

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL072920\
 Data File : VL035257.D
 Acq On : 29 Jul 2020 22:11
 Operator : SY/AP
 Sample : L3463-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
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 7/30/2020 6:11:29 PM

Quant Time: Jul 30 12:03:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul 29 2020
 QLast Update : Wed Jul 29 07:14:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1153131	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2750819	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2575677	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.45	95	2111832	10.26	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	48235	0.350	ppbv	98
3) Chlorodifluoromethane	2.94	51	57061m	0.447	ppbv	
4) Chloromethane	3.10	50	41334	0.575	ppbv	96
9) Propene	2.97	41	42234m	0.949	ppbv	
11) Trichlorofluoromethane	3.92	101	54067	0.292	ppbv	84
13) Ethanol	3.58	45	2119763	117.054	ppbv	96
15) Acetone	3.81	43	3856161	25.070	ppbv	98
19) Isopropyl Alcohol	3.94	45	8898734	87.721	ppbv #	97
20) Methylene Chloride	4.32	84	640957	9.154	ppbv	99
26) Hexane	5.68	57	251502	2.321	ppbv #	46
29) Chloroform	5.74	83	34237m	0.188	ppbv	
34) 2-Butanone	5.23	43	110456	0.789	ppbv	97
35) Carbon Tetrachloride	7.02	117	12243m	0.066	ppbv	
36) Benzene	6.90	78	36439m	0.191	ppbv	
44) 2,2,4-Trimethylpentane	7.87	57	78147m	0.232	ppbv	
52) Tetrachloroethene	11.25	164	35421m	0.486	ppbv	
53) Toluene	9.83	91	322891	1.589	ppbv	94
59) m/p-Xylene	13.01	91	41043m	0.162	ppbv	
74) 1,2,4-Trimethylbenzene	16.81	105	35052m	0.108	ppbv	

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

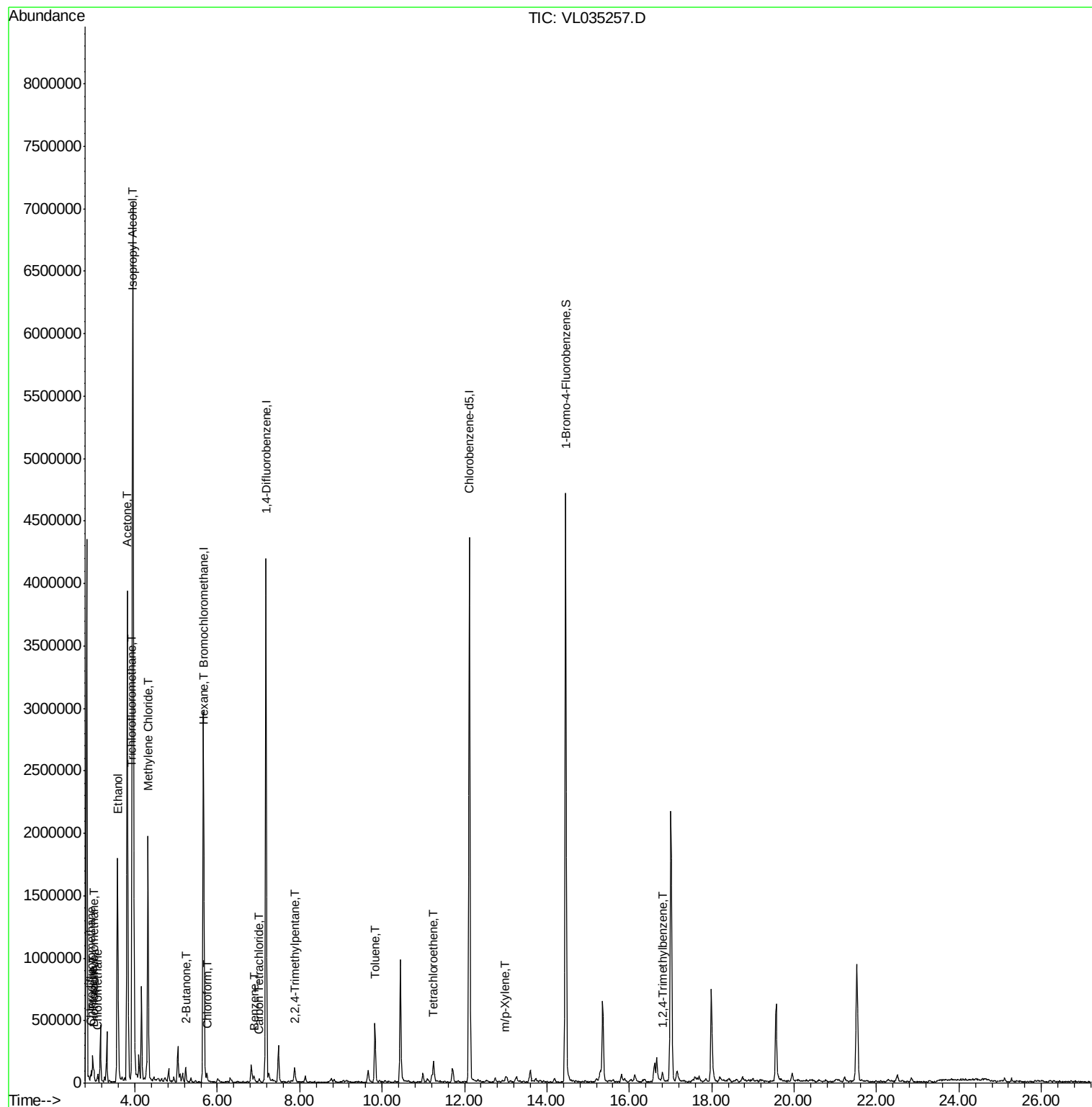
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL072920\
Data File : VL035257.D
Acq On : 29 Jul 2020 22:11
Operator : SY/AP
Sample : L3463-03
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

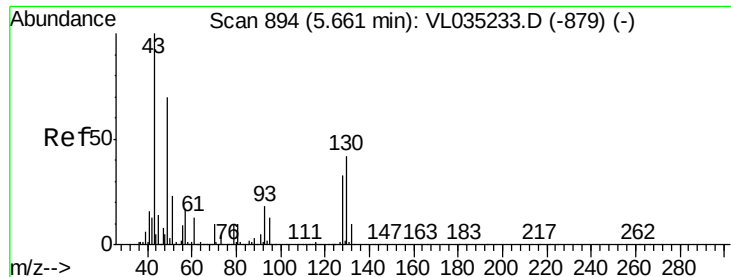
Instrument :
MSVOA_L
ClientSampleId :
IA1

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Quant Time: Jul 30 12:03:33 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL072920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jul
QLast Update : Wed Jul 29 07:14:29 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: VL035257.D

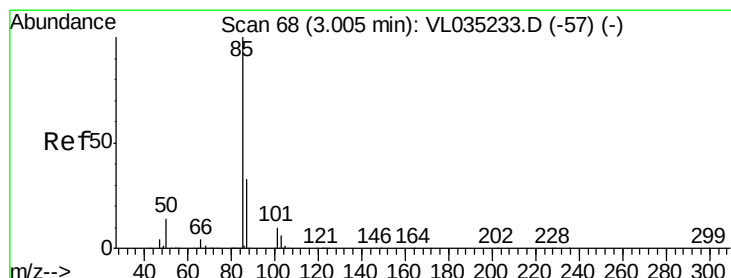
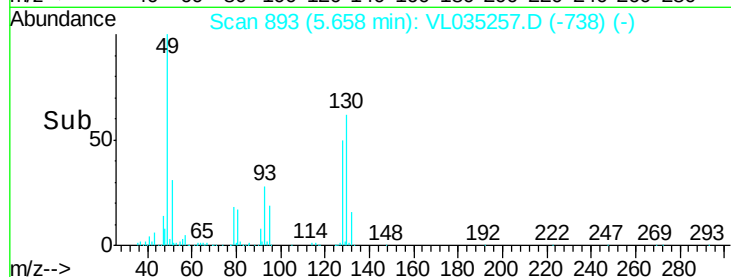
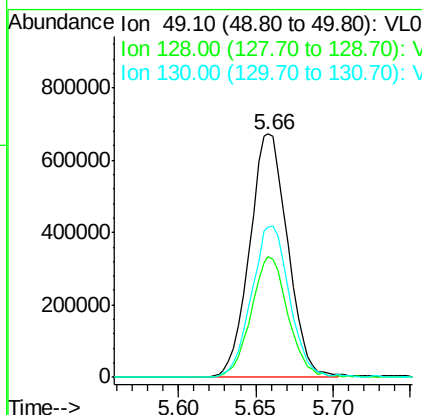
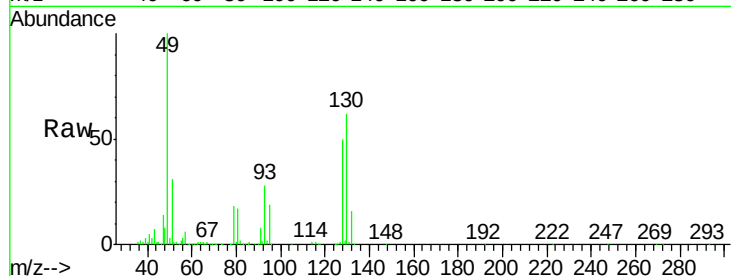
Acq: 29 Jul 2020 22:11

