

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110320\
 Data File : VL035812.D
 Acq On : 3 Nov 2020 20:42
 Operator : SY/AP
 Sample : L4604-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

MMDadoda
 11/5/2020 2:13:53 PM

Quant Time: Nov 04 05:41:51 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
 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	5.65	49	1097484	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	5022492	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.07	117	4602756	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	3230646	9.88	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	61748	0.299	ppbv	97
3) Chlorodifluoromethane	2.97	51	47979	0.365	ppbv #	91
4) Chloromethane	3.12	50	26823	0.420	ppbv	97
9) Propene	3.00	41	40133	0.834	ppbv #	75
11) Trichlorofluoromethane	3.93	101	61914m	0.239	ppbv	
13) Ethanol	3.60	45	34067m	3.264	ppbv	
15) Acetone	3.84	43	266321	2.270	ppbv #	88
19) Isopropyl Alcohol	3.97	45	14294	0.198	ppbv #	90
20) Methylene Chloride	4.33	84	108734	1.316	ppbv	94
26) Hexane	5.67	57	79686	0.625	ppbv #	47
34) 2-Butanone	5.24	43	26655	0.164	ppbv #	87
35) Carbon Tetrachloride	7.00	117	17297m	0.064	ppbv	
36) Benzene	6.87	78	70565	0.189	ppbv	96
44) 2,2,4-Trimethylpentane	7.84	57	69438	0.141	ppbv #	91
53) Toluene	9.78	91	277347	0.616	ppbv	99
59) m/p-Xylene	12.95	91	58573m	0.123	ppbv	

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

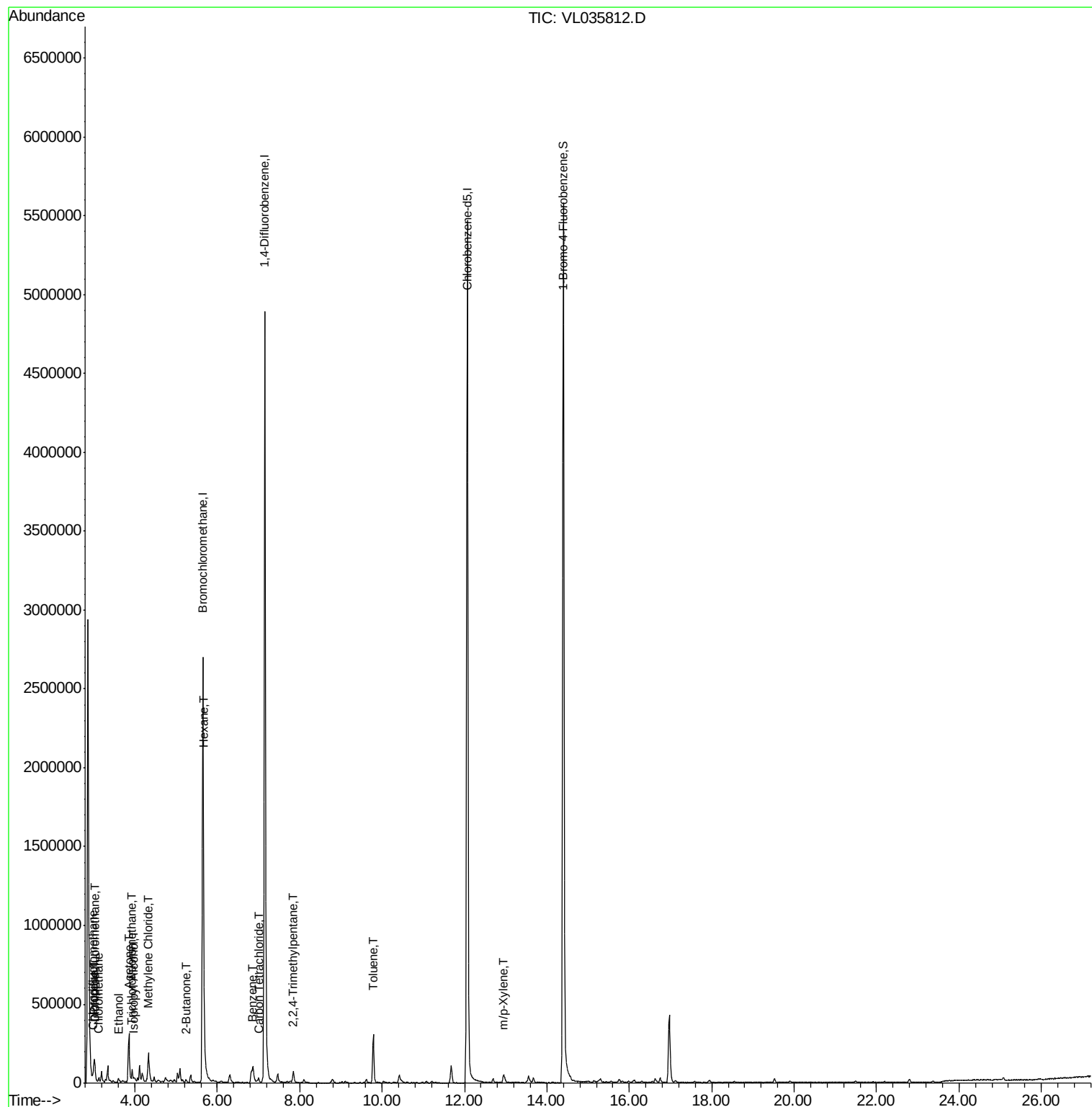
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL110320\
Data File : VL035812.D
Acq On : 3 Nov 2020 20:42
Operator : SY/AP
Sample : L4604-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

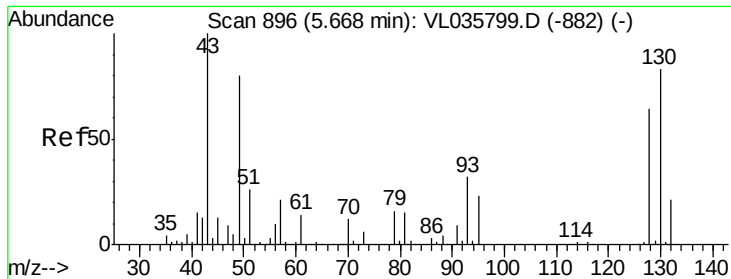
Instrument :
MSVOA_L
ClientSampleId :
IA2

Manual Integrations
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11/5/2020 2:13:53 PM

Quant Time: Nov 04 05:41:51 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: 5.65 min Scan# 889

