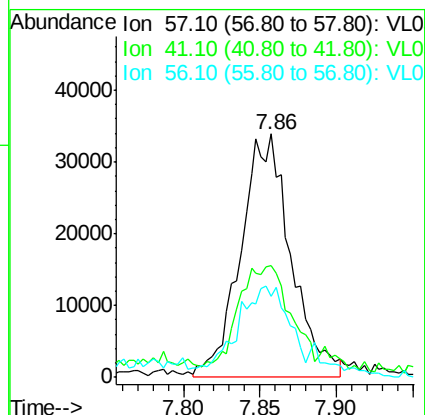
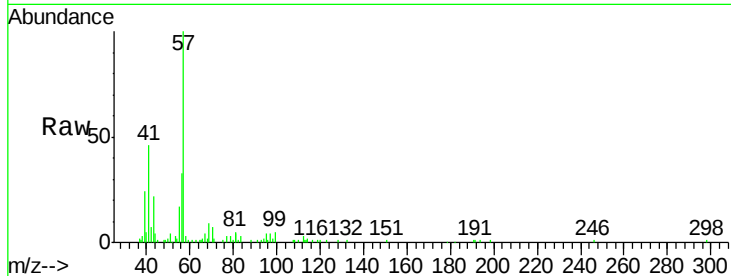
#44
2,2,4-Trimethylpentane
Concen: 0.137 ppbv m
RT: 7.86 min Scan# 1577
Delta R.T. -0.02 min
Lab File: VL036548.D
Acq: 29 Mar 2021 20:52

Instrument :
MSVOA_L
ClientSampleId :
IAS-8-RM-NETXT-TO-GR

Tot Ion	Ratio	Lower	Upper
57	100		
41	0.0	28.8	43.2#
56	0.0	26.1	39.1#

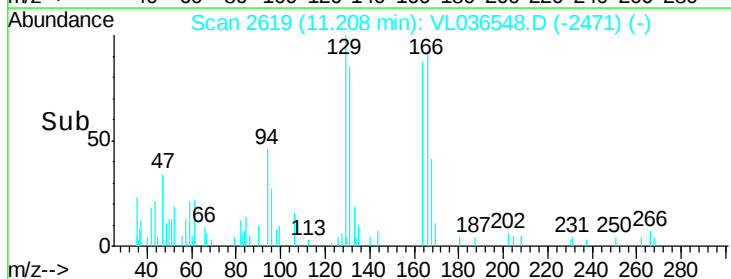
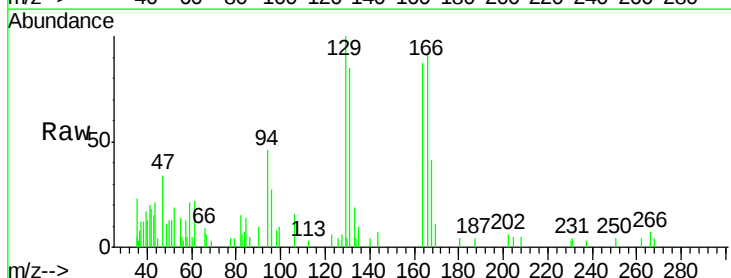
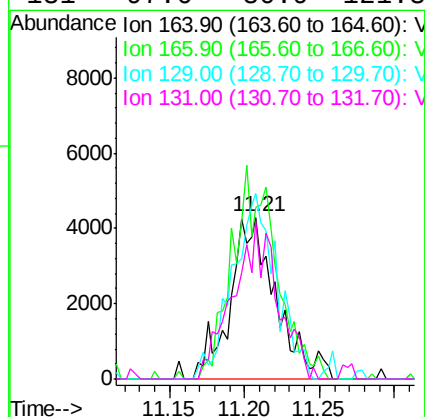
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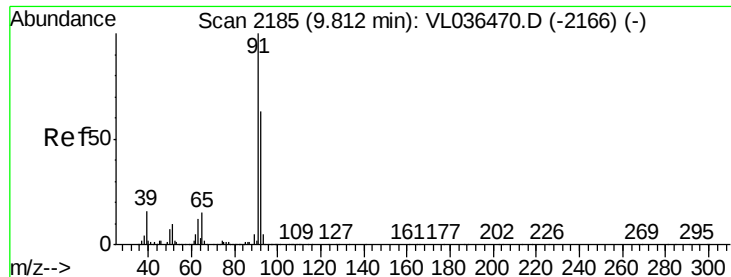
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#52
Tetrachloroethene
Concen: 0.077 ppbv m
RT: 11.21 min Scan# 2619
Delta R.T. -0.02 min
Lab File: VL036548.D
Acq: 29 Mar 2021 20:52