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	49	Resp	1153131
Ion	Ratio	Lower	Upper
49	100		
128	48.6	24.0	72.0
130	62.6	30.7	92.1

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.350 ppbv

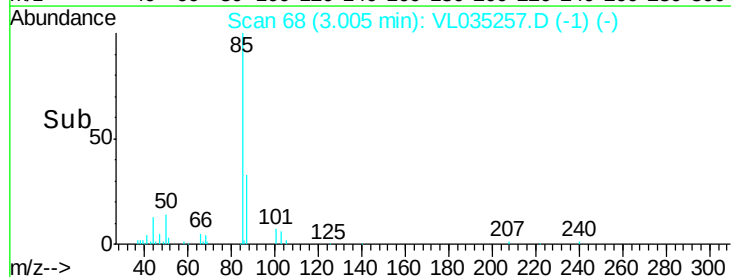
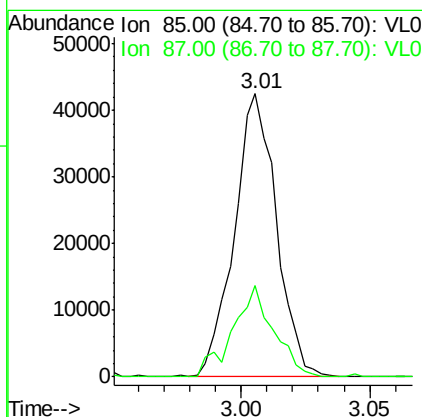
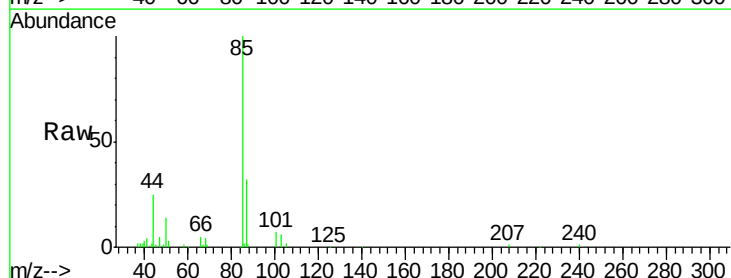
RT: 3.01 min Scan# 68

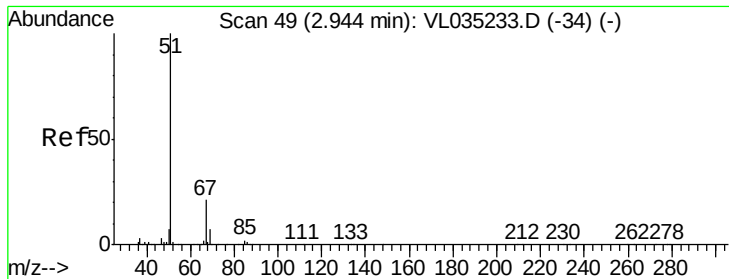
Delta R.T. 0.00 min

Lab File: VL035257.D

Acq: 29 Jul 2020 22:11

Tgt Ion	85	Resp	48235
Ion	Ratio	Lower	Upper
85	100		
87	32.4	26.7	40.1





#3

Chlorodifluoromethane

Concen: 0.447 ppbv

RT: 2.94 min Scan# 49

Delta R.T. 0.00 min

Lab File: VL035257.D

Acq: 29 Jul 2020 22:11

Instrument :

MSVOA_L

ClientSampled :

IA1

Tot Ion: 51 Resp: 57061

Ion Ratio Lower Upper

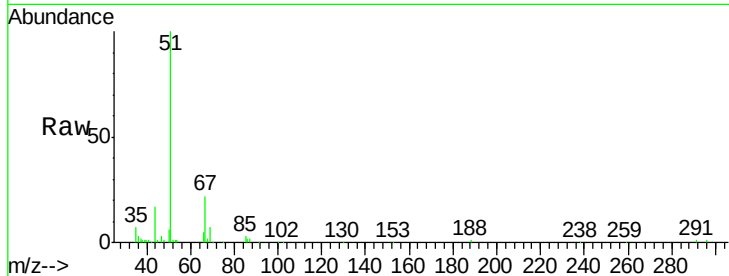
51 100

67 21.6 16.6 25.0

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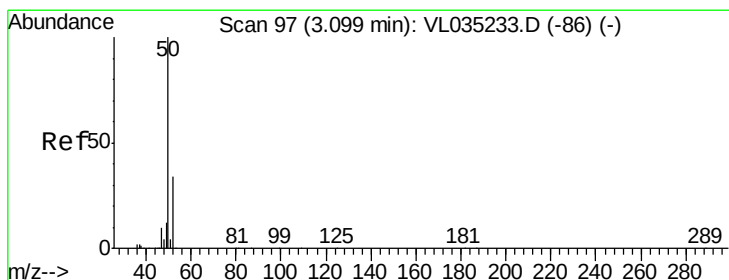
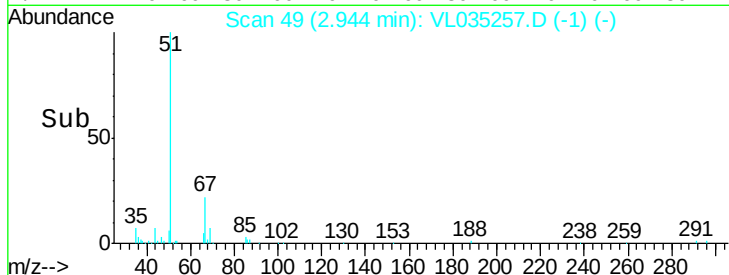
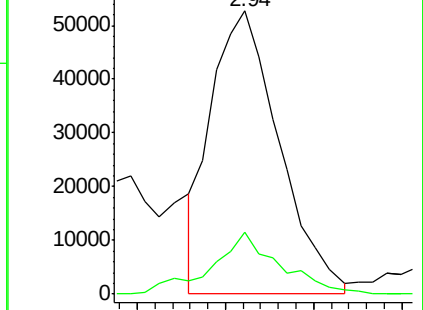
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.575 ppbv

RT: 3.10 min Scan# 96

Delta R.T. -0.00 min

Lab File: VL035257.D

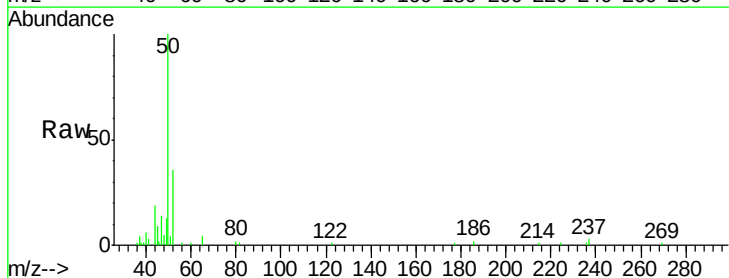
Acq: 29 Jul 2020 22:11

Tgt Ion: 50 Resp: 41334

Ion Ratio Lower Upper

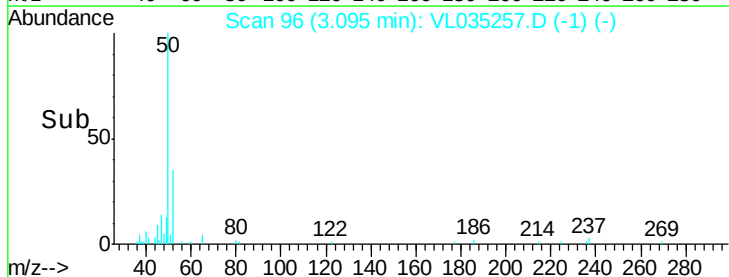
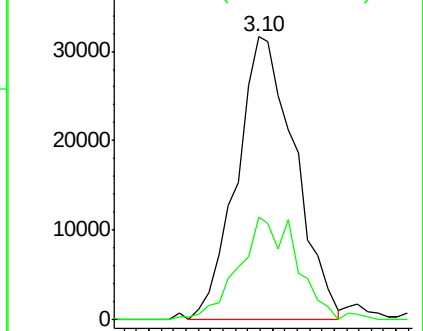
50 100

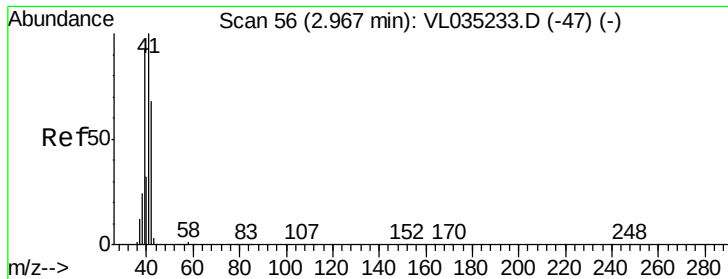
52 36.3 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





