

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101620\
 Data File : VL035788.D
 Acq On : 16 Oct 2020 16:31
 Operator : SY/AP
 Sample : L4450-01DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AIR-01DL

Manual Integrations
 APPROVED

MMDadoda
 10/19/2020 11:10:00 AM

Quant Time: Oct 17 03:43:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1198523	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	4360654	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.09	117	4378299	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	3282553	10.01	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.98	51	136536m	1.059	ppbv	
9) Propene	3.01	41	16451m	0.351	ppbv	
11) Trichlorofluoromethane	3.94	101	28518	0.102	ppbv	86
13) Ethanol	3.59	45	104974	9.093	ppbv	99
15) Acetone	3.84	43	248999	1.931	ppbv	96
17) tert-Butyl alcohol	4.30	59	26970	0.192	ppbv	97
19) Isopropyl Alcohol	3.97	45	103839	1.480	ppbv #	92
20) Methylene Chloride	4.33	84	211296	2.230	ppbv	97
26) Hexane	5.68	57	767317	6.034	ppbv #	49
27) Carbon Disulfide	4.54	76	169144	0.892	ppbv #	95
29) Chloroform	5.74	83	32099	0.124	ppbv	96
38) Trichloroethene	7.83	130	1343785	9.480	ppbv	98
52) Tetrachloroethene	11.22	164	8632m	0.063	ppbv	

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

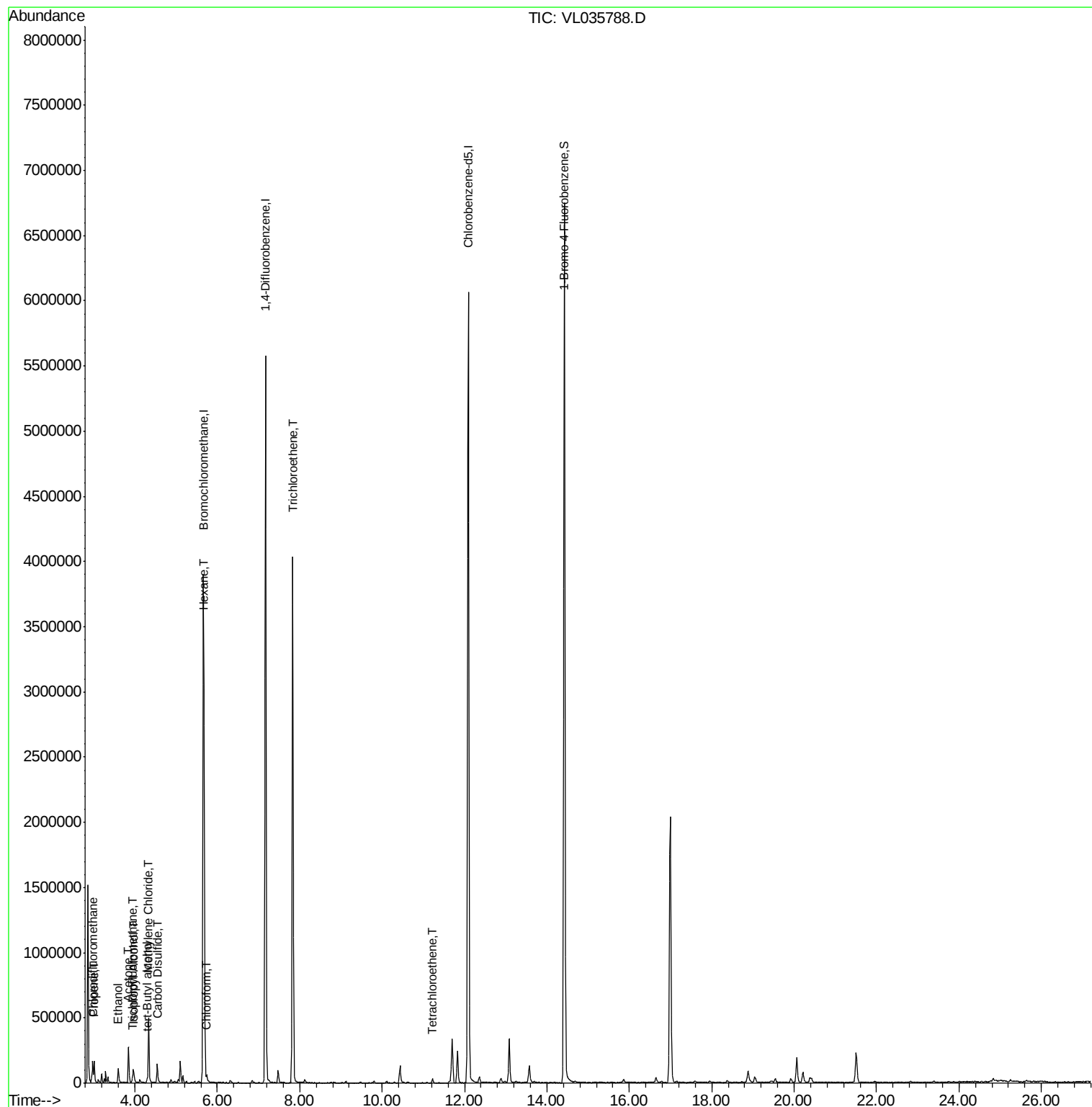
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101620\
Data File : VL035788.D
Acq On : 16 Oct 2020 16:31
Operator : SY/AP
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MSVOA_L
ClientSampleId :
AIR-01DL

Manual Integrations
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10/19/2020 11:10:00 AM

Quant Time: Oct 17 03:43:30 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep
QLast Update : Wed Sep 23 07:38:05 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.02 min

Lab File: VL035788.D

Acq: 16 Oct 2020 16:31

Instrument :

MSVOA_L

ClientSampleId :

