

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091620\
 Data File : VL035637.D
 Acq On : 16 Sep 2020 20:25
 Operator : SY/AP
 Sample : L4036-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DB-IA-Y01

Manual Integrations
 APPROVED

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 9/17/2020 1:52:41 PM

Quant Time: Sep 17 07:53:13 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 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	1051970	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4269404	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4267429	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	3167999	10.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	49030	0.269	ppbv	98
3) Chlorodifluoromethane	2.98	51	30467m	0.262	ppbv	
4) Chloromethane	3.13	50	39171	0.628	ppbv	95
9) Propene	3.01	41	13334	0.297	ppbv	84
10) Heptane	8.12	43	17642	0.146	ppbv	98
11) Trichlorofluoromethane	3.94	101	67087	0.252	ppbv	98
13) Ethanol	3.60	45	156121	14.038	ppbv	98
15) Acetone	3.84	43	427987	3.689	ppbv	99
19) Isopropyl Alcohol	3.97	45	130503	1.885	ppbv #	91
20) Methylene Chloride	4.34	84	244372	2.828	ppbv	96
26) Hexane	5.68	57	99989	0.861	ppbv #	53
34) 2-Butanone	5.25	43	33601	0.265	ppbv	97
35) Carbon Tetrachloride	7.01	117	14850	0.069	ppbv #	89
36) Benzene	6.89	78	35047	0.127	ppbv	94
52) Tetrachloroethene	11.22	164	4987m	0.031	ppbv	
53) Toluene	9.81	91	199593	0.574	ppbv	95

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

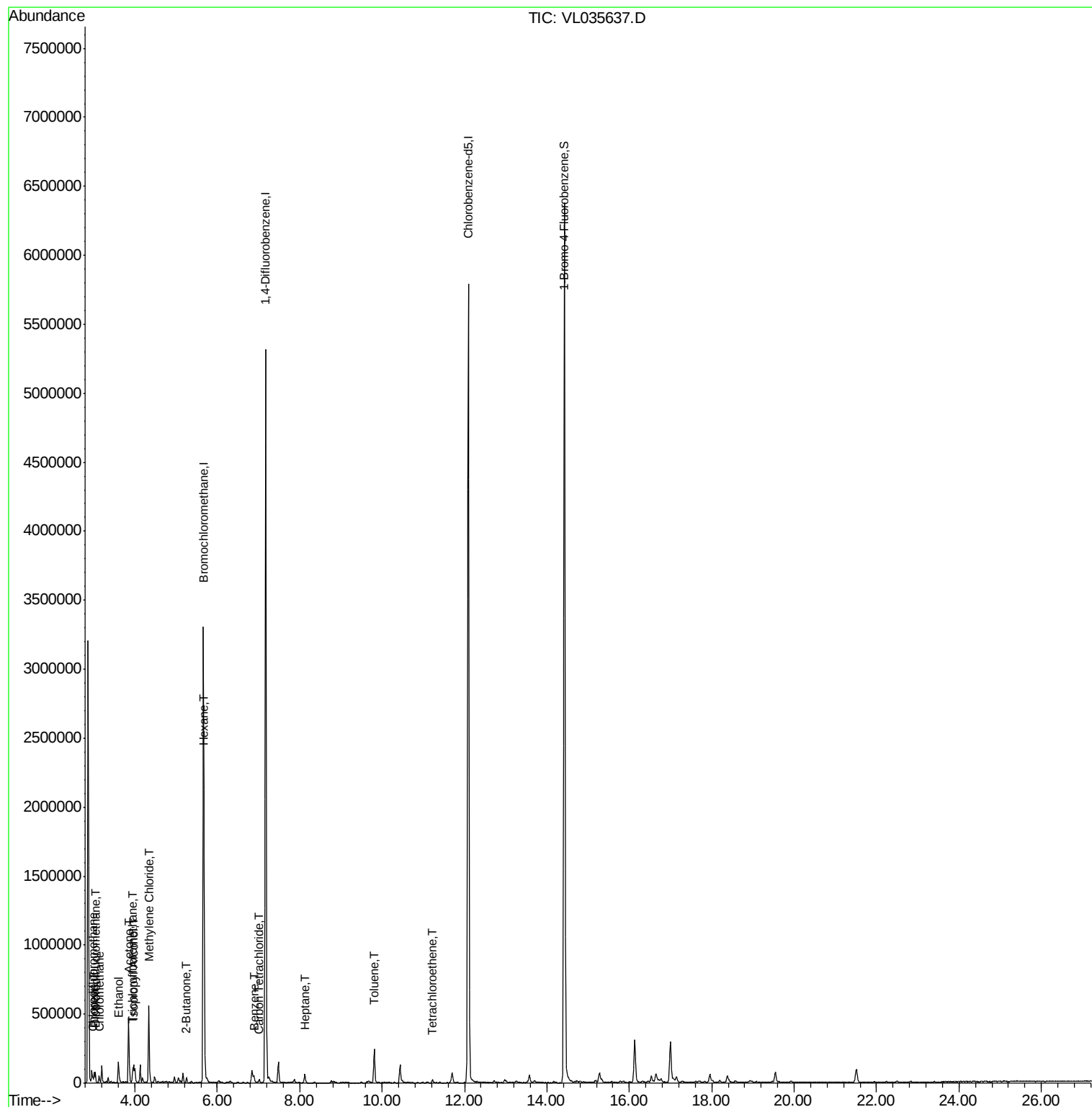
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091620\
Data File : VL035637.D
Acq On : 16 Sep 2020 20:25
Operator : SY/AP
Sample : L4036-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
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DB-IA-Y01

Manual Integrations
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Quant Time: Sep 17 07:53:13 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