Delta R.T. -0.02 min

Lab File: VL035812.D

Acq: 3 Nov 2020 20:42

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tot Ion: 49 Resp: 1097484

Ion Ratio Lower Upper

49 100

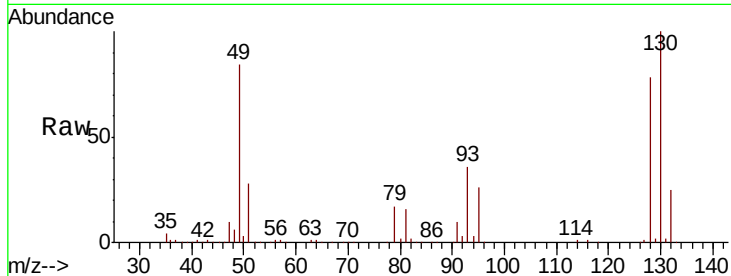
128 93.5 41.5 124.6

130 119.0 53.7 161.1

Manual Integrations
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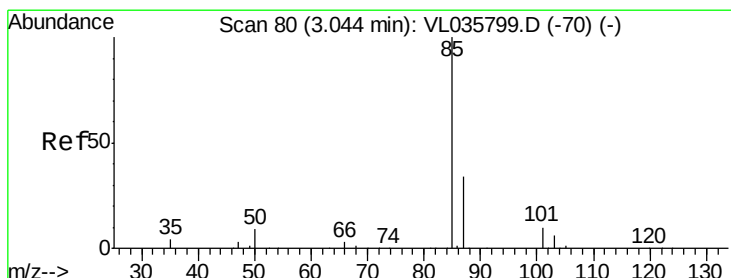
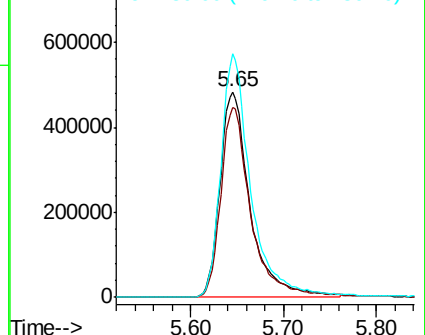
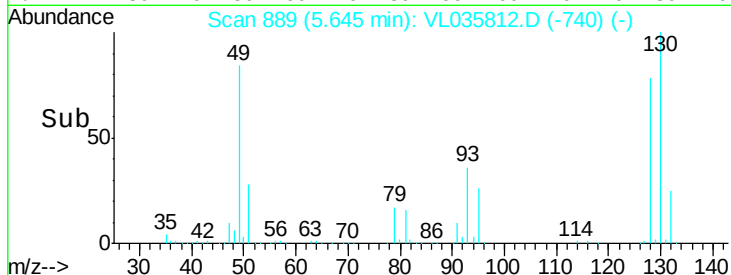
11/5/2020 2:13:53 PM



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: 0.299 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.01 min

Lab File: VL035812.D

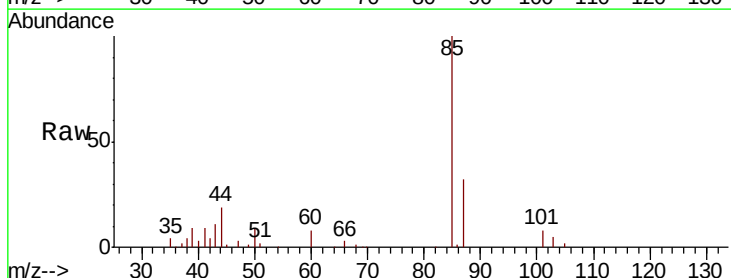
Acq: 3 Nov 2020 20:42

Tgt Ion: 85 Resp: 61748

Ion Ratio Lower Upper

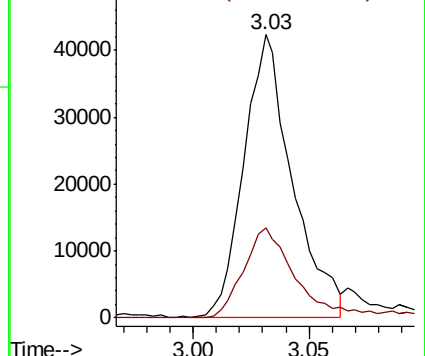
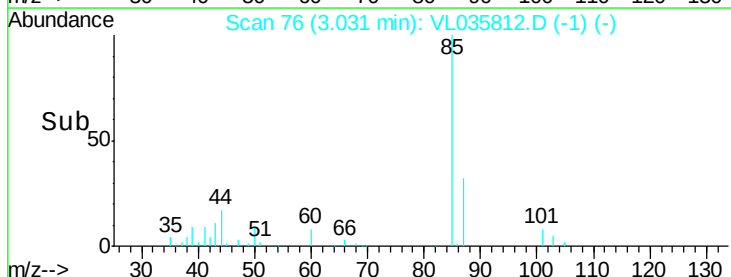
85 100

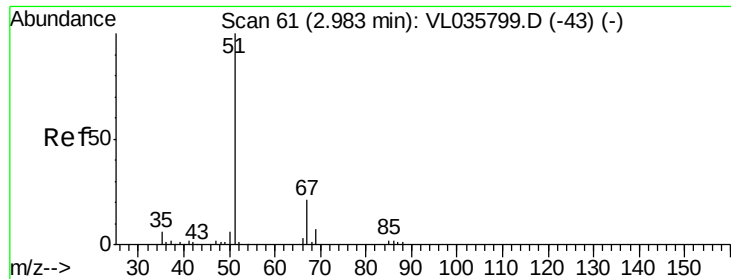
87 32.0 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.365 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.01 min

Lab File: VL035812.D

Acq: 3 Nov 2020 20:42

Instrument :

MSVOA_L

ClientSampled :

IA2

Tot Ion: 51 Resp: 47979

Ion Ratio Lower Upper

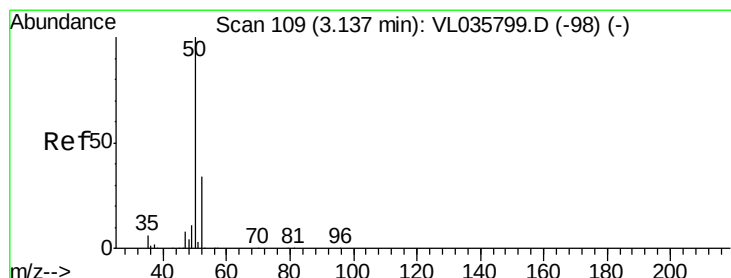
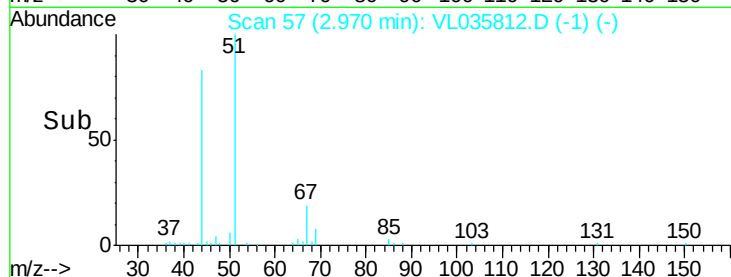
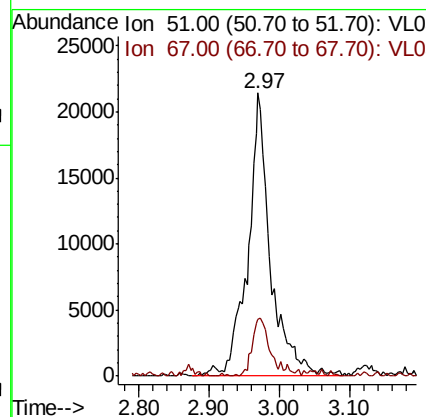
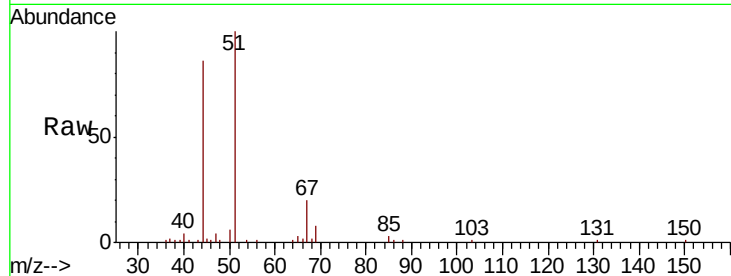
51 100

