

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111820\
 Data File : VL035989.D
 Acq On : 19 Nov 2020 1:24
 Operator : SY/AP
 Sample : L4781-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA4

Manual Integrations
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MMDadoda
 11/20/2020 12:28:20 PM

Quant Time: Nov 19 21:35:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 04 02:40:06 2020
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.63	49	1077300	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.13	114	3823035	10.00	ppbv	-0.05
55) Chlorobenzene-d5	12.04	117	3514895	10.00	ppbv	-0.05

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.37	95	2645494	10.59	ppbv	-0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	51437	0.254	ppbv	94
3) Chlorodifluoromethane	2.96	51	75361	0.584	ppbv #	86
4) Chloromethane	3.11	50	34266	0.547	ppbv	98
9) Propene	2.99	41	48830	1.034	ppbv	87
11) Trichlorofluoromethane	3.92	101	74142	0.291	ppbv	93
13) Ethanol	3.57	45	1064688	103.933	ppbv	95
15) Acetone	3.82	43	558118	4.846	ppbv	92
19) Isopropyl Alcohol	3.94	45	270925	3.828	ppbv #	91
20) Methylene Chloride	4.31	84	159399	1.966	ppbv	93
26) Hexane	5.65	57	265180	2.119	ppbv #	51
29) Chloroform	5.71	83	33590m	0.137	ppbv	
34) 2-Butanone	5.21	43	24105	0.194	ppbv	93
35) Carbon Tetrachloride	6.98	117	14663	0.072	ppbv	97
36) Benzene	6.84	78	74610	0.263	ppbv	94
44) 2,2,4-Trimethylpentane	7.83	57	41429	0.110	ppbv #	61
52) Tetrachloroethene	11.18	164	22701m	0.169	ppbv	
53) Toluene	9.76	91	941443	2.745	ppbv	97
59) m/p-Xylene	12.92	91	52224m	0.144	ppbv	

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

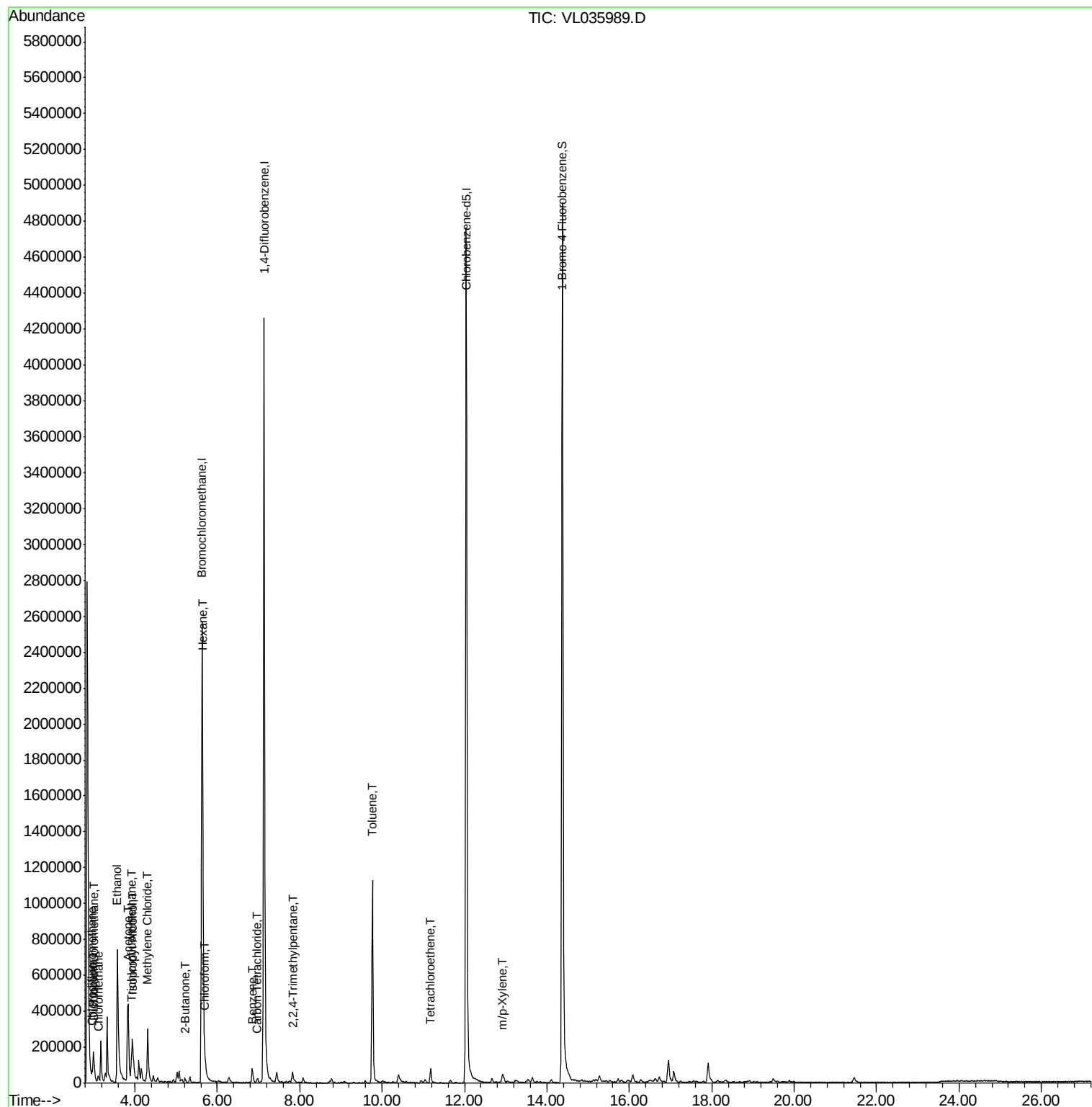
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111820\
Data File : VL035989.D
Acq On : 19 Nov 2020 1:24
Operator : SY/AP
Sample : L4781-05
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

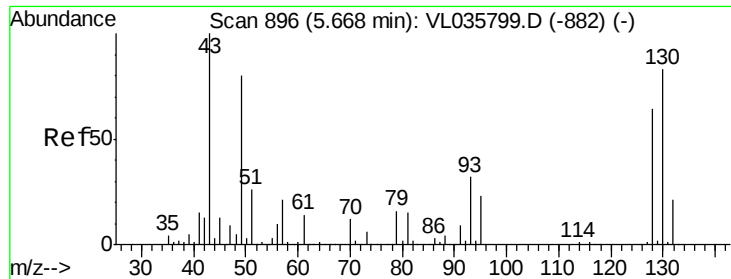
Instrument :
MSVOA_L
ClientSampleId :
IA4

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11/20/2020 12:28:20 PM

Quant Time: Nov 19 21:35:59 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.63 min Scan# 883

Delta R.T. -0.04 min

Lab File: VL035989.D

Acq: 19 Nov 2020 1:24

Instrument :

MSVOA_L

ClientSampled :

IA4

Tot Ion: 49 Resp: 1077300

Ion Ratio Lower Upper

49 100

128 78.2 41.5 124.6

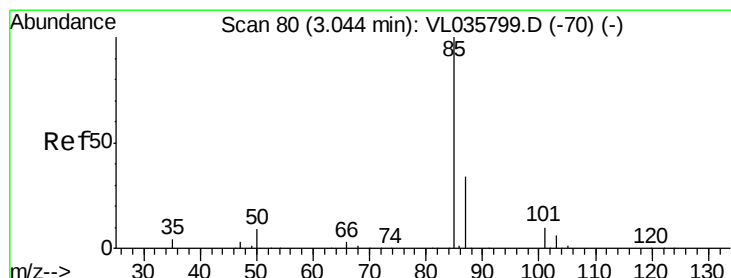
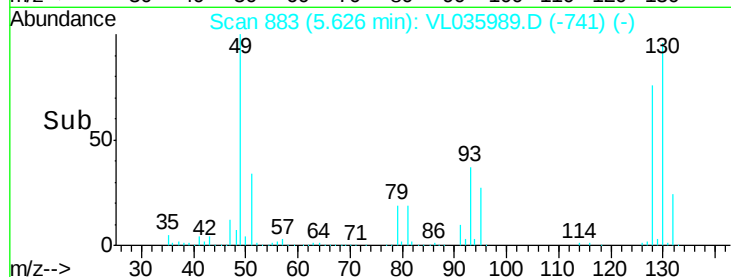
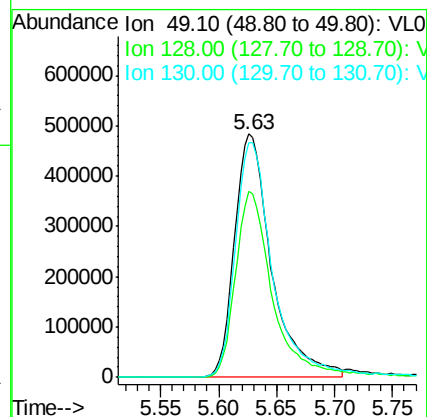
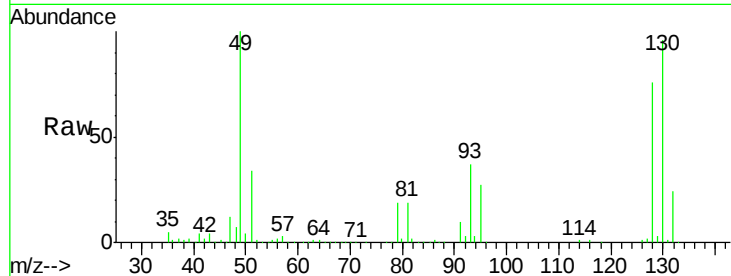
130 99.7 53.7 161.1

