

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110520\
 Data File : VL035867.D
 Acq On : 5 Nov 2020 19:41
 Operator : SY/AP
 Sample : L4220-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA4

Manual Integrations
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MMDadoda
 11/9/2020 1:38:42 PM

Quant Time: Nov 08 14:16:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 0
 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	5.64	49	1012490	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	4127768	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	3701468	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2640693	10.04	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	36158	0.190	ppbv	98
3) Chlorodifluoromethane	2.97	51	51759	0.427	ppbv #	89
4) Chloromethane	3.12	50	36467	0.619	ppbv	97
9) Propene	3.00	41	124879m	2.814	ppbv	
10) Heptane	8.10	43	14631m	0.119	ppbv	
11) Trichlorofluoromethane	3.93	101	62126	0.260	ppbv	96
13) Ethanol	3.58	45	1700778	176.655	ppbv	97
15) Acetone	3.83	43	972326	8.983	ppbv	99
19) Isopropyl Alcohol	3.95	45	585476	8.802	ppbv	98
20) Methylene Chloride	4.32	84	334130	4.385	ppbv	98
26) Hexane	5.66	57	293008	2.492	ppbv #	49
29) Chloroform	5.73	83	188989	0.818	ppbv	95
34) 2-Butanone	5.22	43	58899	0.440	ppbv	92
35) Carbon Tetrachloride	7.00	117	14341	0.065	ppbv	97
36) Benzene	6.86	78	108477	0.353	ppbv	94
44) 2,2,4-Trimethylpentane	7.84	57	59290	0.146	ppbv #	75
53) Toluene	9.78	91	322459	0.871	ppbv	97
59) m/p-Xylene	12.95	91	84023	0.220	ppbv	98

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

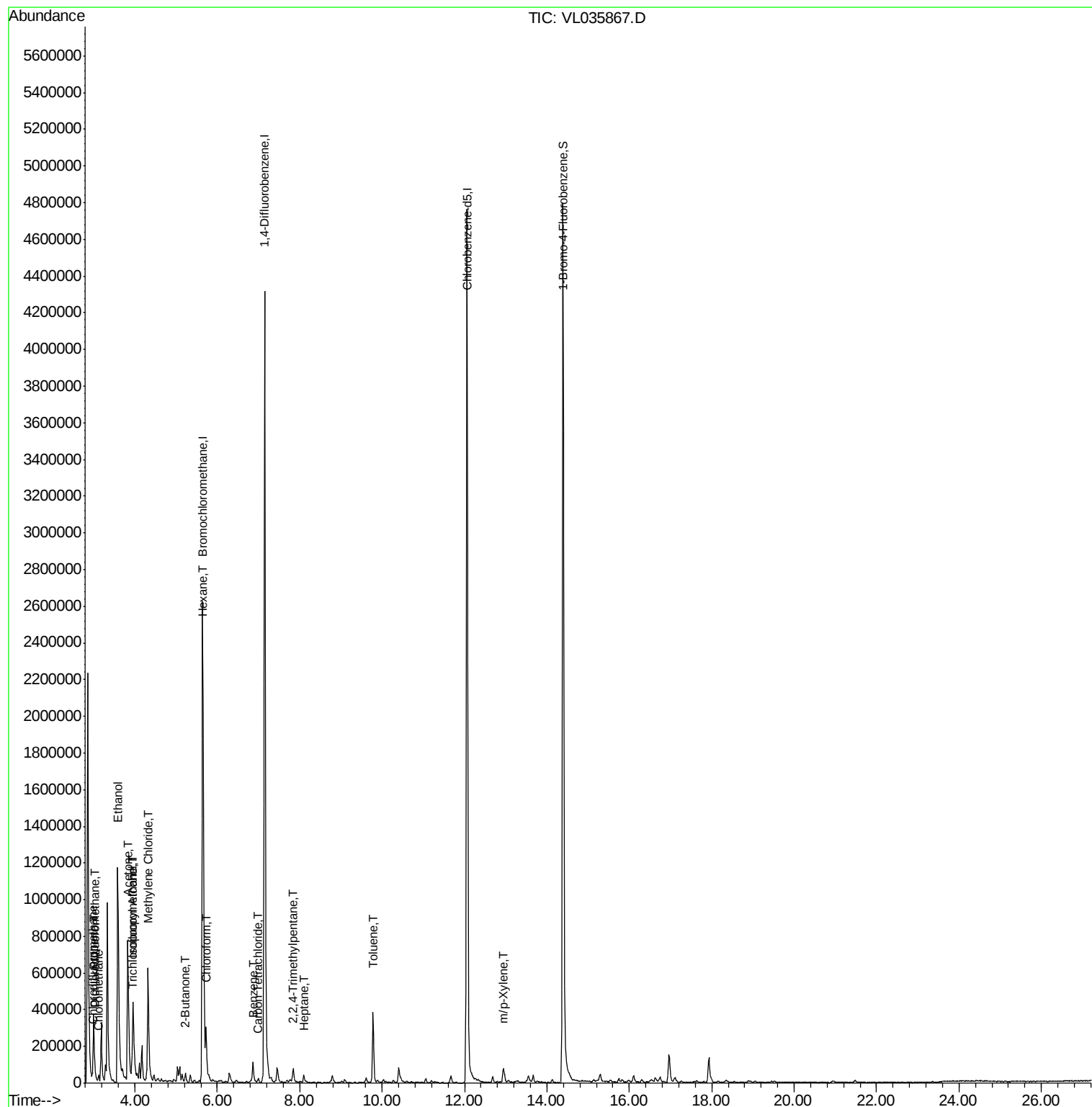
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110520\
Data File : VL035867.D
Acq On : 5 Nov 2020 19:41
Operator : SY/AP
Sample : L4220-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

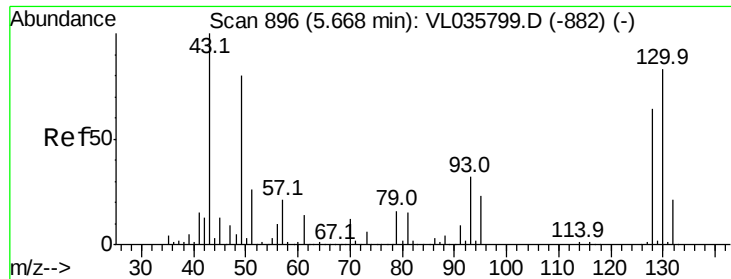
Instrument :
MSVOA_L
ClientSampleId :
IA4

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11/9/2020 1:38:42 PM

Quant Time: Nov 08 14:16:09 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: 5.64 min Scan# 888

Delta R.T. -0.03 min

Lab File: VL035867.D

Acq: 5 Nov 2020 19:41

Instrument :

MSVOA_L

ClientSampleId :

IA4

Tot Ion: 49 Resp: 1012490

Ion Ratio Lower Upper

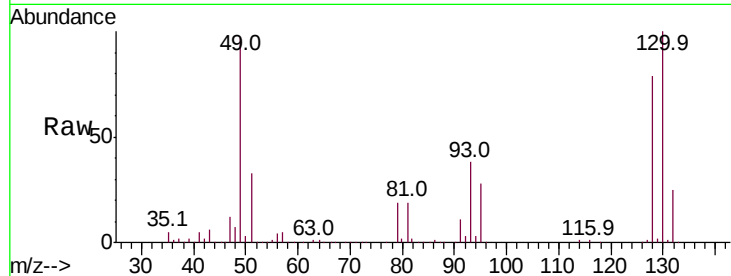
49 100

128 86.7 41.5 124.6

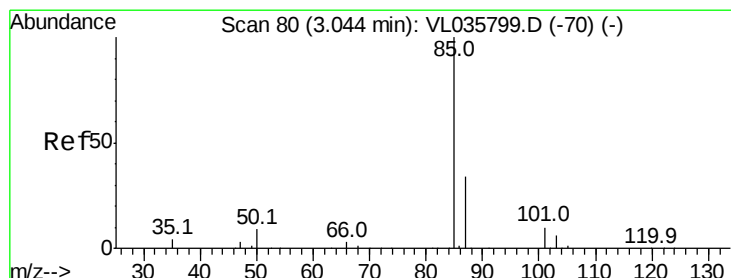
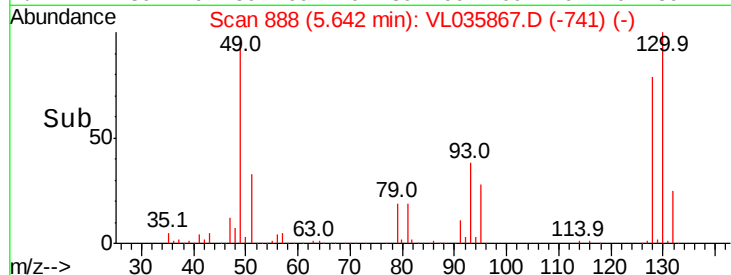
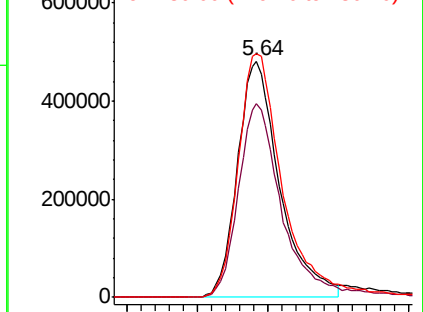
130 111.0 53.7 161.1