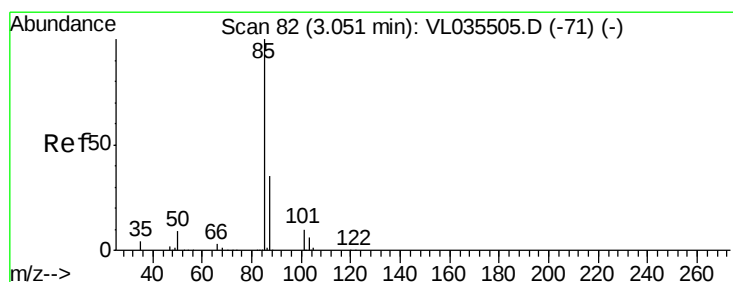
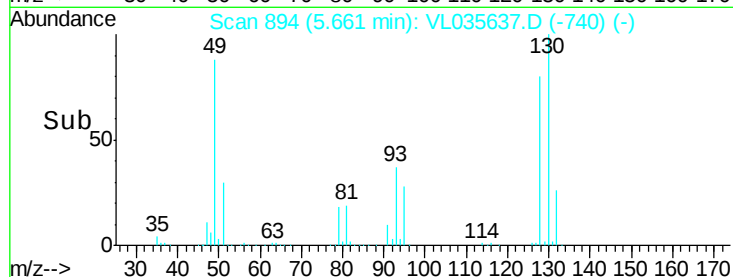
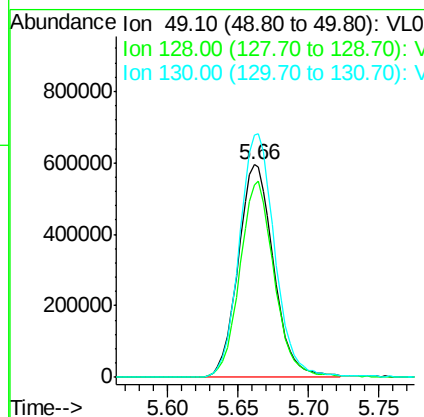
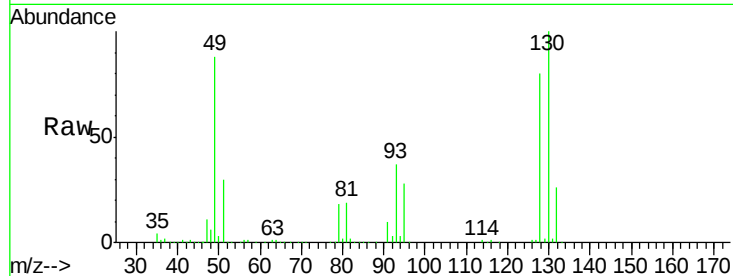
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.00 min
Lab File: VL035637.D
Acq: 16 Sep 2020 20:25

Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y01

Tot Ion: 49 Resp: 1051970
Ion Ratio Lower Upper
49 100
128 90.2 50.0 150.1
130 115.1 64.4 193.2

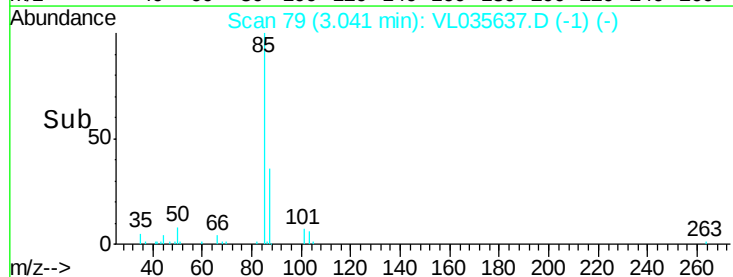
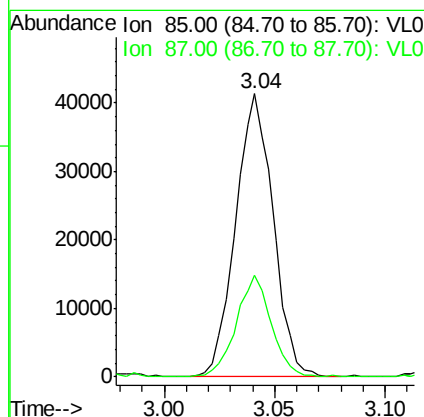
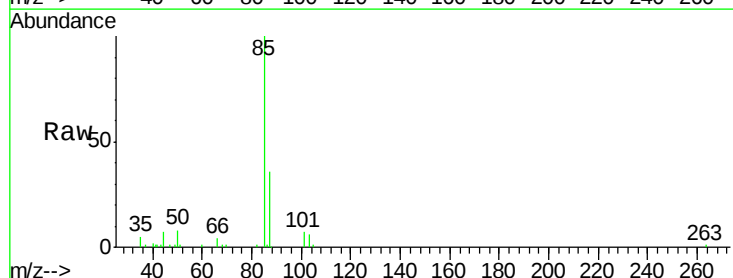
Manual Integrations
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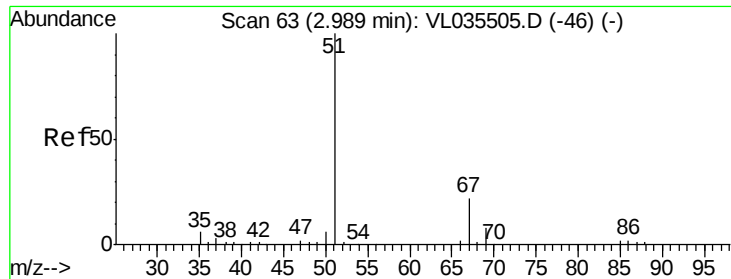
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#2
Dichlorodifluoromethane
Concen: 0.269 ppbv
RT: 3.04 min Scan# 79
Delta R.T. 0.01 min
Lab File: VL035637.D
Acq: 16 Sep 2020 20:25