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.254 ppbv

RT: 3.02 min Scan# 72

Delta R.T. -0.03 min

Lab File: VL035989.D

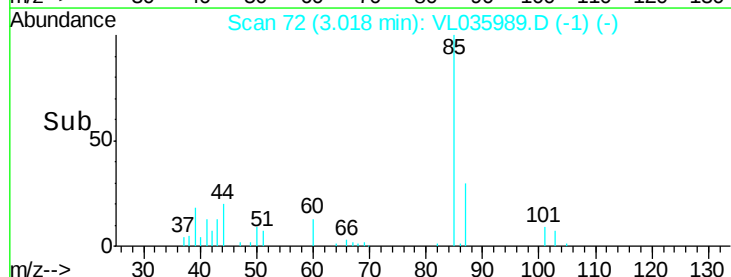
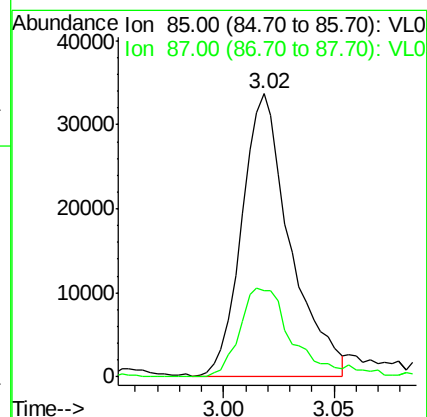
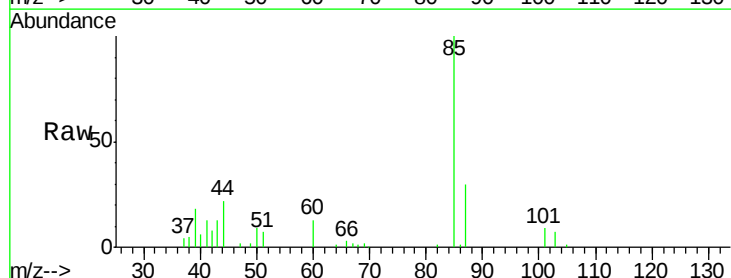
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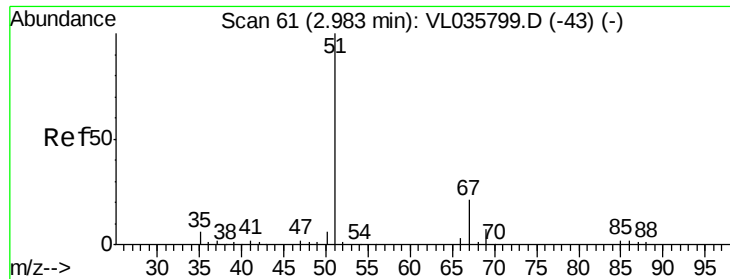
Tgt Ion: 85 Resp: 51437

Ion Ratio Lower Upper

85 100

87 30.5 27.1 40.7





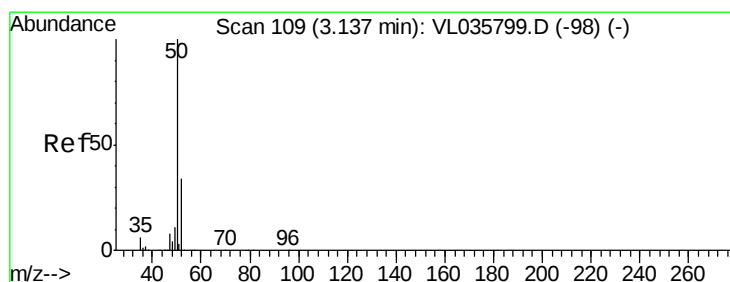
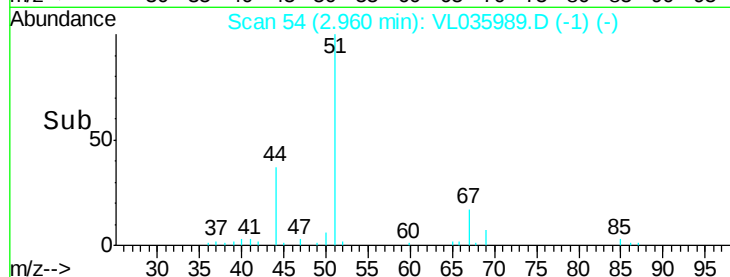
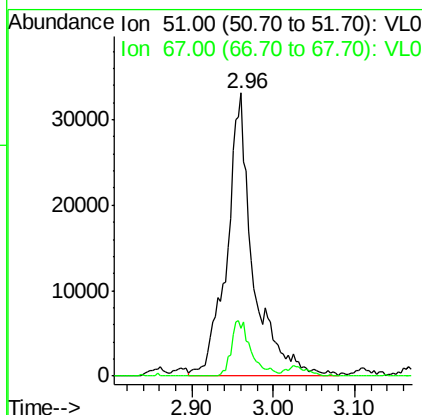
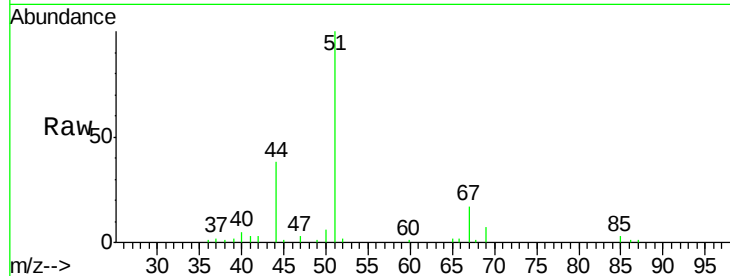
#3
Chlorodifluoromethane
Concen: 0.584 ppbv
RT: 2.96 min Scan# 54
Delta R.T. -0.02 min
Lab File: VL035989.D
Acq: 19 Nov 2020 1:24

Instrument :
MSVOA_L
ClientSampled :
IA4

Tot Ion: 51 Resp: 75361
Ion Ratio Lower Upper
51 100
67 14.5 17.0 25.4#

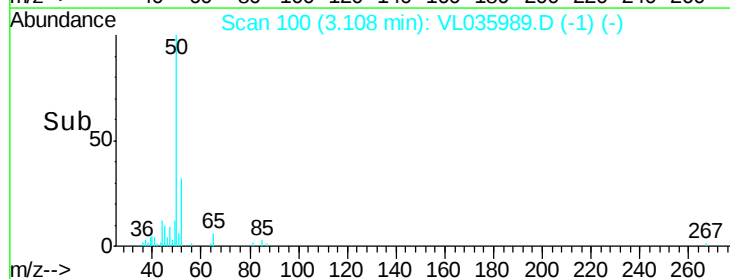
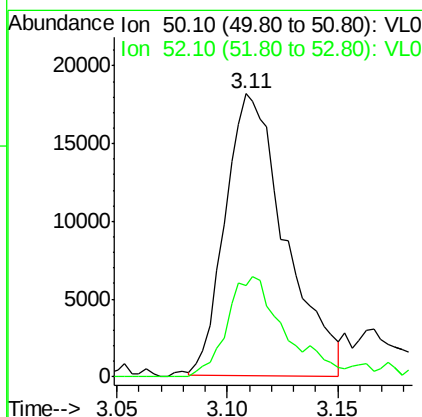
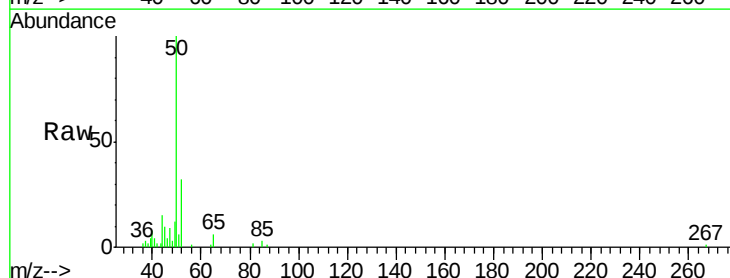
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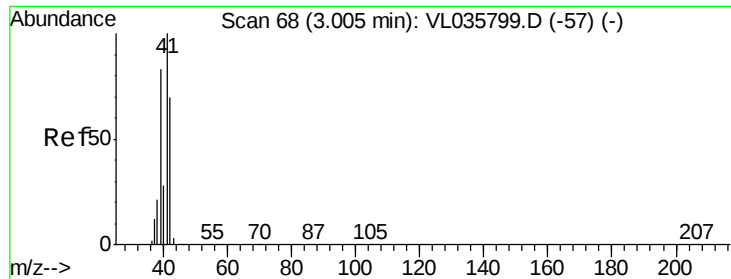
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#4
Chloromethane
Concen: 0.547 ppbv
RT: 3.11 min Scan# 100
Delta R.T. -0.03 min
Lab File: VL035989.D
Acq: 19 Nov 2020 1:24