AIR-01DL

Tot Ion: 49 Resp: 1198523

Ion Ratio Lower Upper

49 100

128 82.9 43.1 129.4

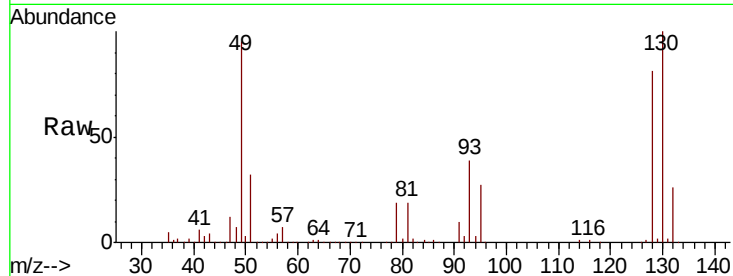
130 106.6 54.9 164.7

Manual Integrations

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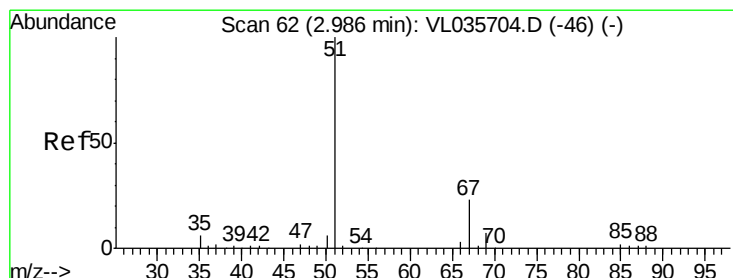
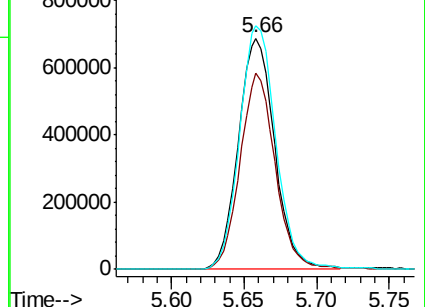
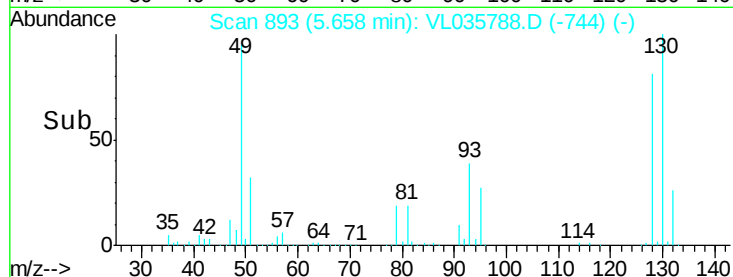


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

Time-->



#3

Chlorodifluoromethane

Concen: 1.059 ppbv m

RT: 2.98 min Scan# 59

Delta R.T. -0.01 min

Lab File: VL035788.D

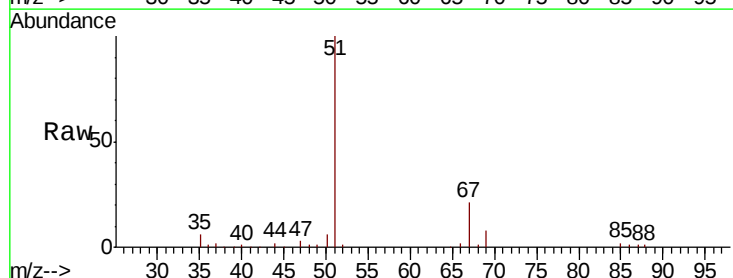
Acq: 16 Oct 2020 16:31

Tgt Ion: 51 Resp: 136536

Ion Ratio Lower Upper

51 100

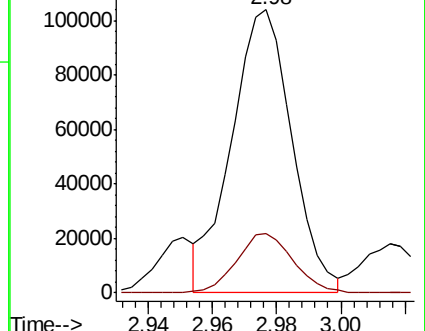
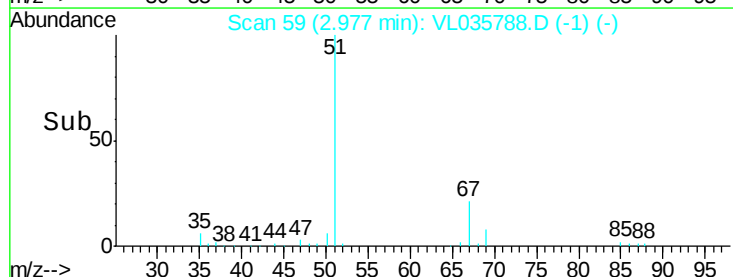
67 19.8 17.8 26.8

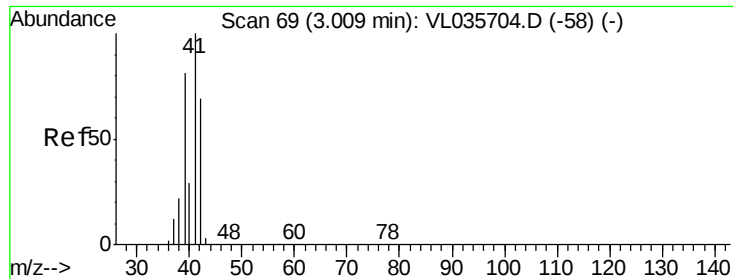


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

Time-->





#9

Propene

Concen: 0.351 ppbv m

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL035788.D

Acq: 16 Oct 2020 16:31

Instrument :

MSVOA_L

ClientSampleId :

AIR-01DL

Tot Ion: 41 Resp: 16451

Ion Ratio Lower Upper

41 100

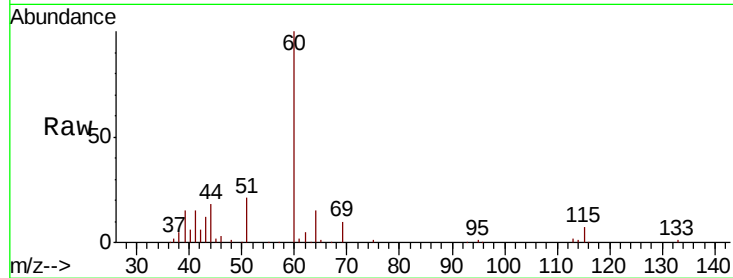
42 58.1 56.2 84.4

Manual Integrations

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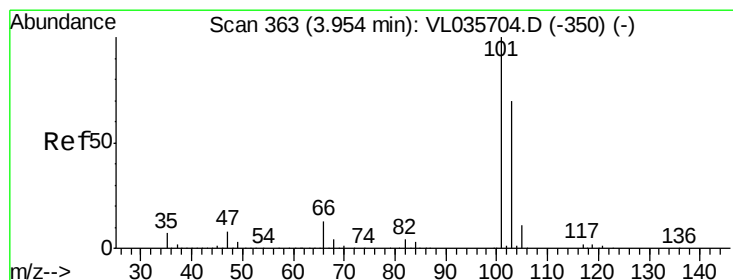
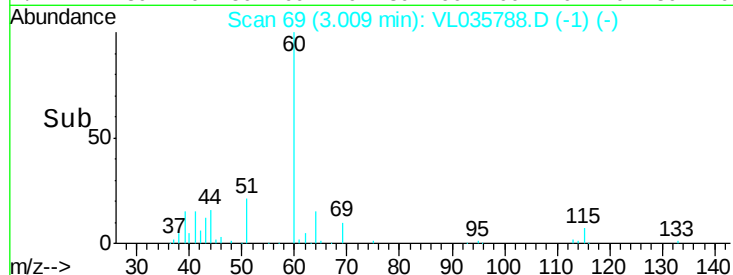
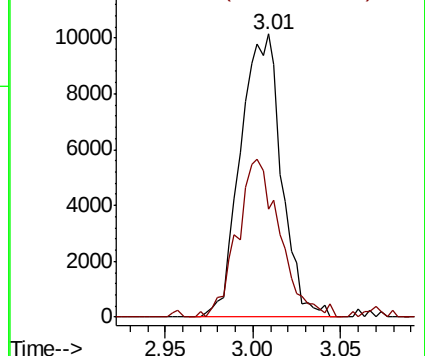
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.102 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL035788.D