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Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.190 ppbv

RT: 3.02 min Scan# 74

Delta R.T. -0.02 min

Lab File: VL035867.D

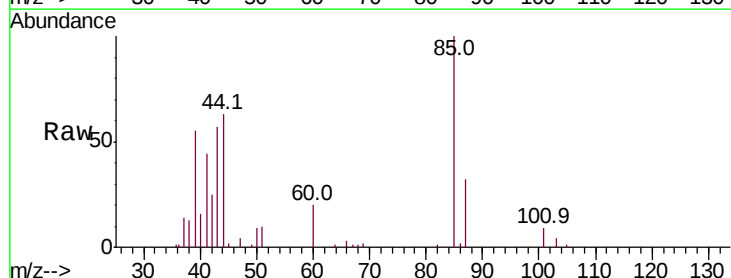
Acq: 5 Nov 2020 19:41

Tgt Ion: 85 Resp: 36158

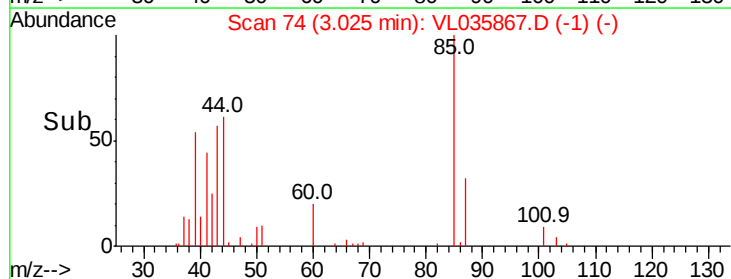
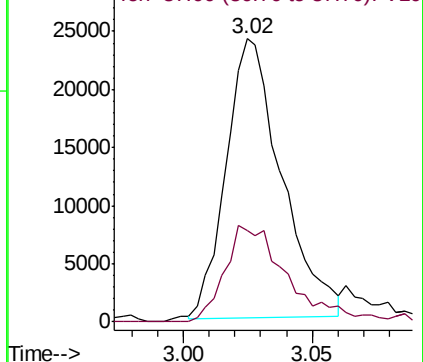
Ion Ratio Lower Upper

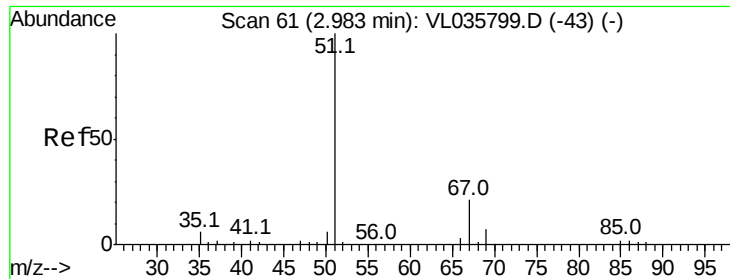
85 100

87 33.0 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





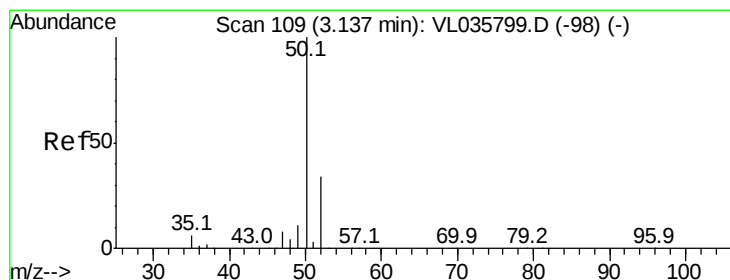
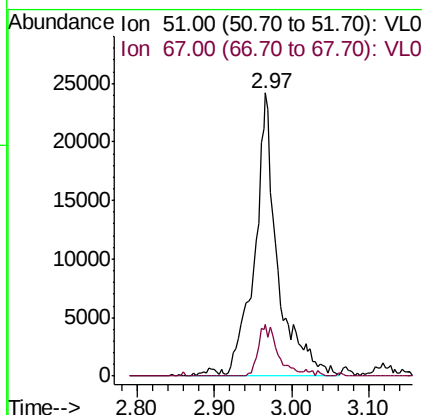
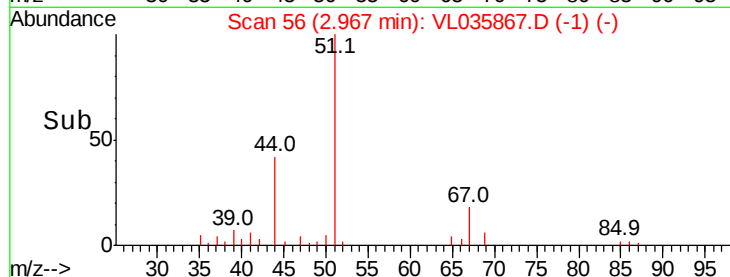
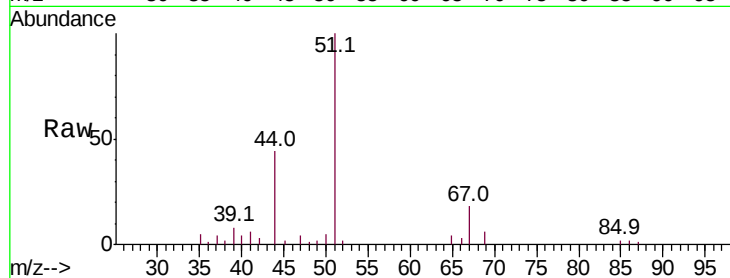
#3
 Chlorodifluoromethane
 Concen: 0.427 ppbv
 RT: 2.97 min Scan# 56
 Delta R.T. -0.02 min
 Lab File: VL035867.D
 Acq: 5 Nov 2020 19:41

Instrument :
 MSVOA_L
 ClientSampled :
 IA4

Tot Ion: 51 Resp: 51759
 Ion Ratio Lower Upper
 51 100
 67 16.1 17.0 25.4#

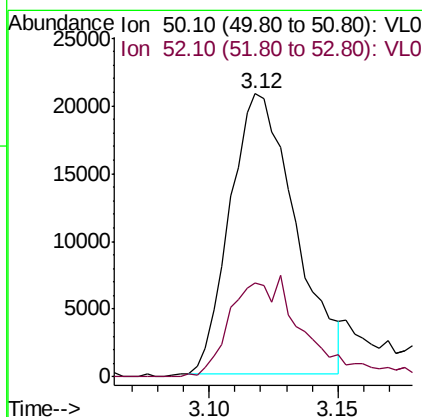
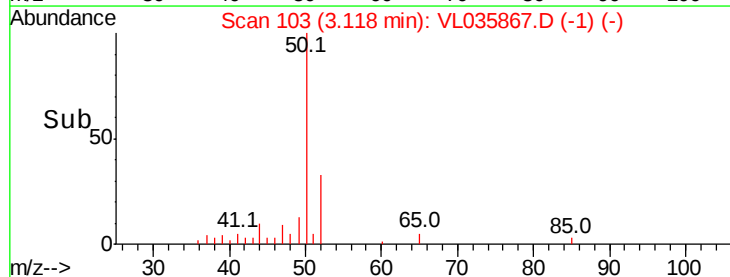
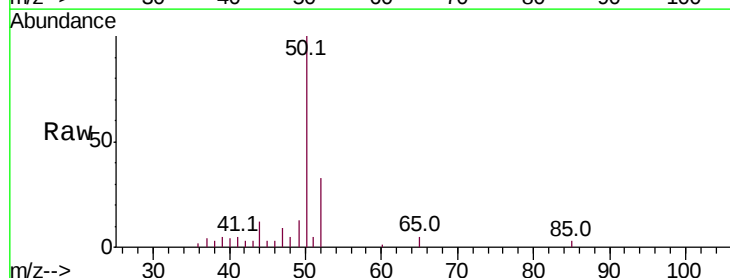
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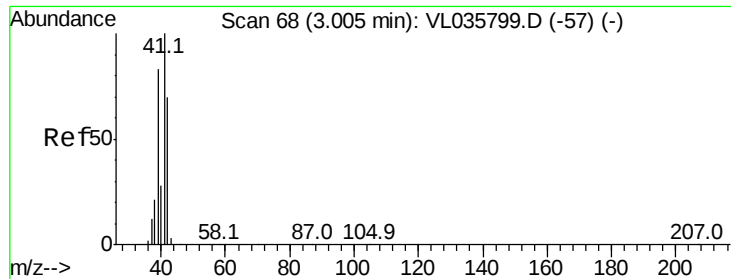
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#4
 Chloromethane
 Concen: 0.619 ppbv
 RT: 3.12 min Scan# 103
 Delta R.T. -0.02 min
 Lab File: VL035867.D
 Acq: 5 Nov 2020 19:41