Tgt Ion: 85 Resp: 49030
Ion Ratio Lower Upper
85 100
87 36.1 28.0 42.0





#3

Chlorodifluoromethane

Concen: 0.262 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL035637.D

Acq: 16 Sep 2020 20:25

Instrument :

MSVOA_L

ClientSampleId :

DB-IA-Y01

Tot Ion: 51 Resp: 30467

Ion Ratio Lower Upper

51 100

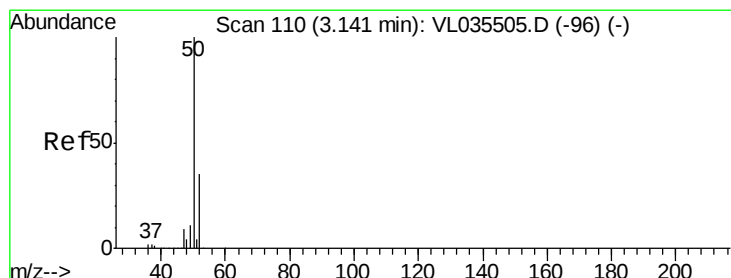
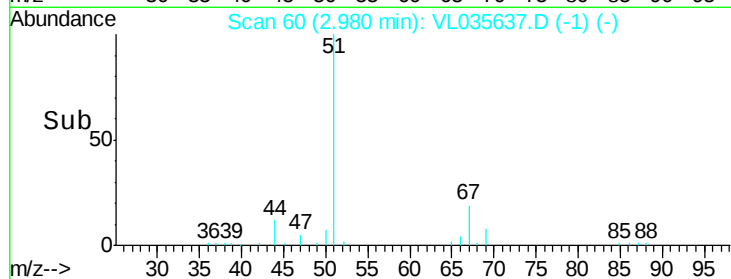
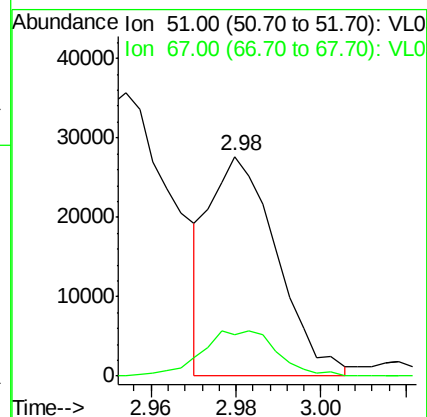
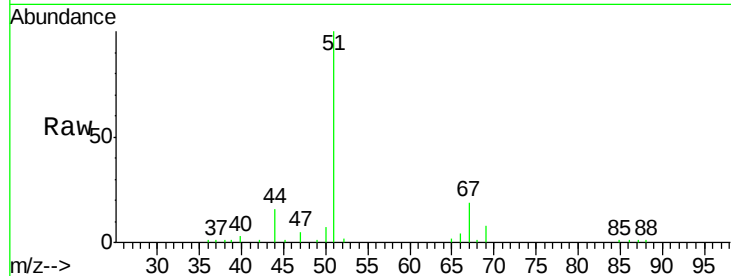
67 23.3 17.8 26.8

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#4

Chloromethane

Concen: 0.628 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL035637.D

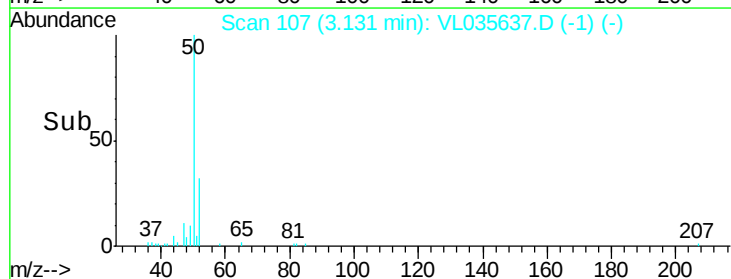
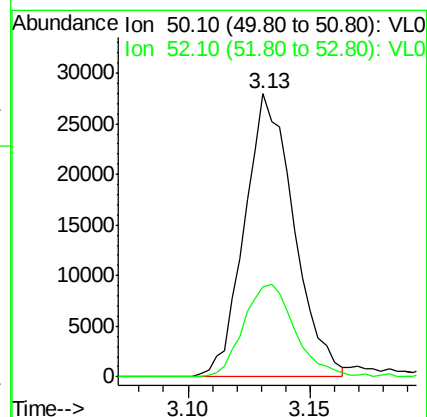
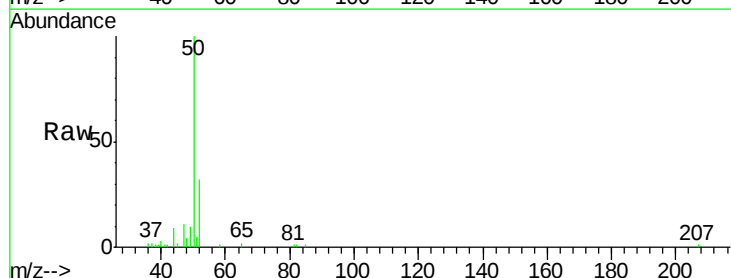
Acq: 16 Sep 2020 20:25

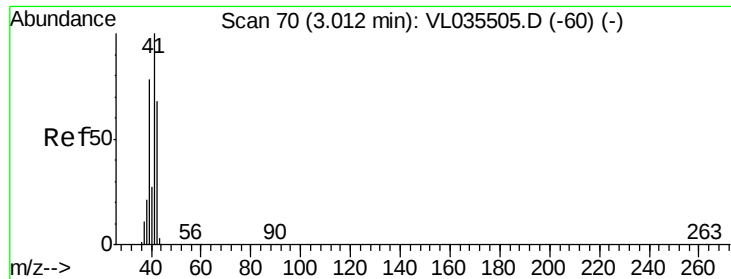
Tgt Ion: 50 Resp: 39171

Ion Ratio Lower Upper

50 100

52 31.7 27.7 41.5





#9

Propene

Concen: 0.297 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL035637.D

Acq: 16 Sep 2020 20:25

Instrument :