Tgt Ion: 50 Resp: 34266
Ion Ratio Lower Upper
50 100
52 32.8 27.1 40.7





#9

Propene

Concen: 1.034 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.02 min

Lab File: VL035989.D

Acq: 19 Nov 2020 1:24

Instrument :

MSVOA_L

ClientSampled :

IA4

Tot Ion: 41 Resp: 48830

Ion Ratio Lower Upper

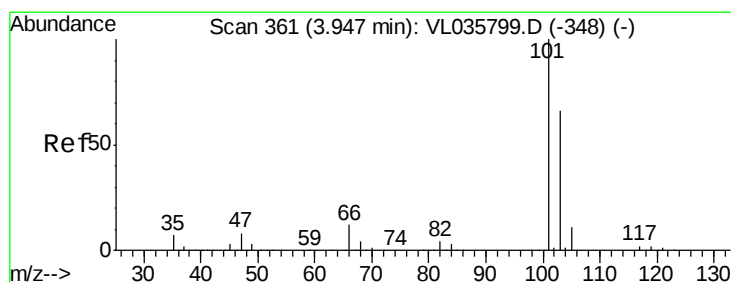
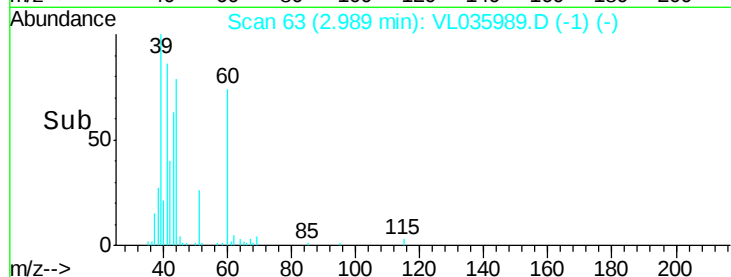
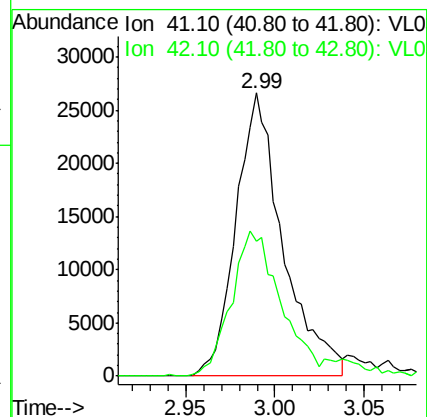
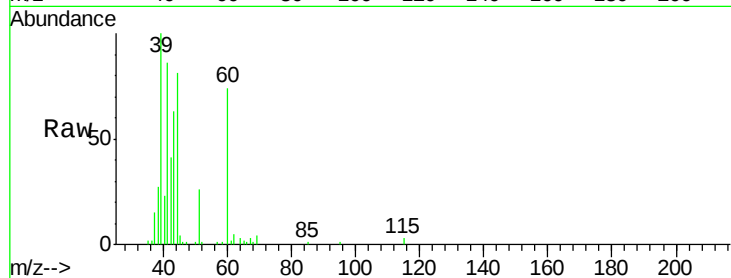
41 100

42 59.5 56.2 84.4

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#11

Trichlorofluoromethane

Concen: 0.291 ppbv

RT: 3.92 min Scan# 352

Delta R.T. -0.03 min

Lab File: VL035989.D

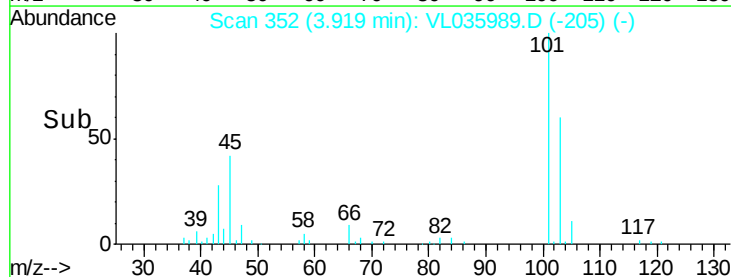
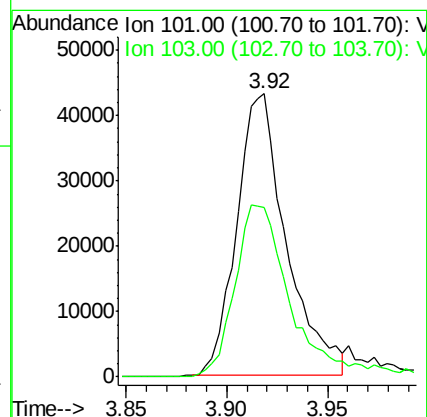
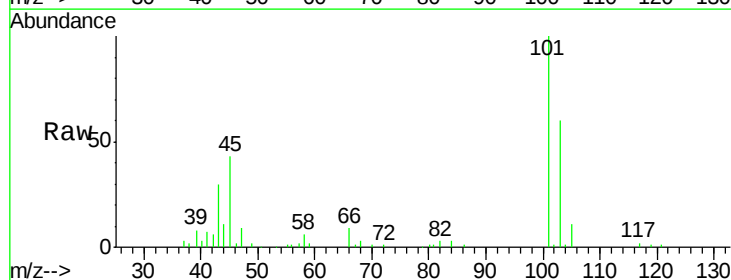
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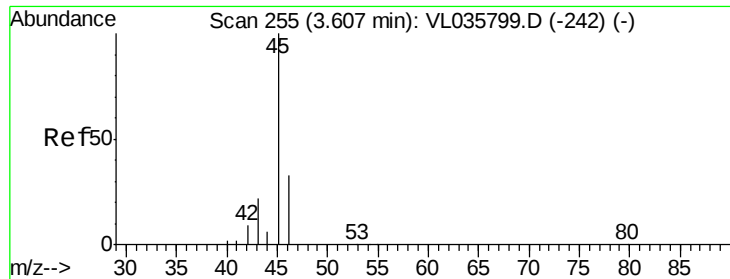
Tgt Ion: 101 Resp: 74142