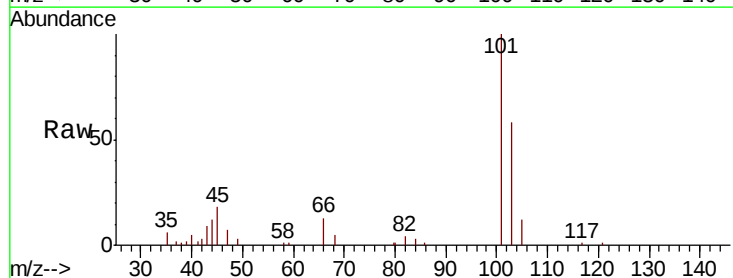
Acq: 16 Oct 2020 16:31

Tgt Ion:101 Resp: 28518

Ion Ratio Lower Upper

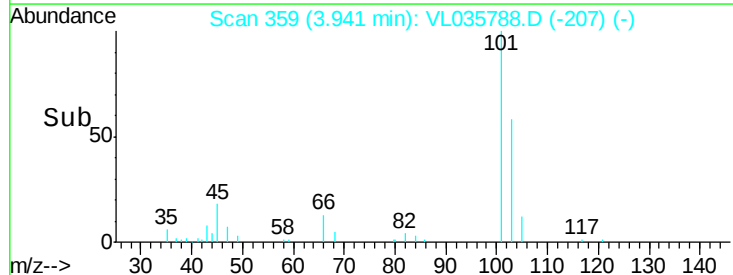
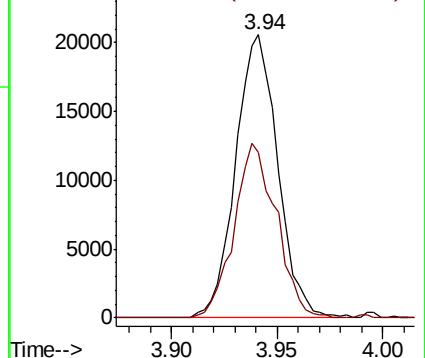
101 100

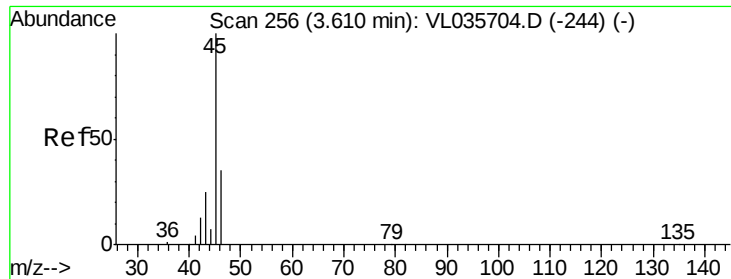
103 58.4 55.6 83.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





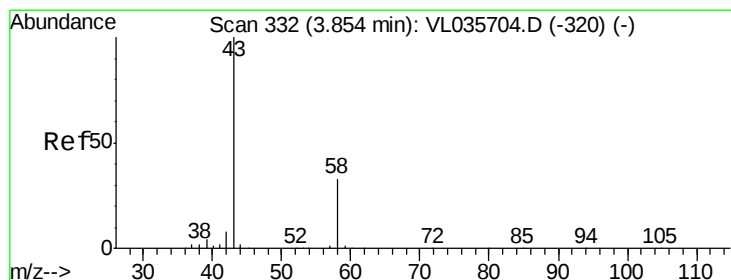
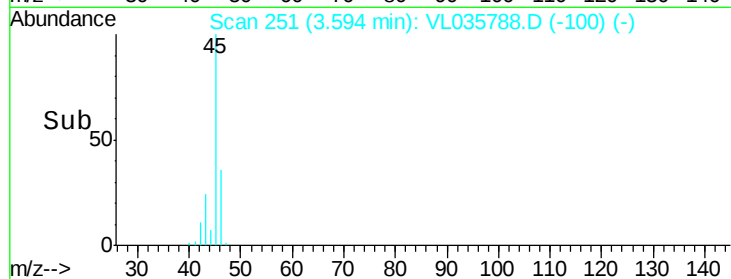
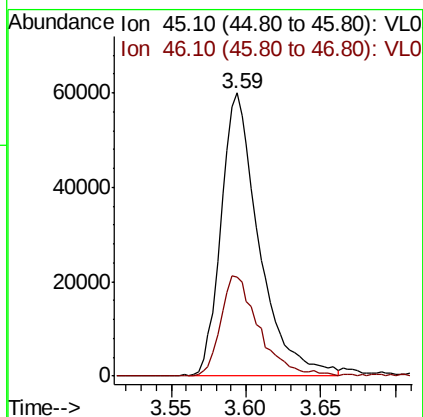
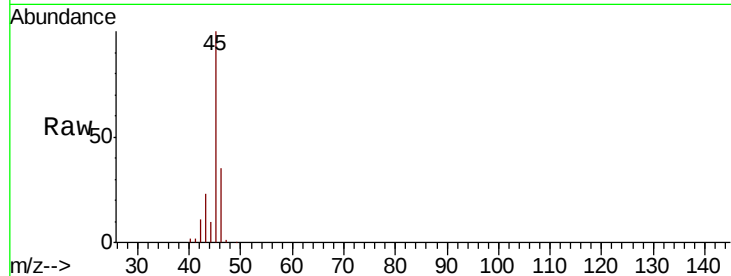
#13
Ethanol
Concen: 9.093 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.02 min
Lab File: VL035788.D
Acq: 16 Oct 2020 16:31