Tgt Ion: 50 Resp: 36467
 Ion Ratio Lower Upper
 50 100
 52 32.4 27.1 40.7





#9

Propene

Concen: 2.814 ppbv m

RT: 3.00 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL035867.D

Acq: 5 Nov 2020 19:41

Instrument :

MSVOA_L

ClientSampleId :

IA4

Tot Ion: 41 Resp: 124879

Ion Ratio Lower Upper

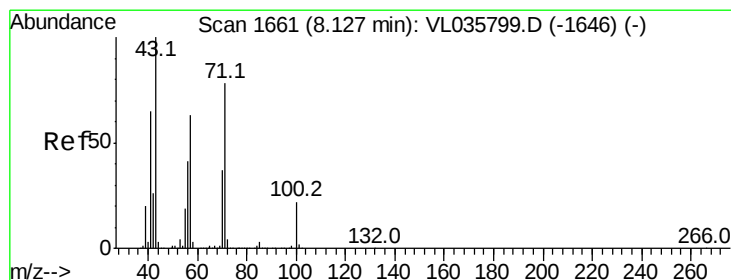
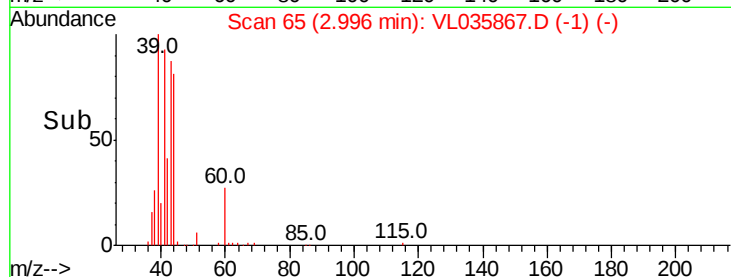
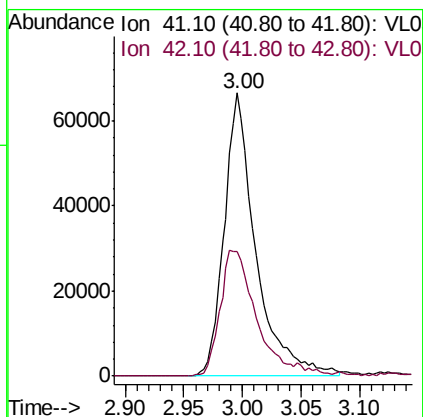
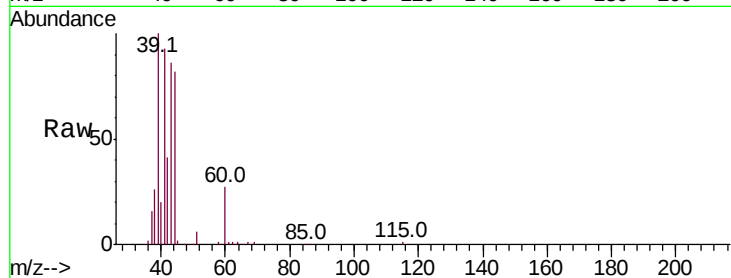
41 100

42 56.2 56.2 84.4#

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#10

Heptane

Concen: 0.119 ppbv m

RT: 8.10 min Scan# 1653

Delta R.T. -0.03 min

Lab File: VL035867.D

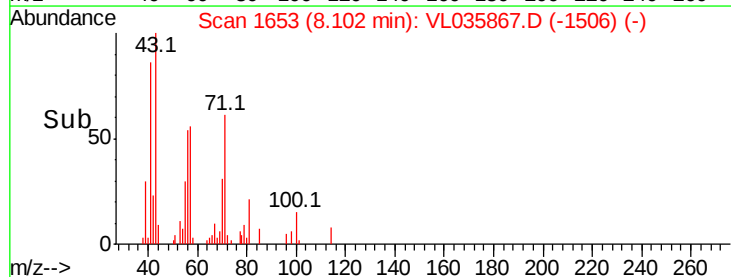
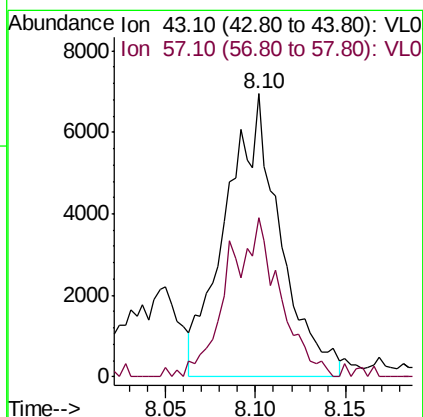
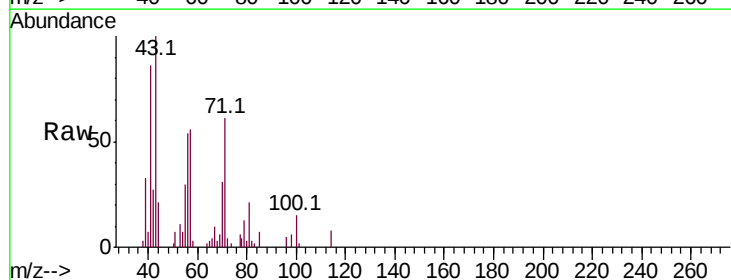
Acq: 5 Nov 2020 19:41

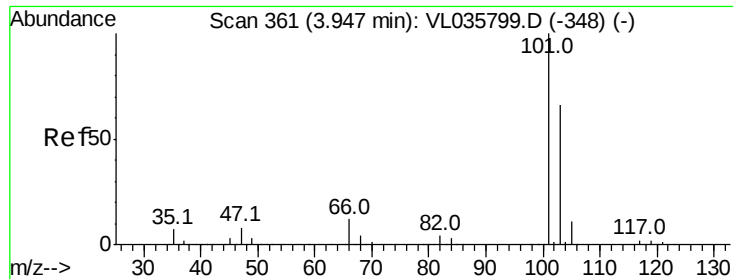
Tgt Ion: 43 Resp: 14631

Ion Ratio Lower Upper

43 100

57 0.0 50.0 75.0#





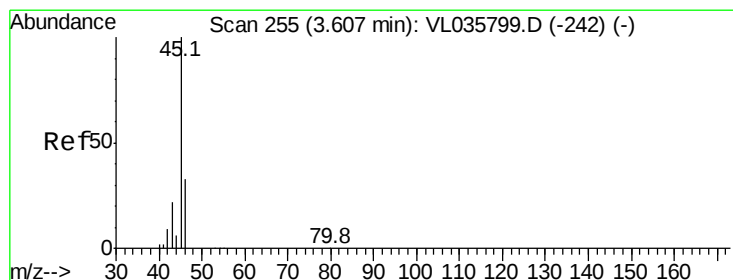
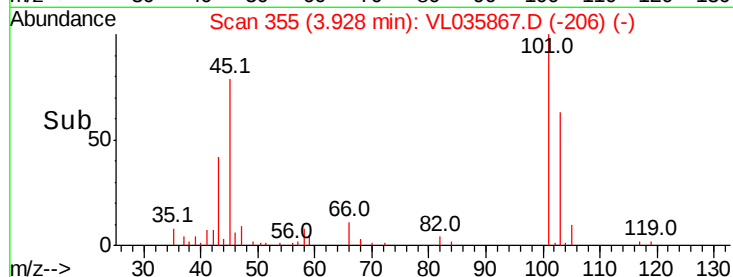
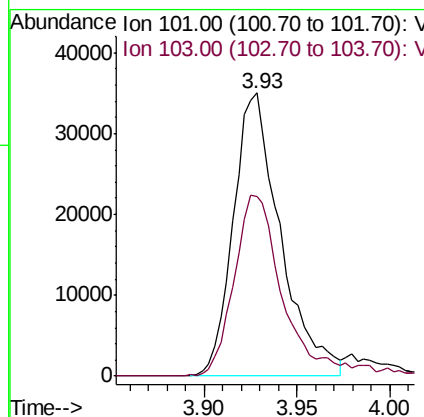
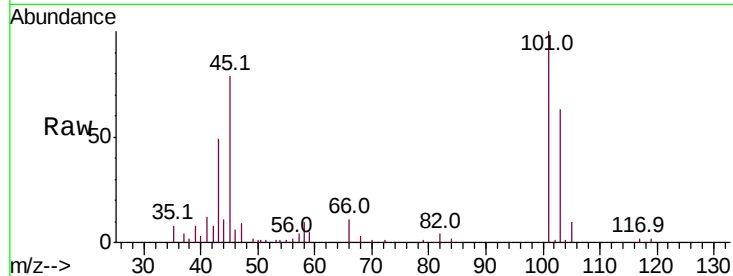
#11
Trichlorofluoromethane
Concen: 0.260 ppbv
RT: 3.93 min Scan# 355
Delta R.T. -0.02 min
Lab File: VL035867.D
Acq: 5 Nov 2020 19:41

