

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091620\
 Data File : VL035645.D
 Acq On : 17 Sep 2020 2:20
 Operator : SY/AP
 Sample : L3983-06
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-11

Manual Integrations
 APPROVED

MMDadoda
 9/17/2020 1:53:00 PM

Quant Time: Sep 17 10:47:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 15:19:50 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1072562	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4187693	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4050138	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3036378	10.56	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	63097	0.339	ppbv	97
3) Chlorodifluoromethane	2.98	51	61884m	0.522	ppbv	
4) Chloromethane	3.13	50	53977	0.849	ppbv	92
9) Propene	3.01	41	33963	0.743	ppbv	85
11) Trichlorofluoromethane	3.94	101	67826	0.250	ppbv	96
13) Ethanol	3.60	45	126776	11.181	ppbv	98
15) Acetone	3.84	43	816378	6.901	ppbv #	85
19) Isopropyl Alcohol	3.97	45	73482	1.041	ppbv #	93
20) Methylene Chloride	4.34	84	496750	5.638	ppbv	95
26) Hexane	5.69	57	115474	0.975	ppbv #	49
34) 2-Butanone	5.25	43	110989	0.893	ppbv	96
35) Carbon Tetrachloride	7.01	117	11060	0.053	ppbv	92
38) Trichloroethene	7.83	130	5049m	0.032	ppbv	
52) Tetrachloroethene	11.23	164	22475	0.142	ppbv	91

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

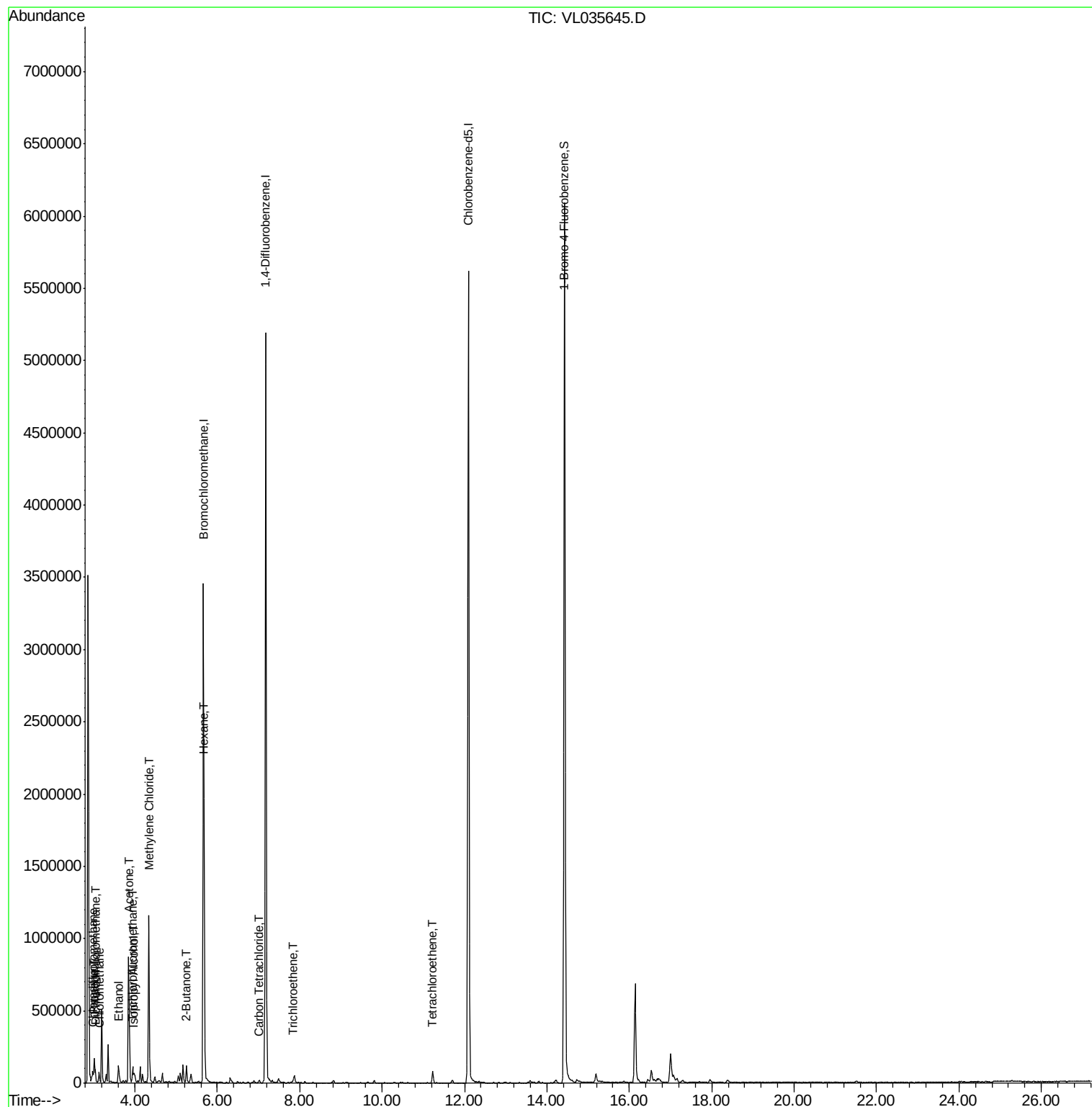
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091620\
Data File : VL035645.D
Acq On : 17 Sep 2020 2:20
Operator : SY/AP
Sample : L3983-06
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

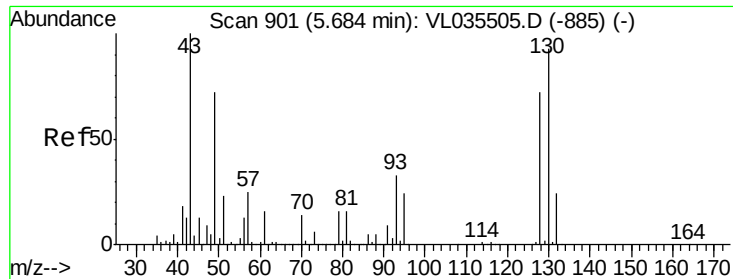
Instrument :
MSVOA_L
ClientSampleId :
SV-11

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9/17/2020 1:53:00 PM

Quant Time: Sep 17 10:47:44 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL035645.D

Acq: 17 Sep 2020 2:20

Instrument :

MSVOA_L

ClientSampleId :