MSVOA_L

ClientSampled :

DB-IA-Y01

Tot Ion: 41 Resp: 13334

Ion Ratio Lower Upper

41 100

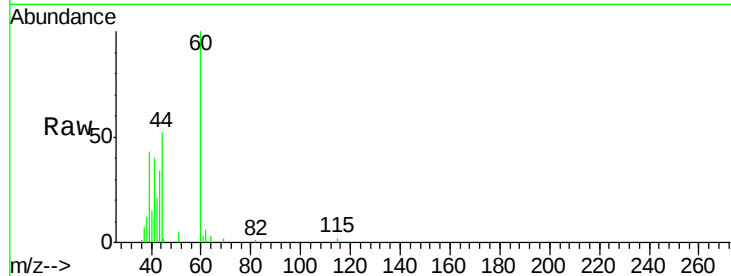
42 57.6 56.3 84.5

Manual Integrations

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.01

10000

8000

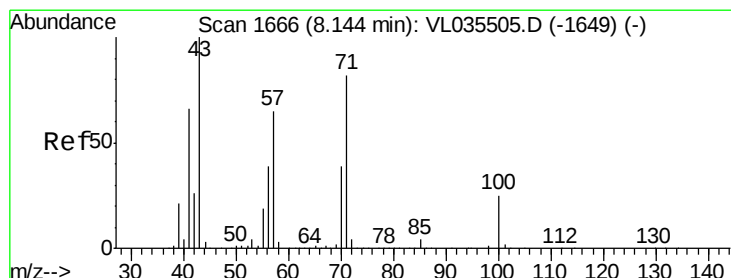
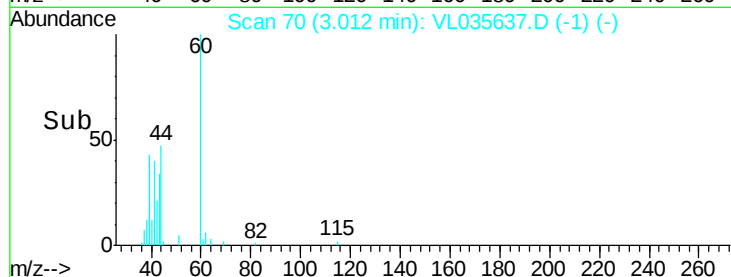
6000

4000

2000

0

Time-->



#10

Heptane

Concen: 0.146 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VL035637.D

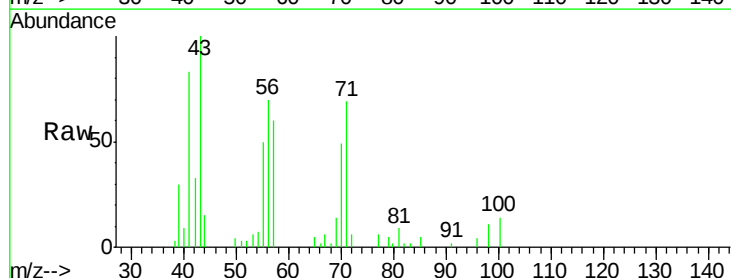
Acq: 16 Sep 2020 20:25

Tgt Ion: 43 Resp: 17642

Ion Ratio Lower Upper

43 100

57 66.0 51.4 77.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

8.12

10000

8000

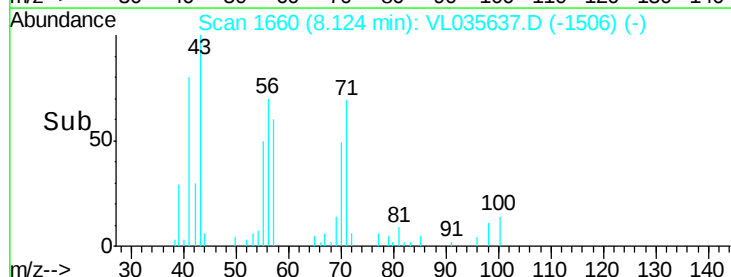
6000

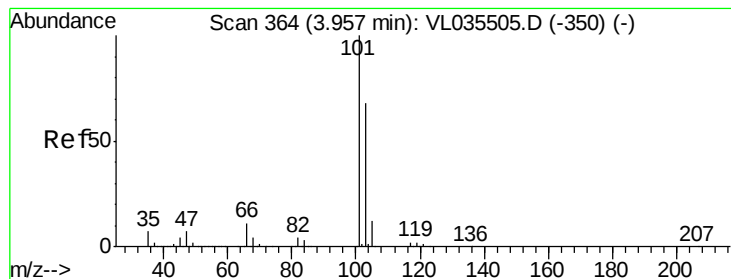
4000

2000

0

Time-->





#11

Trichlorofluoromethane

Concen: 0.252 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.00 min

Lab File: VL035637.D

Acq: 16 Sep 2020 20:25

Instrument :

MSVOA_L

ClientSampleId :