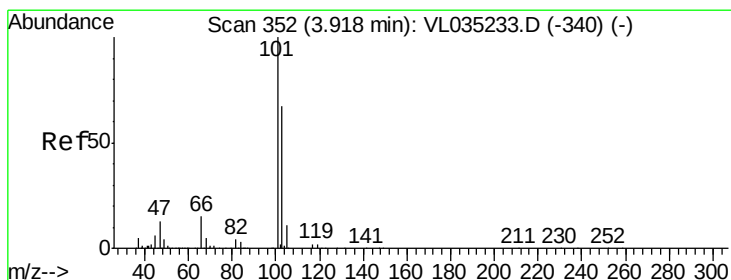
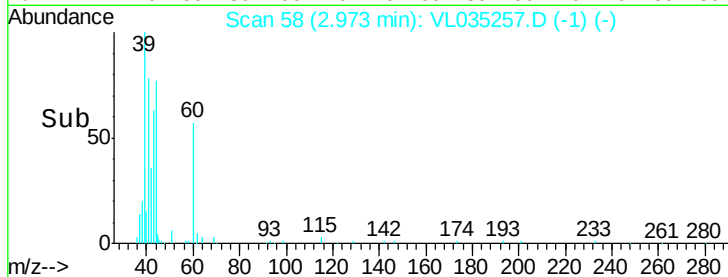
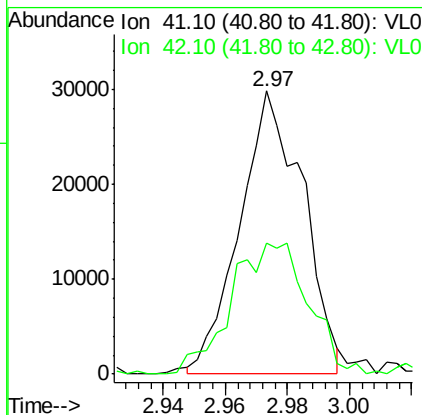
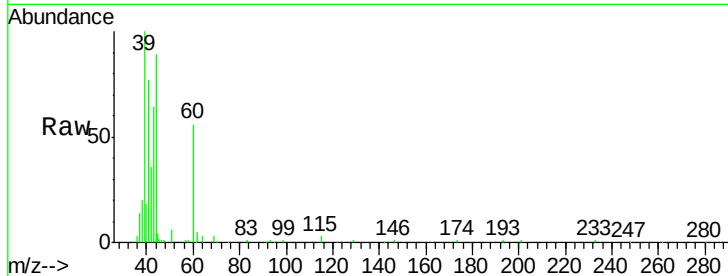
#9
 Propene
 Concen: 0.949 ppbv m
 RT: 2.97 min Scan# 58
 Delta R.T. 0.01 min
 Lab File: VL035257.D
 Acq: 29 Jul 2020 22:11

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tot Ion: 41 Resp: 42234
 Ion Ratio Lower Upper
 41 100
 42 59.0 55.0 82.6

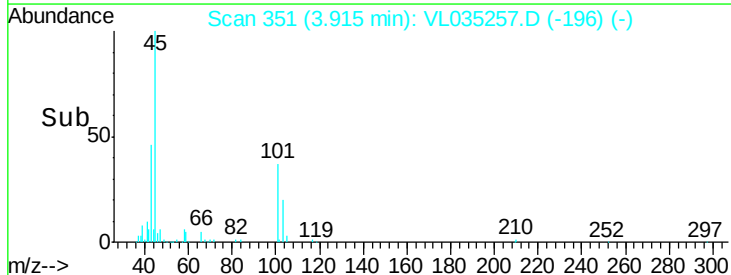
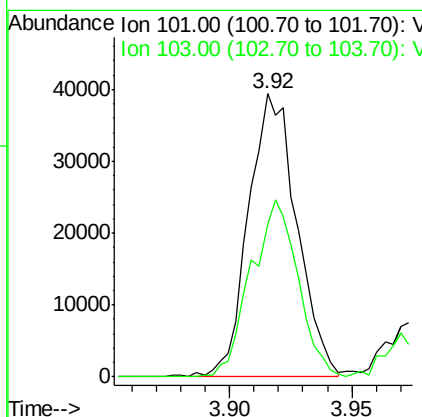
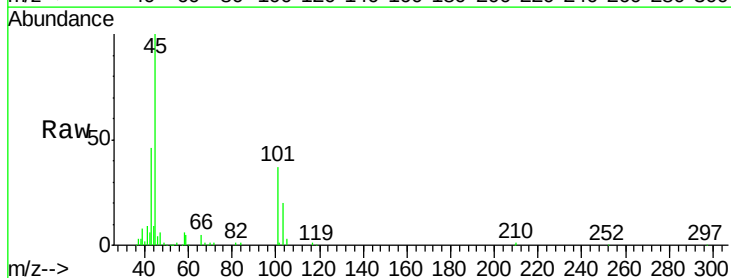
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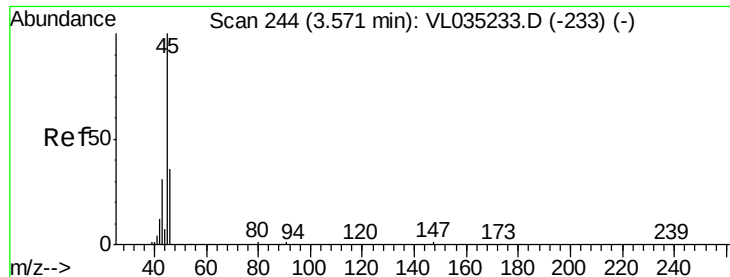
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#11
 Trichlorofluoromethane
 Concen: 0.292 ppbv
 RT: 3.92 min Scan# 351
 Delta R.T. -0.00 min
 Lab File: VL035257.D
 Acq: 29 Jul 2020 22:11

Tgt Ion: 101 Resp: 54067
 Ion Ratio Lower Upper
 101 100
 103 54.1 53.4 80.0





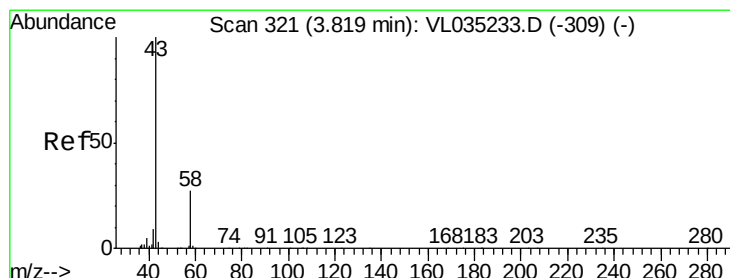
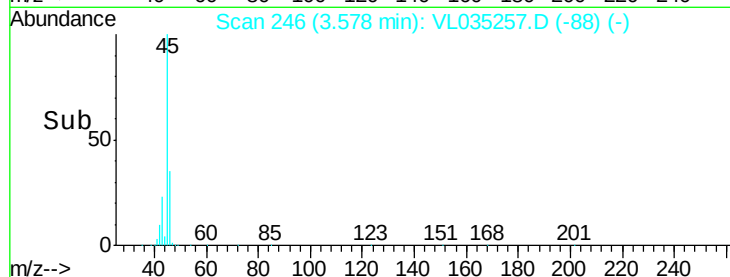
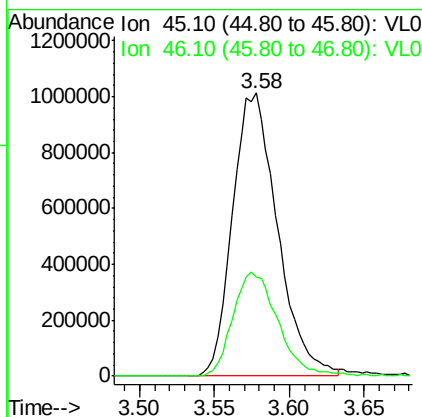
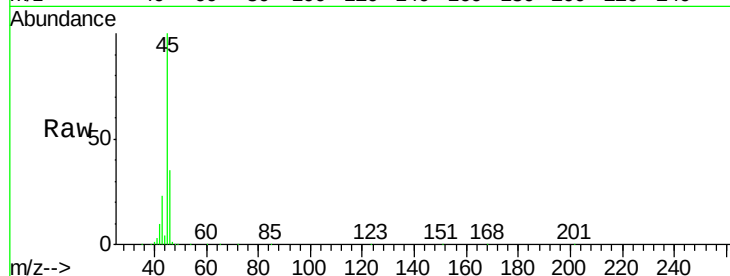
#13
Ethanol
Concen: 117.054 ppbv
RT: 3.58 min Scan# 246
Delta R.T. 0.01 min
Lab File: VL035257.D
Acq: 29 Jul 2020 22:11

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion: 45 Resp: 2119763
Ion Ratio Lower Upper
45 100
46 37.2 15.8 63.4