SV-11

Tot Ion: 49 Resp: 1072562

Ion Ratio Lower Upper

49 100

128 89.4 50.0 150.1

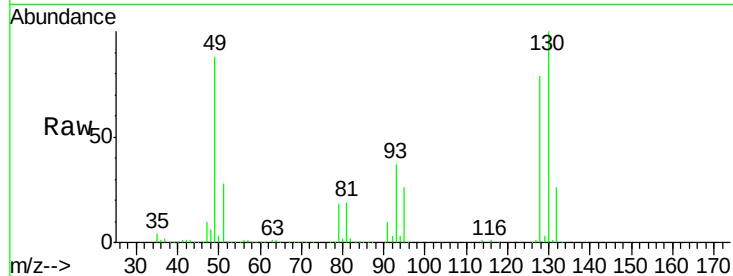
130 114.1 64.4 193.2

Manual Integrations

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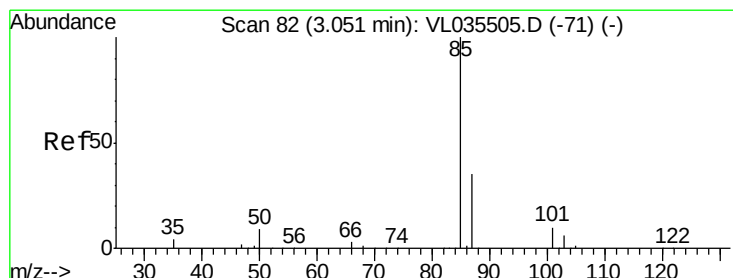
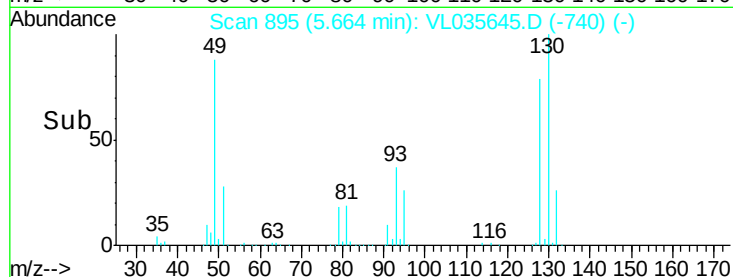
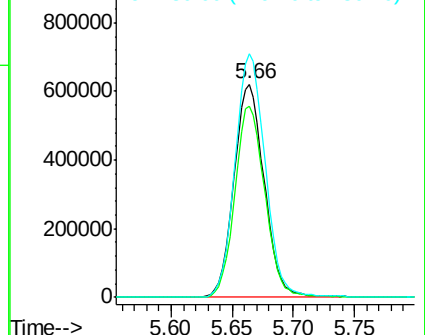
9/17/2020 1:53:00 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.339 ppbv

RT: 3.04 min Scan# 79

Delta R.T. 0.01 min

Lab File: VL035645.D

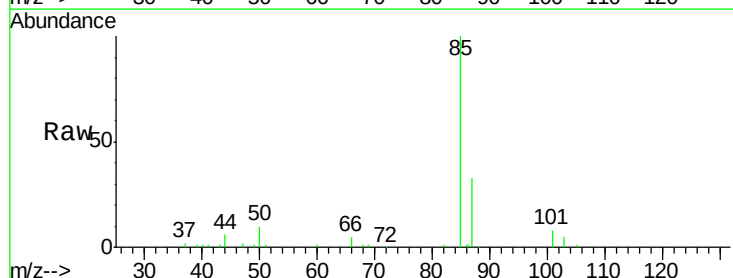
Acq: 17 Sep 2020 2:20

Tgt Ion: 85 Resp: 63097

Ion Ratio Lower Upper

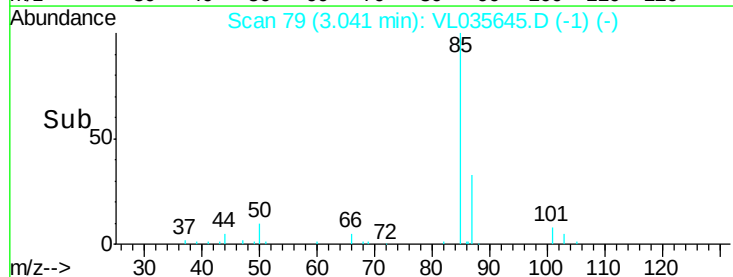
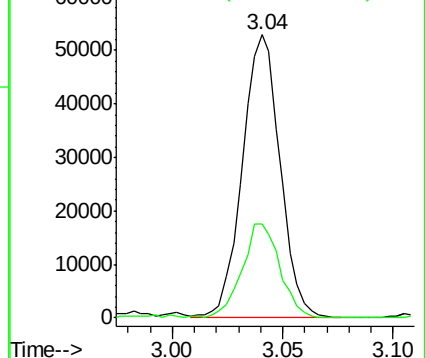
85 100

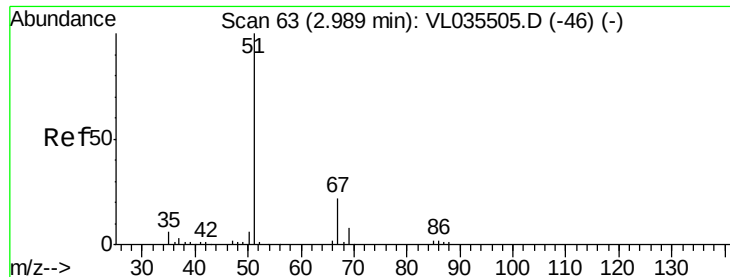
87 33.0 28.0 42.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

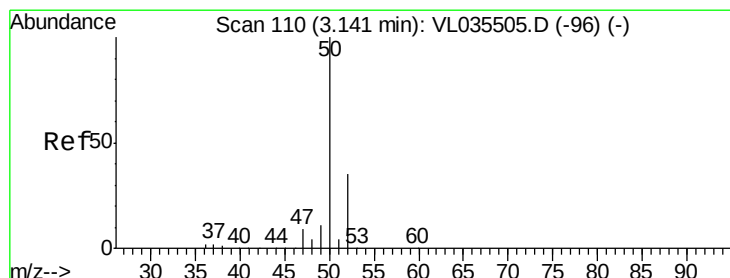
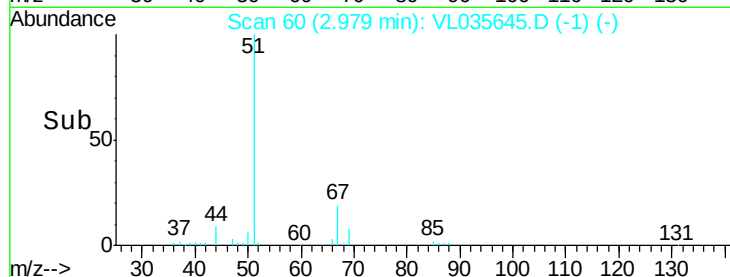
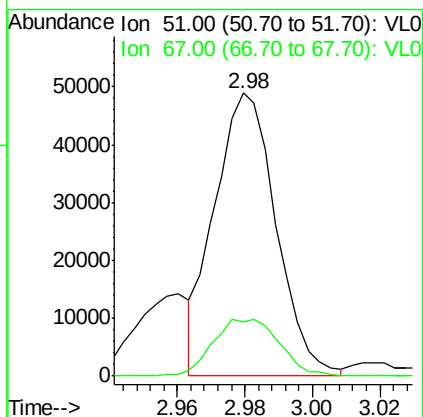
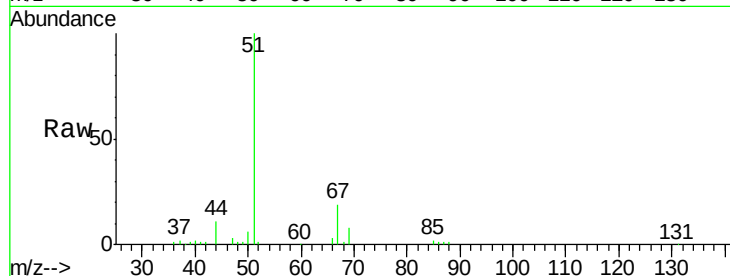
Chlorodifluoromethane
 Concen: 0.522 ppbv
 RT: 2.98 min Scan# 60
 Delta R.T. 0.01 min
 Lab File: VL035645.D
 Acq: 17 Sep 2020 2:20