67 16.9 17.0 25.4#

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#4

Chloromethane

Concen: 0.420 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.02 min

Lab File: VL035812.D

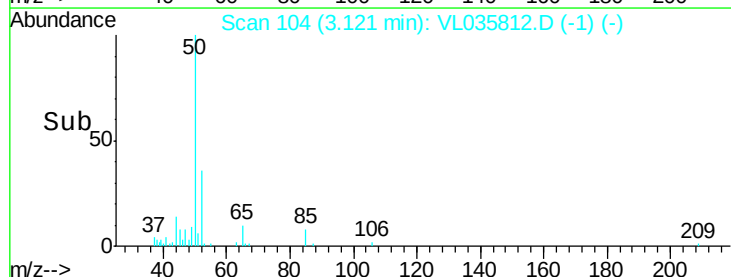
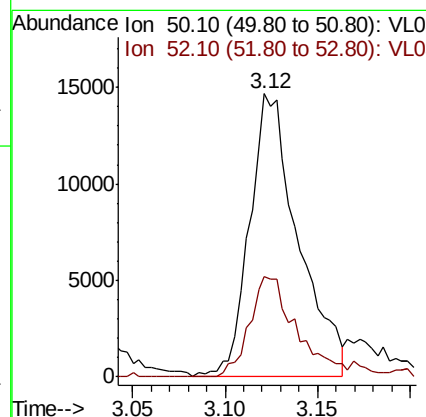
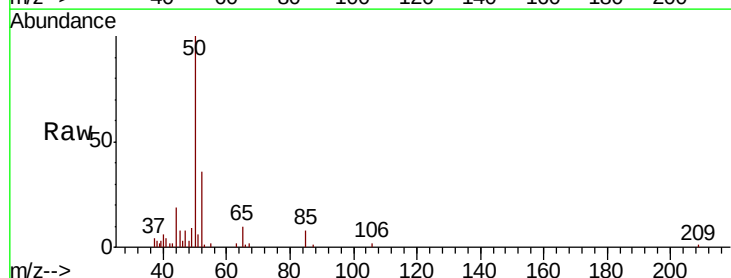
Acq: 3 Nov 2020 20:42

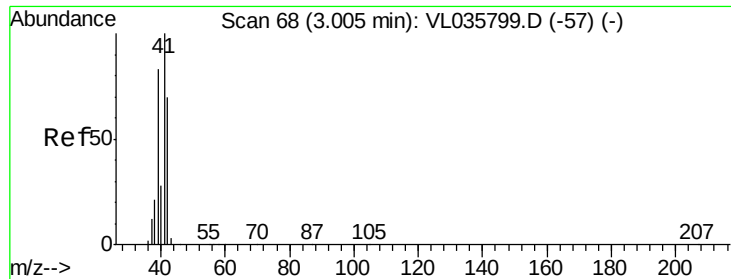
Tgt Ion: 50 Resp: 26823

Ion Ratio Lower Upper

50 100

52 35.7 27.1 40.7





#9

Propene

Concen: 0.834 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035812.D

Acq: 3 Nov 2020 20:42

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tot Ion: 41 Resp: 40133

Ion Ratio Lower Upper

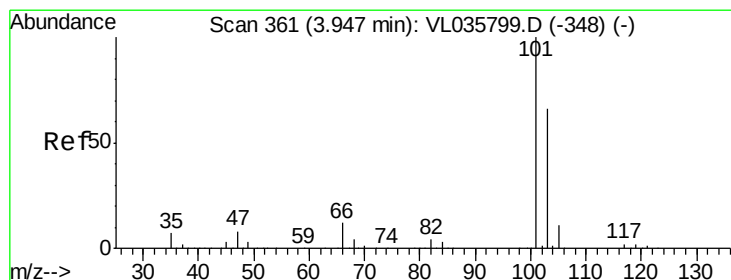
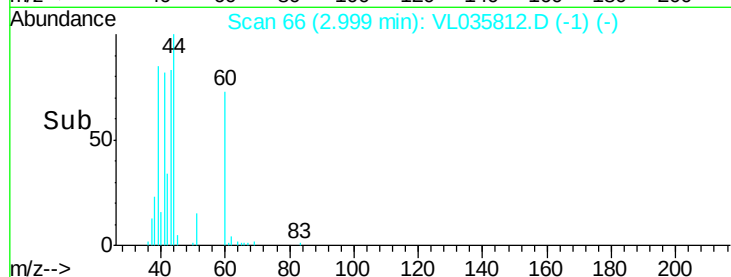
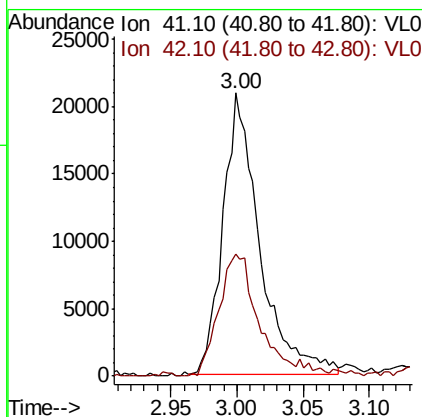
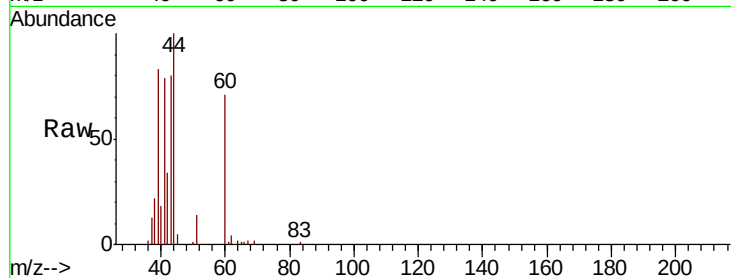
41 100

42 50.1 56.2 84.4#

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#11

Trichlorofluoromethane

Concen: 0.239 ppbv m

RT: 3.93 min Scan# 357

Delta R.T. -0.01 min

Lab File: VL035812.D

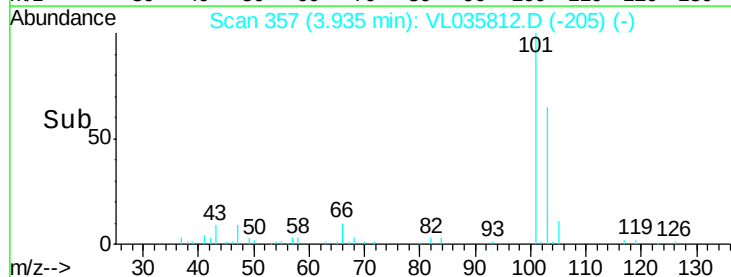
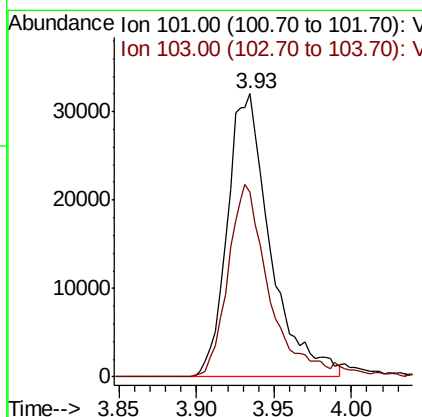
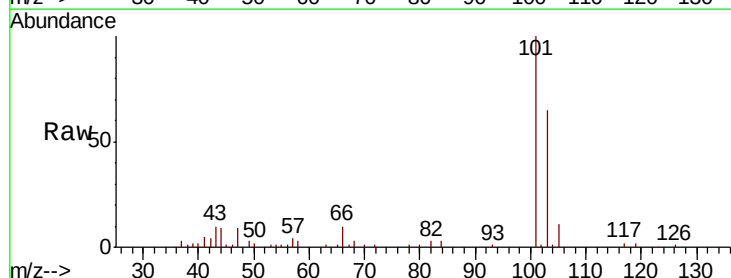
Acq: 3 Nov 2020 20:42