Ion Ratio Lower Upper

101 100

103 60.4 53.0 79.4





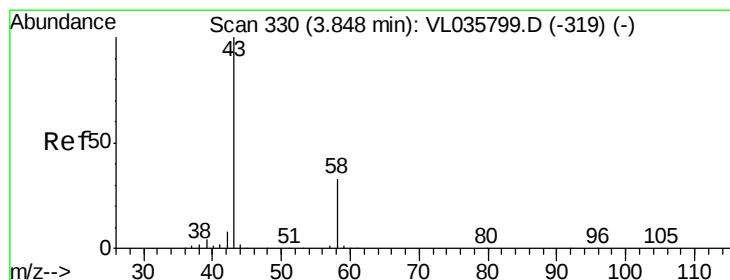
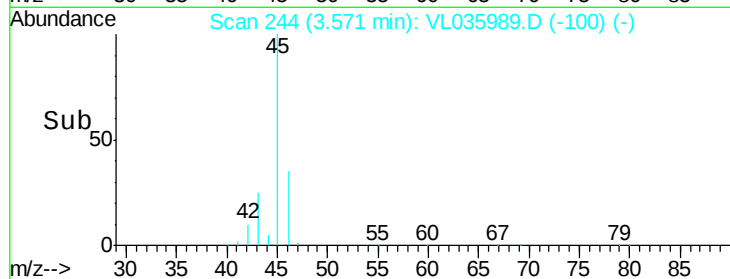
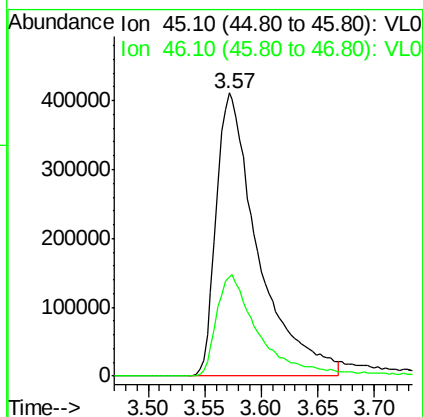
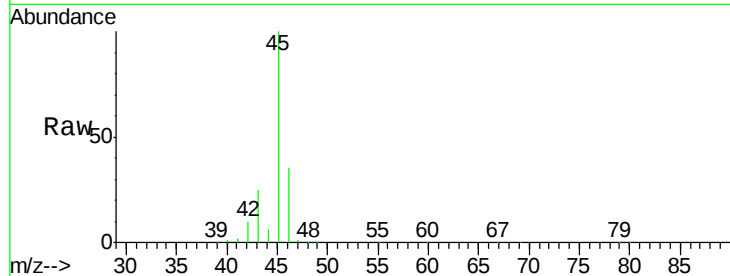
#13
Ethanol
Concen: 103.933 ppbv
RT: 3.57 min Scan# 244
Delta R.T. -0.04 min
Lab File: VL035989.D
Acq: 19 Nov 2020 1:24

Instrument :
MSVOA_L
ClientSampled :
IA4

Tot Ion: 45 Resp: 1064688
Ion Ratio Lower Upper
45 100
46 37.5 16.1 64.5

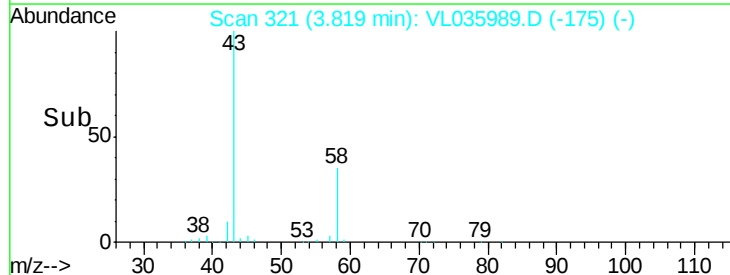
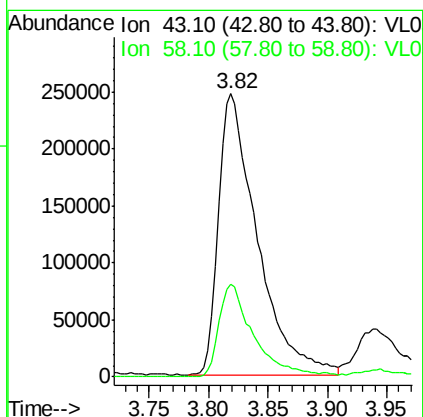
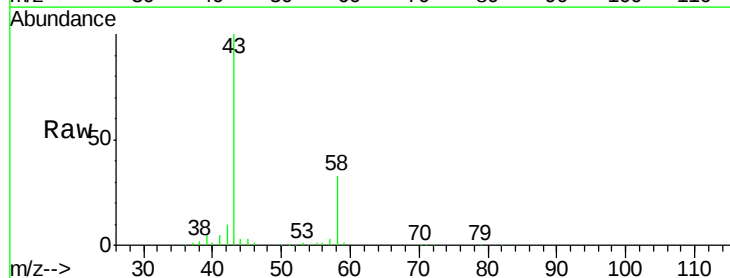
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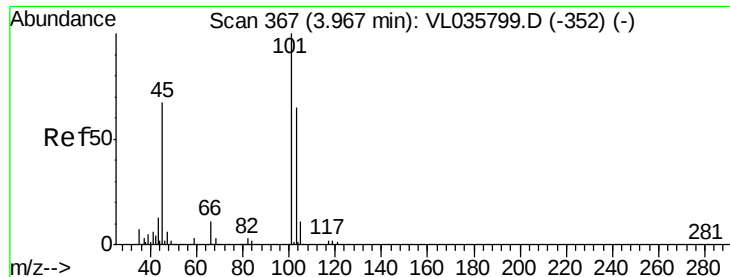
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#15
Acetone
Concen: 4.846 ppbv
RT: 3.82 min Scan# 321
Delta R.T. -0.03 min
Lab File: VL035989.D
Acq: 19 Nov 2020 1:24

Tgt Ion: 43 Resp: 558118
Ion Ratio Lower Upper
43 100
58 29.9 27.5 41.3





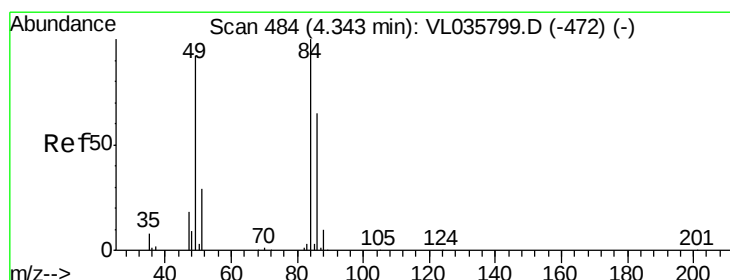
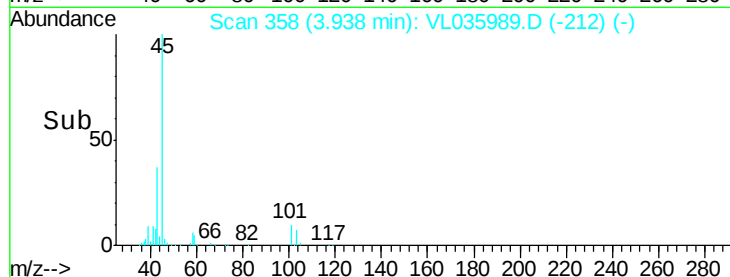
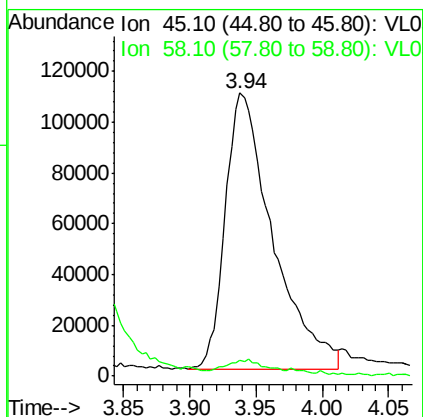
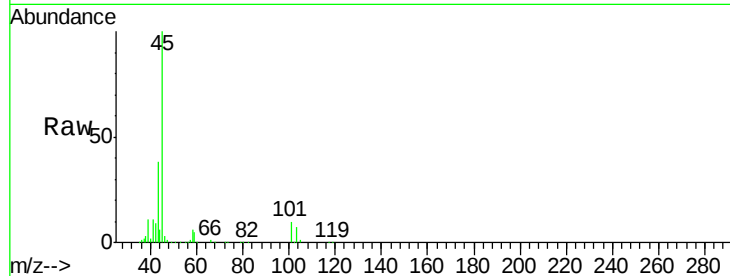
#19
Isopropyl Alcohol
Concen: 3.828 ppbv
RT: 3.94 min Scan# 358
Delta R.T. -0.03 min
Lab File: VL035989.D
Acq: 19 Nov 2020 1:24