Tgt Ion	Ratio	Lower	Upper
164	100		
166	106.0	98.3	147.5
129	115.2	85.8	128.8
131	97.6	80.9	121.3





#53

Toluene

Concen: 1.091 ppbv

RT: 9.79 min Scan# 2178

Delta R.T. -0.02 min

Lab File: VL036548.D

Acq: 29 Mar 2021 20:52

Instrument :

MSVOA_L

ClientSampleId :

IAS-8-RM-NETXT-TO-GR

Tot Ion: 91 Resp: 374561

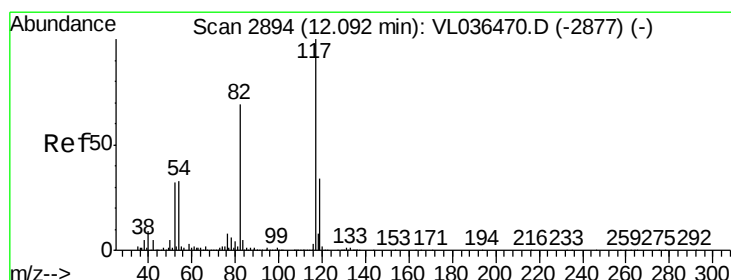
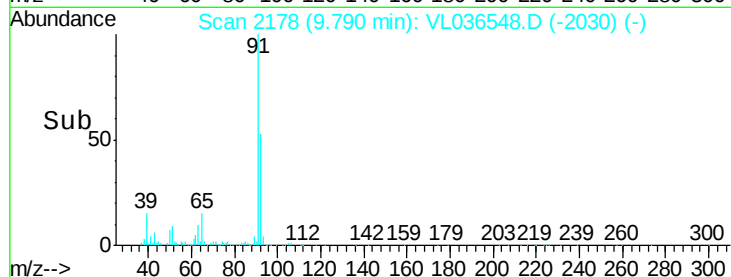
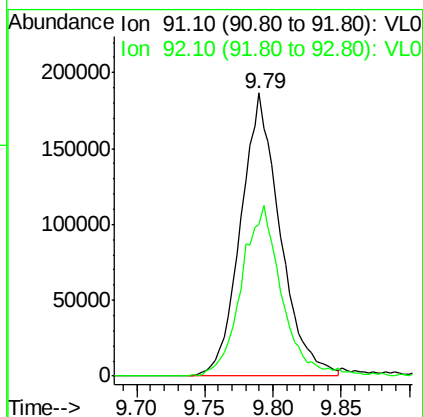
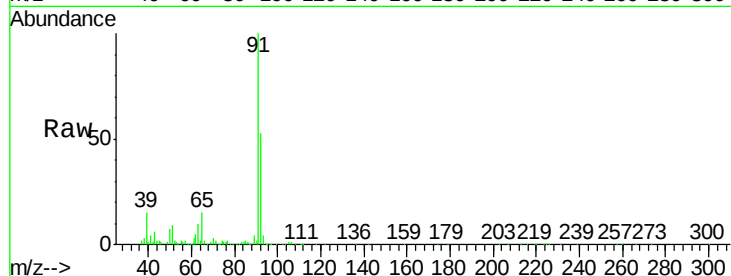
Ion Ratio Lower Upper