Instrument :
 MSVOA_L
 ClientSampled :
 SV-11

Tot Ion	51	Resp	61884
Ion Ratio	100	Lower	Upper
51	100		
67	21.7	17.8	26.8

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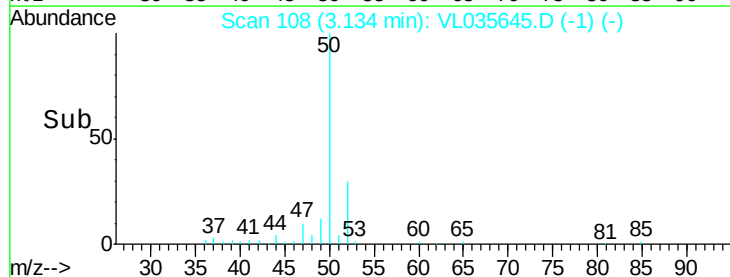
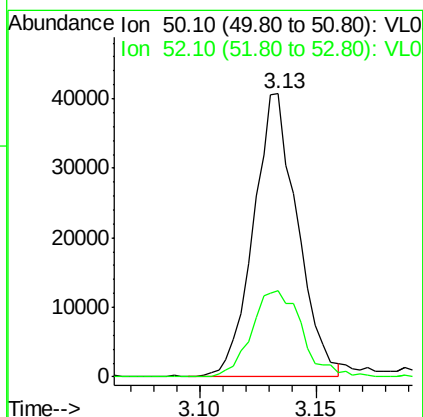
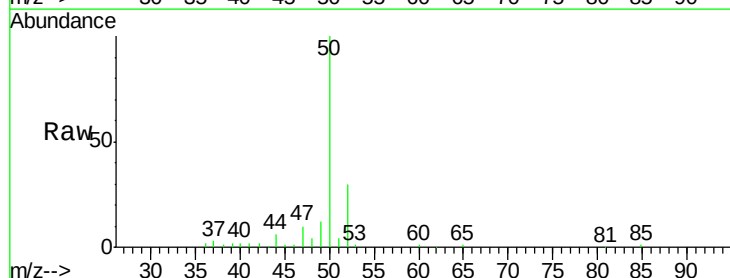
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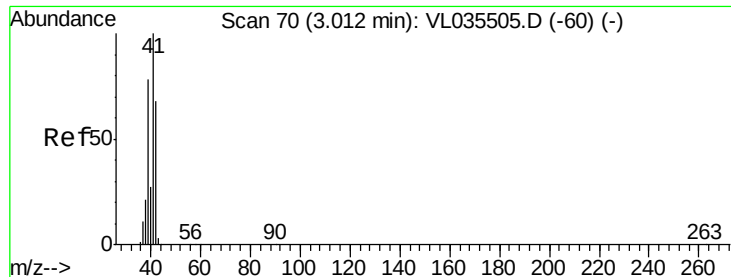


#4

Chloromethane
 Concen: 0.849 ppbv
 RT: 3.13 min Scan# 108
 Delta R.T. 0.01 min
 Lab File: VL035645.D
 Acq: 17 Sep 2020 2:20

Tgt Ion	50	Resp	53977
Ion Ratio	100	Lower	Upper
50	100		
52	30.3	27.7	41.5





#9

Propene

Concen: 0.743 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.01 min

Lab File: VL035645.D

Acq: 17 Sep 2020 2:20

Instrument :

MSVOA_L

ClientSampleId :

SV-11

Tot Ion: 41 Resp: 33963

Ion Ratio Lower Upper

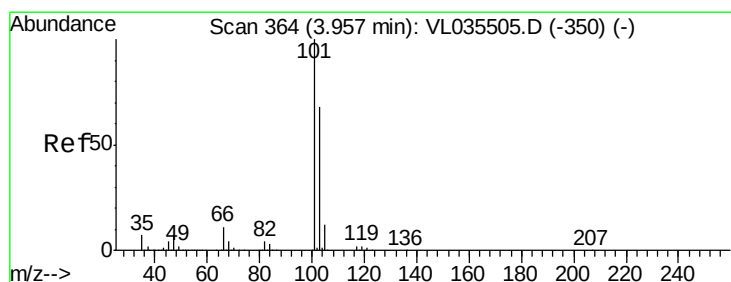
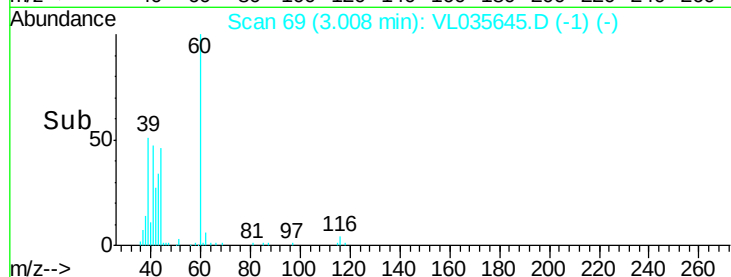
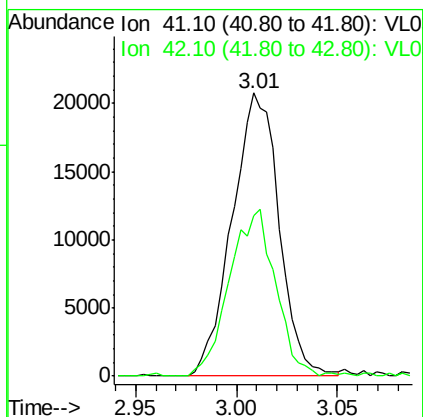
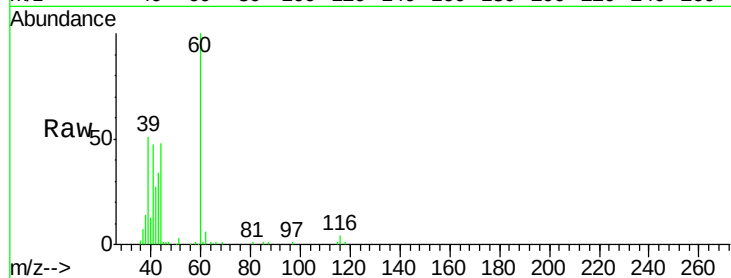
41 100