Instrument :
MSVOA_L
ClientSampleId :
IA4

Tot Ion: 45 Resp: 270925
Ion Ratio Lower Upper
45 100
58 6.1 2.6 3.8#

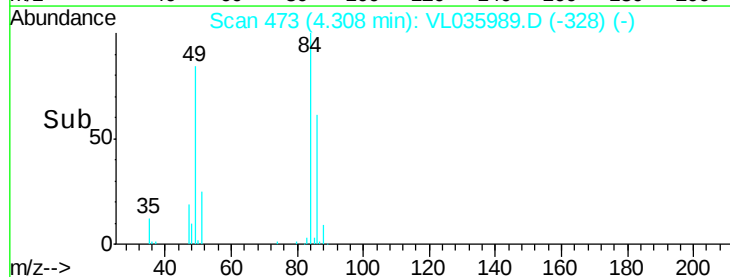
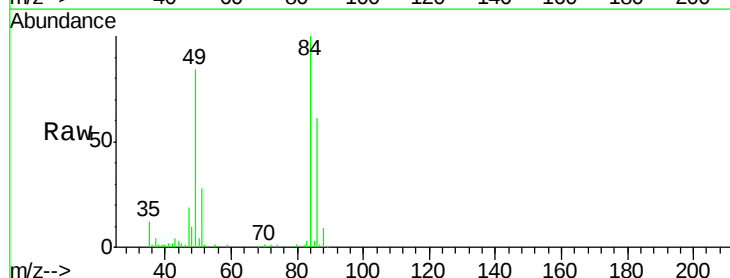
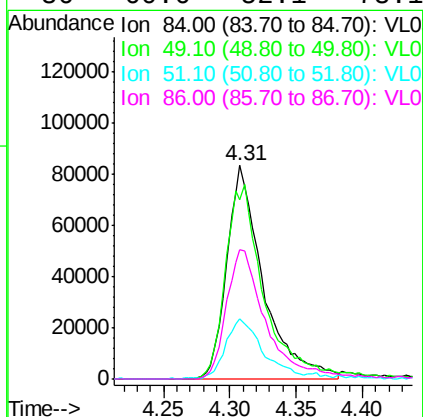
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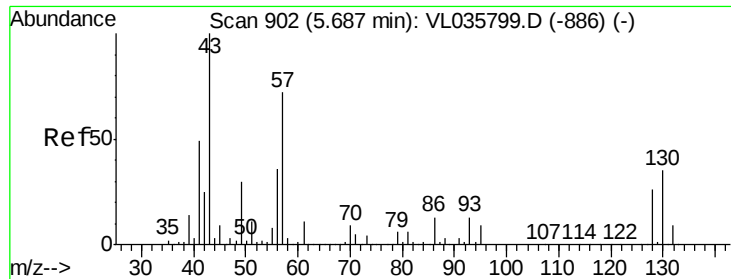
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#20
Methylene Chloride
Concen: 1.966 ppbv
RT: 4.31 min Scan# 473
Delta R.T. -0.04 min
Lab File: VL035989.D
Acq: 19 Nov 2020 1:24

Tgt Ion: 84 Resp: 159399
Ion Ratio Lower Upper
84 100
49 83.9 73.8 110.8
51 27.4 23.0 34.4
86 60.6 52.1 78.1





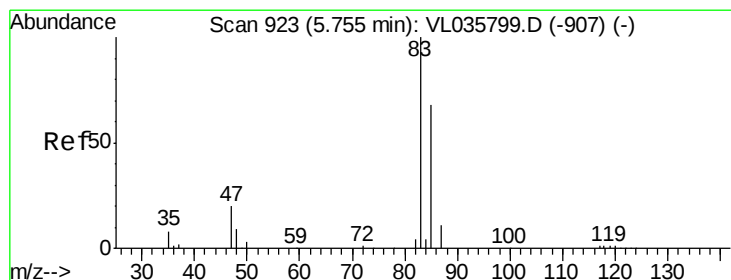
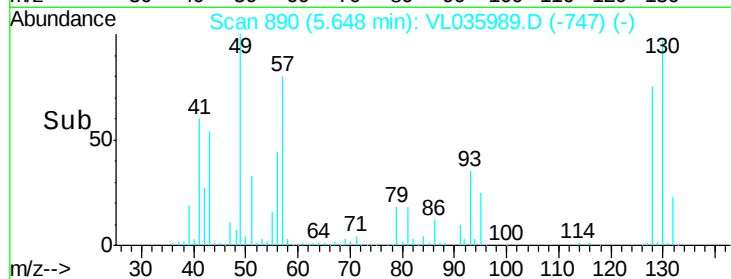
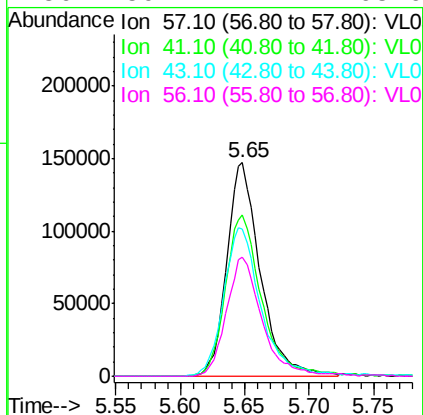
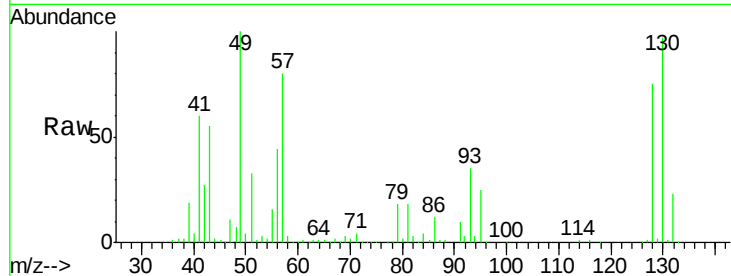
#26
Hexane
Concen: 2.119 ppbv
RT: 5.65 min Scan# 890
Delta R.T. -0.04 min
Lab File: VL035989.D
Acq: 19 Nov 2020 1:24

Instrument :
MSVOA_L
ClientSampled :
IA4

Tot Ion	Ratio	Lower	Upper
57	100		
41	82.3	58.9	88.3
43	77.6	150.2	225.2#
56	59.7	42.4	63.6

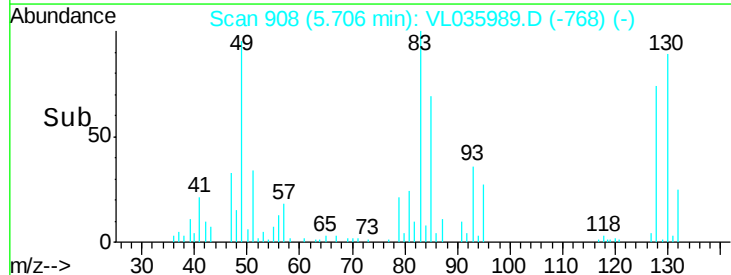
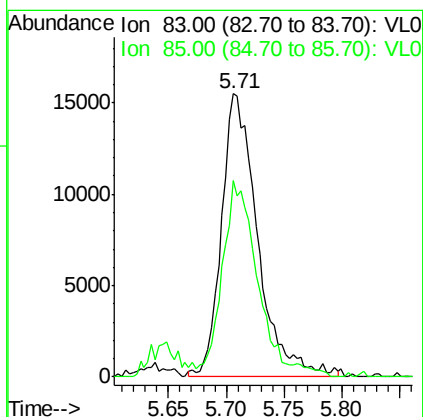
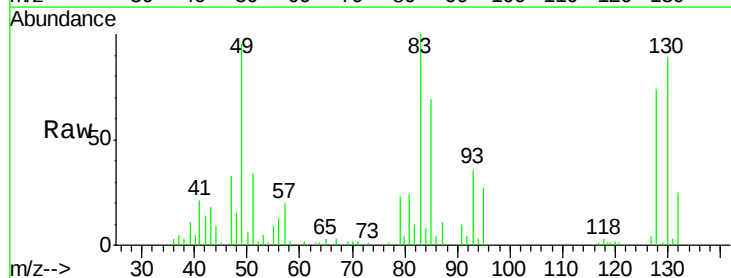
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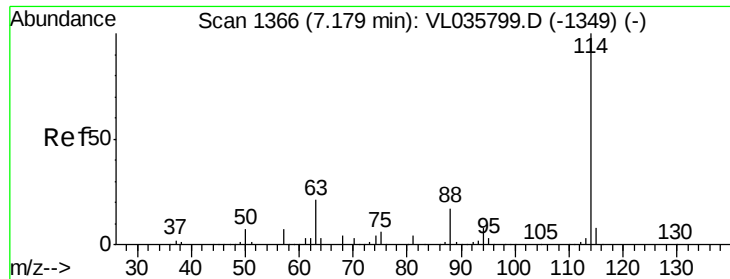
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#29
Chloroform
Concen: 0.137 ppbv m
RT: 5.71 min Scan# 908
Delta R.T. -0.05 min
Lab File: VL035989.D
Acq: 19 Nov 2020 1:24

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.3	54.6	81.8





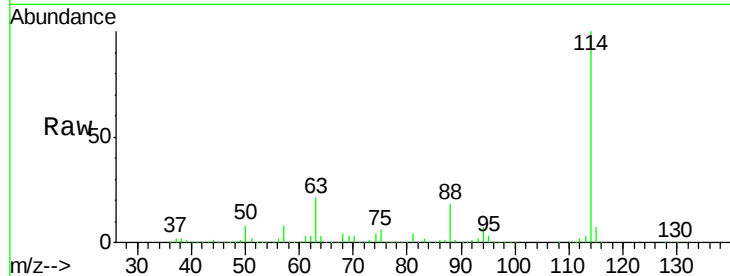
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.13 min Scan# 1351
 Delta R.T. -0.05 min
 Lab File: VL035989.D
 Acq: 19 Nov 2020 1:24