Instrument :
MSVOA_L
ClientSampled :
IA4

Tot Ion:101 Resp: 62126
Ion Ratio Lower Upper
101 100
103 62.8 53.0 79.4

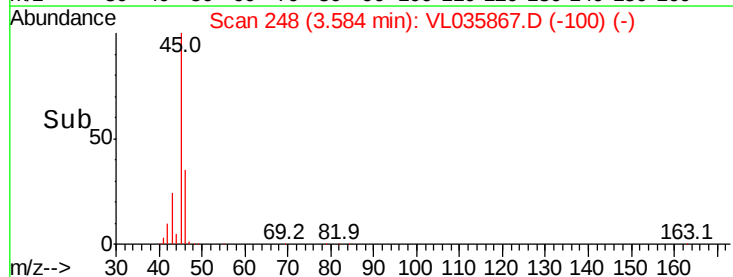
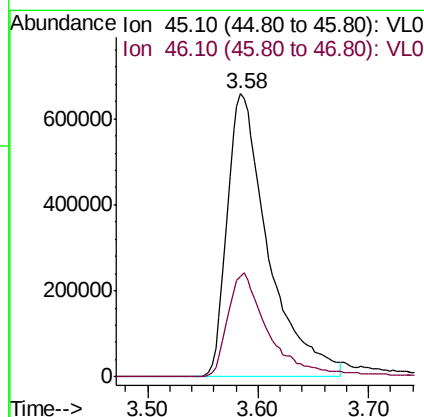
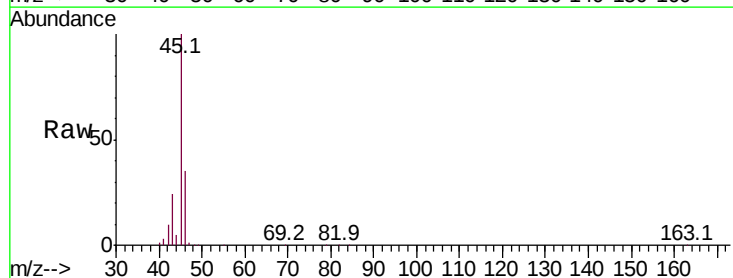
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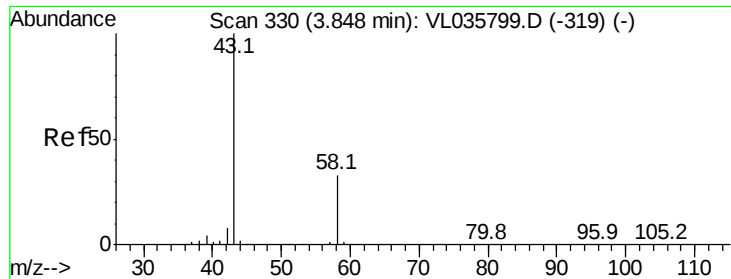
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#13
Ethanol
Concen: 176.655 ppbv
RT: 3.58 min Scan# 248
Delta R.T. -0.02 min
Lab File: VL035867.D
Acq: 5 Nov 2020 19:41

Tgt Ion: 45 Resp: 1700778
Ion Ratio Lower Upper
45 100
46 38.4 16.1 64.5





#15

Acetone

Concen: 8.983 ppbv

RT: 3.83 min Scan# 323

Delta R.T. -0.02 min

Lab File: VL035867.D

Acq: 5 Nov 2020 19:41

Instrument :

MSVOA_L

ClientSampled :

IA4

Tot Ion: 43 Resp: 972326

Ion Ratio Lower Upper

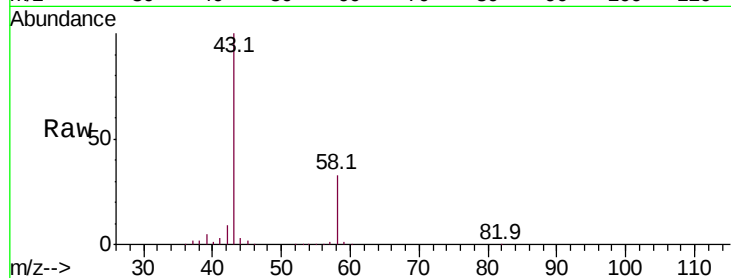
43 100

58 33.7 27.5 41.3

Manual Integrations
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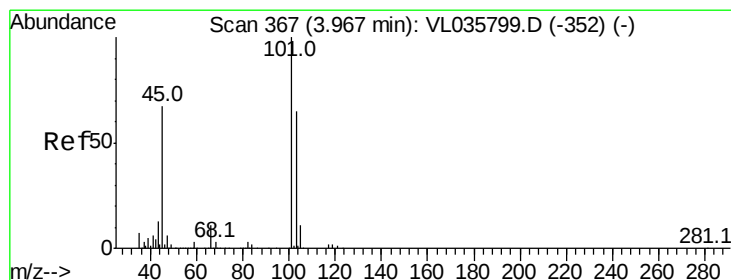
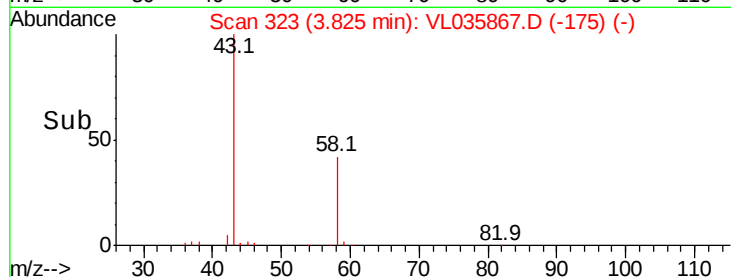
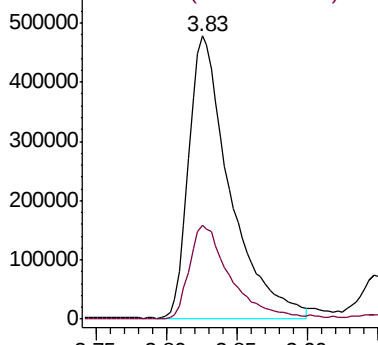
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 8.802 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.02 min

Lab File: VL035867.D

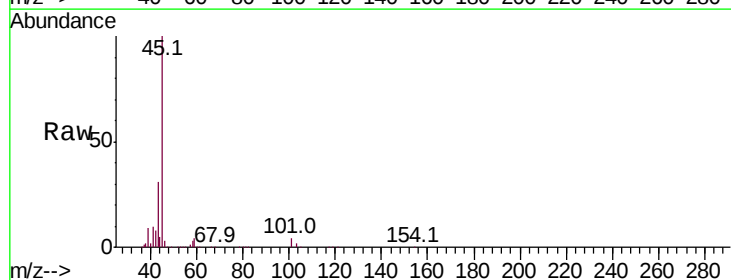
Acq: 5 Nov 2020 19:41

Tgt Ion: 45 Resp: 585476

Ion Ratio Lower Upper

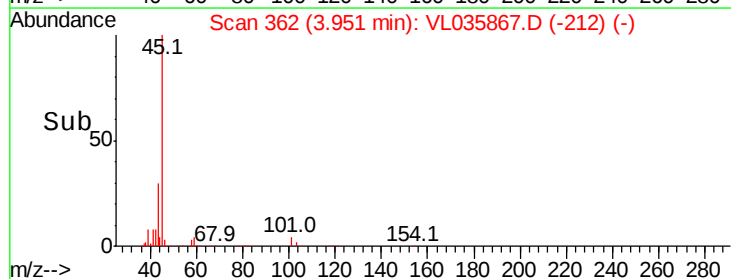
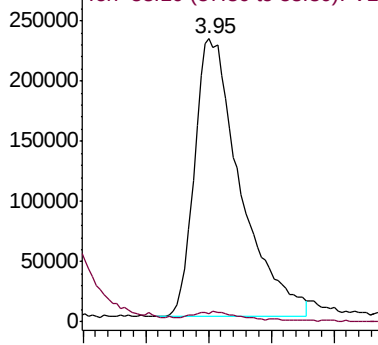
45 100