DB-IA-Y01

Tot Ion:101 Resp: 67087

Ion Ratio Lower Upper

101 100

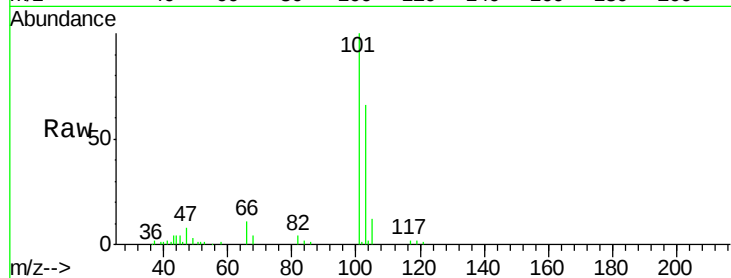
103 66.4 54.5 81.7

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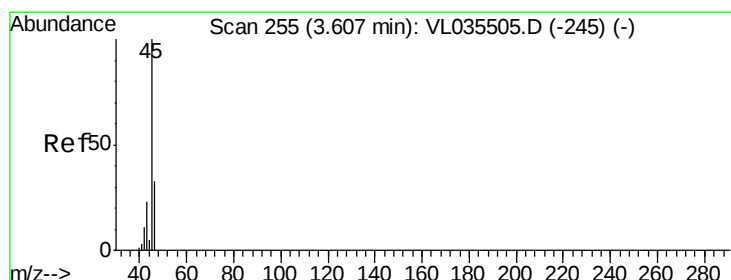
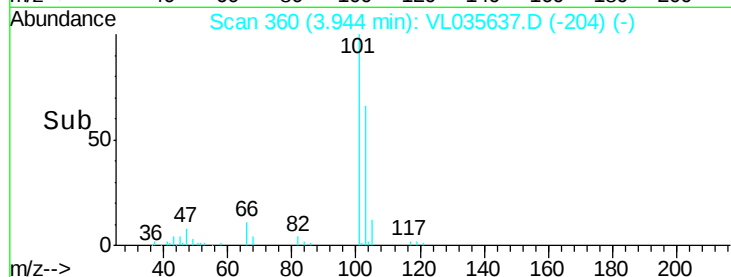
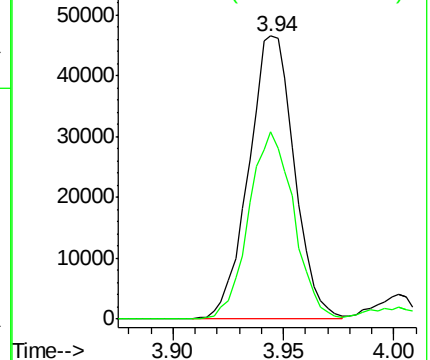
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 14.038 ppbv

RT: 3.60 min Scan# 253

Delta R.T. 0.00 min

Lab File: VL035637.D

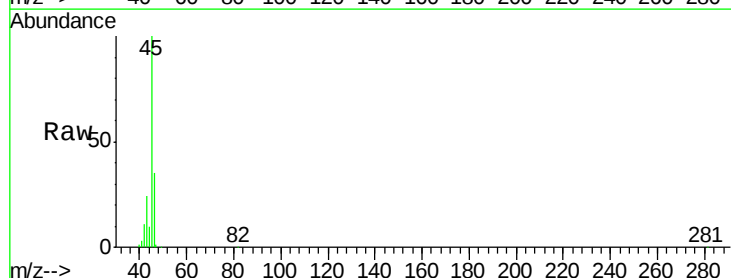
Acq: 16 Sep 2020 20:25

Tgt Ion: 45 Resp: 156121

Ion Ratio Lower Upper

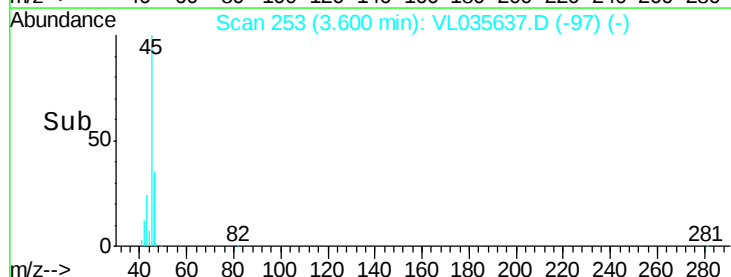
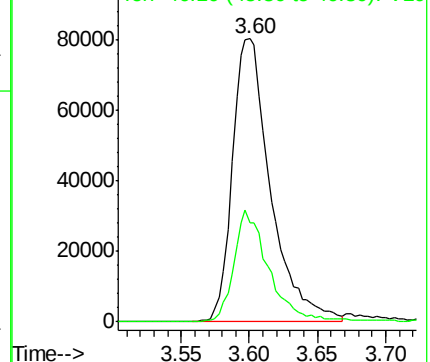
45 100

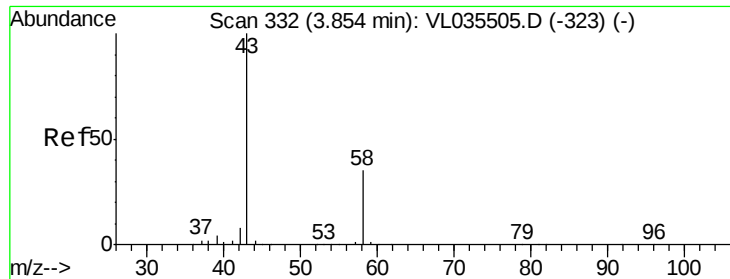
46 36.7 15.2 60.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 3.689 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.01 min

Lab File: VL035637.D

Acq: 16 Sep 2020 20:25

Instrument :

MSVOA_L

ClientSampleId :