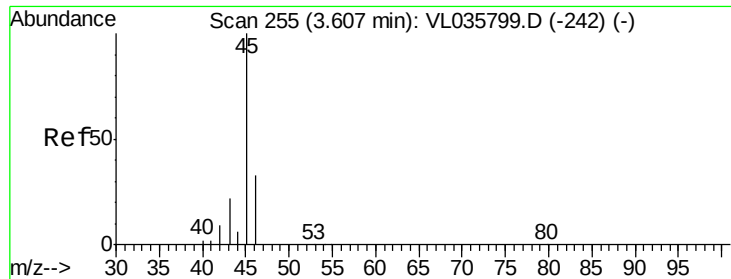
Tgt Ion: 101 Resp: 61914

Ion Ratio Lower Upper

101 100

103 65.5 53.0 79.4





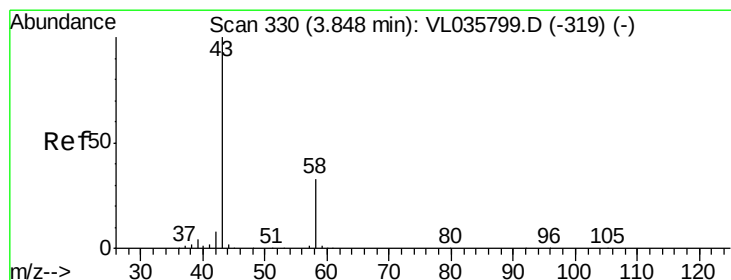
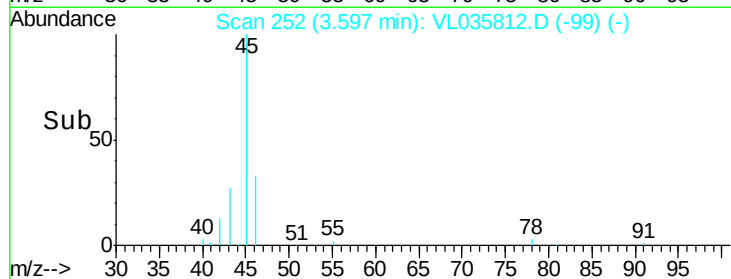
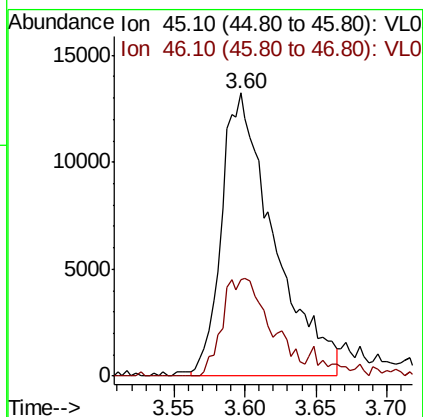
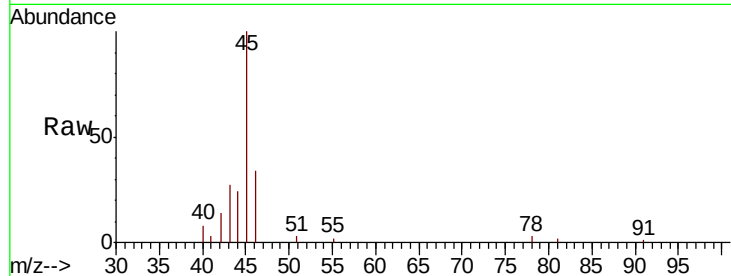
#13
Ethanol
Concen: 3.264 ppbv m
RT: 3.60 min Scan# 252
Delta R.T. -0.01 min
Lab File: VL035812.D
Acq: 3 Nov 2020 20:42

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion: 45 Resp: 34067
Ion Ratio Lower Upper
45 100
46 0.0 16.1 64.5#

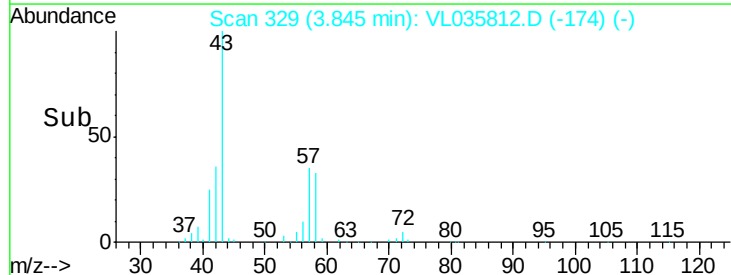
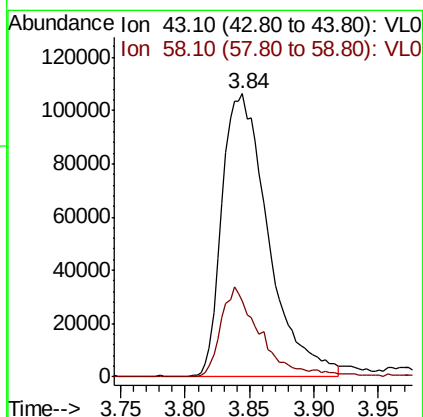
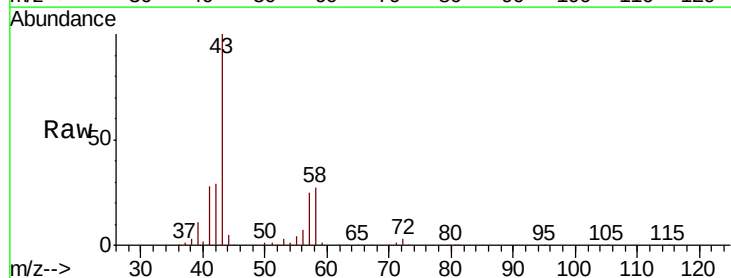
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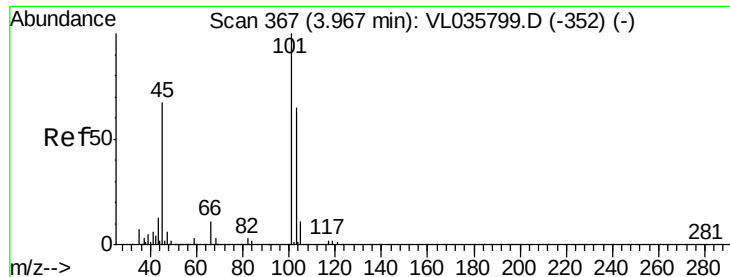
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#15
Acetone
Concen: 2.270 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.00 min
Lab File: VL035812.D
Acq: 3 Nov 2020 20:42