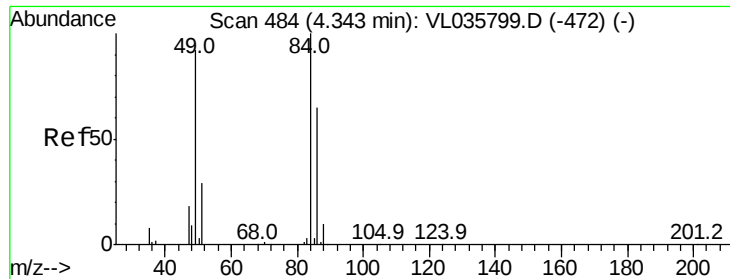
58 3.8 2.6 3.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





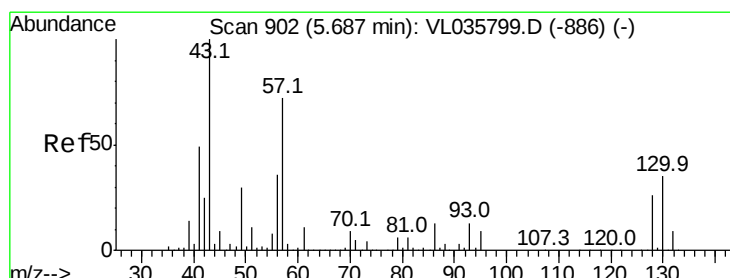
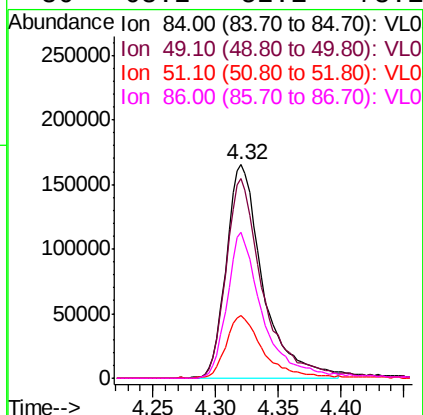
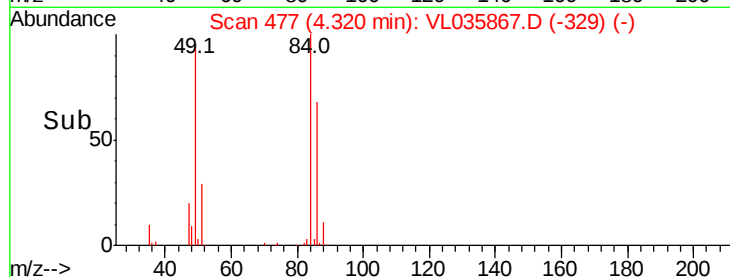
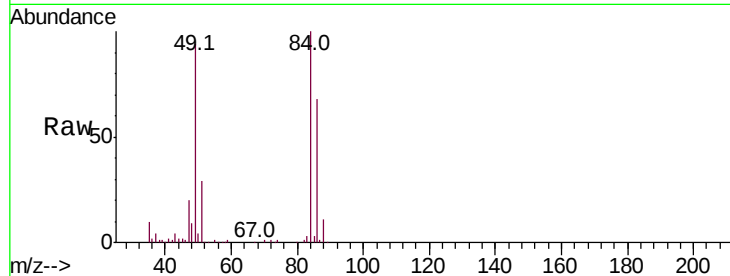
#20
Methvlene Chloride
Concen: 4.385 ppbv
RT: 4.32 min Scan# 477
Delta R.T. -0.02 min
Lab File: VL035867.D
Acq: 5 Nov 2020 19:41

Instrument :
MSVOA_L
ClientSampled :
IA4

Tot Ion	84	Resp	334130
Ion Ratio	Lower	Upper	
84	100		
49	93.8	73.8	110.8
51	29.0	23.0	34.4
86	68.2	52.1	78.1

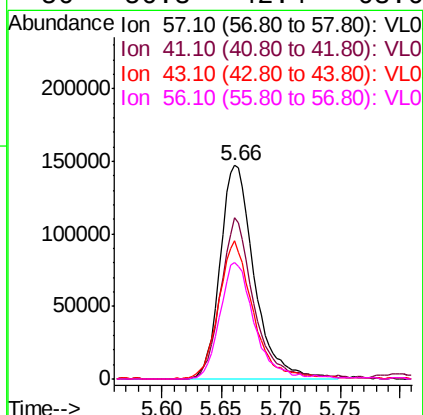
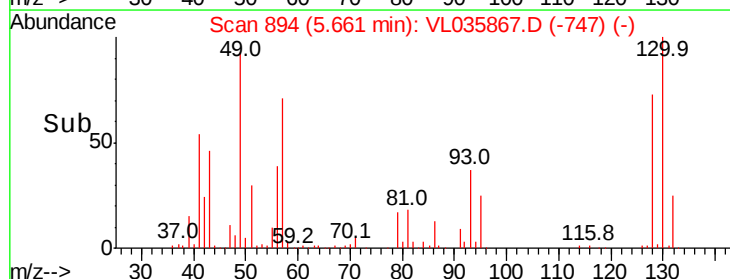
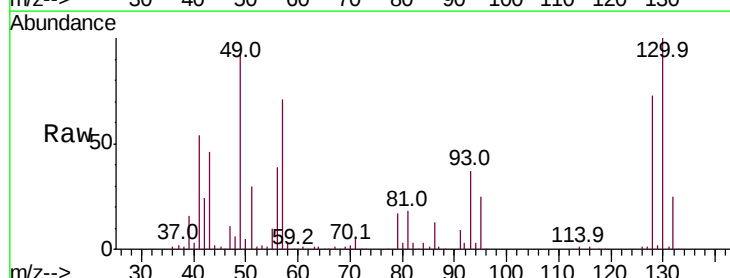
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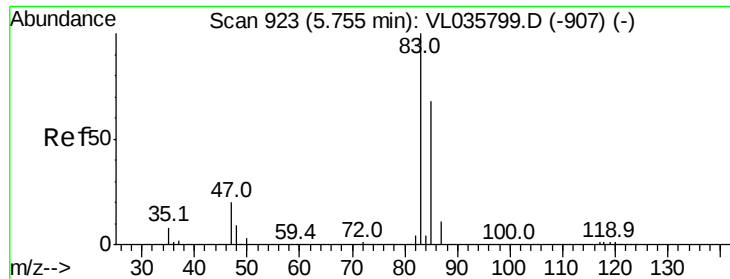
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#26
Hexane
Concen: 2.492 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.03 min
Lab File: VL035867.D
Acq: 5 Nov 2020 19:41

Tgt Ion	57	Resp	293008
Ion Ratio	Lower	Upper	
57	100		
41	73.4	58.9	88.3
43	65.6	150.2	225.2#
56	56.3	42.4	63.6