DB-IA-Y01

Tot Ion: 43 Resp: 427987

Ion Ratio Lower Upper

43 100

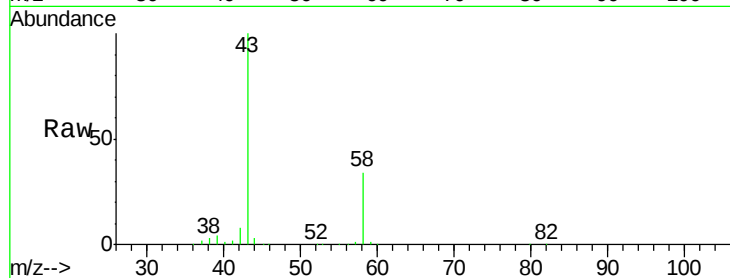
58 36.2 28.4 42.6

Manual Integrations

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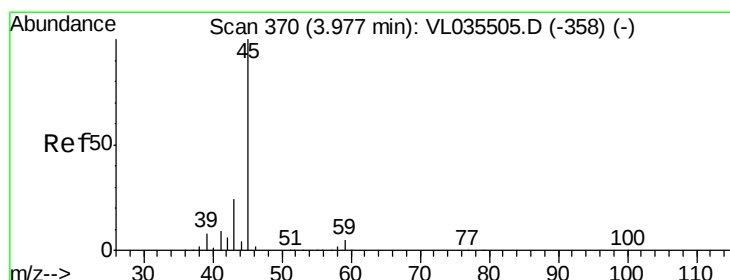
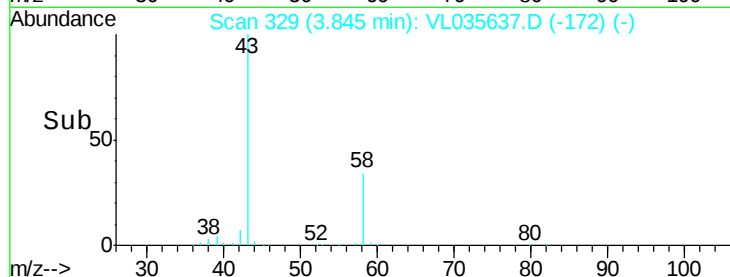
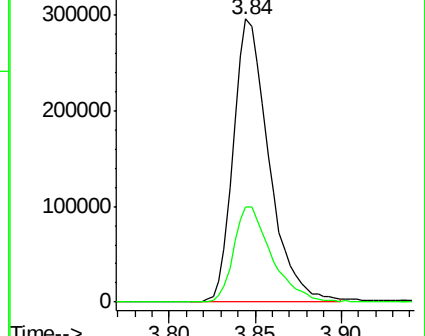
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 1.885 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.01 min

Lab File: VL035637.D

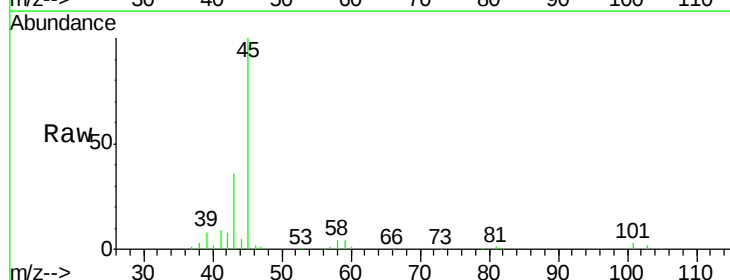
Acq: 16 Sep 2020 20:25

Tgt Ion: 45 Resp: 130503

Ion Ratio Lower Upper

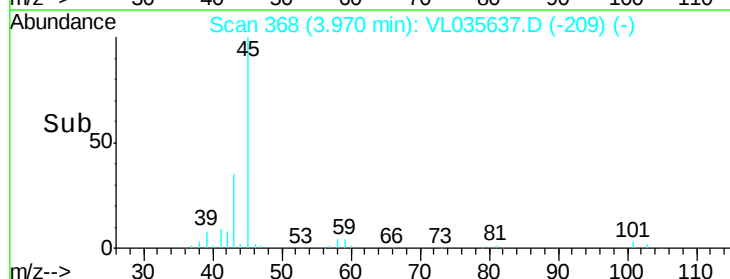
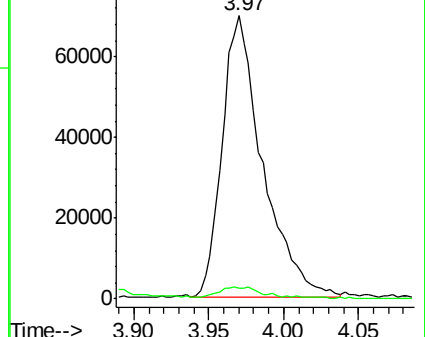
45 100

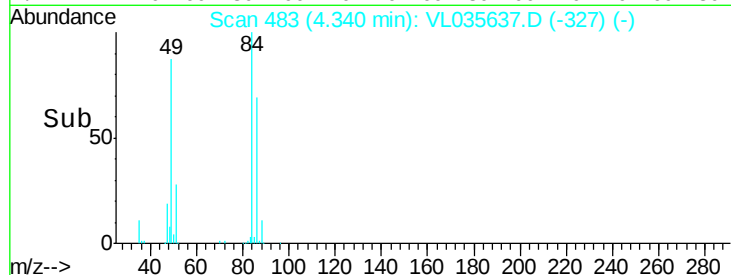
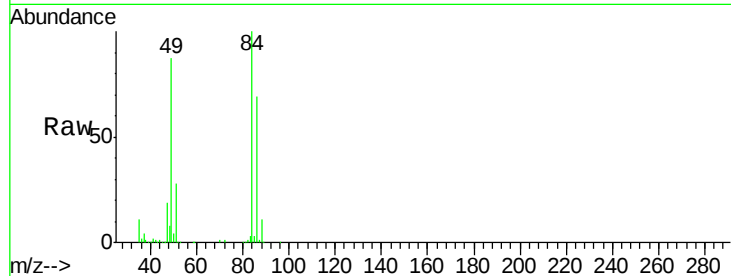
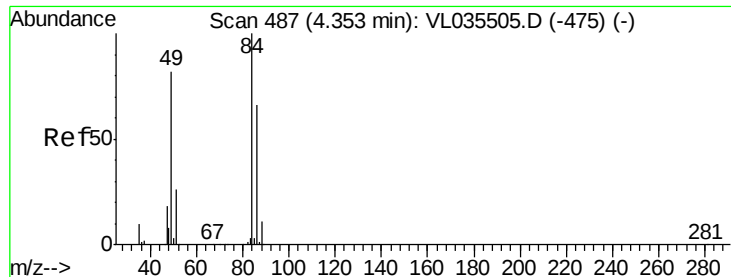
58 5.5 2.0 3.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