Instrument :
MSVOA_L
ClientSampled :
AIR-01DL

Tot Ion	45	46	Ratio	Lower	Upper
45	100				
46	36.2		14.7	58.7	

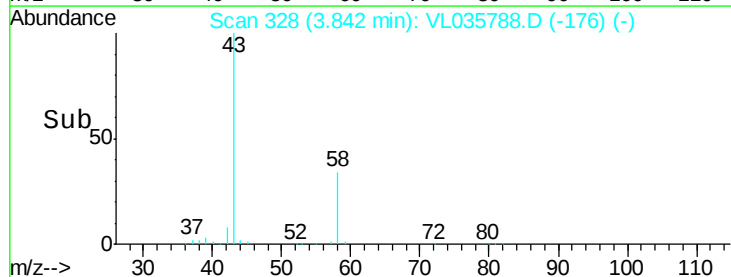
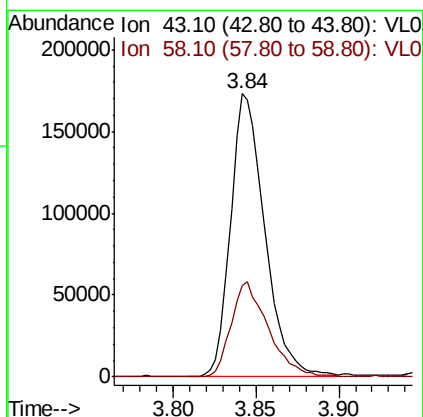
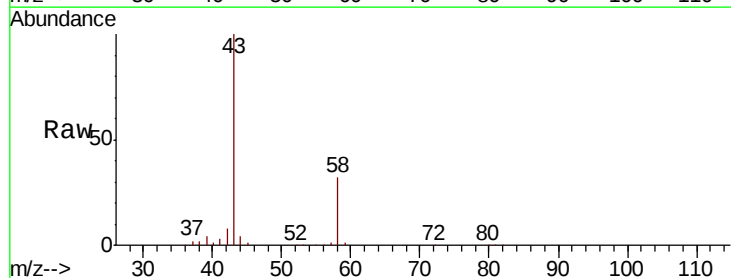
Manual Integrations
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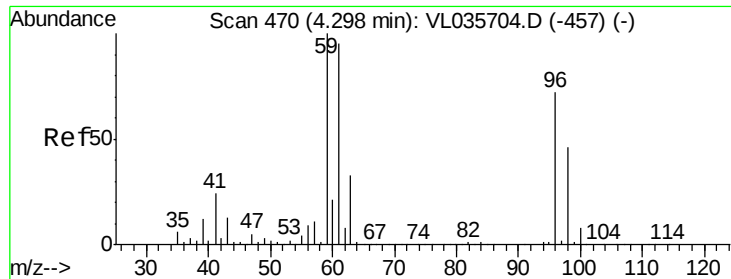
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#15
Acetone
Concen: 1.931 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL035788.D
Acq: 16 Oct 2020 16:31

Tgt Ion	43	58	Ratio	Lower	Upper
43	100				
58	36.5		27.3	40.9	





#17

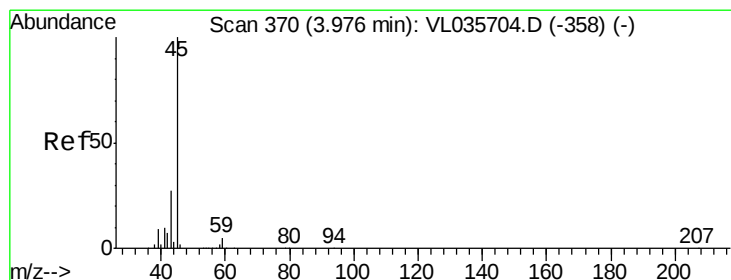
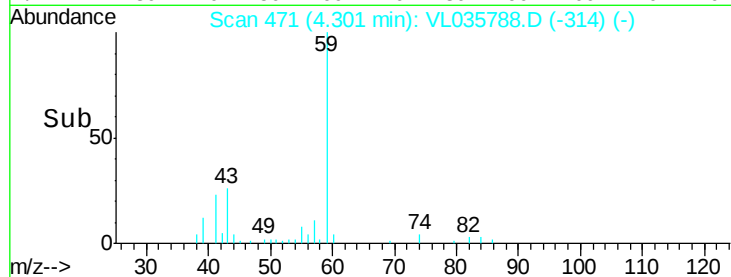
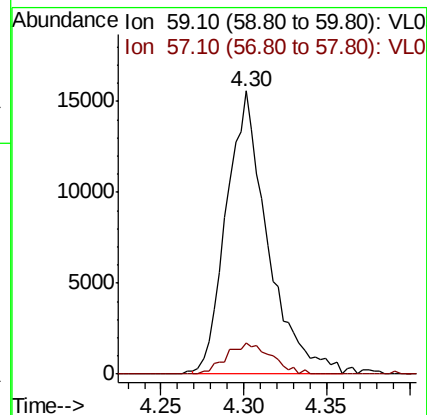
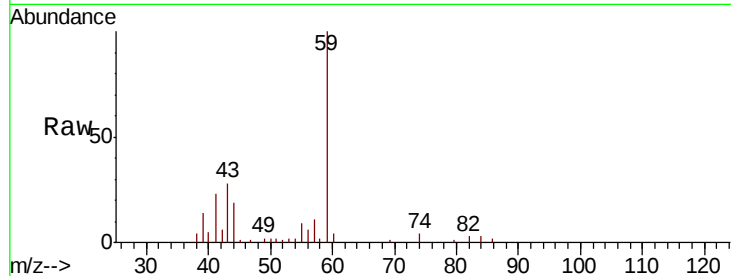
tert-Butyl alcohol
 Concen: 0.192 ppbv
 RT: 4.30 min Scan# 471
 Delta R.T. 0.00 min
 Lab File: VL035788.D
 Acq: 16 Oct 2020 16:31