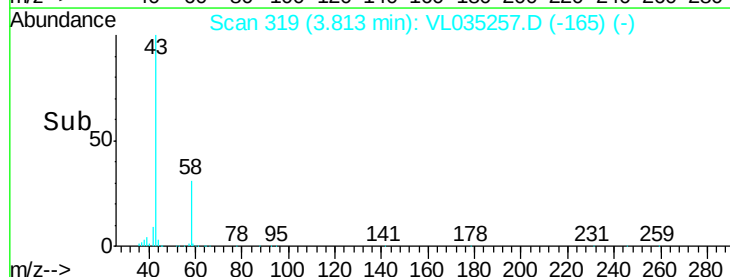
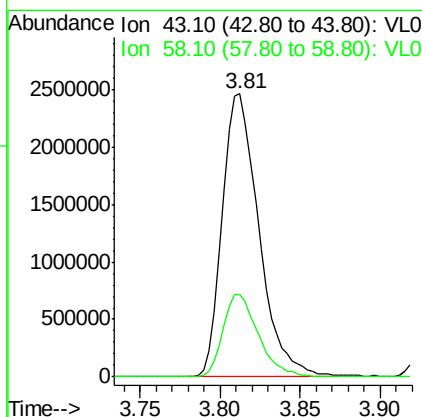
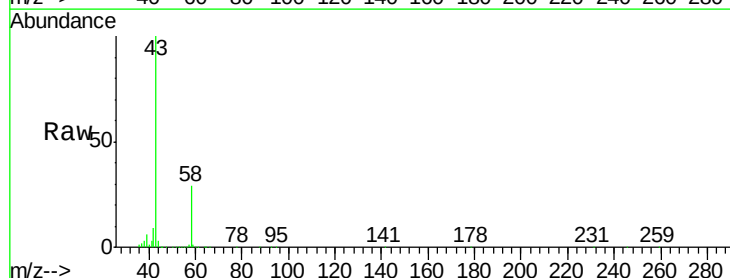
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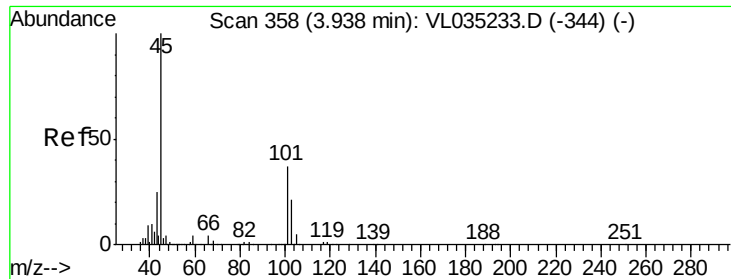
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#15
Acetone
Concen: 25.070 ppbv
RT: 3.81 min Scan# 319
Delta R.T. -0.01 min
Lab File: VL035257.D
Acq: 29 Jul 2020 22:11

Tgt Ion: 43 Resp: 3856161
Ion Ratio Lower Upper
43 100
58 28.5 21.8 32.6





#19

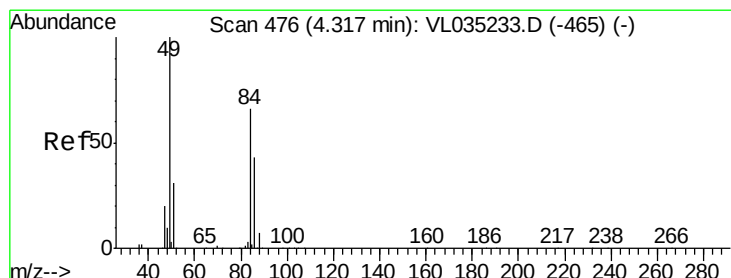
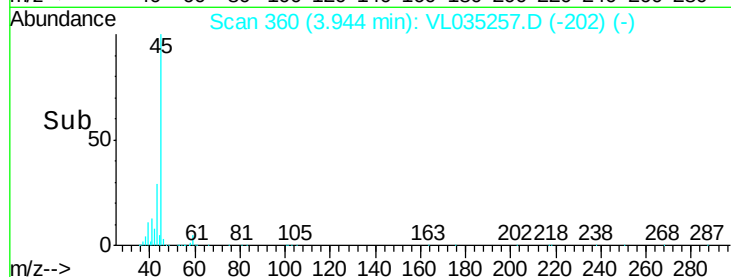
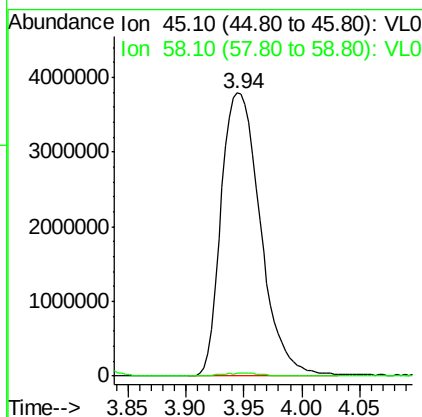
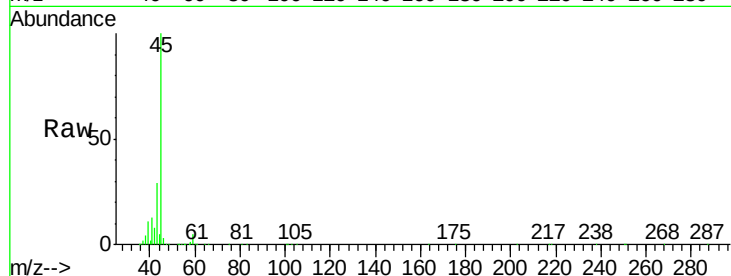
Isopropyl Alcohol
 Concen: 87.721 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. 0.01 min
 Lab File: VL035257.D
 Acq: 29 Jul 2020 22:11

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tot Ion: 45 Resp: 8898734
 Ion Ratio Lower Upper
 45 100
 58 1.3 1.9 2.9#

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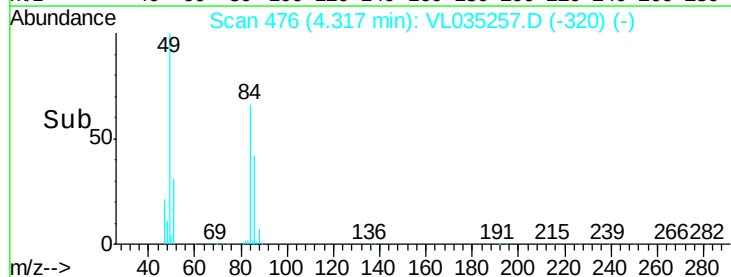
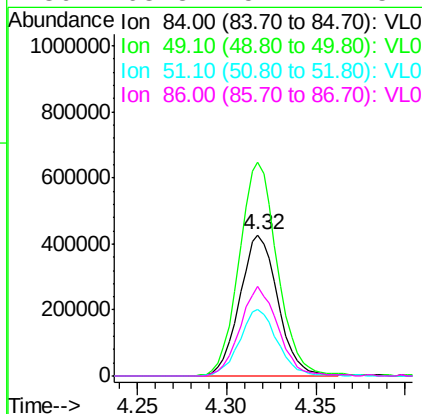
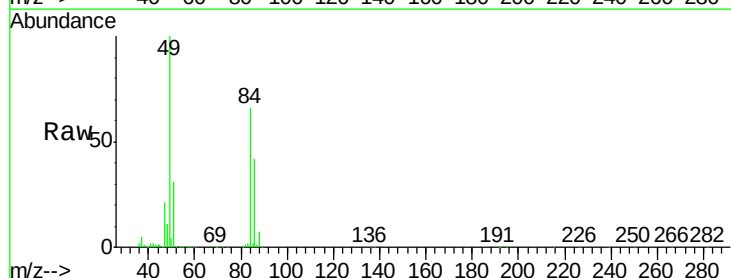
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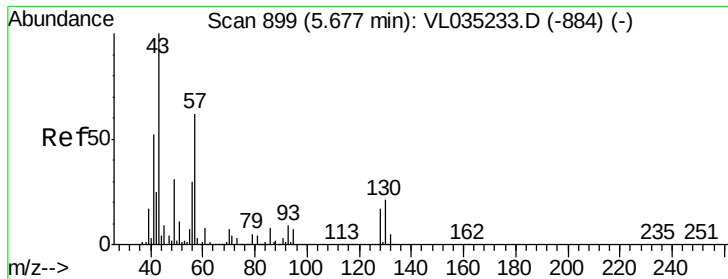


#20

Methylene Chloride
 Concen: 9.154 ppbv
 RT: 4.32 min Scan# 476
 Delta R.T. 0.00 min
 Lab File: VL035257.D
 Acq: 29 Jul 2020 22:11

Tgt Ion: 84 Resp: 640957
 Ion Ratio Lower Upper
 84 100
 49 151.1 121.0 181.4
 51 47.3 37.7 56.5
 86 63.3 52.2 78.4