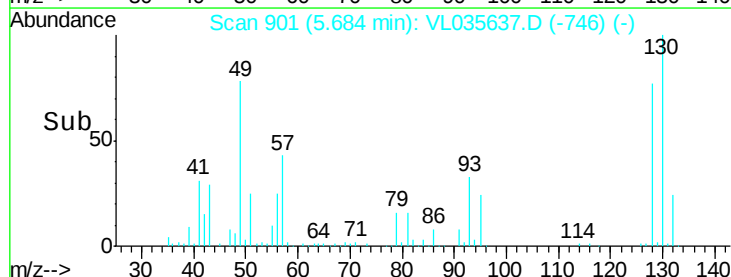
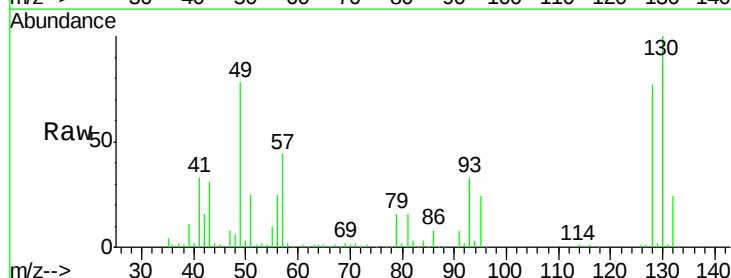
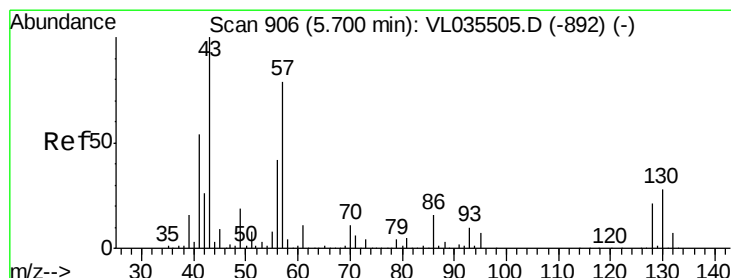
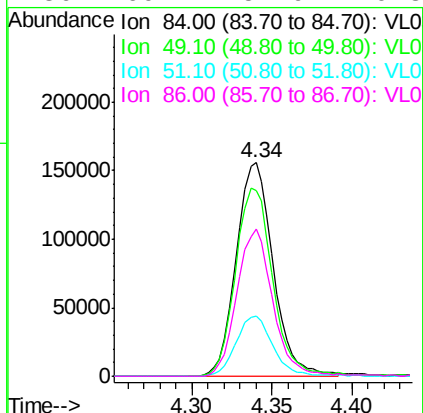
#20
Methvlene Chloride
Concen: 2.828 ppbv
RT: 4.34 min Scan# 483
Delta R.T. 0.00 min
Lab File: VL035637.D
Acq: 16 Sep 2020 20:25

Tot Ion	84	Resp	244372
Ion Ratio	Lower	Upper	
84	100		
49	86.7	65.4	98.0
51	28.1	21.5	32.3
86	69.1	52.9	79.3

Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y01

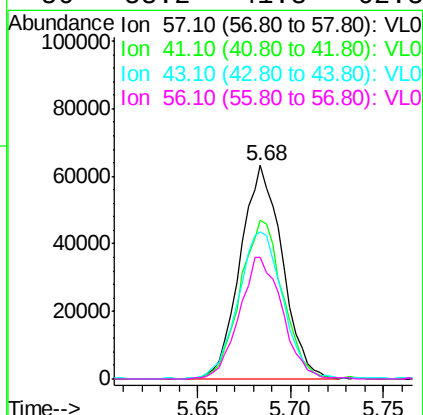
Manual Integrations
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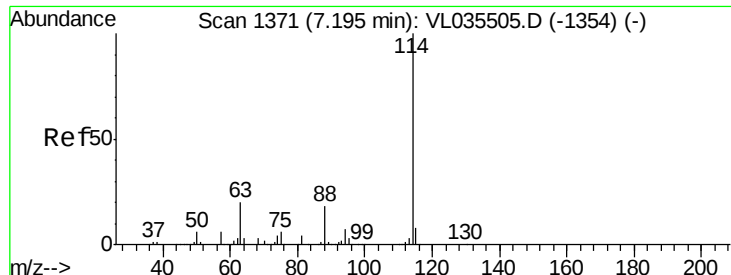
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#26
Hexane
Concen: 0.861 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL035637.D
Acq: 16 Sep 2020 20:25

Tgt Ion	57	Resp	99989
Ion Ratio	Lower	Upper	
57	100		
41	75.9	55.9	83.9
43	73.8	141.8	212.8#
56	58.2	41.8	62.8





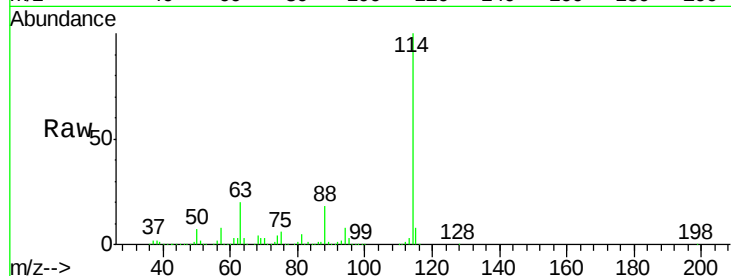
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.00 min
 Lab File: VL035637.D
 Acq: 16 Sep 2020 20:25