91 100

92 62.0 48.8 73.2

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. -0.02 min

Lab File: VL036548.D

Acq: 29 Mar 2021 20:52

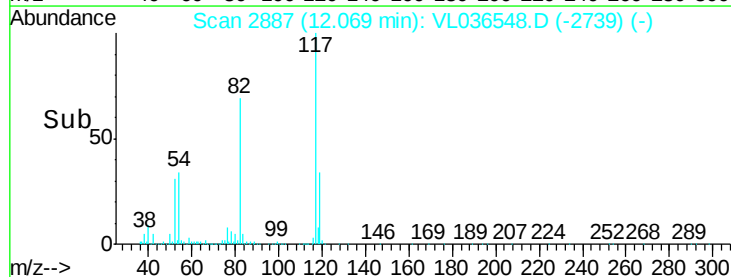
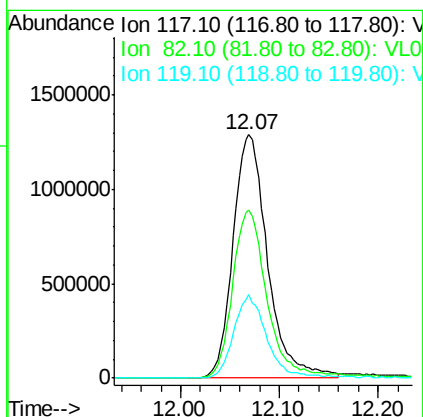
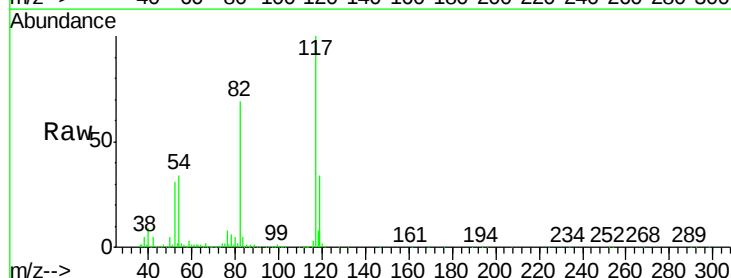
Tgt Ion: 117 Resp: 3143447

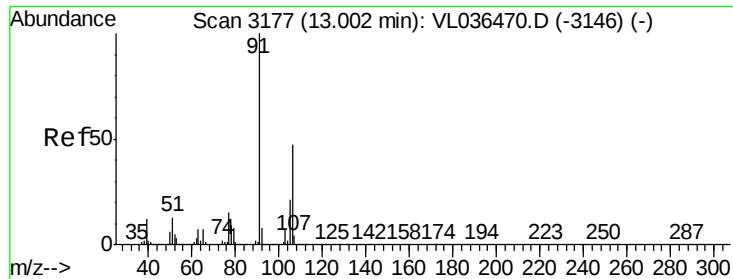
Ion Ratio Lower Upper

117 100

82 70.2 57.4 86.0

119 32.7 47.4 71.0#





#59

m/p-Xylene

Concen: 0.317 ppbv m

RT: 12.95 min Scan# 3162

Delta R.T. -0.05 min

Lab File: VL036548.D

Acq: 29 Mar 2021 20:52

Instrument :

MSVOA_L

ClientSampleId :