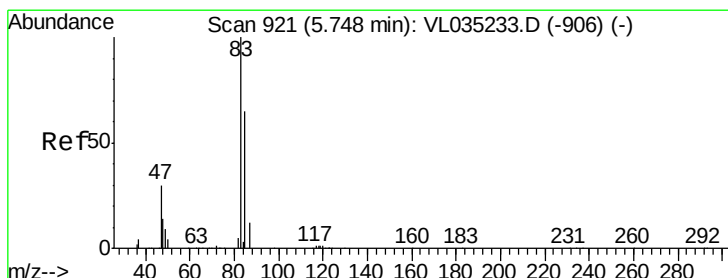
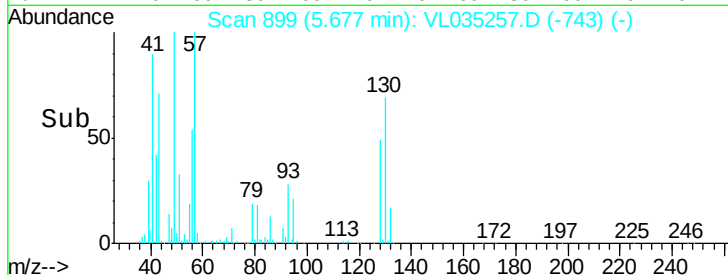
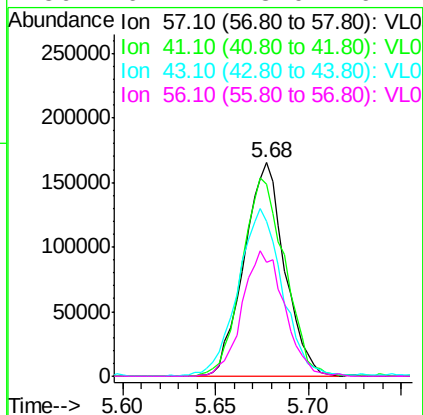
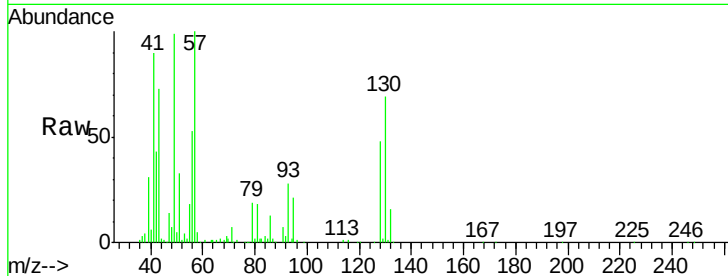
#26
Hexane
Concen: 2.321 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL035257.D
Acq: 29 Jul 2020 22:11

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	57	Resp	251502
Ion Ratio	Lower	Upper	
57	100		
41	98.9	73.9	110.9
43	86.0	177.6	266.4#
56	61.2	43.0	64.4

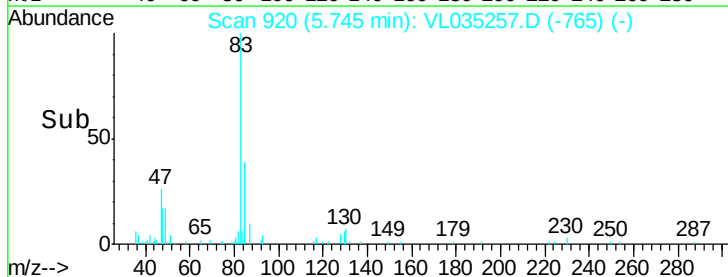
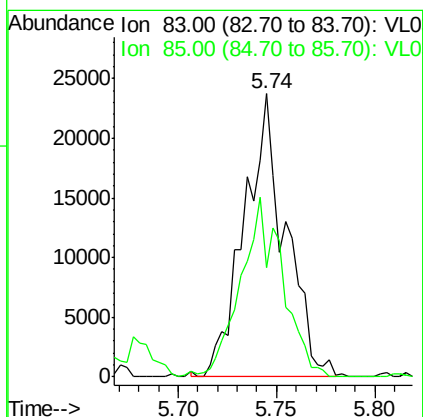
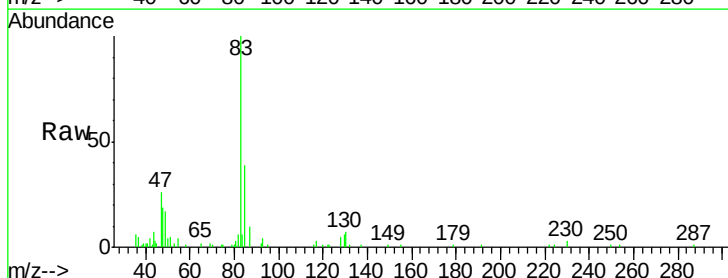
Manual Integrations
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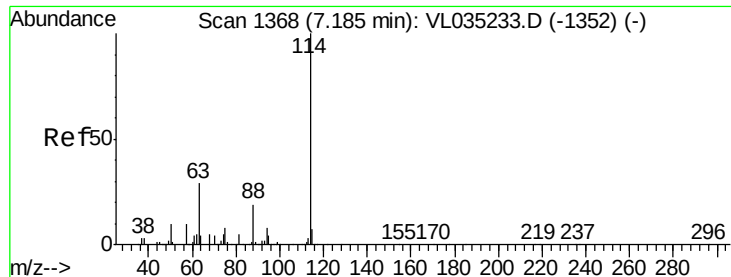
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#29
Chloroform
Concen: 0.188 ppbv m
RT: 5.74 min Scan# 920
Delta R.T. -0.00 min
Lab File: VL035257.D
Acq: 29 Jul 2020 22:11

Tgt Ion	83	Resp	34237
Ion Ratio	Lower	Upper	
83	100		
85	38.6	51.7	77.5#





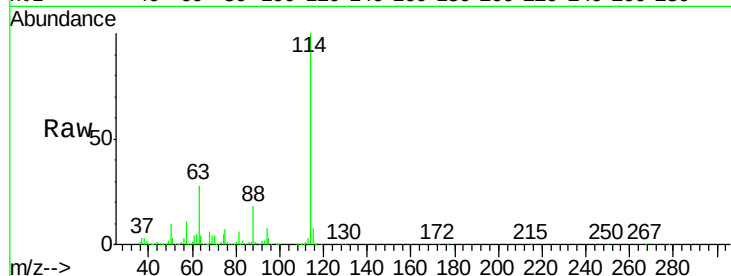
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.01 min
 Lab File: VL035257.D
 Acq: 29 Jul 2020 22:11

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

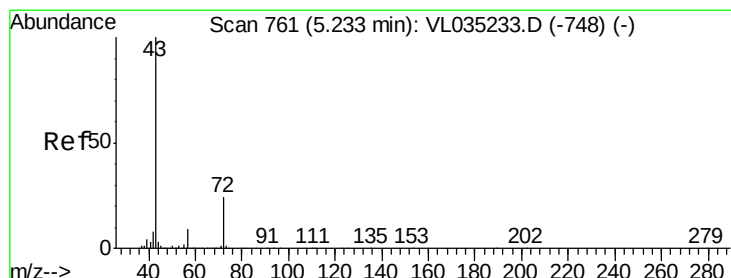
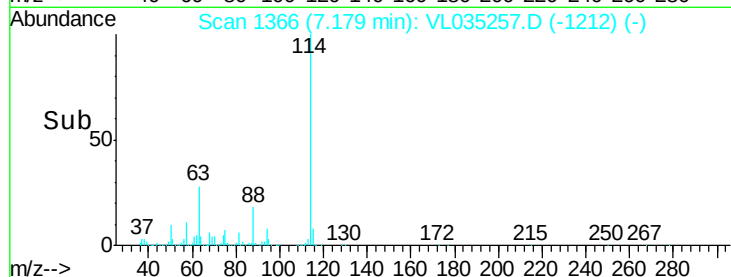
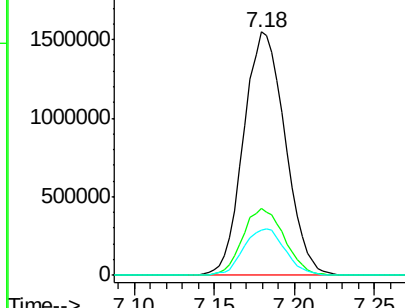
Tot Ion	Ratio	Lower	Upper
114	100		
63	27.4	22.2	33.2
88	19.2	15.4	23.0

Manual Integrations
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 7/30/2020 6:11:29 PM

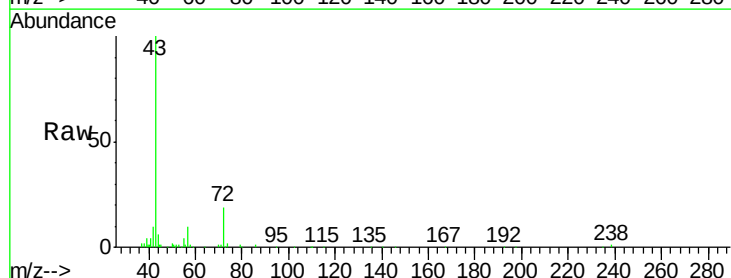


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

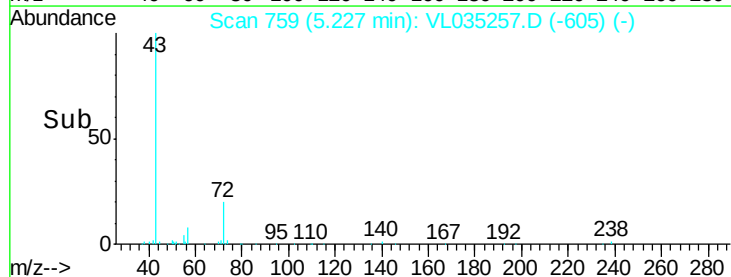
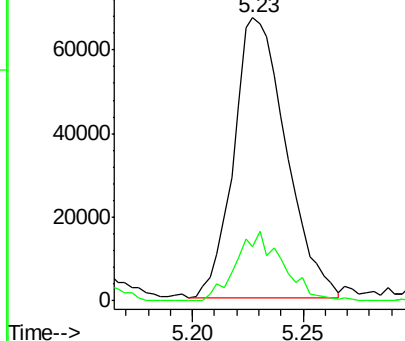