42 58.2 56.3 84.5

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#11

Trichlorofluoromethane

Concen: 0.250 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.00 min

Lab File: VL035645.D

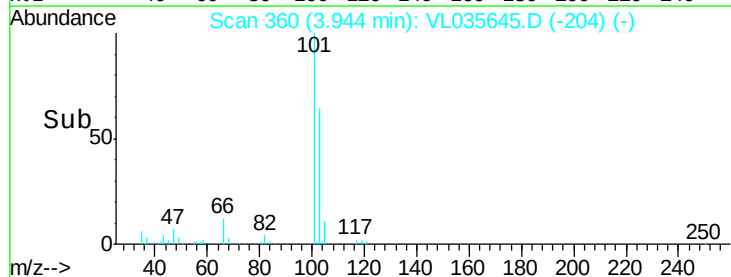
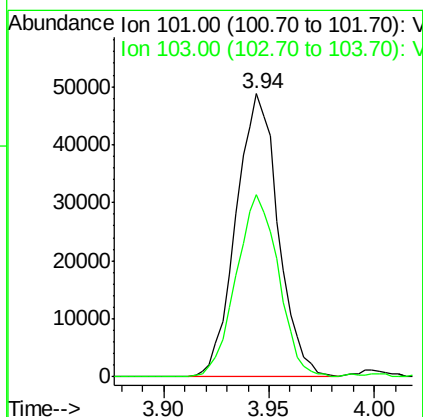
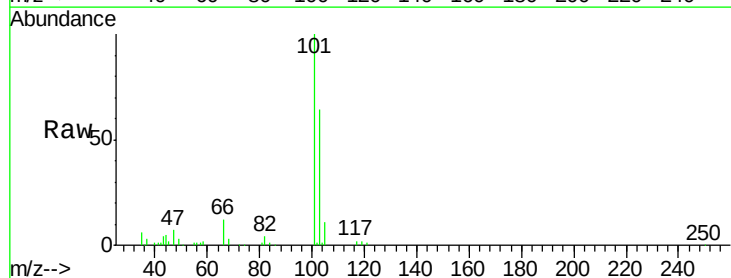
Acq: 17 Sep 2020 2:20

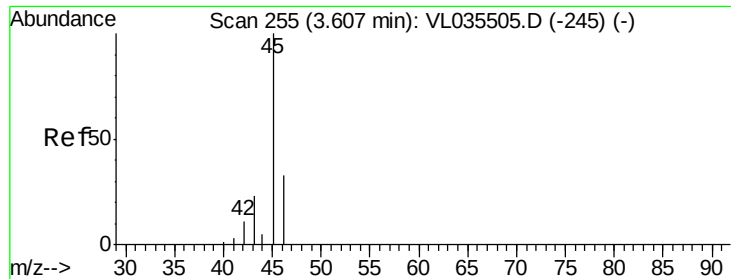
Tgt Ion: 101 Resp: 67826

Ion Ratio Lower Upper

101 100

103 64.5 54.5 81.7





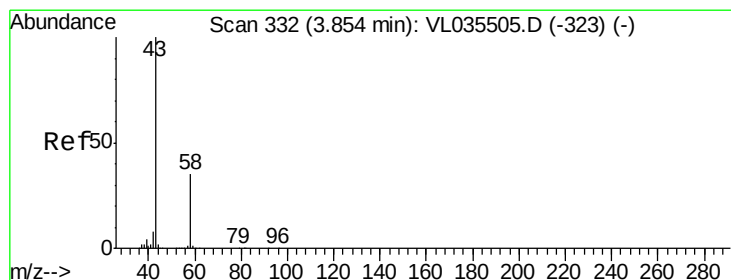
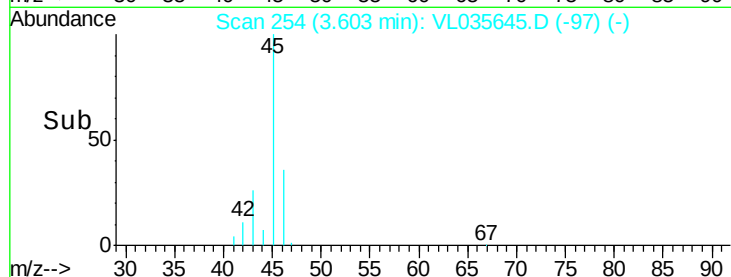
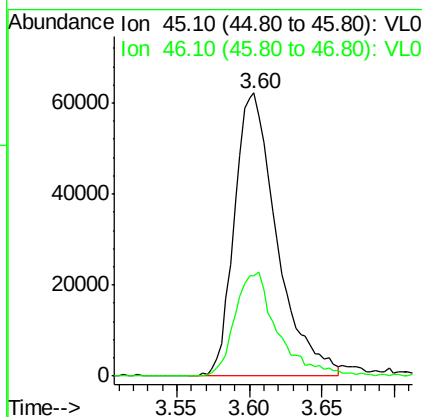
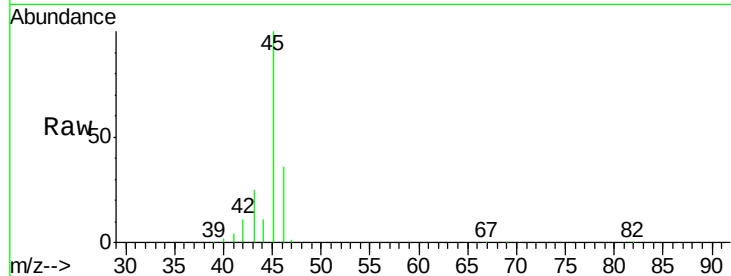
#13
Ethanol
Concen: 11.181 ppbv
RT: 3.60 min Scan# 254
Delta R.T. 0.01 min
Lab File: VL035645.D
Acq: 17 Sep 2020 2:20

Instrument :
MSVOA_L
ClientSampleId :
SV-11

Tot Ion: 45 Resp: 126776
Ion Ratio Lower Upper
45 100
46 37.0 15.2 60.6

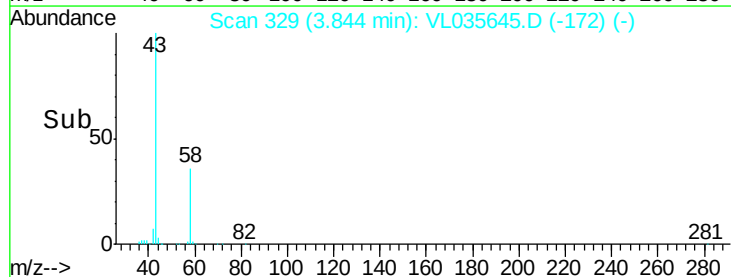
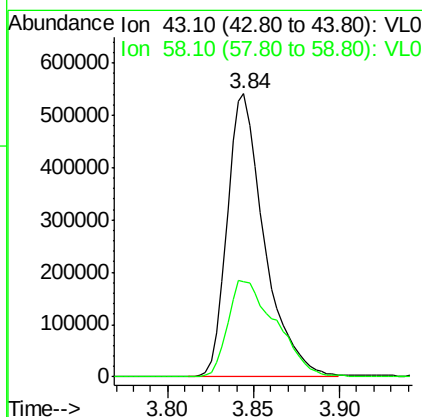
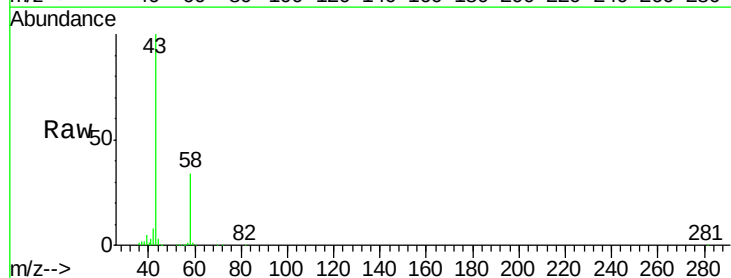
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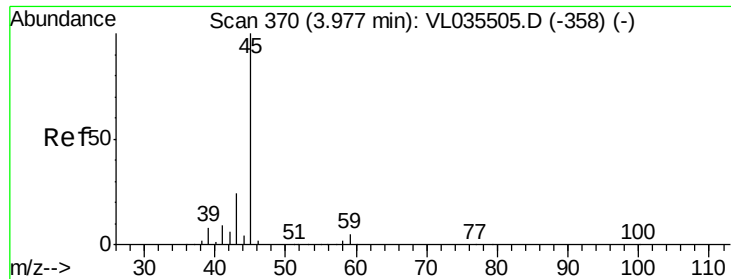
MMDadoda
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#15
Acetone
Concen: 6.901 ppbv
RT: 3.84 min Scan# 329
Delta R.T. 0.01 min
Lab File: VL035645.D
Acq: 17 Sep 2020 2:20