Instrument :
 MSVOA_L
 ClientSampled :
 AIR-01DL

Tot Ion: 59 Resp: 26970
 Ion Ratio Lower Upper
 59 100
 57 11.9 8.5 12.7

Manual Integrations
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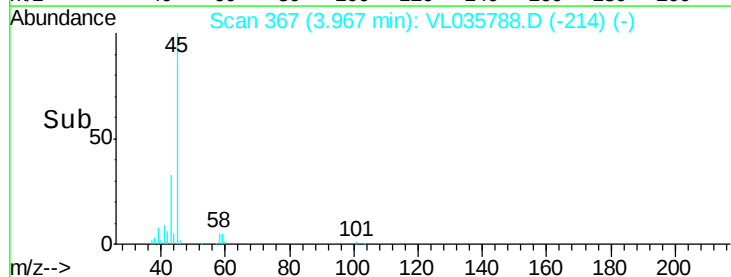
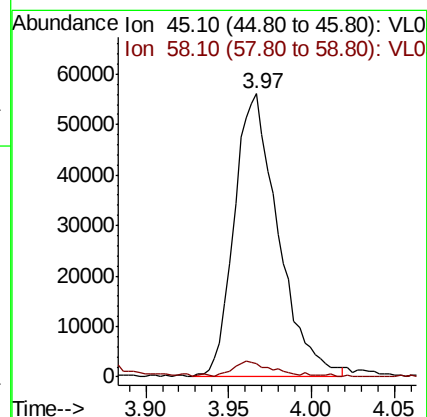
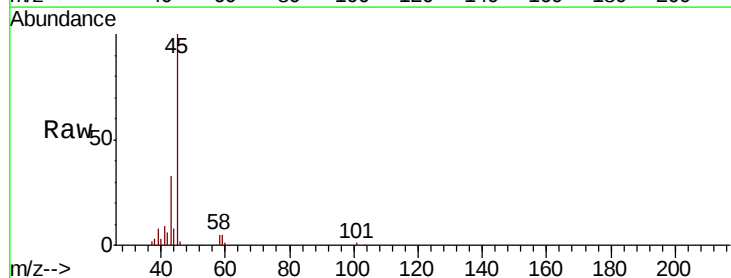
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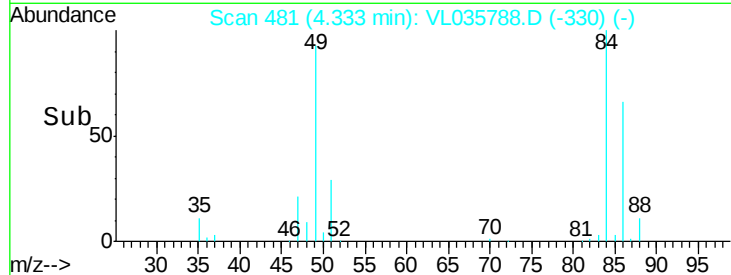
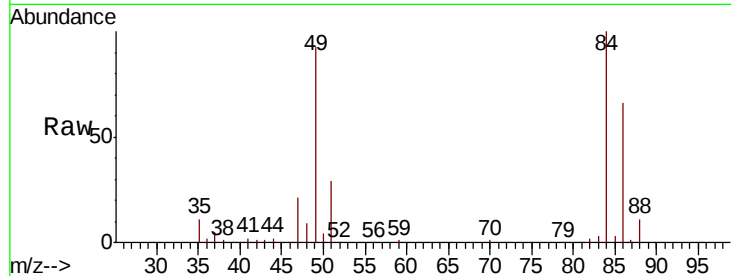
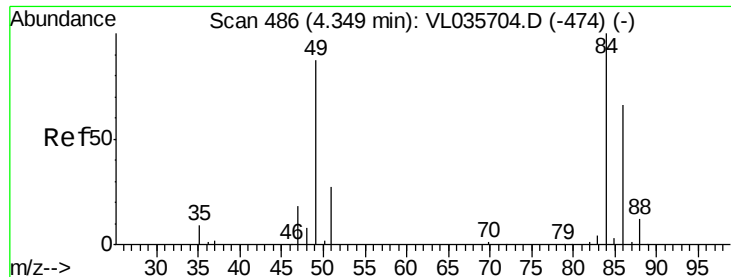


#19

Isopropyl Alcohol
 Concen: 1.480 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. -0.01 min
 Lab File: VL035788.D
 Acq: 16 Oct 2020 16:31

Tgt Ion: 45 Resp: 103839
 Ion Ratio Lower Upper
 45 100
 58 6.1 2.8 4.2#





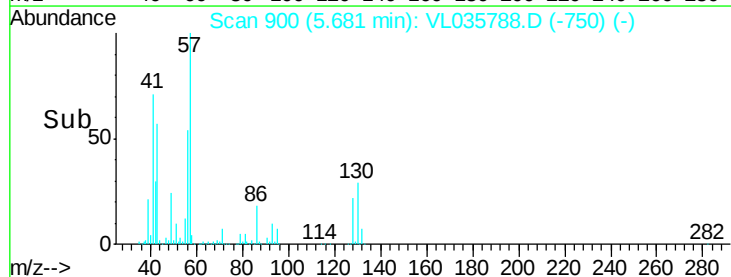
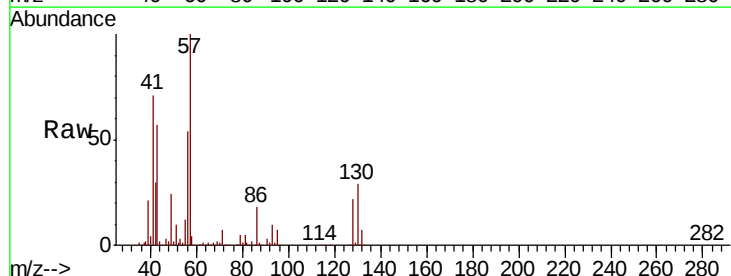
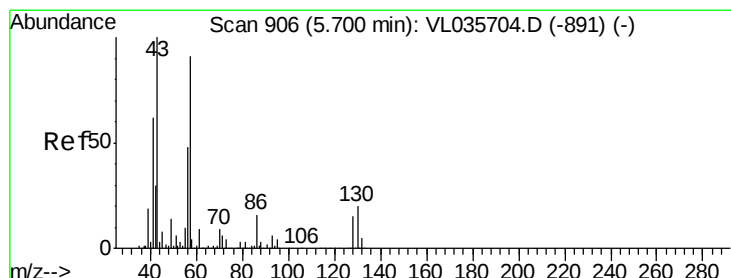
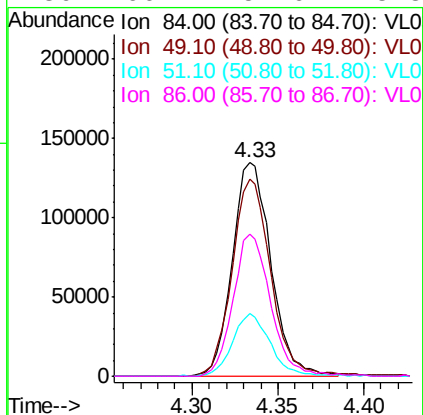
#20
Methvlene Chloride
Concen: 2.230 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.02 min
Lab File: VL035788.D
Acq: 16 Oct 2020 16:31

Tot Ion	84	Resp	211296
Ion Ratio	Lower	Upper	
84	100		
49	92.3	69.8	104.6
51	29.0	21.8	32.8
86	66.4	52.6	78.8

Instrument :
MSVOA_L
ClientSampleId :
AIR-01DL

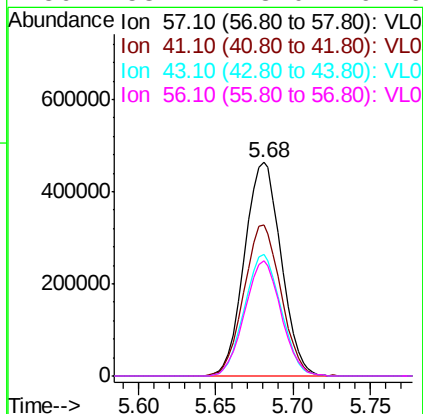
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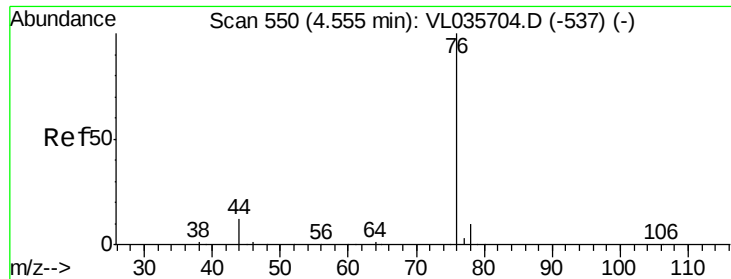
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10/19/2020 11:10:00 AM