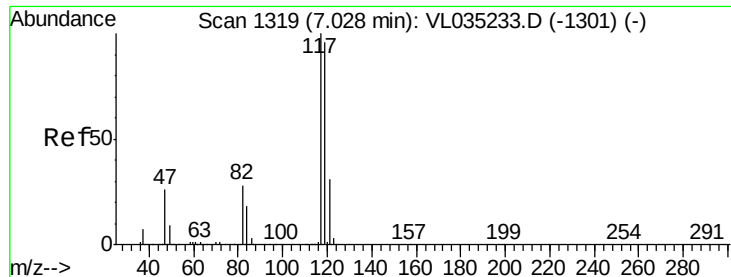
#34
 2-Butanone
 Concen: 0.789 ppbv
 RT: 5.23 min Scan# 759
 Delta R.T. -0.01 min
 Lab File: VL035257.D
 Acq: 29 Jul 2020 22:11

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.4	19.2	28.8



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





#35

Carbon Tetrachloride

Concen: 0.066 ppbv m

RT: 7.02 min Scan# 1318

Delta R.T. -0.00 min

Lab File: VL035257.D

Acq: 29 Jul 2020 22:11

Instrument :

MSVOA_L

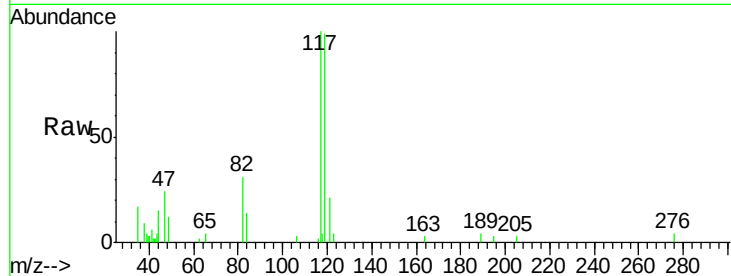
ClientSampled :

IA1

Tot Ion:	117	Resp:	12243
Ion Ratio	Lower	Upper	
117	100		
119	98.7	76.8	115.2
121	21.2	24.5	36.7#

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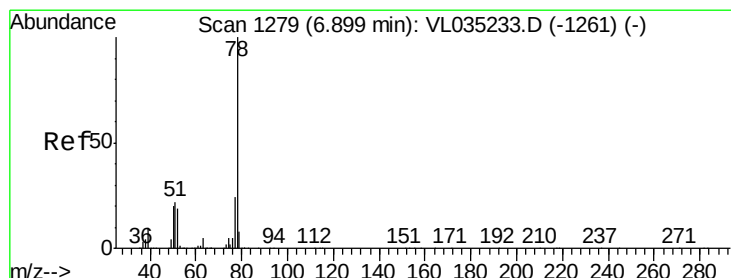
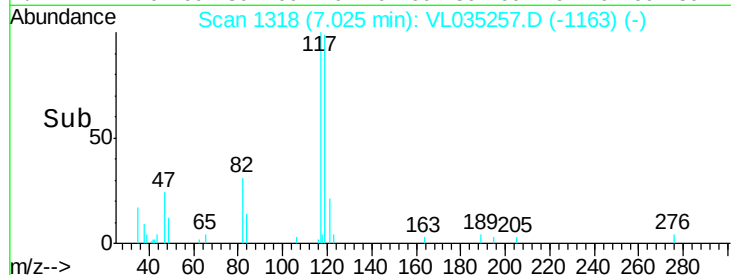
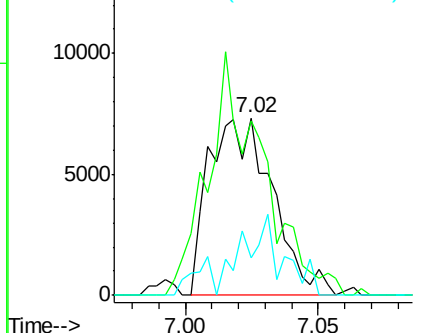
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.191 ppbv m

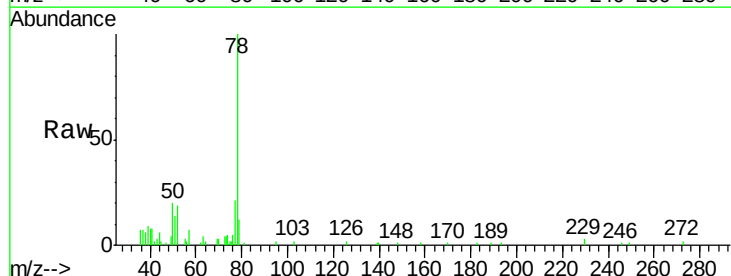
RT: 6.90 min Scan# 1278

Delta R.T. -0.00 min

Lab File: VL035257.D

Acq: 29 Jul 2020 22:11

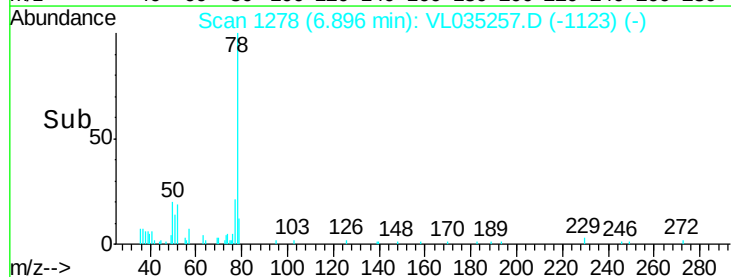
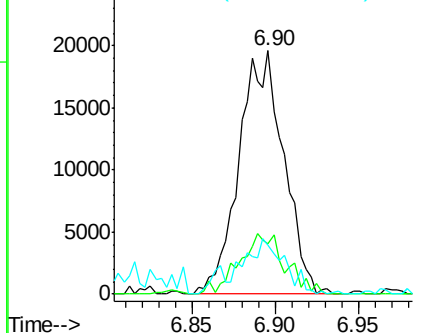
Tgt Ion:	78	Resp:	36439
Ion Ratio	Lower	Upper	
78	100		
77	20.9	18.9	28.3
50	20.4	16.1	24.1

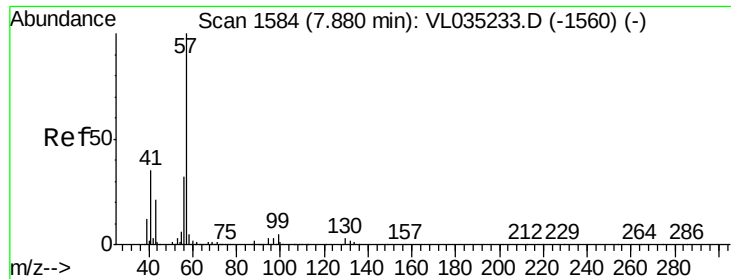


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





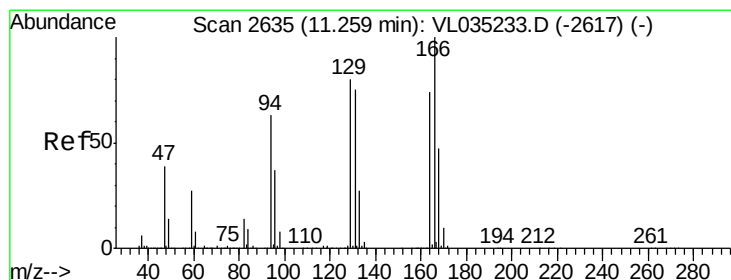
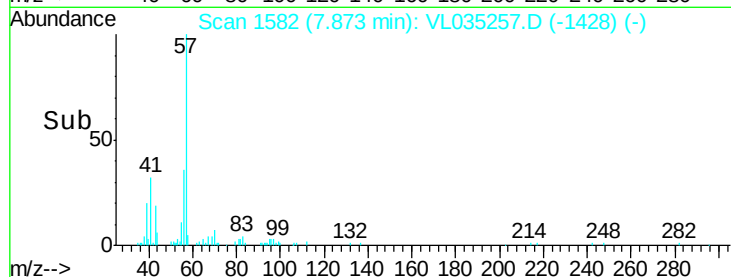
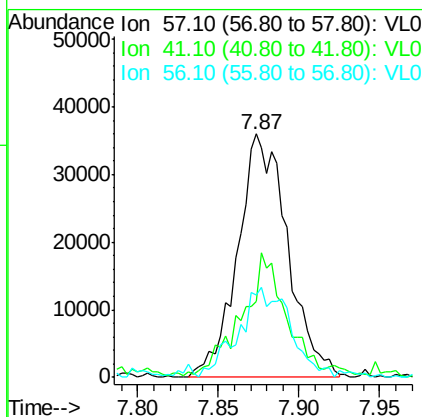
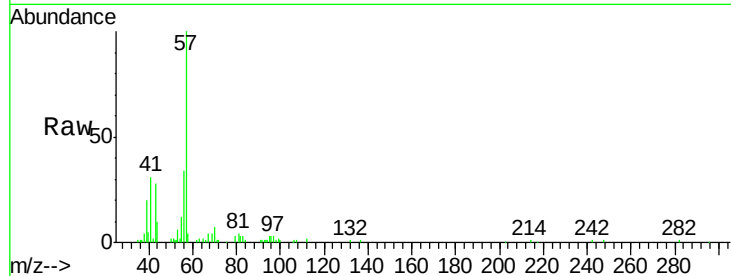
#44
 2,2,4-Trimethylpentane
 Concen: 0.232 ppbv m
 RT: 7.87 min Scan# 1582
 Delta R.T. -0.01 min
 Lab File: VL035257.D
 Acq: 29 Jul 2020 22:11