Tgt Ion: 43 Resp: 816378
Ion Ratio Lower Upper
43 100
58 44.2 28.4 42.6#





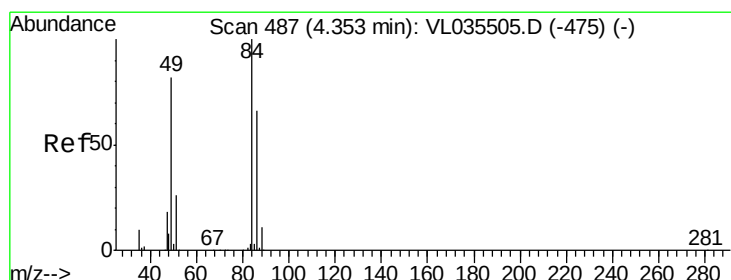
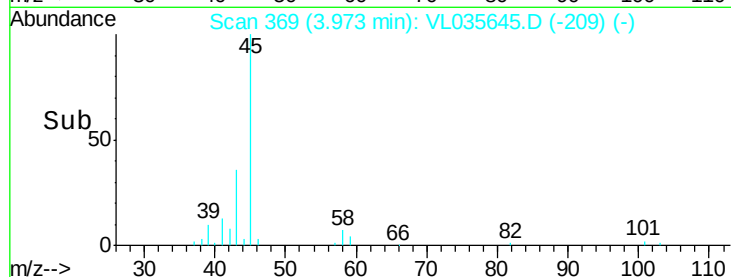
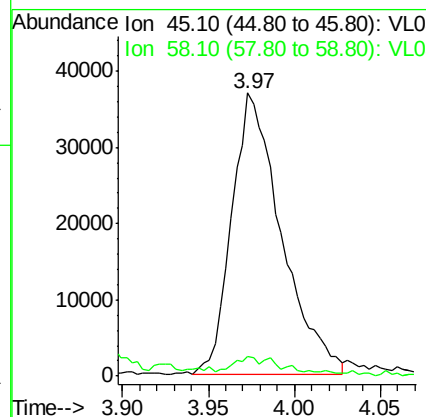
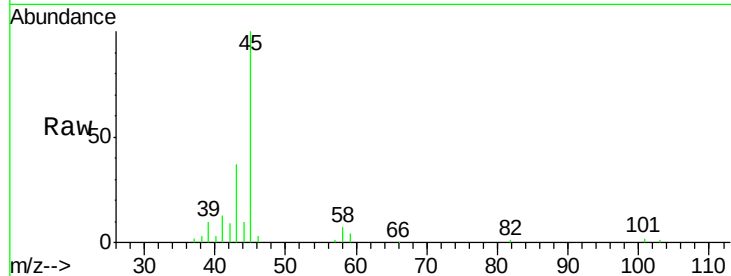
#19
Isopropyl Alcohol
Concen: 1.041 ppbv
RT: 3.97 min Scan# 369
Delta R.T. 0.02 min
Lab File: VL035645.D
Acq: 17 Sep 2020 2:20

Instrument :
MSVOA_L
ClientSampleId :
SV-11

Tot Ion: 45 Resp: 73482
Ion Ratio Lower Upper
45 100
58 0.0 2.0 3.0#

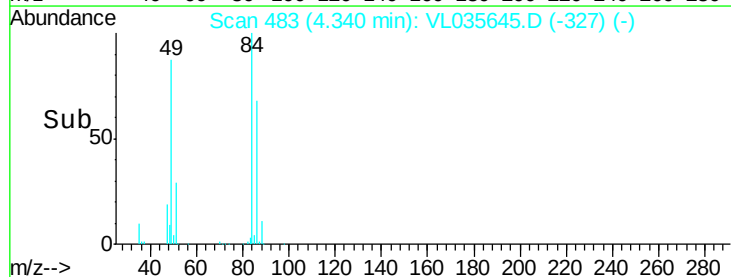
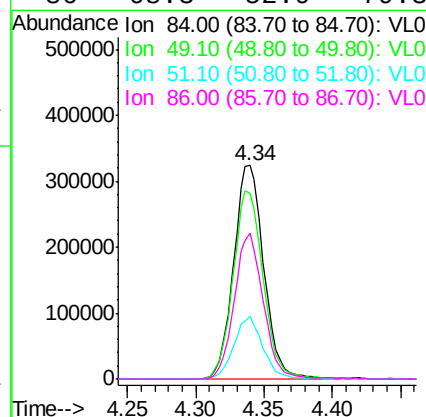
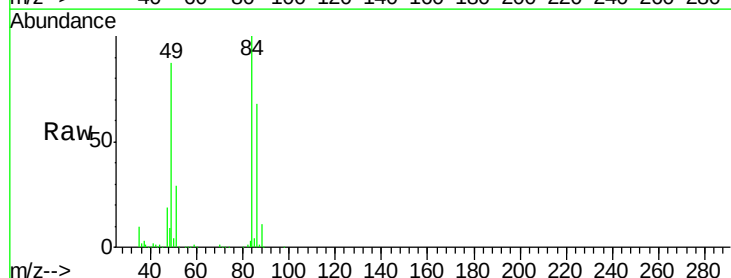
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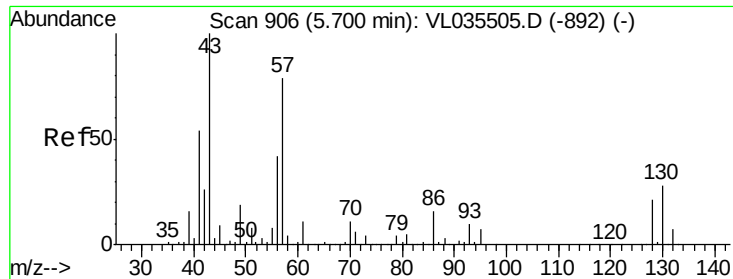
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#20
Methylene Chloride
Concen: 5.638 ppbv
RT: 4.34 min Scan# 483
Delta R.T. 0.00 min
Lab File: VL035645.D
Acq: 17 Sep 2020 2:20

Tgt Ion: 84 Resp: 496750
Ion Ratio Lower Upper
84 100
49 87.2 65.4 98.0
51 29.1 21.5 32.3
86 68.3 52.9 79.3