IAS-8-RM-NETXT-TO-GR

Tot Ion: 91 Resp: 126422

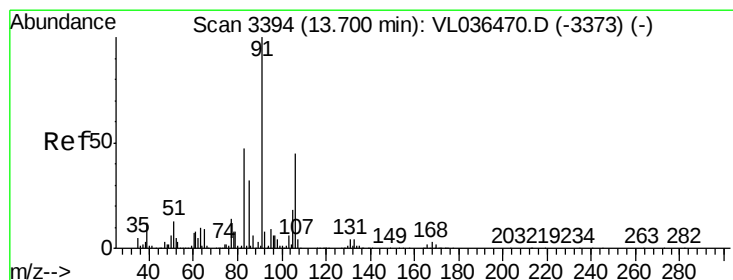
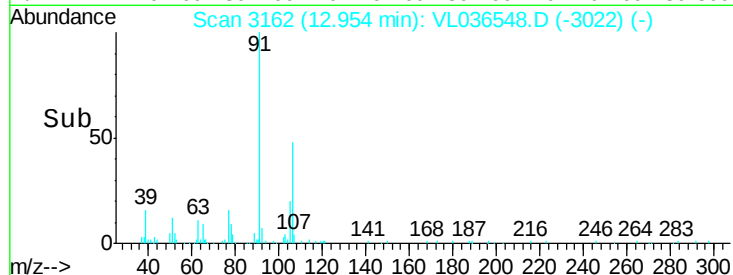
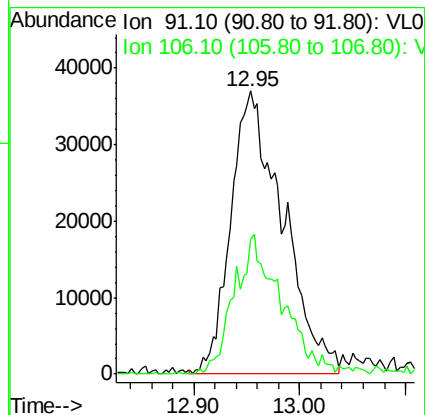
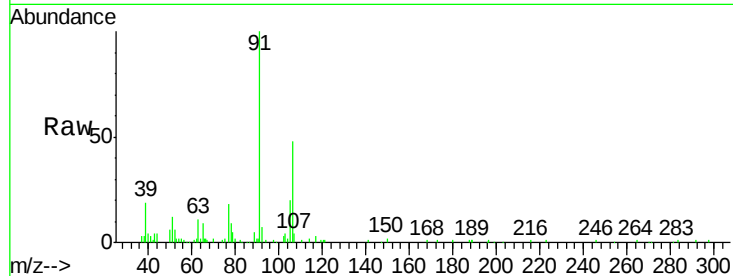
Ion Ratio Lower Upper

91 100

106 0.0 35.3 52.9#

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#60

o-Xylene

Concen: 0.125 ppbv m

RT: 13.68 min Scan# 3387

Delta R.T. -0.02 min

Lab File: VL036548.D

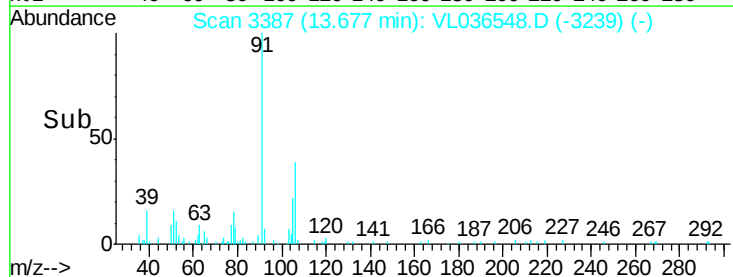
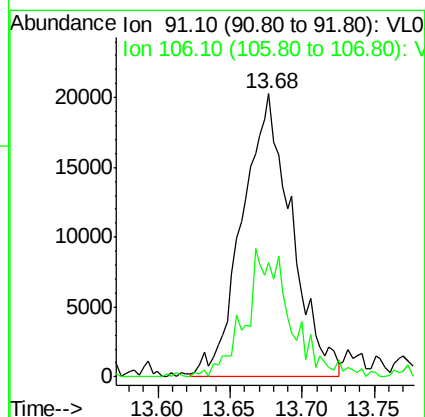
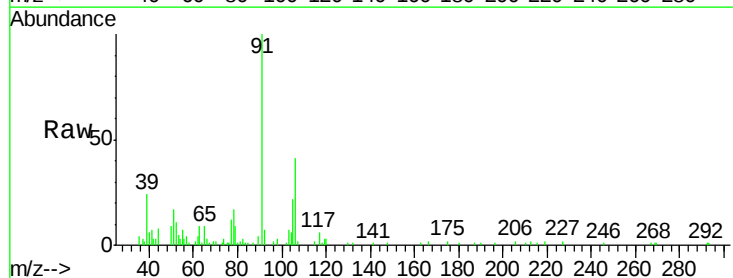
Acq: 29 Mar 2021 20:52