Instrument :
 MSVOA_L
 ClientSampleId :
 IA4

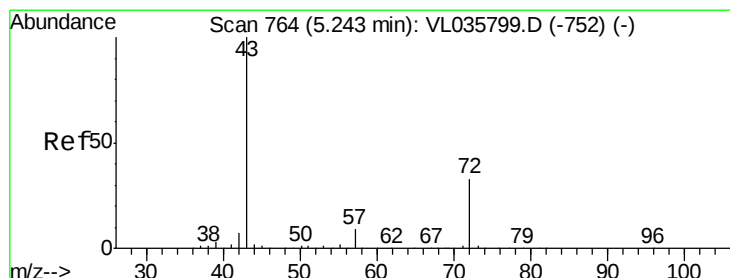
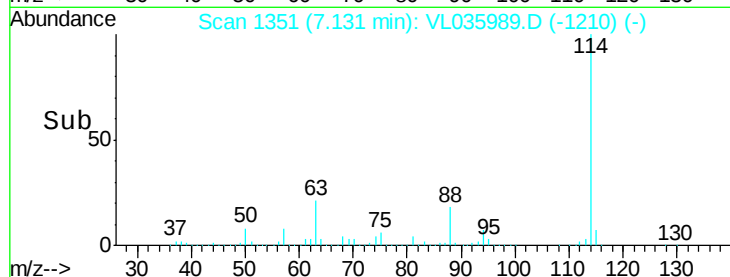
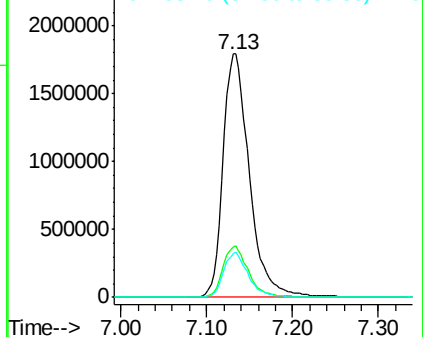
Tot Ion:114 Resp: 3823035
 Ion Ratio Lower Upper
 114 100
 63 20.7 16.1 24.1
 88 17.4 13.7 20.5

Manual Integrations
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 11/20/2020 12:28:20 PM

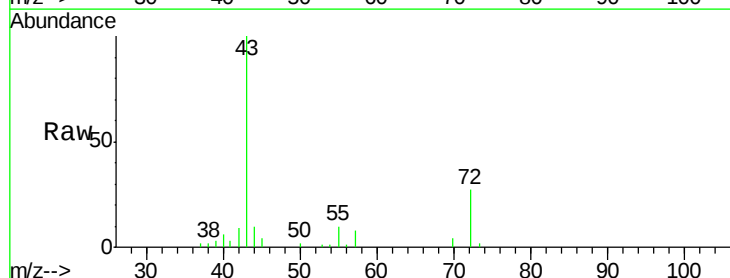


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

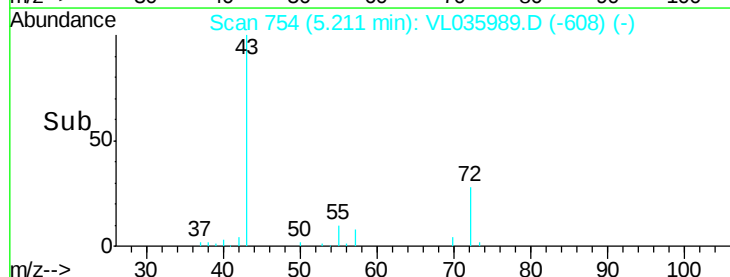
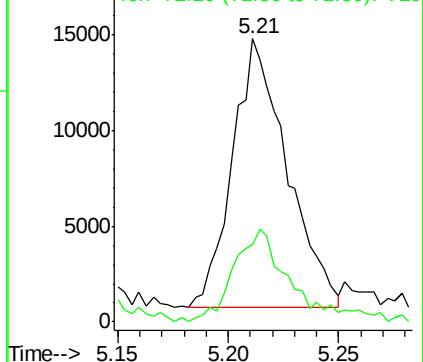


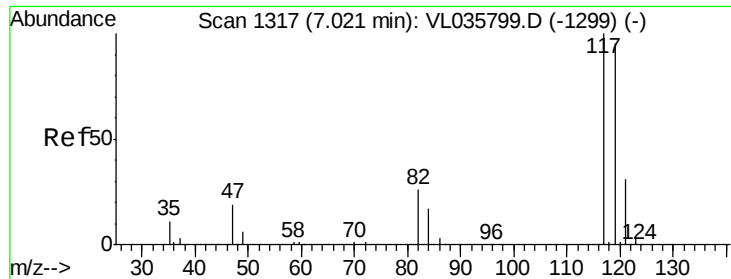
#34
 2-Butanone
 Concen: 0.194 ppbv
 RT: 5.21 min Scan# 754
 Delta R.T. -0.03 min
 Lab File: VL035989.D
 Acq: 19 Nov 2020 1:24

Tgt Ion: 43 Resp: 24105
 Ion Ratio Lower Upper
 43 100
 72 36.9 26.5 39.7



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





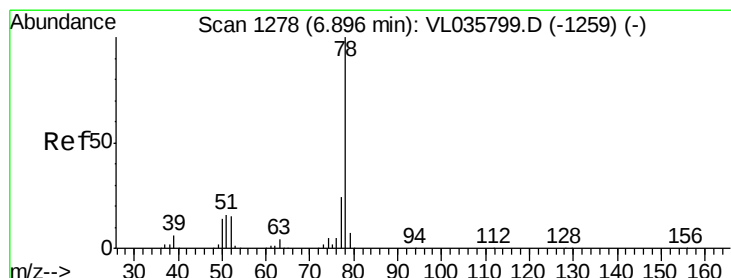
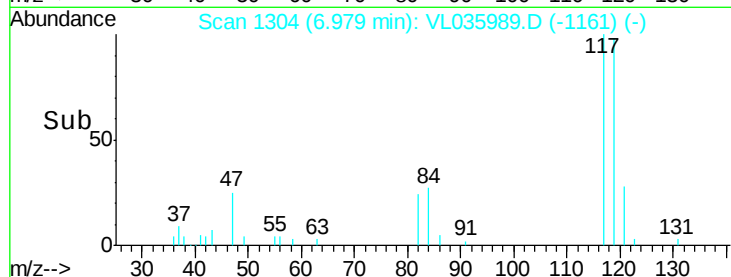
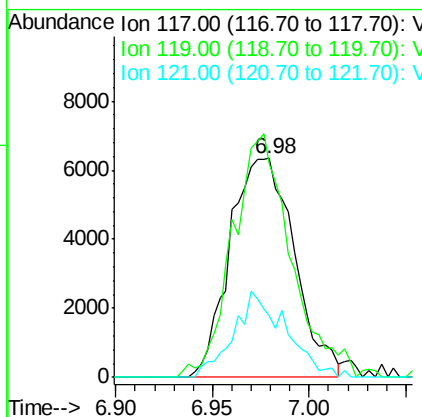
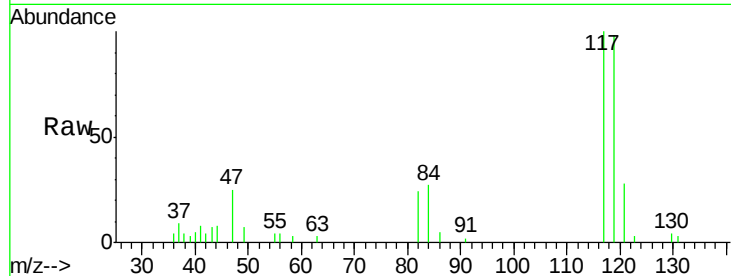
#35
Carbon Tetrachloride
Concen: 0.072 ppbv
RT: 6.98 min Scan# 1304
Delta R.T. -0.04 min
Lab File: VL035989.D
Acq: 19 Nov 2020 1:24