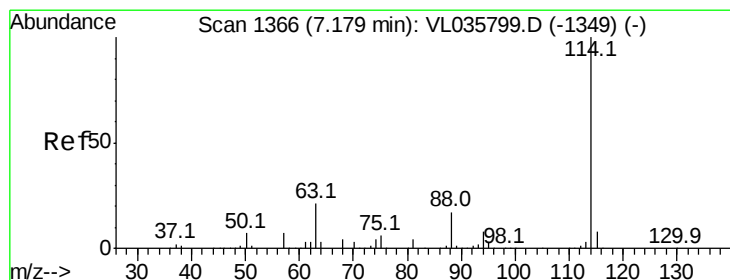
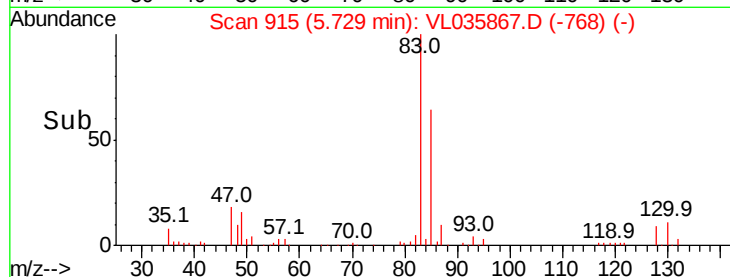
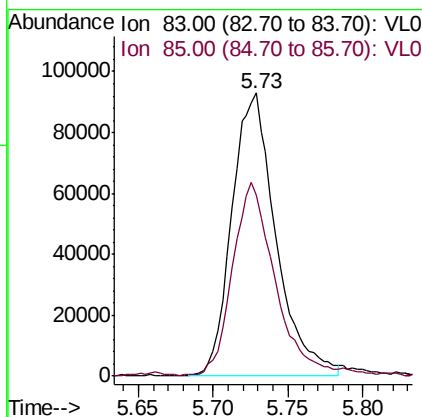
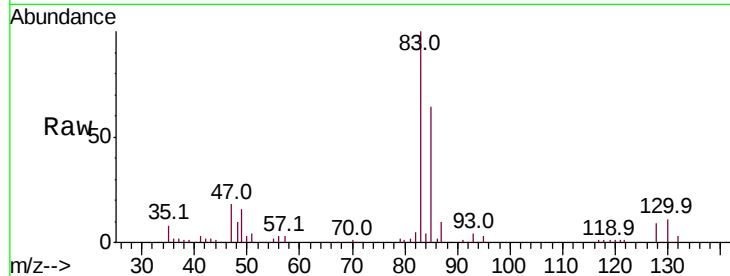
#29
Chloroform
Concen: 0.818 ppbv
RT: 5.73 min Scan# 915
Delta R.T. -0.03 min
Lab File: VL035867.D
Acq: 5 Nov 2020 19:41

Instrument :
MSVOA_L
ClientSampled :
IA4

Tot Ion: 83 Resp: 188989
Ion Ratio Lower Upper
83 100
85 63.8 54.6 81.8

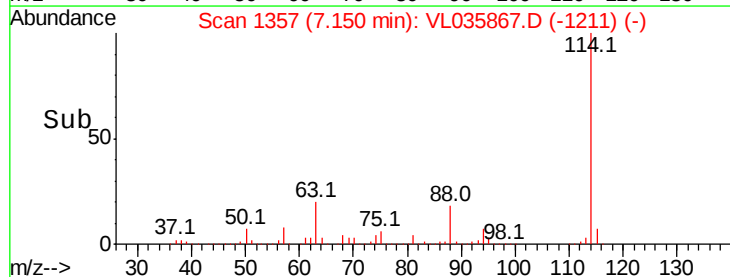
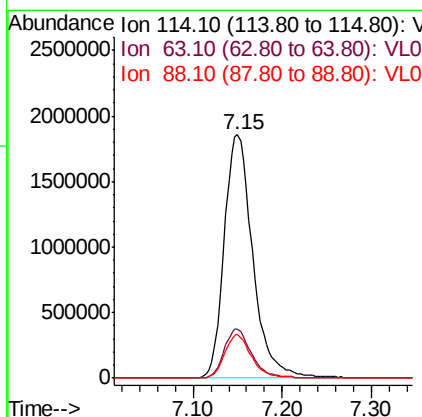
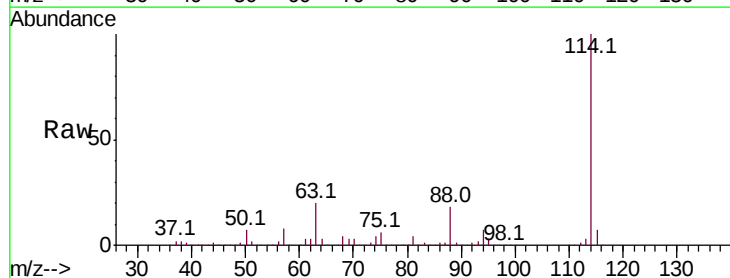
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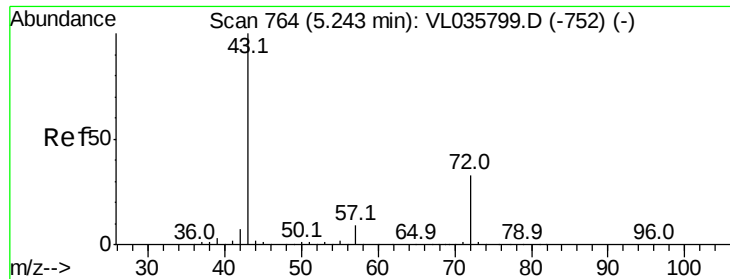
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. -0.03 min
Lab File: VL035867.D
Acq: 5 Nov 2020 19:41

Tgt Ion: 114 Resp: 4127768
Ion Ratio Lower Upper
114 100
63 19.6 16.1 24.1
88 17.1 13.7 20.5





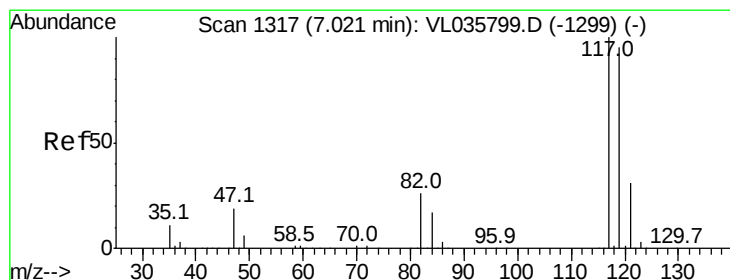
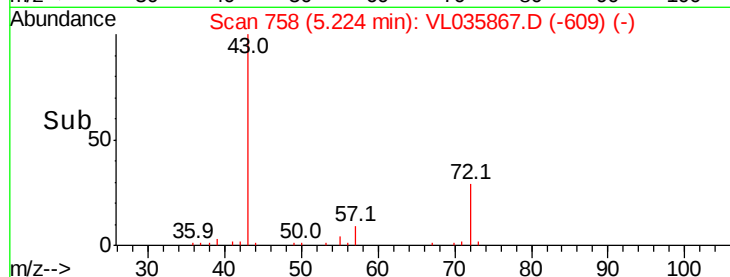
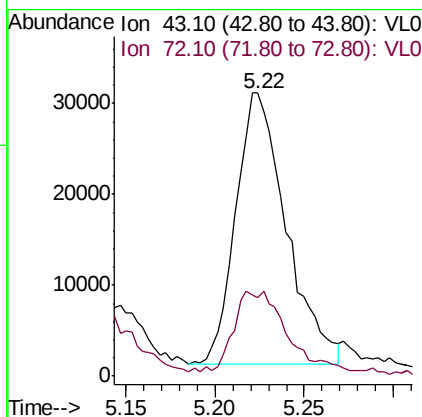
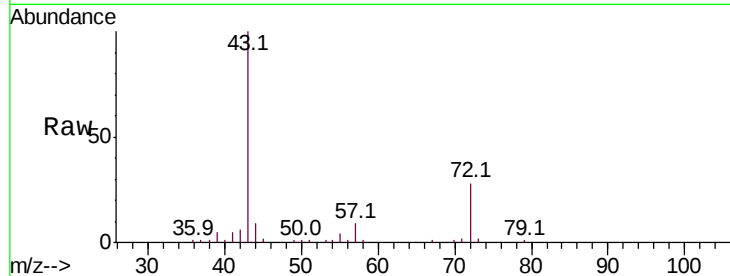
#34
2-Butanone
Concen: 0.440 ppbv
RT: 5.22 min Scan# 758
Delta R.T. -0.02 min
Lab File: VL035867.D
Acq: 5 Nov 2020 19:41