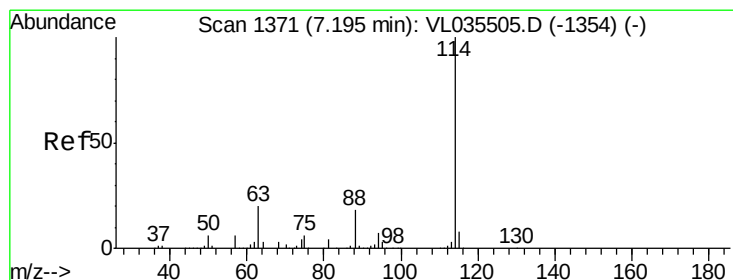
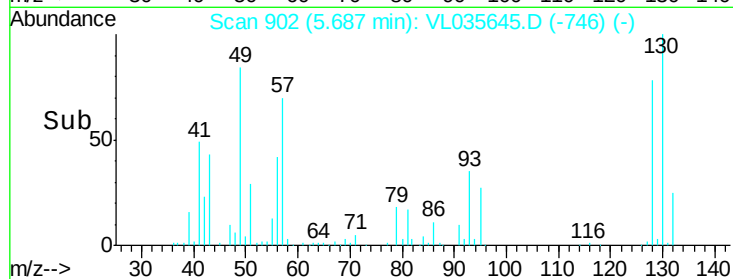
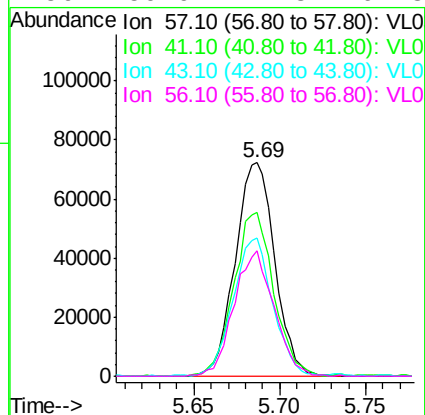
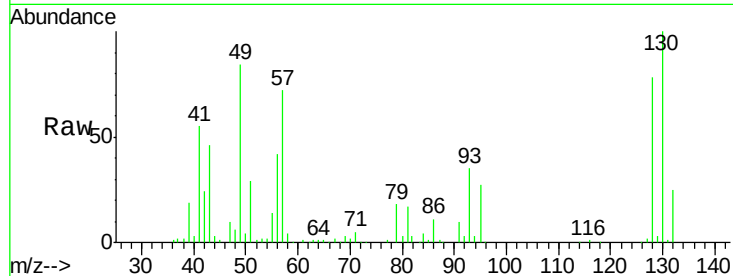
#26
Hexane
Concen: 0.975 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL035645.D
Acq: 17 Sep 2020 2:20

Instrument :
MSVOA_L
ClientSampled :
SV-11

Tot Ion	Ion	Ratio	Lower	Upper
57	100			
41	78.2	55.9	83.9	
43	66.4	141.8	212.8	
56	59.9	41.8	62.8	

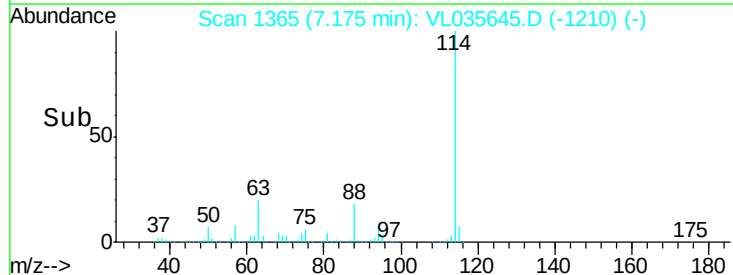
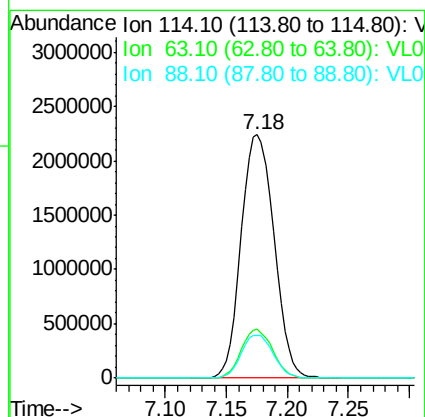
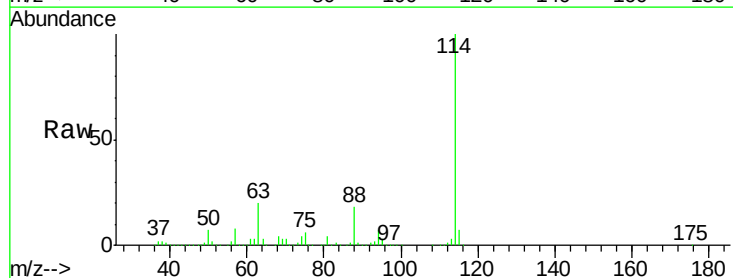
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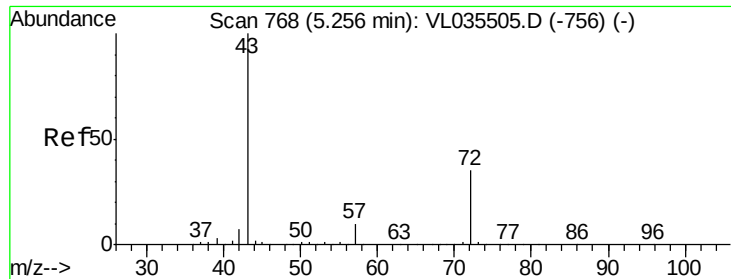
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.00 min
Lab File: VL035645.D
Acq: 17 Sep 2020 2:20

Tgt Ion	Ion	Ratio	Lower	Upper
114	100			
63	19.2	14.7	22.1	
88	17.2	13.4	20.2	





#34

2-Butanone

Concen: 0.893 ppbv

RT: 5.25 min Scan# 766

Delta R.T. 0.01 min

Lab File: VL035645.D

Acq: 17 Sep 2020 2:20

Instrument :

MSVOA_L

ClientSampled :