Tgt Ion: 43 Resp: 266321
Ion Ratio Lower Upper
43 100
58 27.4 27.5 41.3#





#19

Isopropyl Alcohol

Concen: 0.198 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.00 min

Lab File: VL035812.D

Acq: 3 Nov 2020 20:42

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tot Ion: 45 Resp: 14294

Ion Ratio Lower Upper

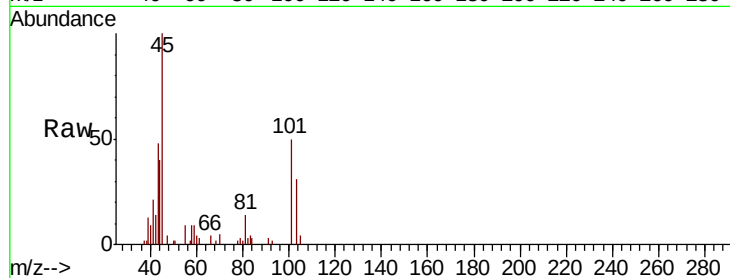
45 100

58 0.0 2.6 3.8#

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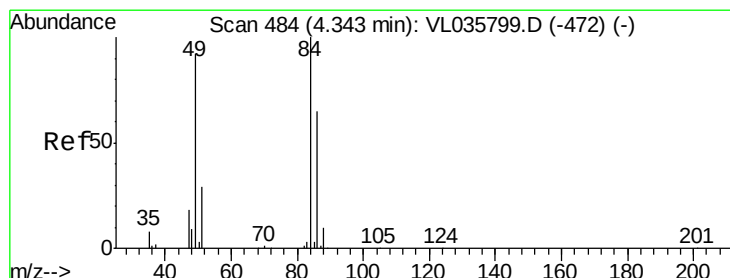
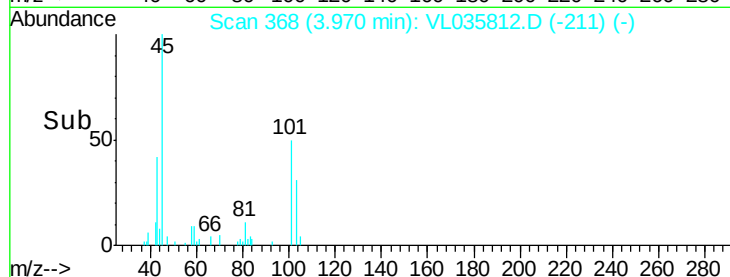
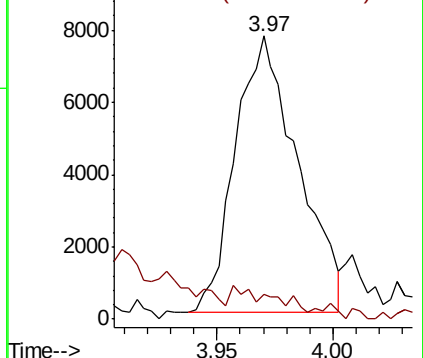
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.316 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.02 min

Lab File: VL035812.D

Acq: 3 Nov 2020 20:42

Tgt Ion: 84 Resp: 108734

Ion Ratio Lower Upper

84 100

49 84.9 73.8 110.8

51 27.5 23.0 34.4

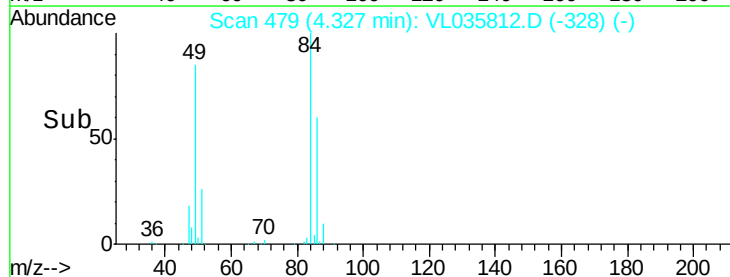
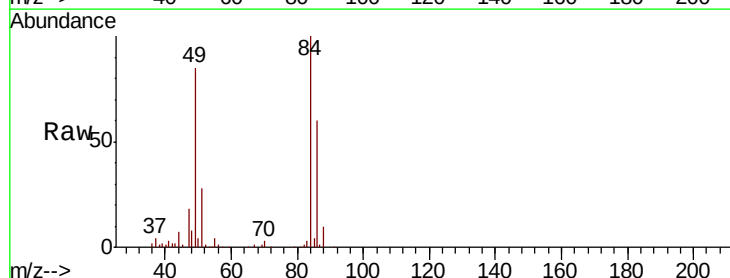
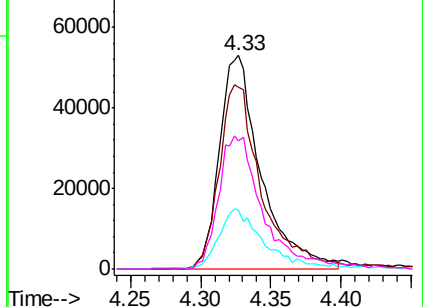
86 60.0 52.1 78.1

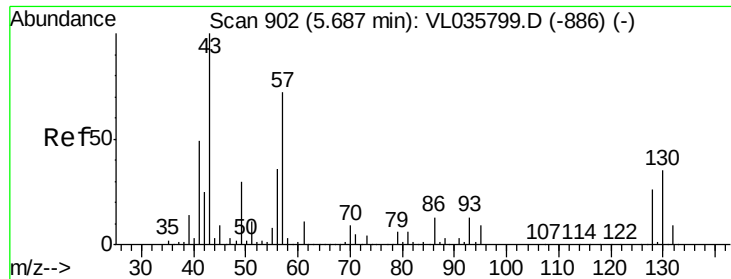
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





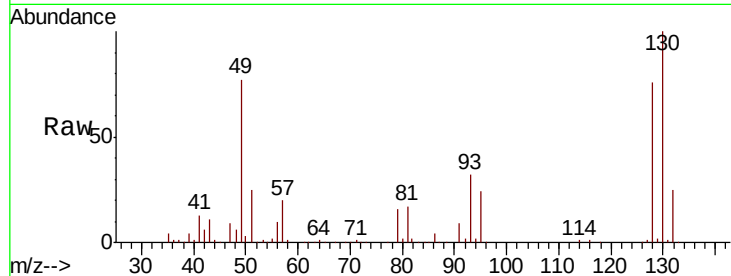
#26
Hexane
Concen: 0.625 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.02 min
Lab File: VL035812.D
Acq: 3 Nov 2020 20:42

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion	Ratio	Lower	Upper
57	100		
41	72.5	58.9	88.3
43	62.3	150.2	225.2#
56	56.4	42.4	63.6

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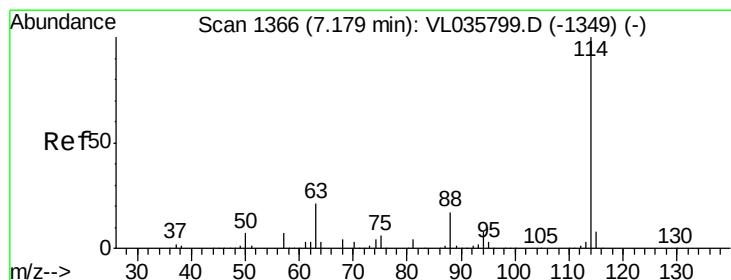
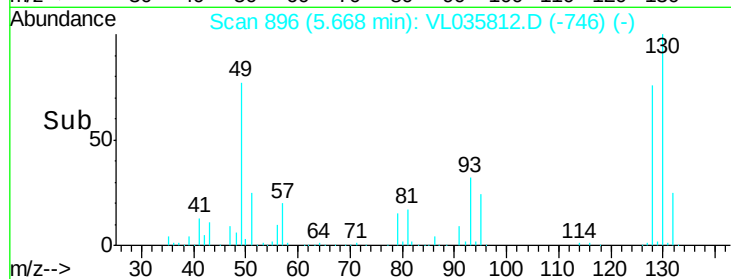
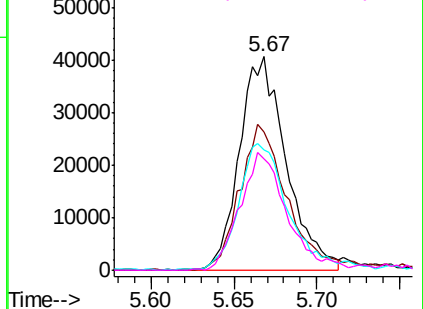
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

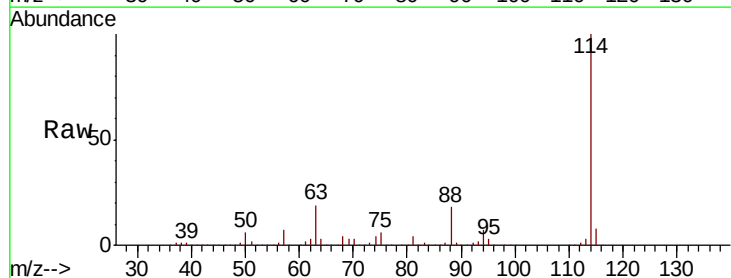
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.03 min
Lab File: VL035812.D
Acq: 3 Nov 2020 20:42

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.0	16.1	24.1
88	16.7	13.7	20.5