Instrument :
MSVOA_L
ClientSampleId :
IA4

Tot Ion: 43 Resp: 58899
Ion Ratio Lower Upper
43 100
72 37.9 26.5 39.7

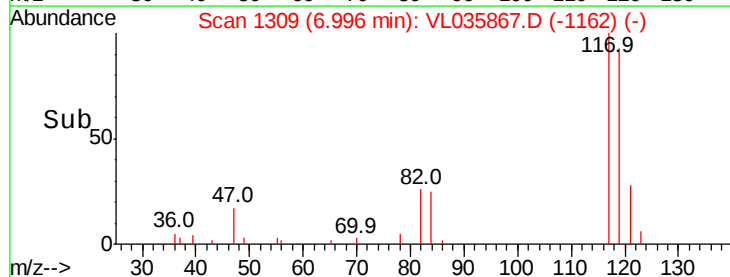
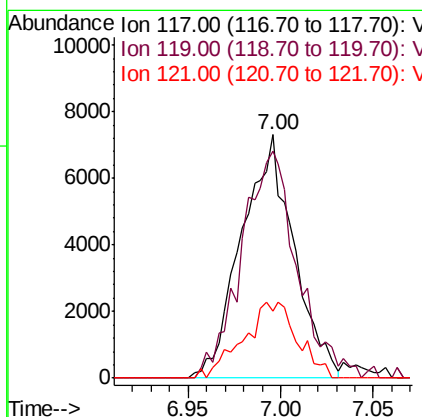
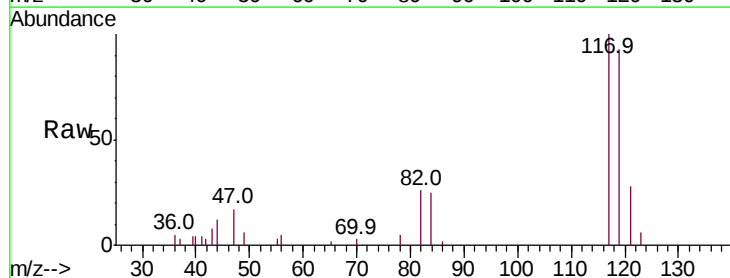
Manual Integrations
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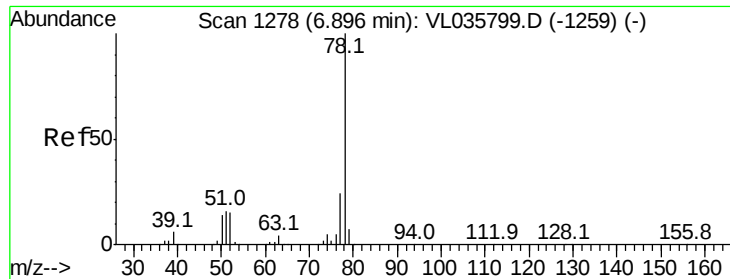
MMDadoda
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#35
Carbon Tetrachloride
Concen: 0.065 ppbv
RT: 7.00 min Scan# 1309
Delta R.T. -0.03 min
Lab File: VL035867.D
Acq: 5 Nov 2020 19:41

Tgt Ion: 117 Resp: 14341
Ion Ratio Lower Upper
117 100
119 93.0 75.6 113.4
121 27.7 25.1 37.7





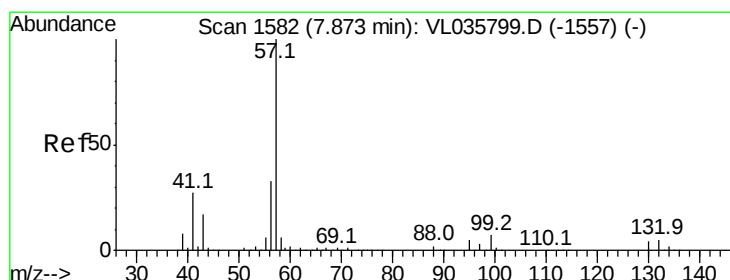
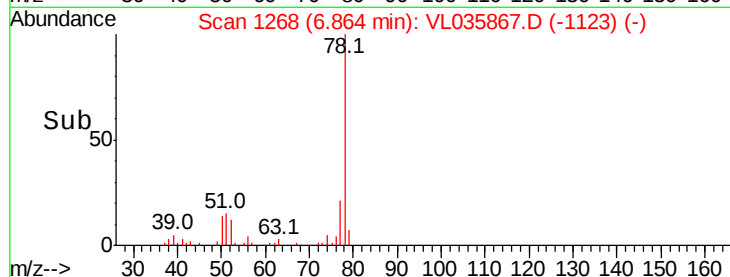
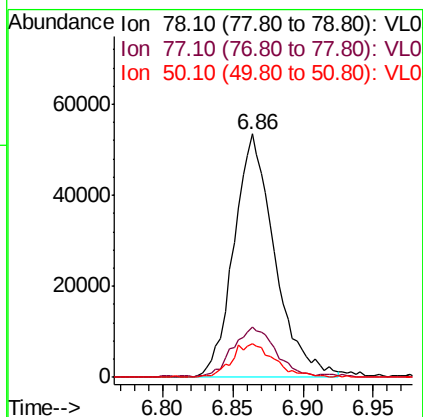
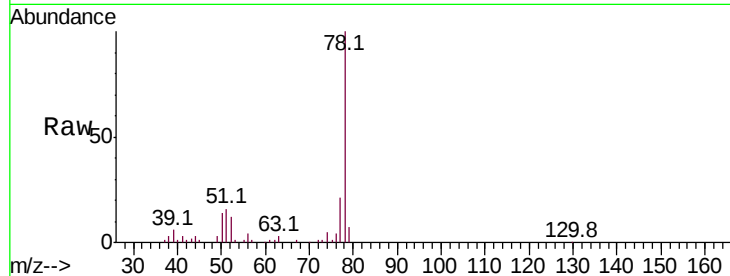
#36
Benzene
Concen: 0.353 ppbv
RT: 6.86 min Scan# 1268
Delta R.T. -0.03 min
Lab File: VL035867.D
Acq: 5 Nov 2020 19:41

Instrument :
MSVOA_L
ClientSampleId :
IA4

Tot Ion	Ratio	Lower	Upper
78	100		
77	20.2	19.3	28.9
50	13.4	11.4	17.2

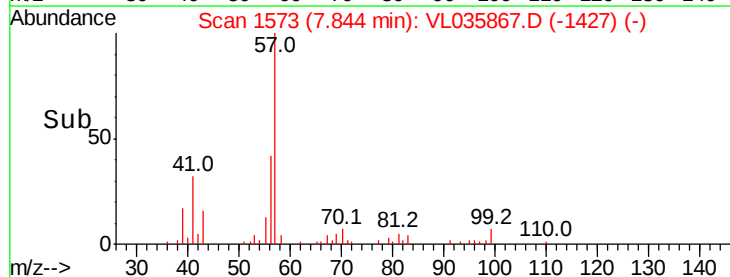
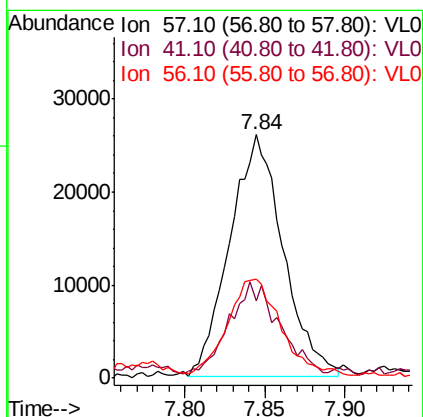
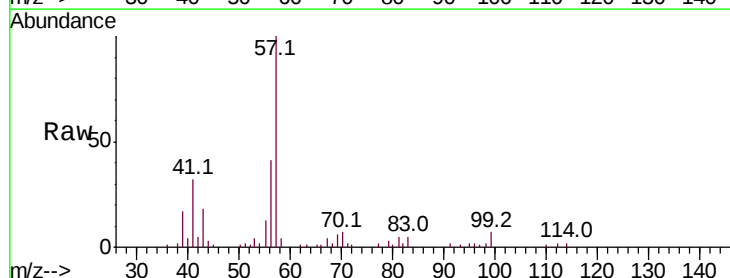
Manual Integrations
APPROVED

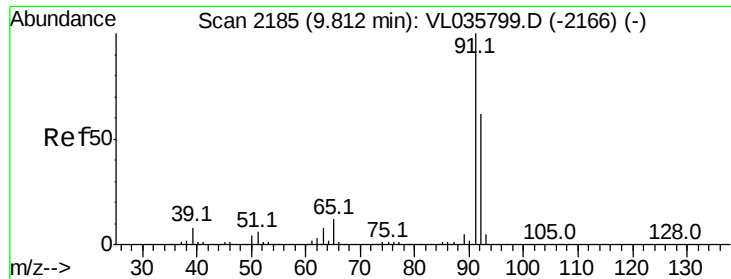
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11/9/2020 1:38:42 PM



#44
2,2,4-Trimethylpentane
Concen: 0.146 ppbv
RT: 7.84 min Scan# 1573
Delta R.T. -0.03 min
Lab File: VL035867.D
Acq: 5 Nov 2020 19:41

Tgt Ion	Ratio	Lower	Upper
57	100		
41	40.1	21.0	31.4#
56	44.8	25.4	38.0#





#53

Toluene

Concen: 0.871 ppbv

RT: 9.78 min Scan# 2175

Delta R.T. -0.03 min

Lab File: VL035867.D

Acq: 5 Nov 2020 19:41

Instrument :

MSVOA_L

ClientSampleId :