SV-11

Tot Ion: 43 Resp: 110989

Ion Ratio Lower Upper

43 100

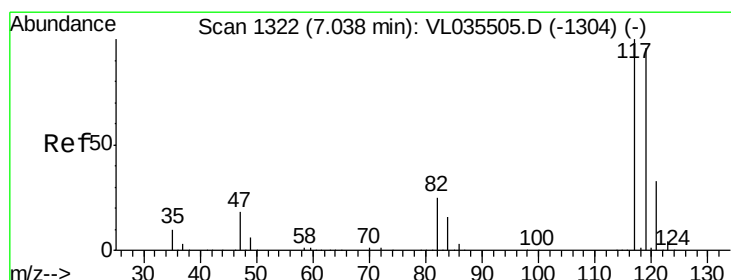
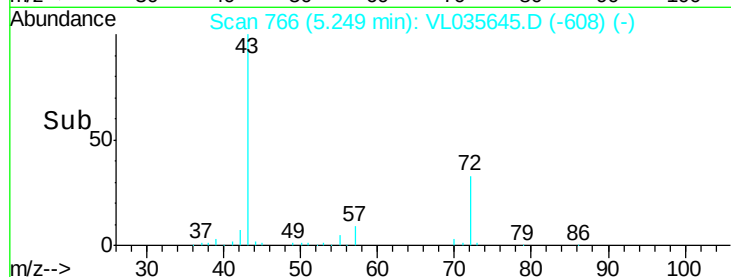
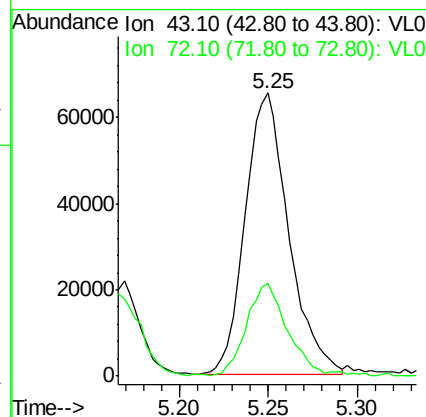
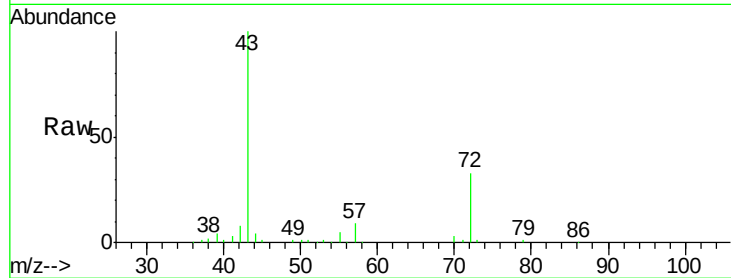
72 32.3 27.7 41.5

Manual Integrations

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#35

Carbon Tetrachloride

Concen: 0.053 ppbv

RT: 7.01 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VL035645.D

Acq: 17 Sep 2020 2:20

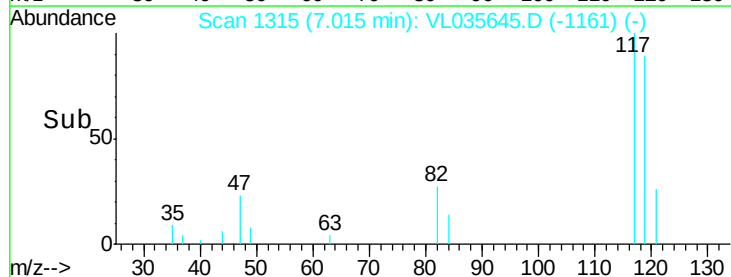
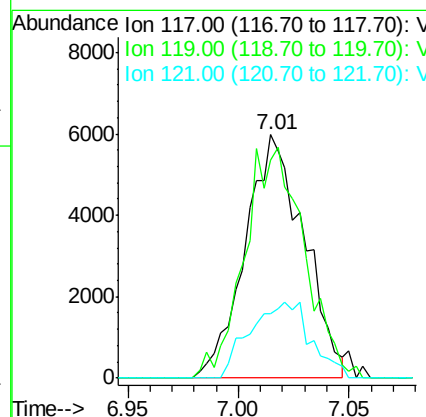
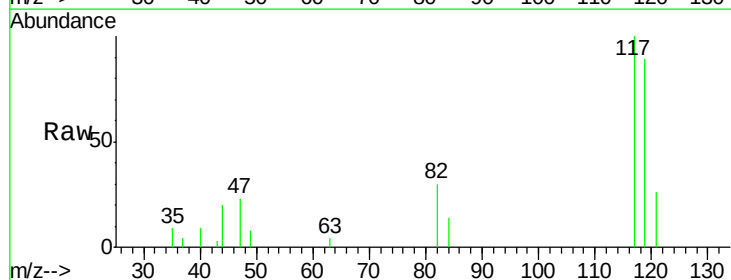
Tgt Ion: 117 Resp: 11060

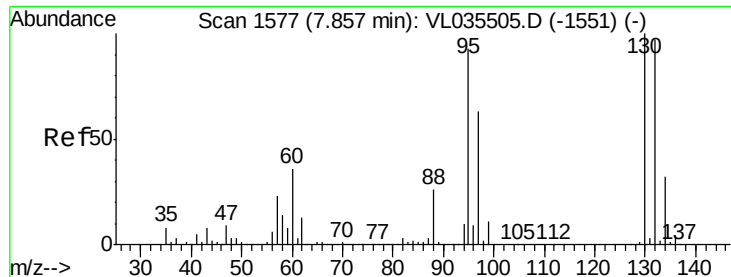
Ion Ratio Lower Upper

117 100

119 89.4 77.2 115.8

121 26.3 26.1 39.1





#38

Trichloroethene

Concen: 0.032 ppbv m

RT: 7.83 min Scan# 1569

Delta R.T. -0.01 min

Lab File: VL035645.D

Acq: 17 Sep 2020 2:20

Instrument :

MSVOA_L

ClientSampleId :

SV-11

Tot Ion:130 Resp: 5049

Ion Ratio Lower Upper

130 100

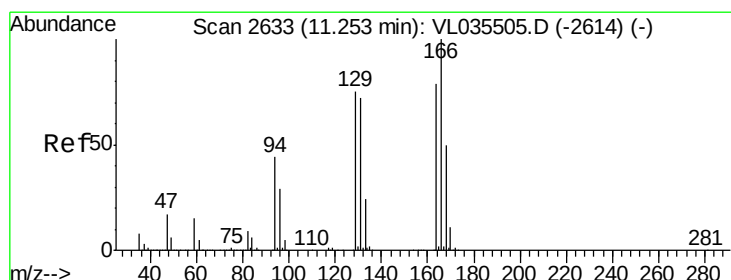
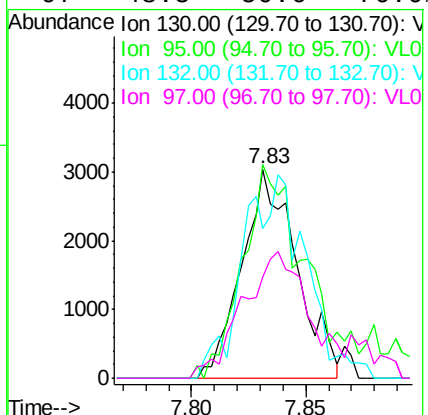
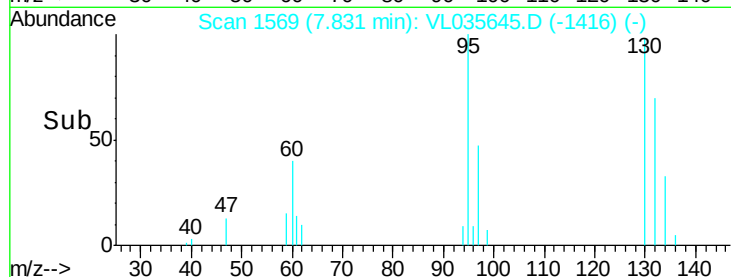
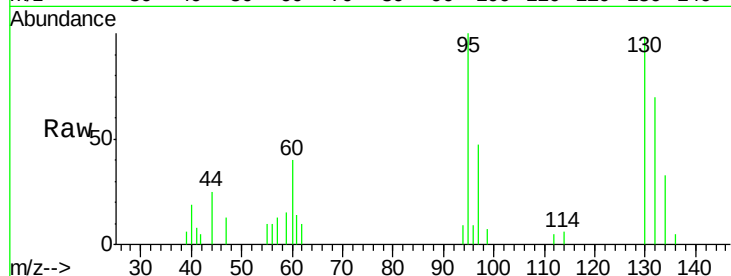
95 102.2 74.6 112.0