Instrument :
MSVOA_L
ClientSampled :
IA4

Tot Ion	Ratio	Lower	Upper
117	100		
119	92.1	75.6	113.4
121	28.4	25.1	37.7

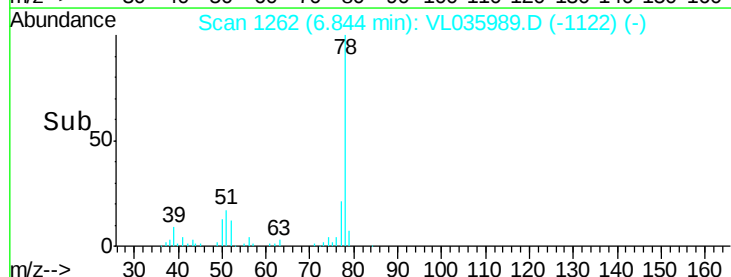
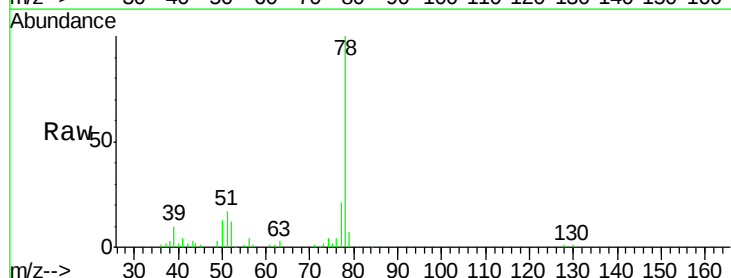
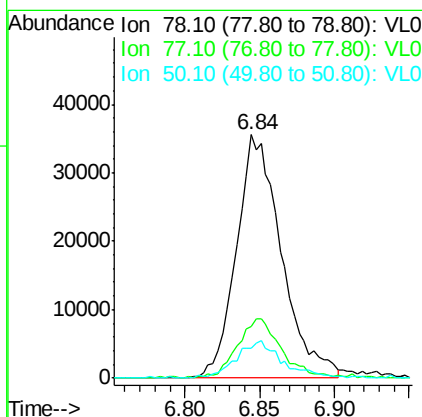
Manual Integrations
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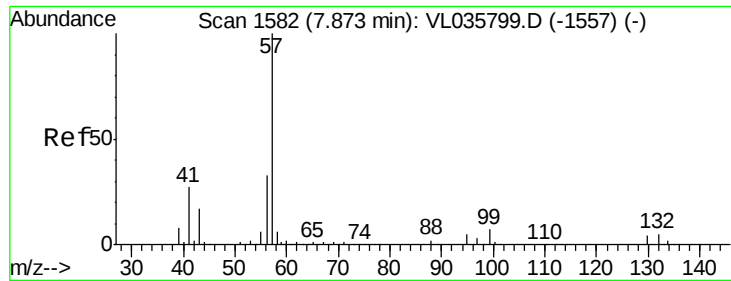
MMDadoda
11/20/2020 12:28:20 PM



#36
Benzene
Concen: 0.263 ppbv
RT: 6.84 min Scan# 1262
Delta R.T. -0.05 min
Lab File: VL035989.D
Acq: 19 Nov 2020 1:24

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.0	19.3	28.9
50	12.5	11.4	17.2





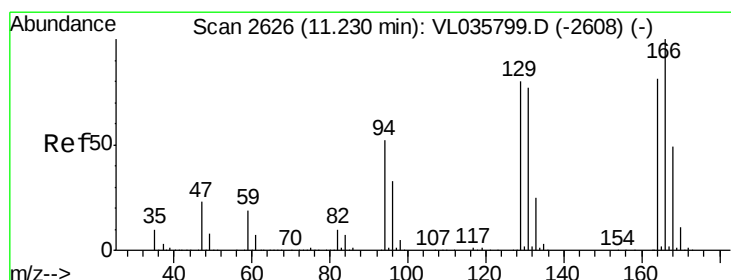
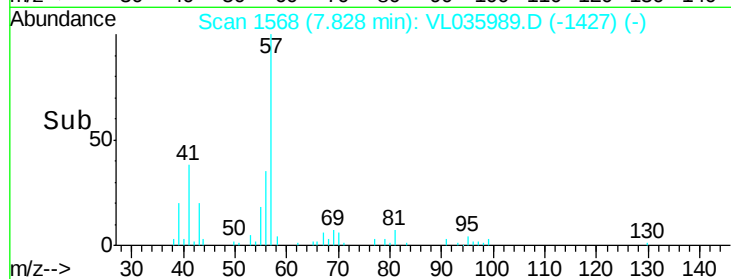
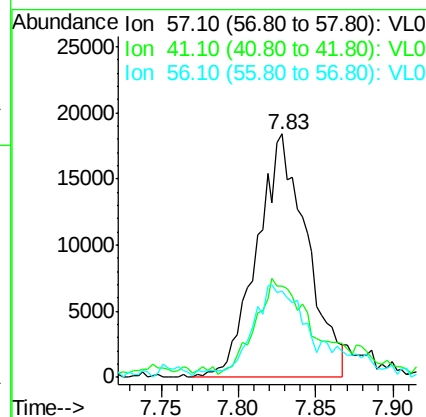
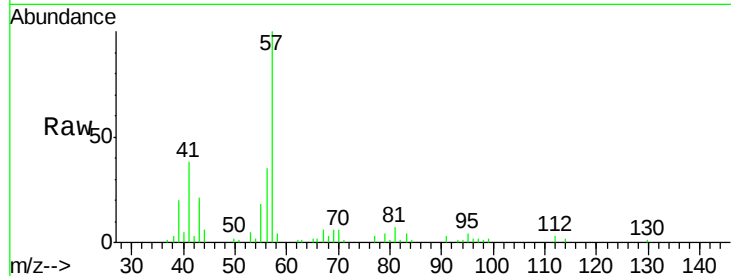
#44
 2,2,4-Trimethylpentane
 Concen: 0.110 ppbv
 RT: 7.83 min Scan# 1568
 Delta R.T. -0.05 min
 Lab File: VL035989.D
 Acq: 19 Nov 2020 1:24

Instrument :
 MSVOA_L
 ClientSampled :
 IA4

Tot Ion	Ratio	Lower	Upper
57	100		
41	49.7	21.0	31.4#
56	50.2	25.4	38.0#

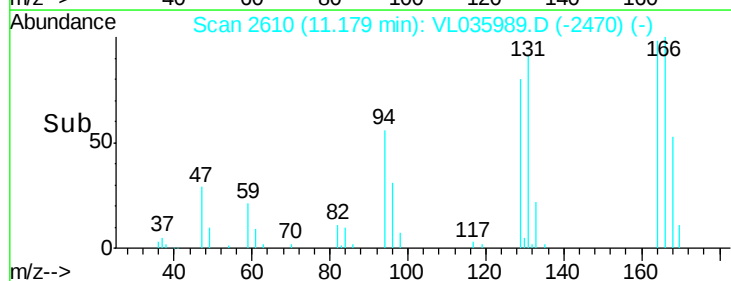
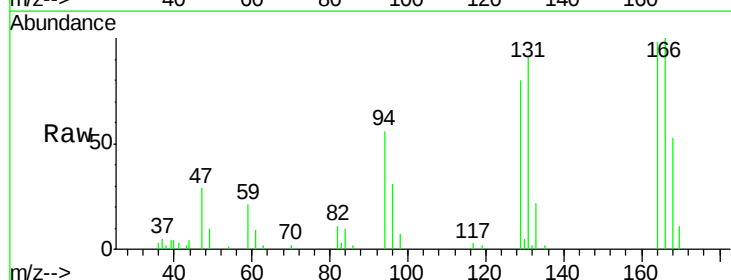
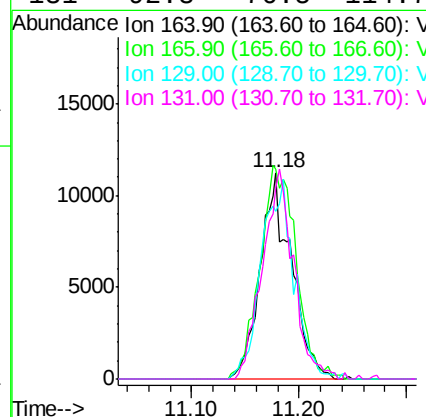
Manual Integrations
 APPROVED

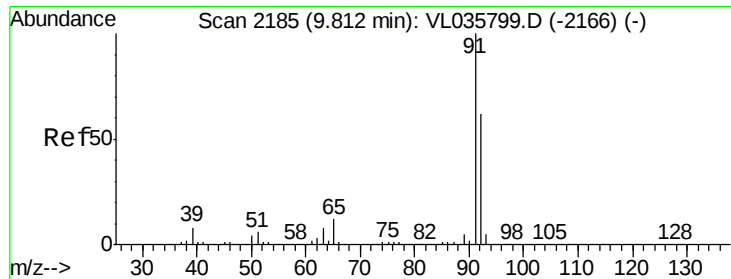
MMDadoda
 11/20/2020 12:28:20 PM



#52
 Tetrachloroethene
 Concen: 0.169 ppbv m
 RT: 11.18 min Scan# 2610
 Delta R.T. -0.05 min
 Lab File: VL035989.D
 Acq: 19 Nov 2020 1:24