Instrument :
 MSVOA_L
 ClientSampled :
 IA1

Tot Ion	Ratio	Lower	Upper
57	100		
41	44.1	27.0	40.4#
56	39.3	25.6	38.4#

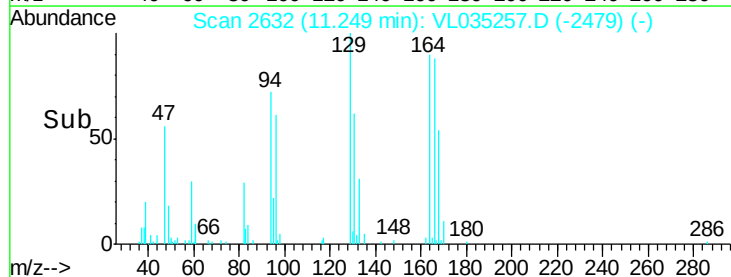
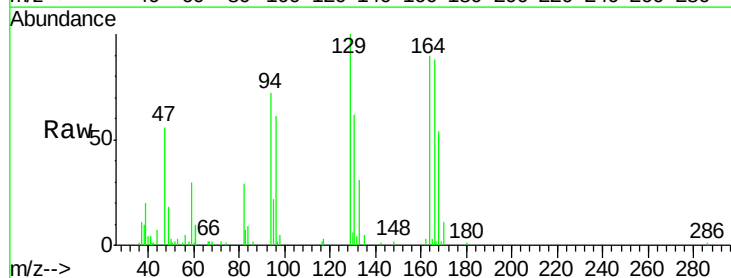
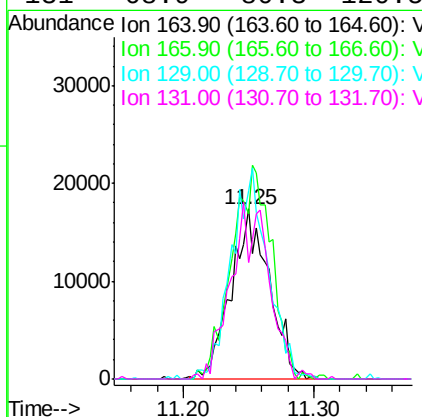
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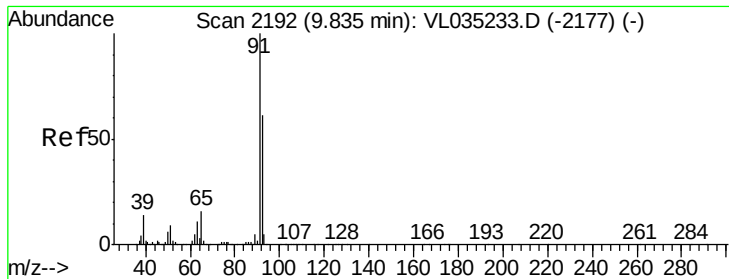
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#52
 Tetrachloroethene
 Concen: 0.486 ppbv m
 RT: 11.25 min Scan# 2632
 Delta R.T. -0.01 min
 Lab File: VL035257.D
 Acq: 29 Jul 2020 22:11

Tgt Ion	Ratio	Lower	Upper
164	100		
166	97.3	107.5	161.3#
129	110.8	86.0	129.0
131	68.9	80.3	120.5#





#53

Toluene

Concen: 1.589 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.01 min

Lab File: VL035257.D

Acq: 29 Jul 2020 22:11

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tot Ion: 91 Resp: 322891

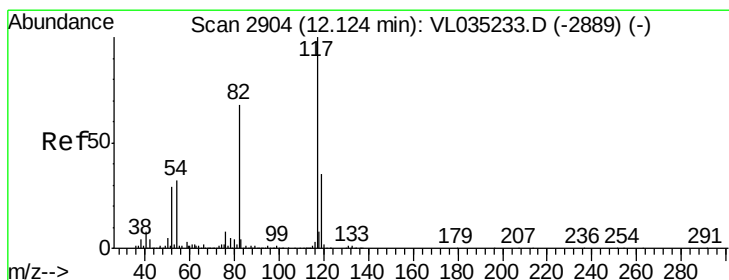
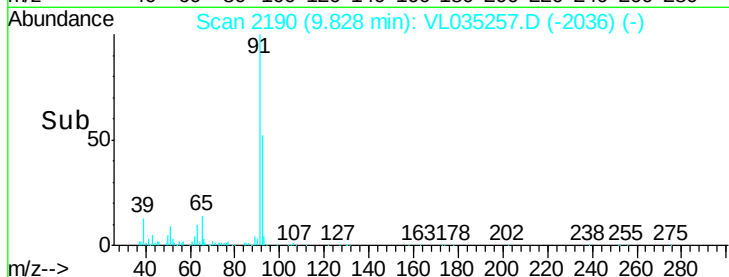
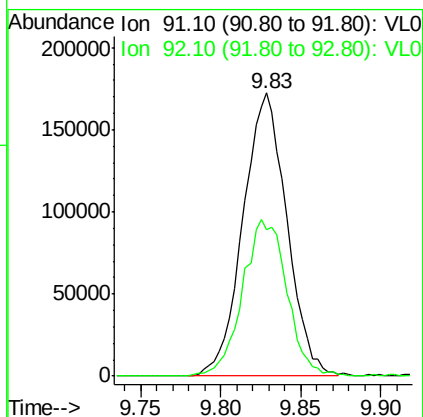
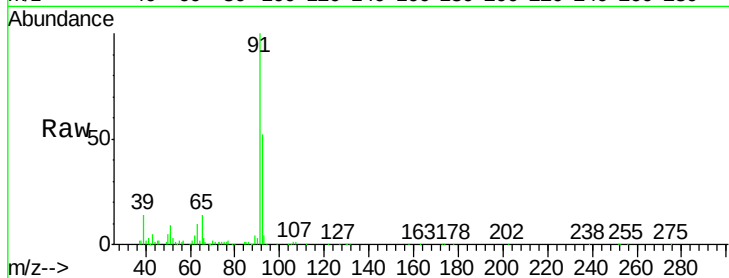
Ion Ratio Lower Upper

91 100

92 56.2 48.5 72.7

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2901

Delta R.T. -0.01 min

Lab File: VL035257.D

Acq: 29 Jul 2020 22:11

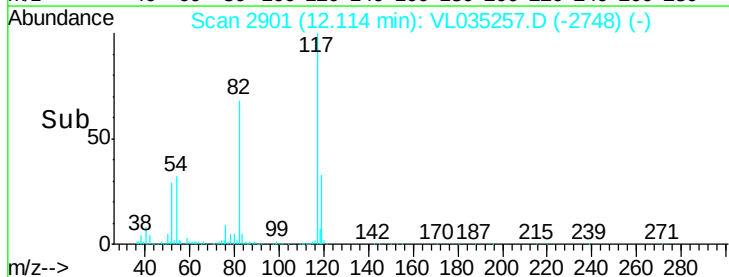
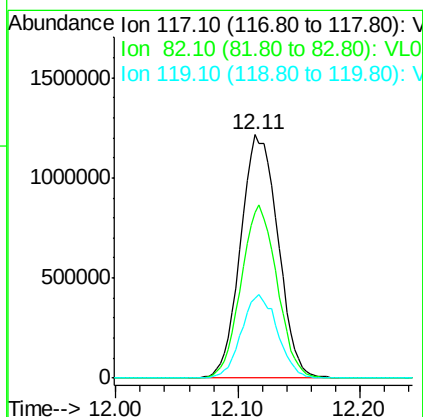
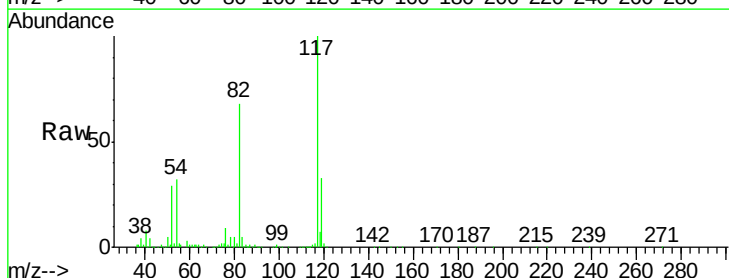
Tgt Ion: 117 Resp: 2575677