132 71.6 77.6 116.4#

97 48.5 50.6 76.0#

Manual Integrations
APPROVED

MMDadoda
9/17/2020 1:53:00 PM



#52

Tetrachloroethene

Concen: 0.142 ppbv

RT: 11.23 min Scan# 2627

Delta R.T. 0.00 min

Lab File: VL035645.D

Acq: 17 Sep 2020 2:20

Tgt Ion:164 Resp: 22475

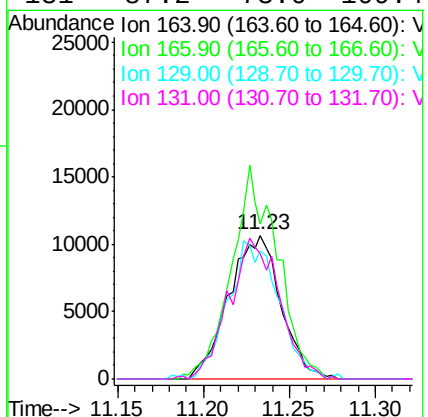
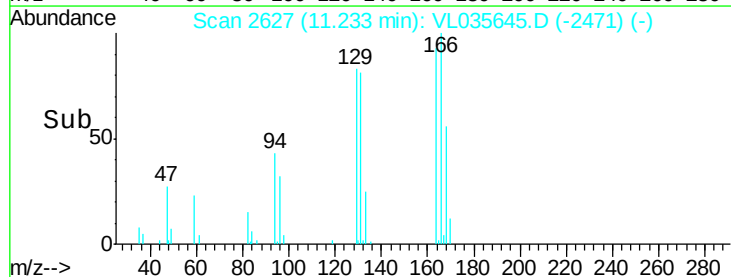
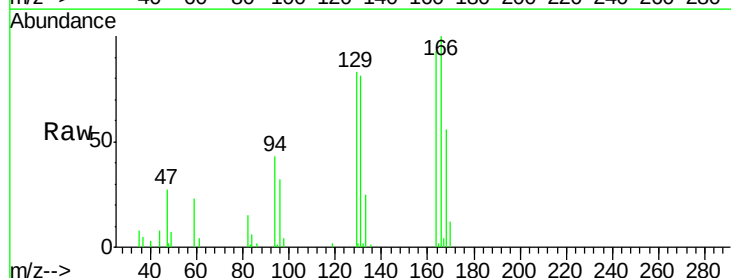
Ion Ratio Lower Upper

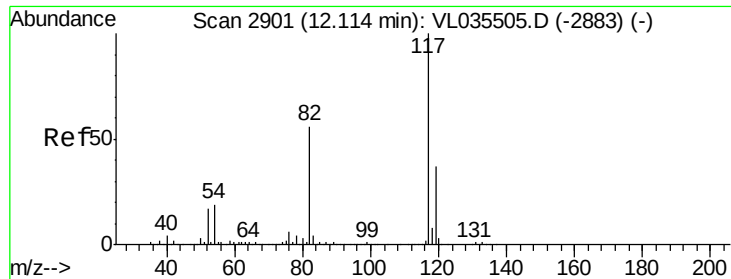
164 100

166 108.1 100.9 151.3

129 89.4 75.3 112.9

131 87.2 73.0 109.4





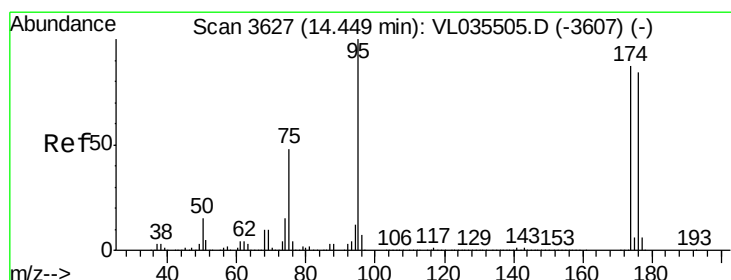
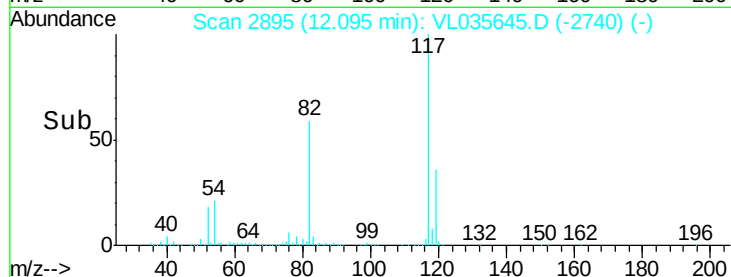
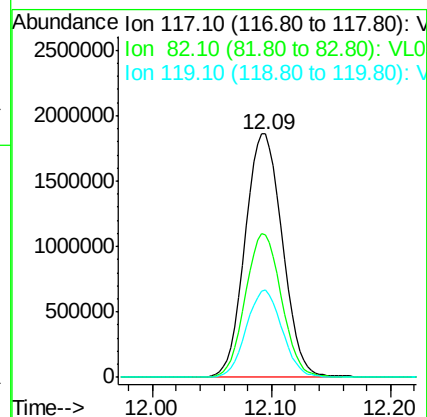
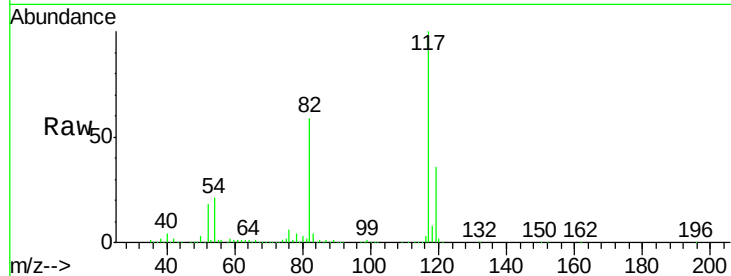
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2895
Delta R.T. -0.00 min
Lab File: VL035645.D
Acq: 17 Sep 2020 2:20

Instrument :
MSVOA_L
ClientSampleId :
SV-11

Tot Ion:117 Resp: 4050138
Ion Ratio Lower Upper
117 100
82 57.5 41.6 62.4
119 34.5 29.3 43.9

Manual Integrations
APPROVED

MMDadoda
9/17/2020 1:53:00 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.557 ppbv
RT: 14.43 min Scan# 3620
Delta R.T. -0.00 min
Lab File: VL035645.D
Acq: 17 Sep 2020 2:20

Tgt Ion: 95 Resp: 3036378
Ion Ratio Lower Upper
95 100
174 78.3 69.6 104.4
175 5.6 5.1 7.7