Tgt Ion	Ratio	Lower	Upper
164	100		
166	102.1	99.3	148.9
129	81.6	79.3	118.9
131	92.8	76.5	114.7





#53

Toluene

Concen: 2.745 ppbv

RT: 9.76 min Scan# 2169

Delta R.T. -0.05 min

Lab File: VL035989.D

Acq: 19 Nov 2020 1:24

Instrument :

MSVOA_L

ClientSampled :

IA4

Tot Ion: 91 Resp: 941443

Ion Ratio Lower Upper

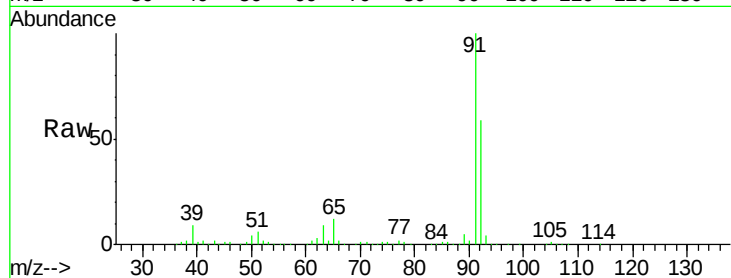
91 100

92 60.0 49.8 74.6

Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.76

400000

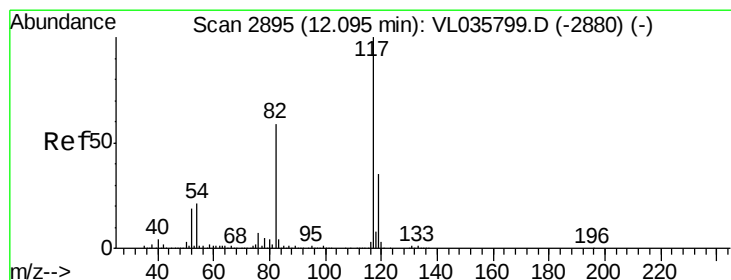
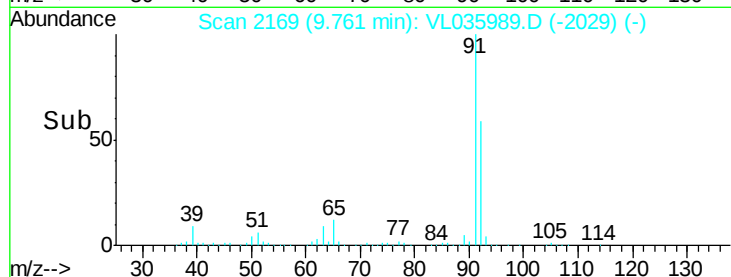
300000

200000

100000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.04 min Scan# 2878

Delta R.T. -0.05 min

Lab File: VL035989.D

Acq: 19 Nov 2020 1:24

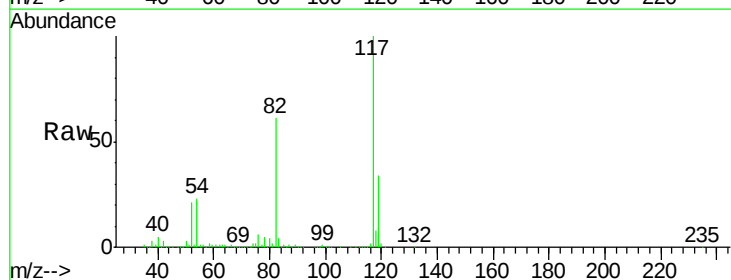
Tgt Ion: 117 Resp: 3514895

Ion Ratio Lower Upper

117 100

82 61.7 50.6 76.0

119 34.2 52.6 78.8#



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

12.04

2000000

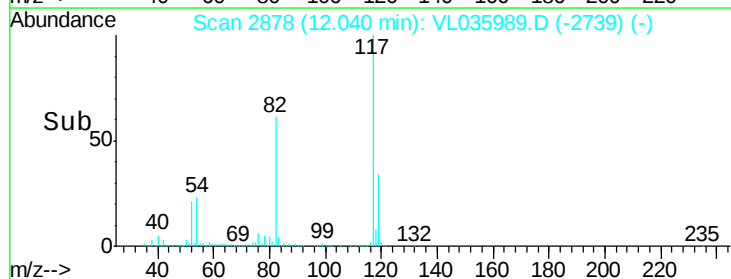
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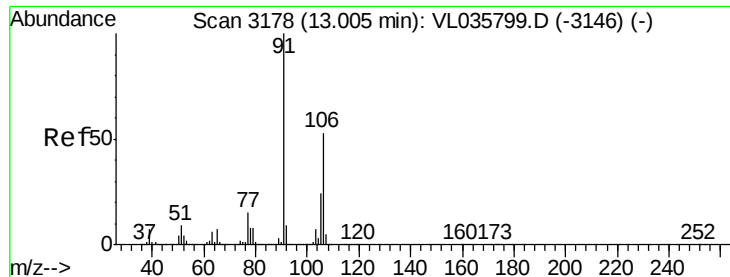
1000000

500000

0

Time-->





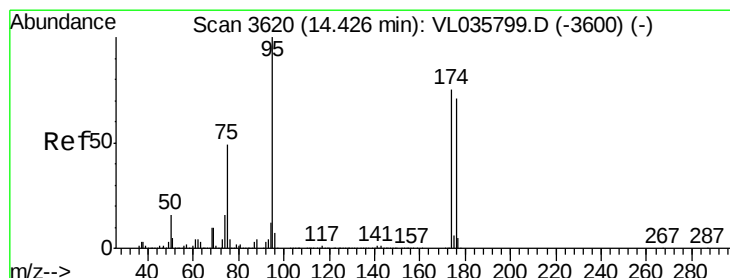
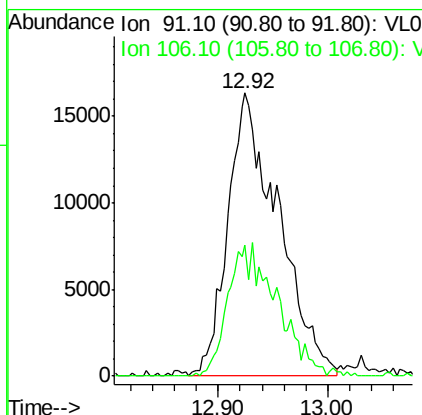
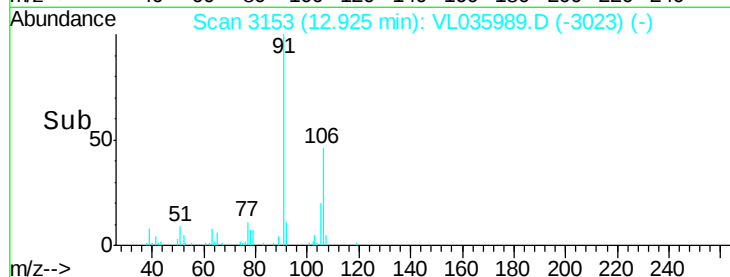
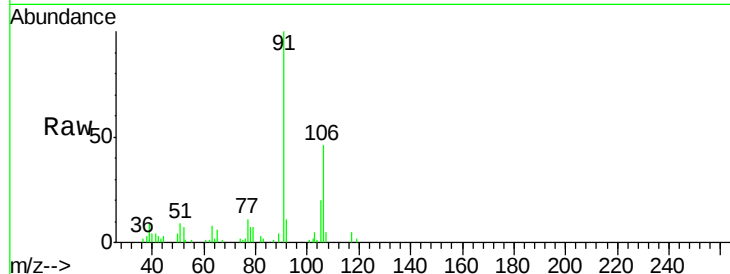
#59
m/p-Xylene
Concen: 0.144 ppbv m
RT: 12.92 min Scan# 3153
Delta R.T. -0.08 min
Lab File: VL035989.D
Acq: 19 Nov 2020 1:24

Instrument :
MSVOA_L
ClientSampled :
IA4

Tot Ion: 91 Resp: 52224
Ion Ratio Lower Upper
91 100
106 0.0 39.5 59.3#

Manual Integrations
APPROVED

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11/20/2020 12:28:20 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.594 ppbv
RT: 14.37 min Scan# 3604
Delta R.T. -0.05 min
Lab File: VL035989.D
Acq: 19 Nov 2020 1:24

Tgt Ion: 95 Resp: 2645494
Ion Ratio Lower Upper
95 100
174 70.3 59.8 89.6
175 4.9 4.3 6.5