#26
Hexane
Concen: 6.034 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.02 min
Lab File: VL035788.D
Acq: 16 Oct 2020 16:31

Tgt Ion	57	Resp	767317
Ion Ratio	Lower	Upper	
57	100		
41	71.7	57.9	86.9
43	56.6	143.8	215.6
56	53.7	43.0	64.6





#27

Carbon Disulfide

Concen: 0.892 ppbv

RT: 4.54 min Scan# 546

Delta R.T. -0.01 min

Lab File: VL035788.D

Acq: 16 Oct 2020 16:31

Instrument :

MSVOA_L

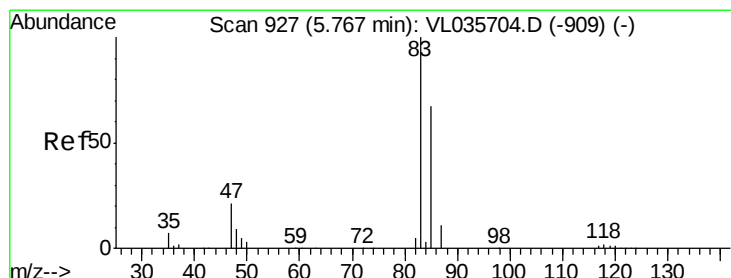
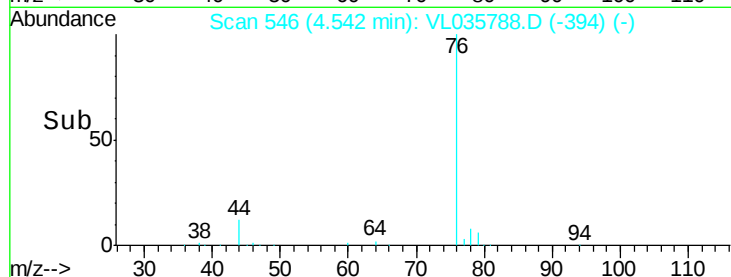
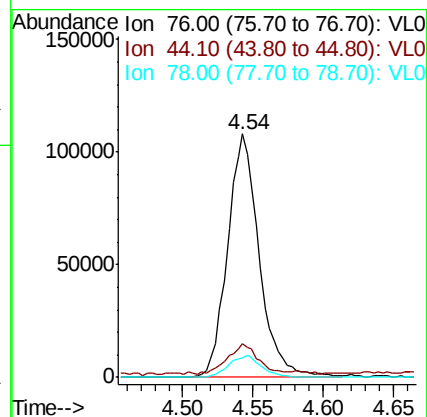
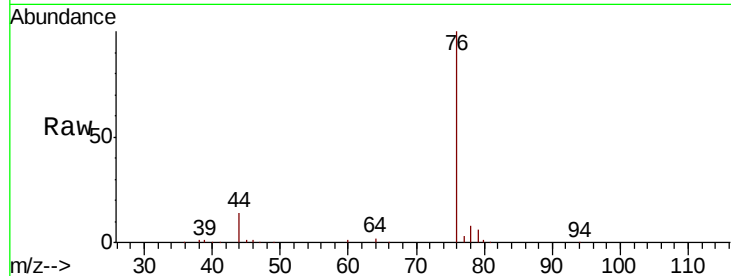
ClientSampled :

AIR-01DL

Tot Ion:	76	Resp:	169144
Ion Ratio	Lower	Upper	
76	100		
44	15.5	9.7	14.5#
78	9.4	7.8	11.8

Manual Integrations
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#29

Chloroform

Concen: 0.124 ppbv

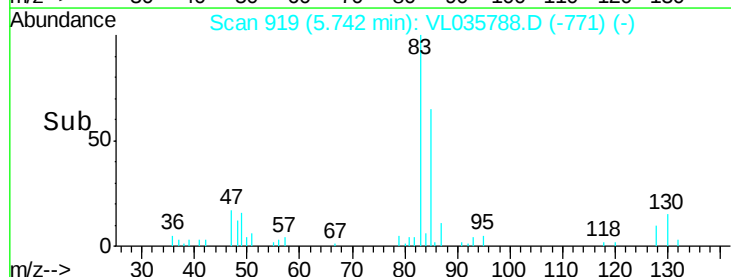
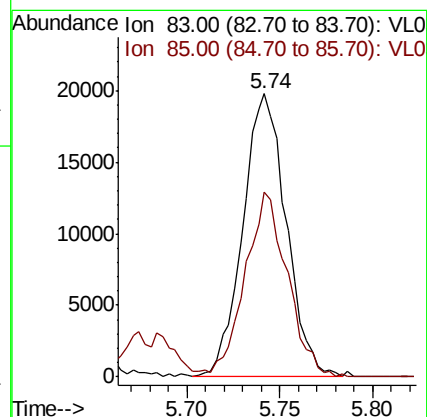
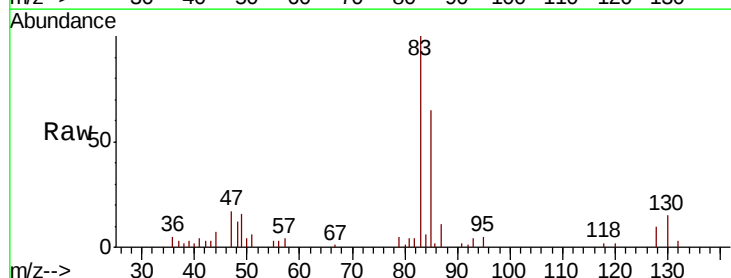
RT: 5.74 min Scan# 919

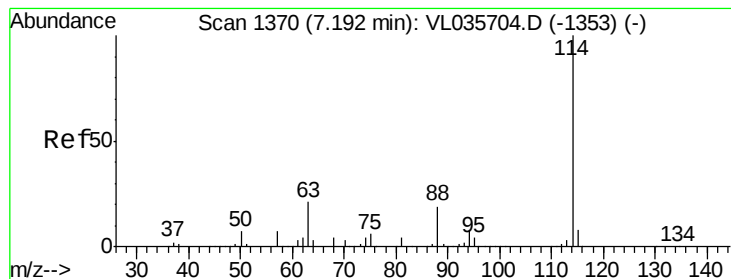
Delta R.T. -0.03 min

Lab File: VL035788.D

Acq: 16 Oct 2020 16:31

Tgt Ion:	83	Resp:	32099
Ion Ratio	Lower	Upper	
83	100		
85	64.1	54.0	81.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.02 min