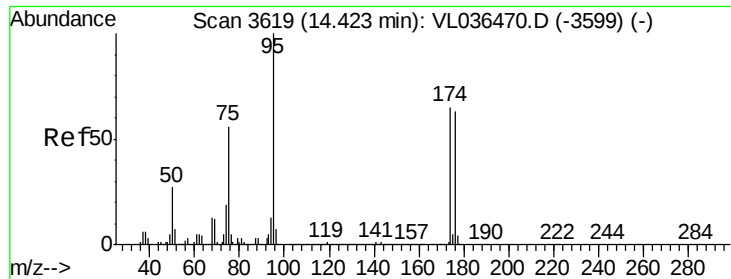
Tgt Ion: 91 Resp: 48173

Ion Ratio Lower Upper

91 100

106 41.5 22.3 66.9





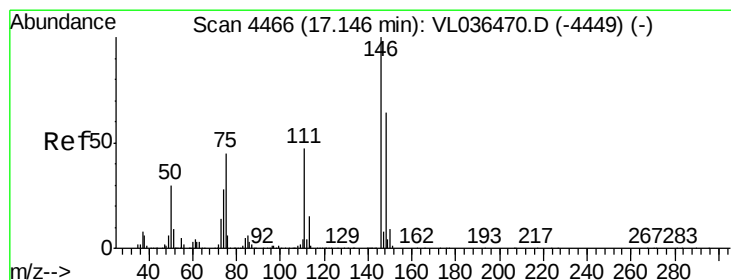
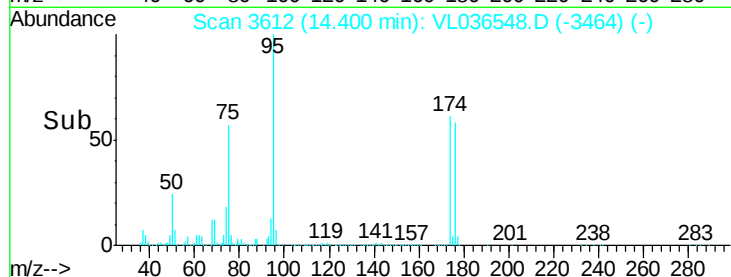
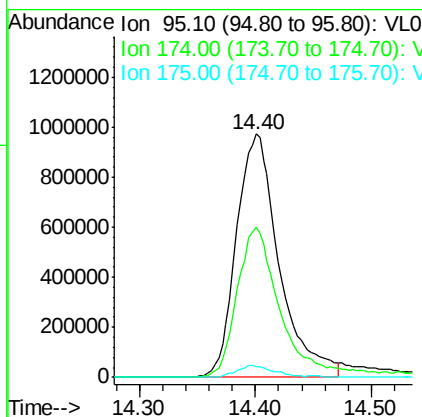
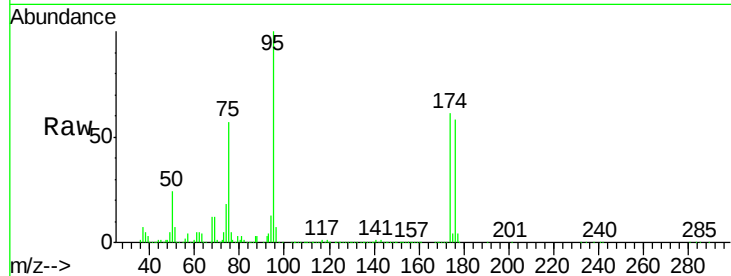
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.939 ppbv
 RT: 14.40 min Scan# 3612
 Delta R.T. -0.02 min
 Lab File: VL036548.D
 Acq: 29 Mar 2021 20:52

Instrument :
 MSVOA_L
 ClientSampleId :
 IAS-8-RM-NETXT-TO-GR

Tot Ion: 95 Resp: 2490169
 Ion Ratio Lower Upper
 95 100
 174 66.0 51.0 76.6
 175 4.9 3.9 5.9

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#76
 1,4-Dichlorobenzene
 Concen: 0.187 ppbv m
 RT: 17.14 min Scan# 4463
 Delta R.T. -0.01 min
 Lab File: VL036548.D
 Acq: 29 Mar 2021 20:52

Tgt Ion: 146 Resp: 44216
 Ion Ratio Lower Upper
 146 100
 111 0.0 24.3 72.8#
 148 0.0 33.0 98.9#