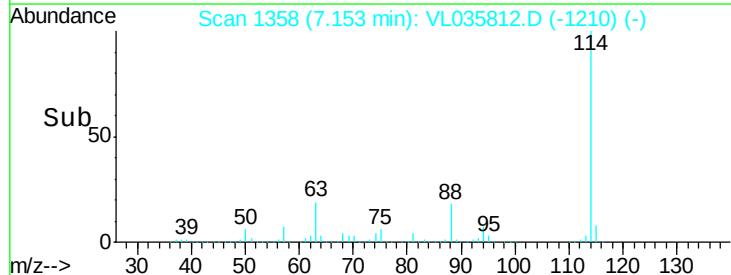
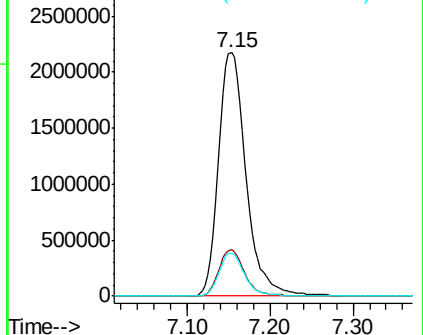


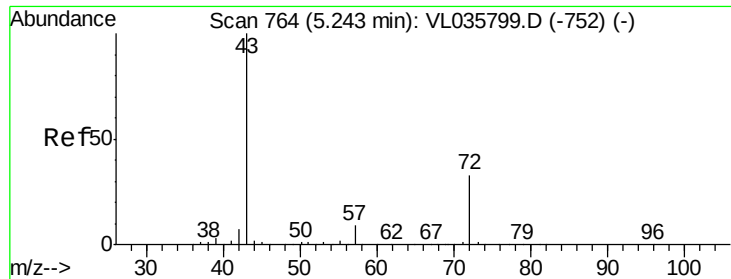
Abundance

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





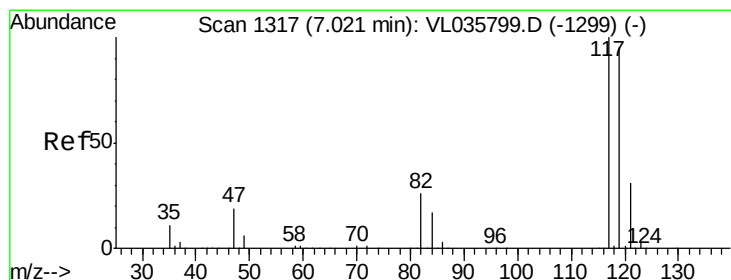
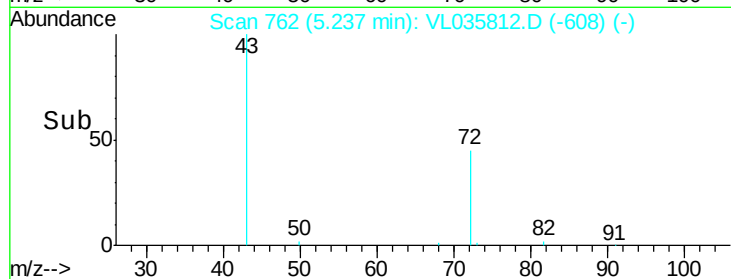
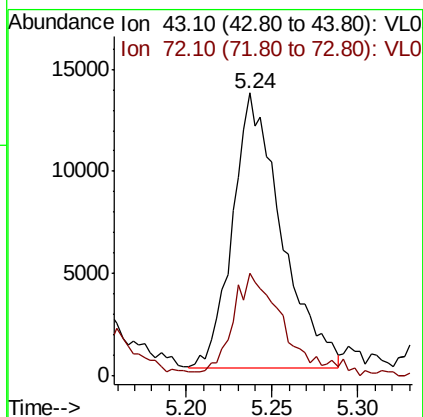
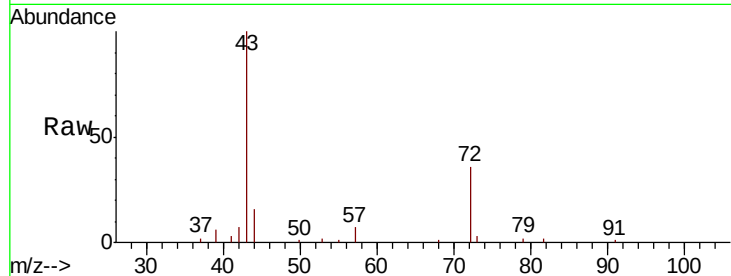
#34
2-Butanone
Concen: 0.164 ppbv
RT: 5.24 min Scan# 762
Delta R.T. -0.01 min
Lab File: VL035812.D
Acq: 3 Nov 2020 20:42

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion: 43 Resp: 26655
Ion Ratio Lower Upper
43 100
72 40.3 26.5 39.7#

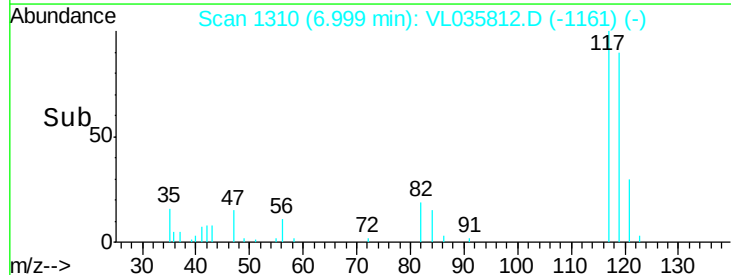
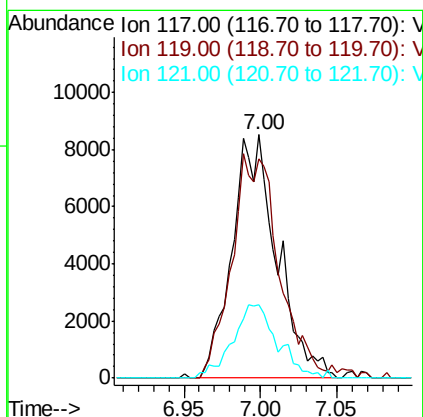
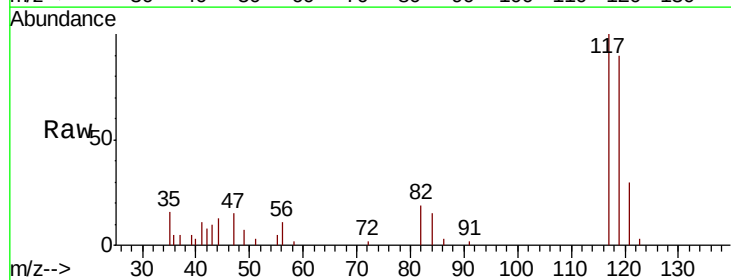
Manual Integrations
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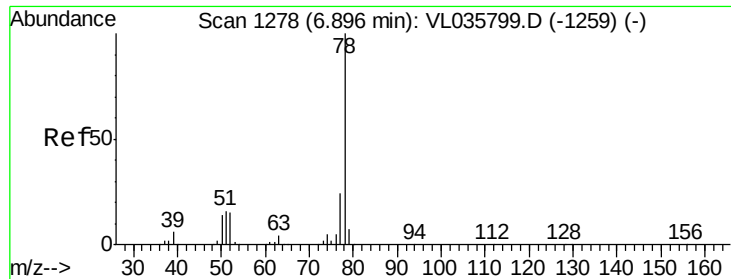
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#35
Carbon Tetrachloride
Concen: 0.064 ppbv m
RT: 7.00 min Scan# 1310
Delta R.T. -0.02 min
Lab File: VL035812.D
Acq: 3 Nov 2020 20:42