Lab File: VL035788.D

Acq: 16 Oct 2020 16:31

Instrument :

MSVOA_L

ClientSampleId :

AIR-01DL

Tot Ion:114 Resp: 4360654

Ion Ratio Lower Upper

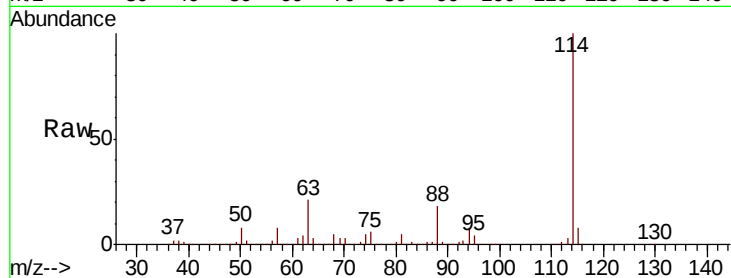
114 100

63 20.3 16.1 24.1

88 17.7 14.1 21.1

Manual Integrations
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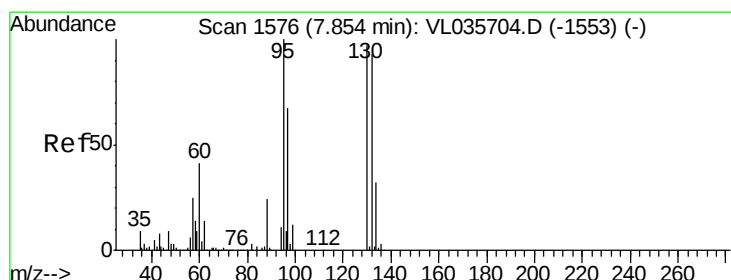
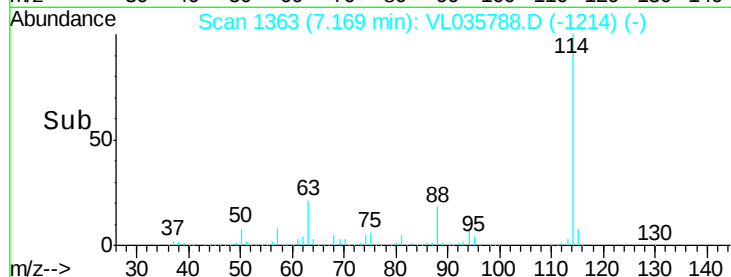
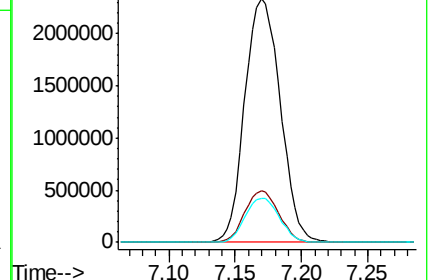
MMDadoda
10/19/2020 11:10:00 AM



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#38

Trichloroethene

Concen: 9.480 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. -0.02 min

Lab File: VL035788.D

Acq: 16 Oct 2020 16:31

Tgt Ion:130 Resp: 1343785

Ion Ratio Lower Upper

130 100

95 100.6 82.4 123.6

132 95.6 76.8 115.2

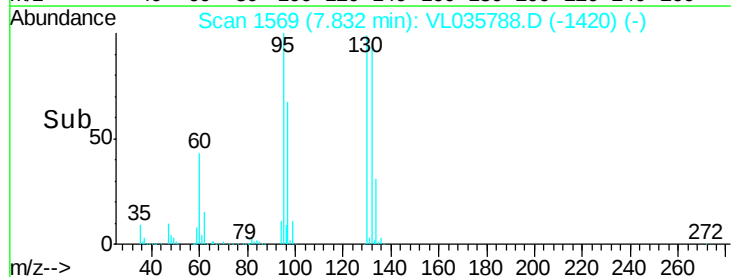
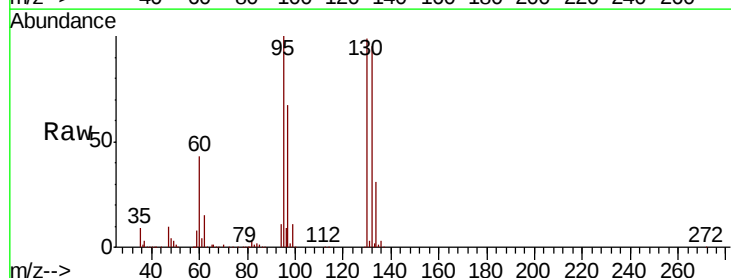
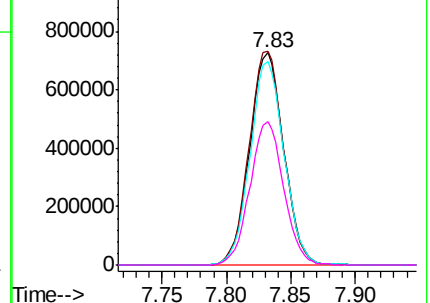
97 67.5 55.4 83.2

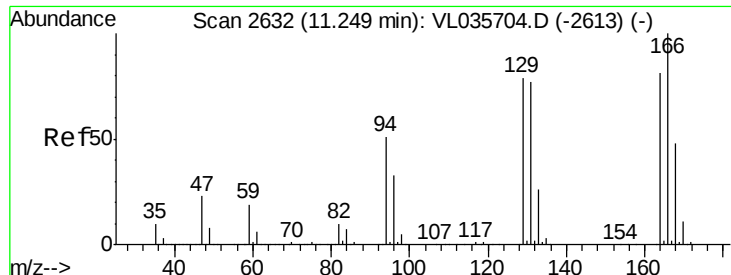
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#52

Tetrachloroethene

Concen: 0.063 ppbv m

RT: 11.22 min Scan# 2623

Delta R.T. -0.03 min

Lab File: VL035788.D

Acq: 16 Oct 2020 16:31

Instrument :

MSVOA_L

ClientSampleId :