IA4

Tot Ion: 91 Resp: 322459

Ion Ratio Lower Upper

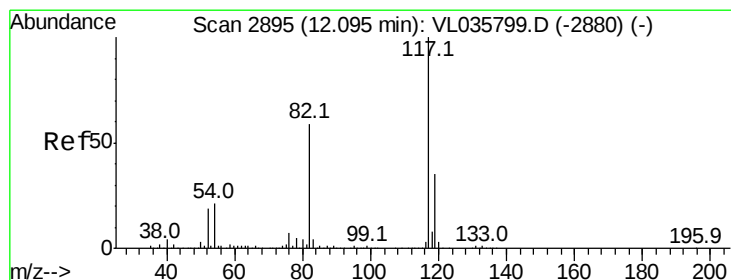
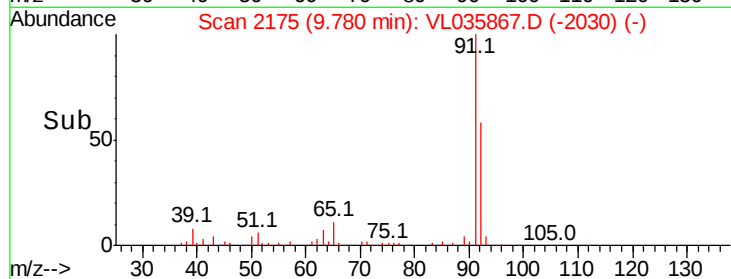
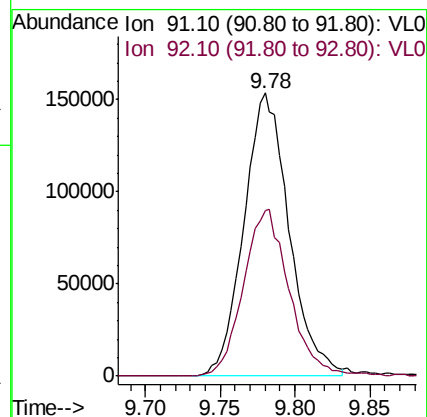
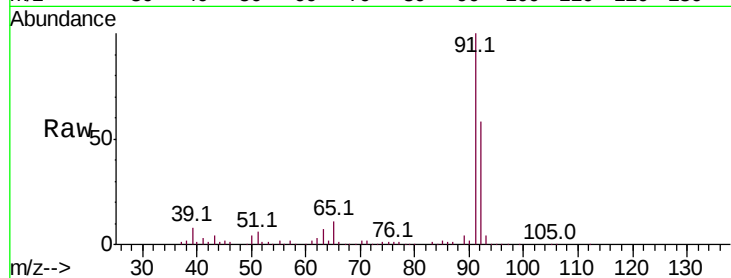
91 100

92 59.9 49.8 74.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.04 min

Lab File: VL035867.D

Acq: 5 Nov 2020 19:41

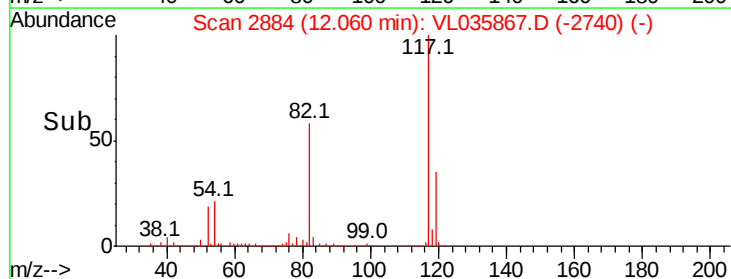
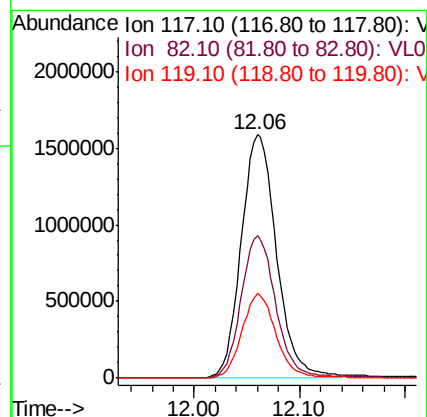
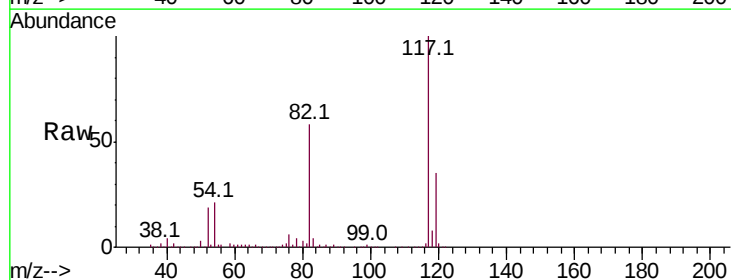
Tgt Ion: 117 Resp: 3701468

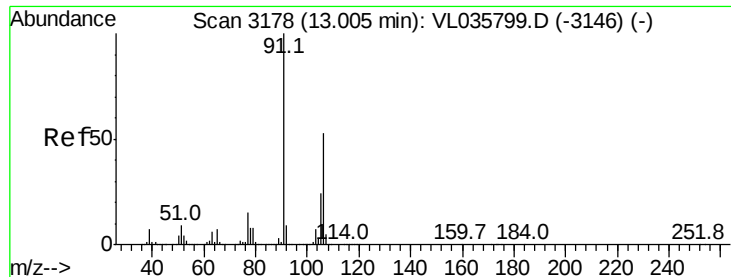
Ion Ratio Lower Upper

117 100

82 58.8 50.6 76.0

119 34.1 52.6 78.8#





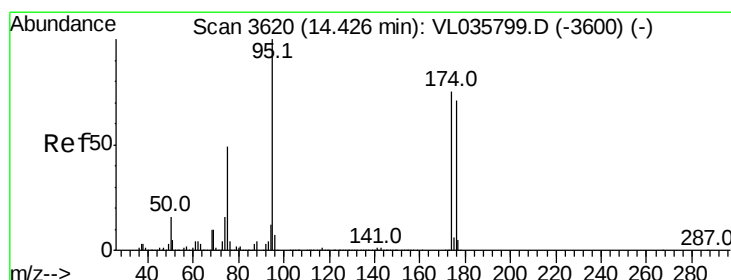
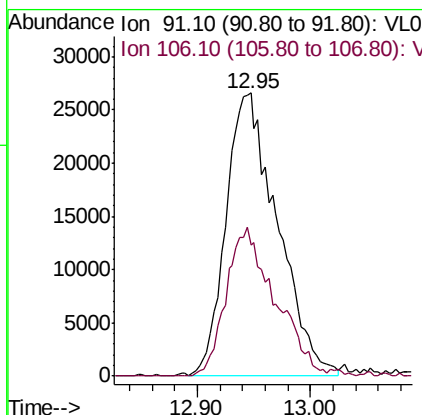
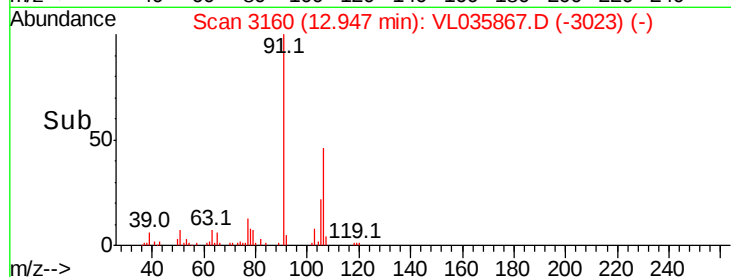
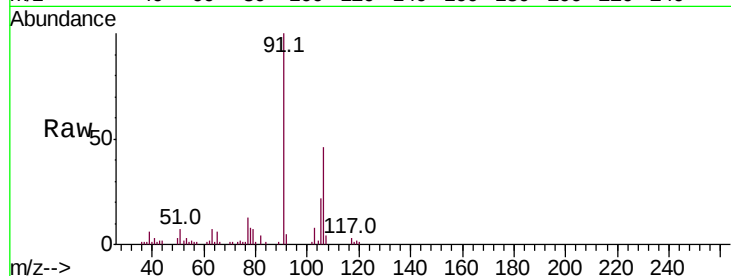
#59
m/p-Xylene
Concen: 0.220 ppbv
RT: 12.95 min Scan# 3160
Delta R.T. -0.06 min
Lab File: VL035867.D
Acq: 5 Nov 2020 19:41

Instrument :
MSVOA_L
ClientSampled :
IA4

Tot Ion: 91 Resp: 84023
Ion Ratio Lower Upper
91 100
106 50.8 39.5 59.3

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.041 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.04 min
Lab File: VL035867.D
Acq: 5 Nov 2020 19:41

Tgt Ion: 95 Resp: 2640693
Ion Ratio Lower Upper
95 100
174 76.3 59.8 89.6
175 5.4 4.3 6.5