Tgt Ion: 117 Resp: 17297
Ion Ratio Lower Upper
117 100
119 90.0 75.6 113.4
121 30.1 25.1 37.7





#36

Benzene

Concen: 0.189 ppbv

RT: 6.87 min Scan# 1269

Delta R.T. -0.03 min

Lab File: VL035812.D

Acq: 3 Nov 2020 20:42

Instrument :

MSVOA_L

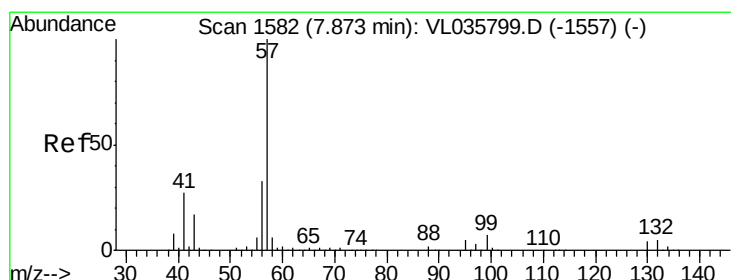
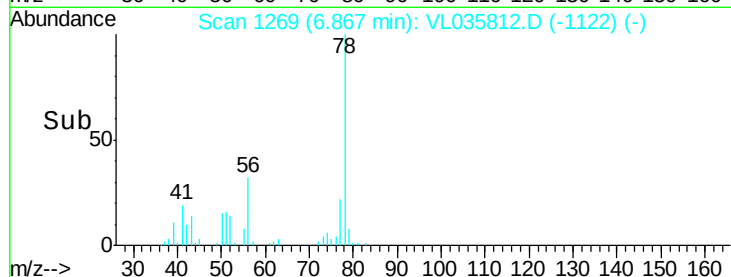
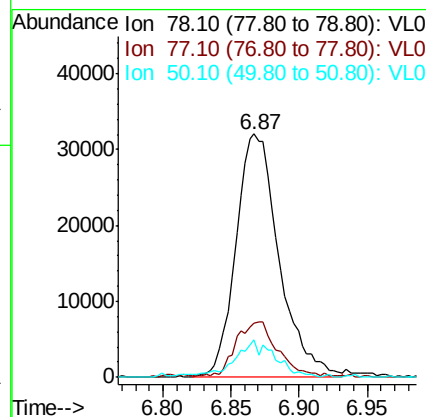
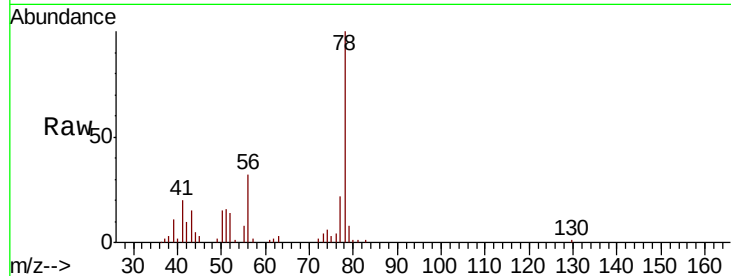
ClientSampleId :

IA2

Tot Ion:	78	Resp:	70565
Ion	Ratio	Lower	Upper
78	100		
77	21.7	19.3	28.9
50	15.4	11.4	17.2

Manual Integrations
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#44

2,2,4-Trimethylpentane

Concen: 0.141 ppbv

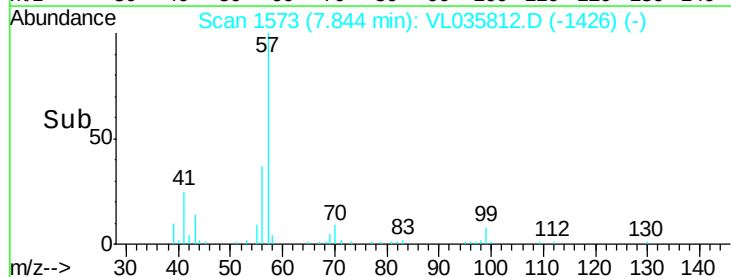
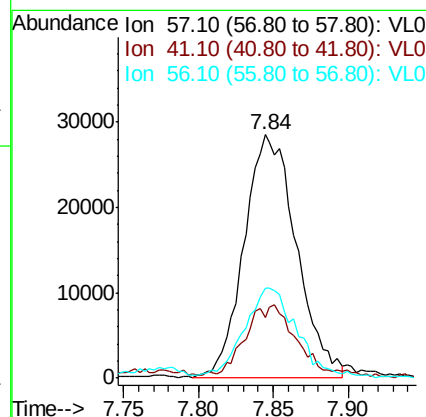
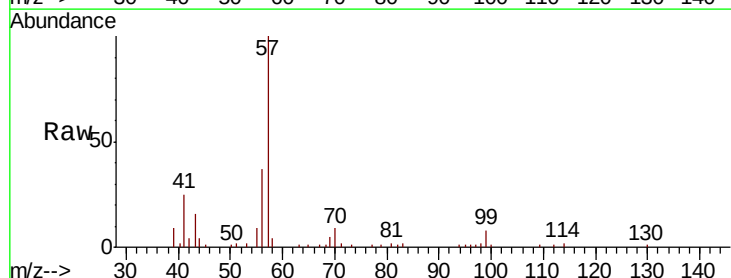
RT: 7.84 min Scan# 1573

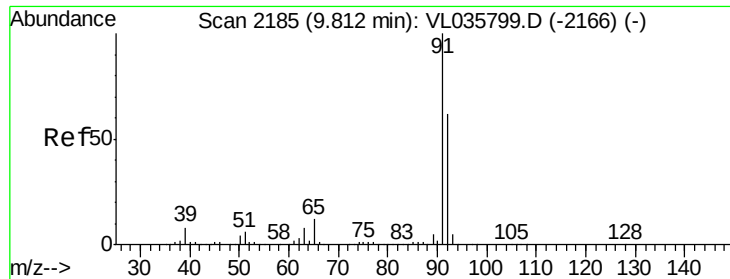
Delta R.T. -0.03 min

Lab File: VL035812.D

Acq: 3 Nov 2020 20:42

Tgt Ion:	57	Resp:	69438
Ion	Ratio	Lower	Upper
57	100		
41	28.9	21.0	31.4
56	38.2	25.4	38.0#





#53

Toluene

Concen: 0.616 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.03 min

Lab File: VL035812.D

Acq: 3 Nov 2020 20:42

Instrument :

MSVOA_L

ClientSampled :