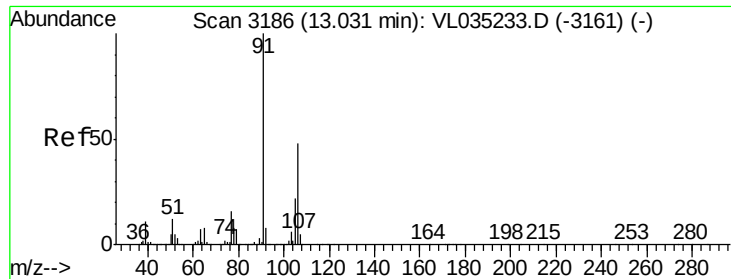
Ion Ratio Lower Upper

117 100

82 68.5 52.4 78.6

119 33.0 24.6 36.8





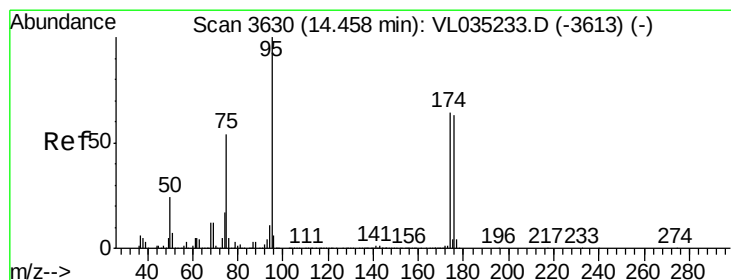
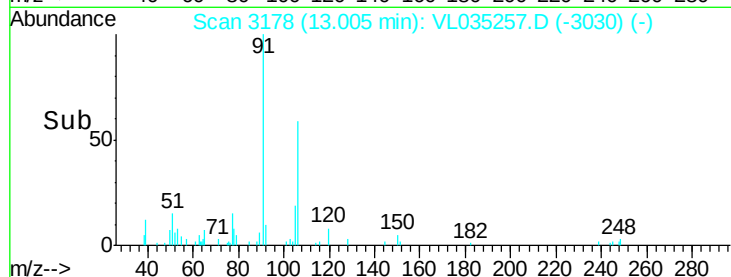
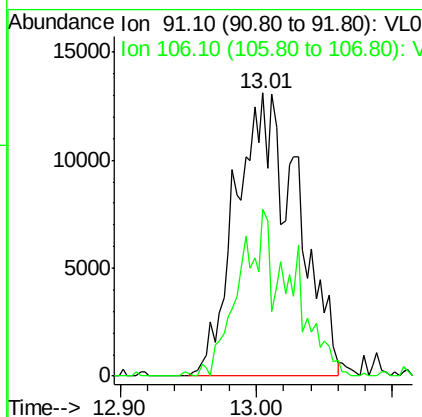
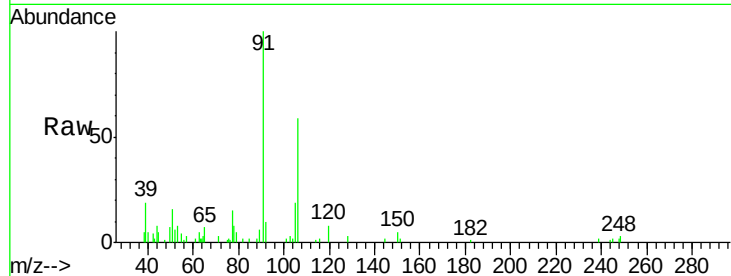
#59
m/p-Xylene
Concen: 0.162 ppbv m
RT: 13.01 min Scan# 3178
Delta R.T. -0.03 min
Lab File: VL035257.D
Acq: 29 Jul 2020 22:11

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion: 91 Resp: 41043
Ion Ratio Lower Upper
91 100
106 20.3 37.2 55.8#

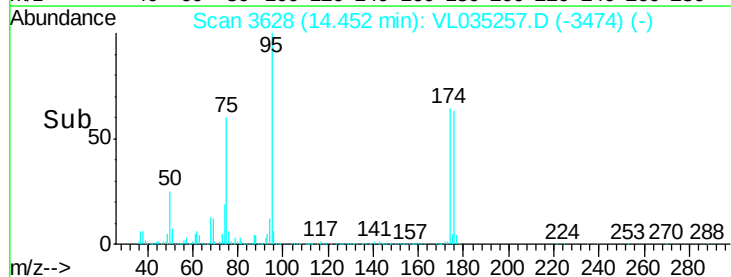
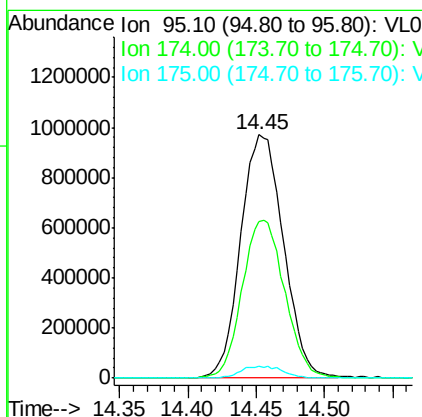
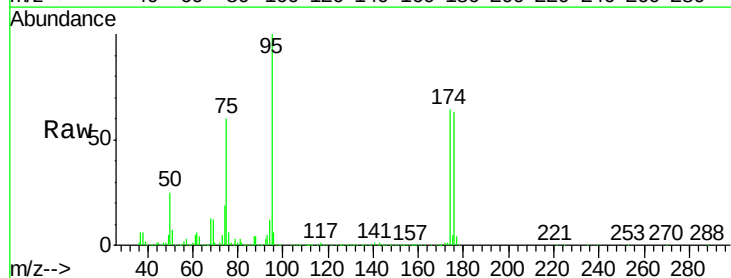
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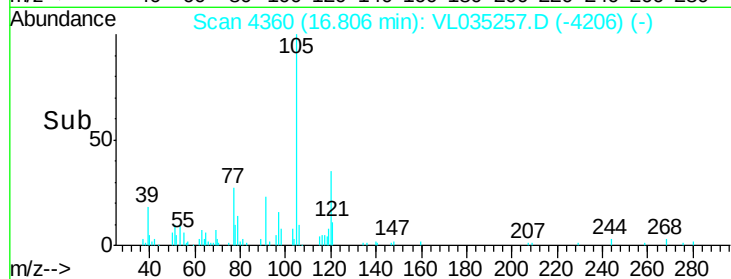
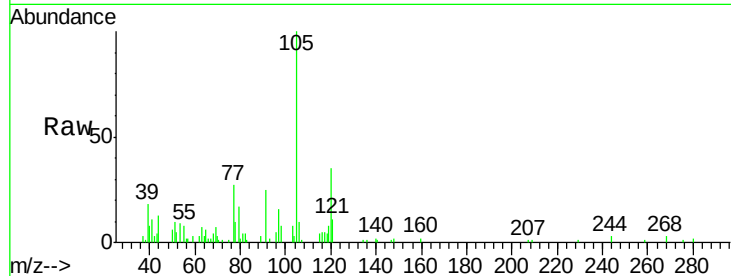
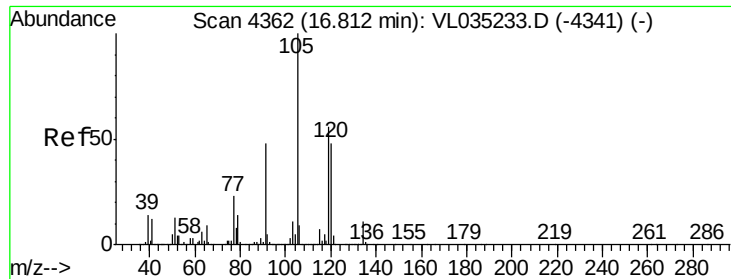
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.261 ppbv
RT: 14.45 min Scan# 3628
Delta R.T. -0.01 min
Lab File: VL035257.D
Acq: 29 Jul 2020 22:11

Tgt Ion: 95 Resp: 2111832
Ion Ratio Lower Upper
95 100
174 64.7 52.7 79.1
175 4.8 3.9 5.9





#74
 1,2,4-Trimethylbenzene
 Concen: 0.108 ppbv m
 RT: 16.81 min Scan# 4360
 Delta R.T. -0.01 min
 Lab File: VL035257.D
 Acq: 29 Jul 2020 22:11

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tot Ion	Ratio	Resp	Lower	Upper
105	100	35052		
120	34.8		38.8	58.2#
91	24.9		38.9	58.3#
77	27.0		18.4	27.6

Manual Integrations
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