AIR-01DL

Tot Ion:164 Resp: 8632

Ion Ratio Lower Upper

164 100

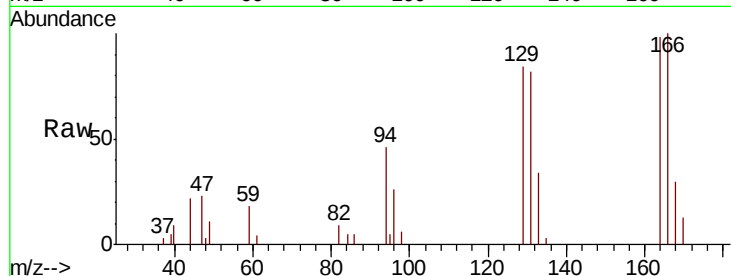
166 102.2 98.7 148.1

129 85.5 78.4 117.6

131 83.4 76.2 114.2

Manual Integrations
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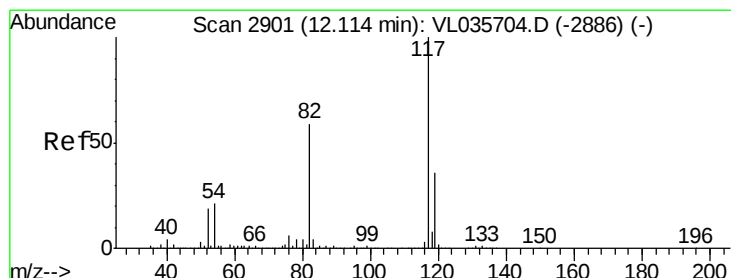
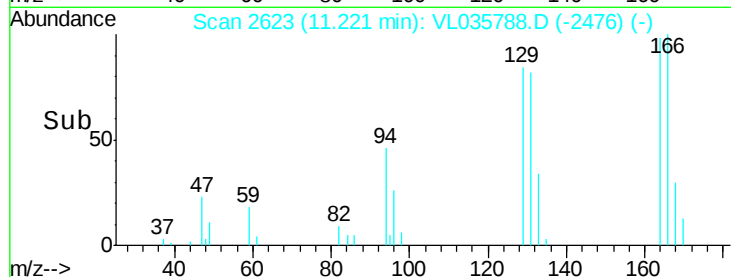
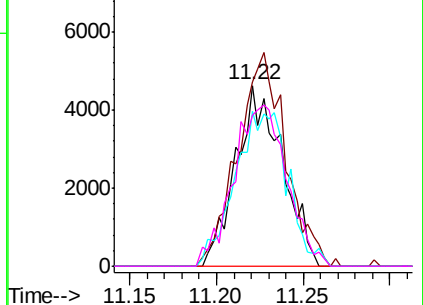


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.03 min

Lab File: VL035788.D

Acq: 16 Oct 2020 16:31

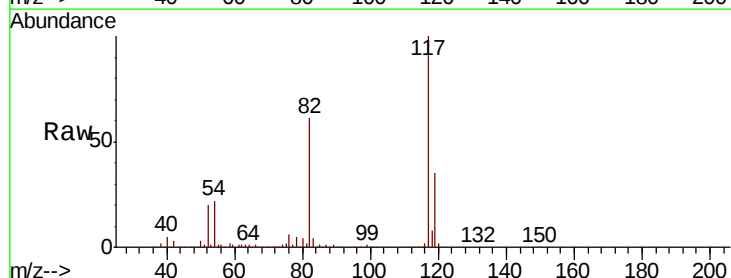
Tgt Ion:117 Resp: 4378299

Ion Ratio Lower Upper

117 100

82 59.5 46.1 69.1

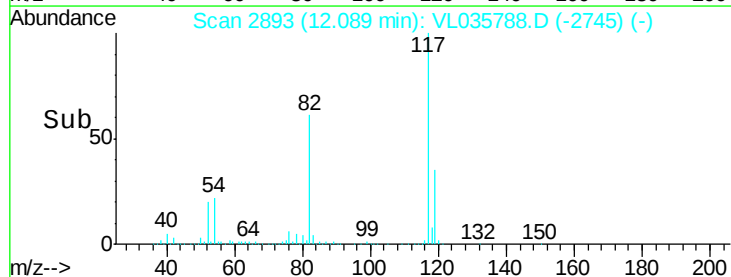
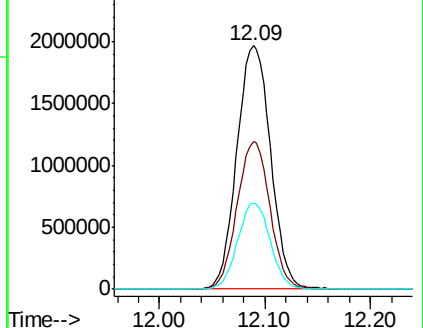
119 34.5 28.0 42.0

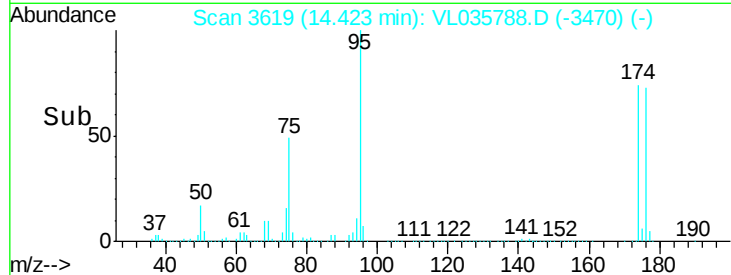
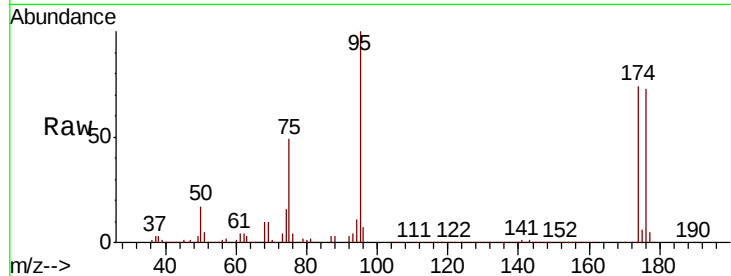
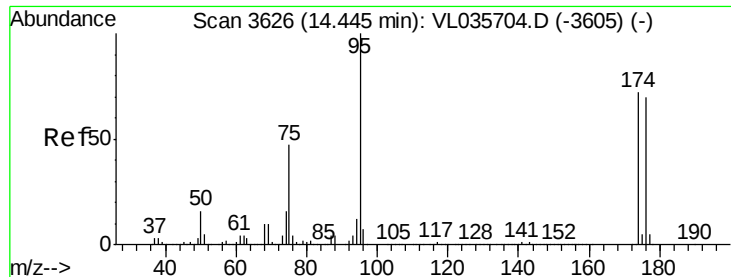


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.005 ppbv
 RT: 14.42 min Scan# 3619
 Delta R.T. -0.02 min
 Lab File: VL035788.D
 Acq: 16 Oct 2020 16:31

Instrument :
 MSVOA_L
 ClientSampleId :
 AIR-01DL

Tot Ion:	95	Resp:	3282553
Ion Ratio	Lower	Upper	
95	100		
174	76.0	59.6	89.4
175	5.5	4.2	6.4

Manual Integrations
 APPROVED

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 10/19/2020 11:10:00 AM