IA2

Tot Ion: 91 Resp: 277347

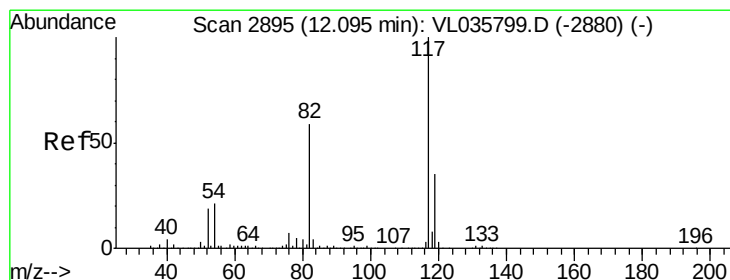
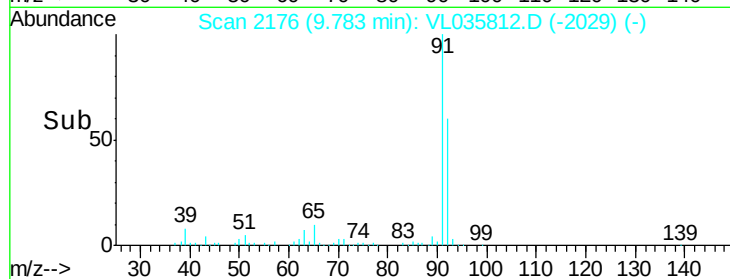
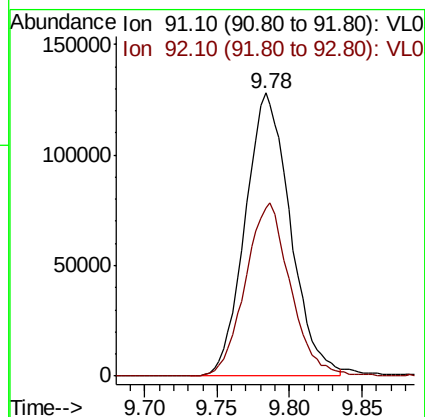
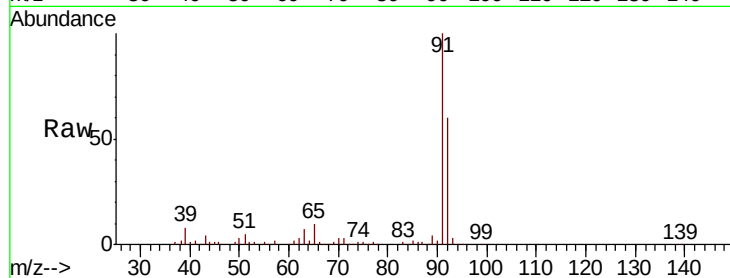
Ion Ratio Lower Upper

91 100

92 61.3 49.8 74.6

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.03 min

Lab File: VL035812.D

Acq: 3 Nov 2020 20:42

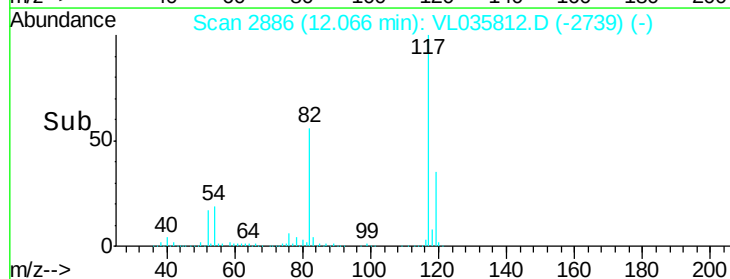
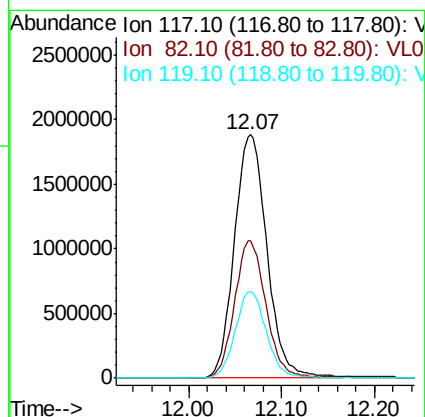
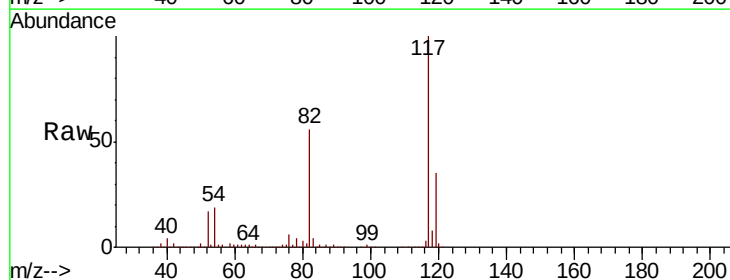
Tgt Ion: 117 Resp: 4602756

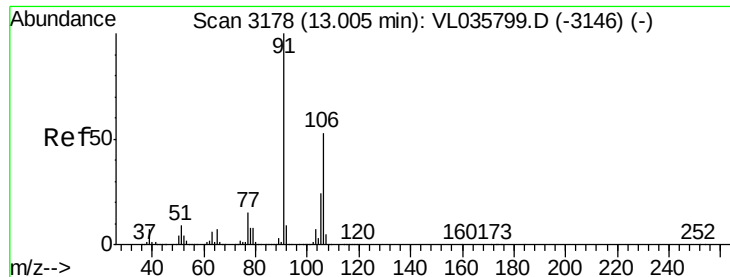
Ion Ratio Lower Upper

117 100

82 55.3 50.6 76.0

119 34.6 52.6 78.8#





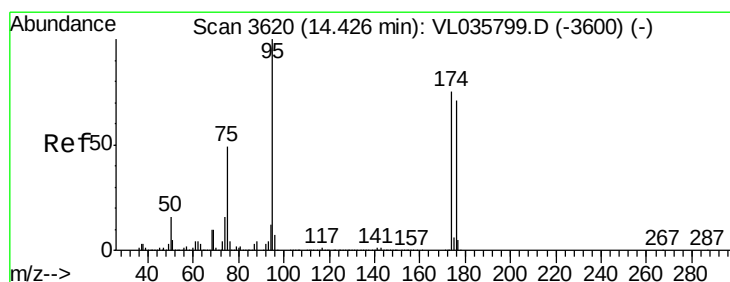
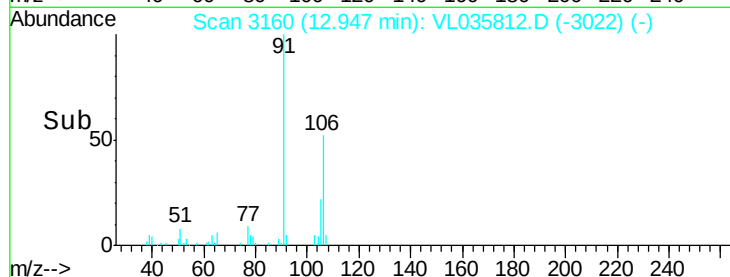
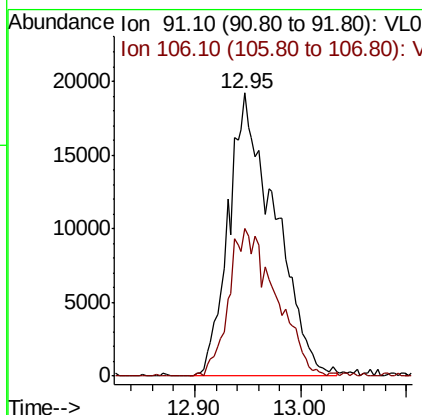
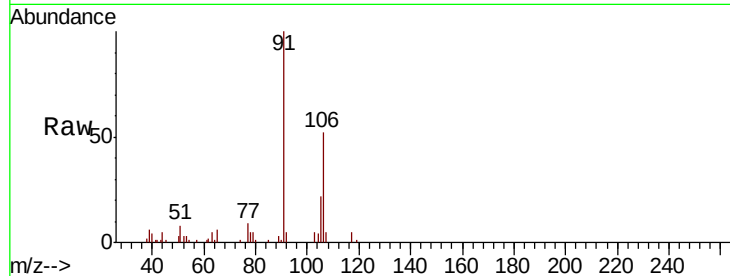
#59
m/p-Xylene
Concen: 0.123 ppbv m
RT: 12.95 min Scan# 3160
Delta R.T. -0.06 min
Lab File: VL035812.D
Acq: 3 Nov 2020 20:42

Instrument :
MSVOA_L
ClientSampled :
IA2

Tot Ion: 91 Resp: 58573
Ion Ratio Lower Upper
91 100
106 0.0 39.5 59.3#

Manual Integrations
APPROVED

MMDadoda
11/5/2020 2:13:53 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.879 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. -0.03 min
Lab File: VL035812.D
Acq: 3 Nov 2020 20:42

Tgt Ion: 95 Resp: 3230646
Ion Ratio Lower Upper
95 100
174 77.3 59.8 89.6
175 5.5 4.3 6.5