Instrument :
 MSVOA_L
 ClientSampleId :
 DB-IA-Y01

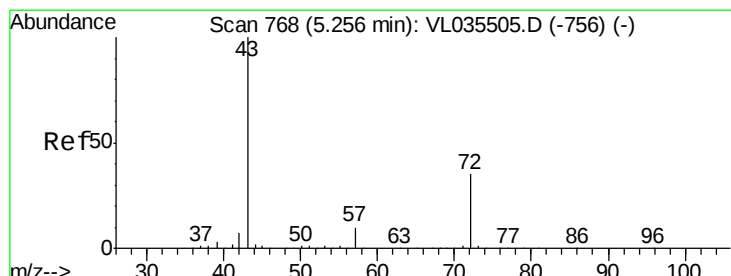
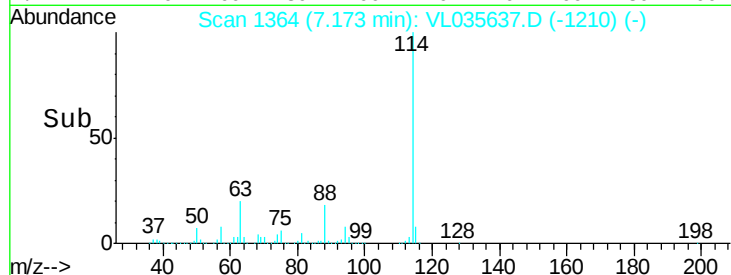
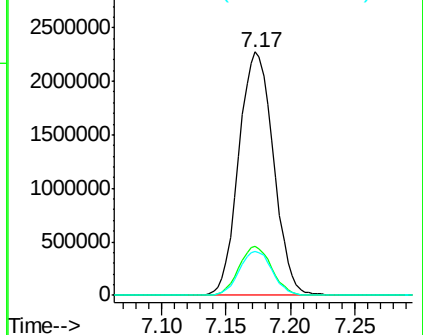
Tot Ion:114 Resp: 4269404
 Ion Ratio Lower Upper
 114 100
 63 19.3 14.7 22.1
 88 17.3 13.4 20.2

Manual Integrations
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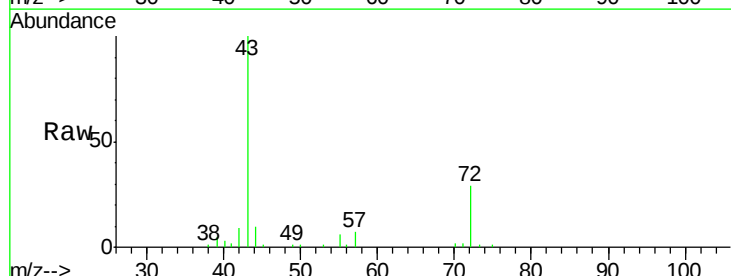


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

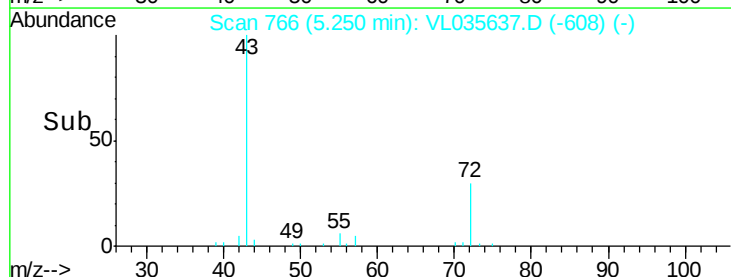
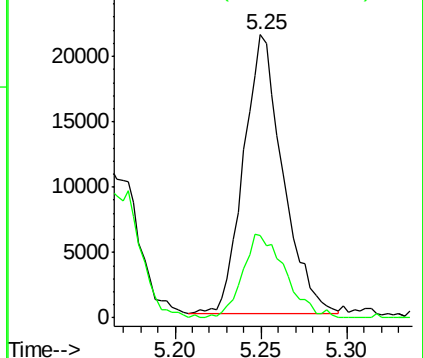


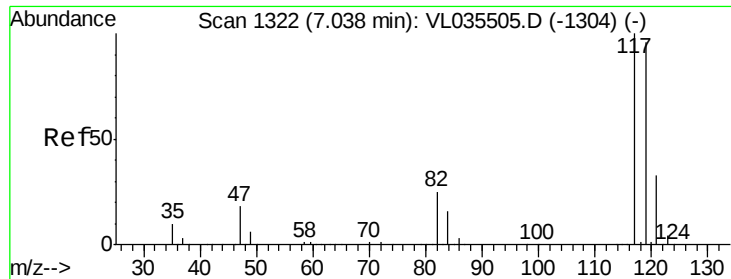
#34
 2-Butanone
 Concen: 0.265 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.01 min
 Lab File: VL035637.D
 Acq: 16 Sep 2020 20:25

Tgt Ion: 43 Resp: 33601
 Ion Ratio Lower Upper
 43 100
 72 33.0 27.7 41.5



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





#35

Carbon Tetrachloride

Concen: 0.069 ppbv

RT: 7.01 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VL035637.D

Acq: 16 Sep 2020 20:25

Instrument :

MSVOA_L

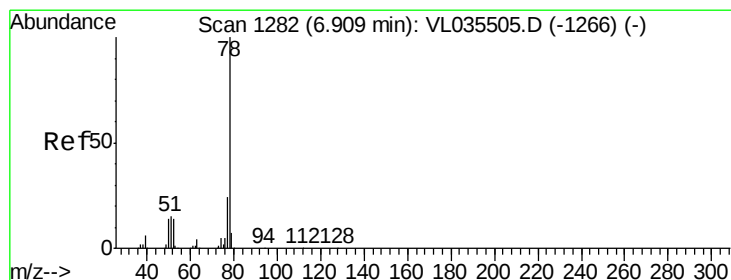
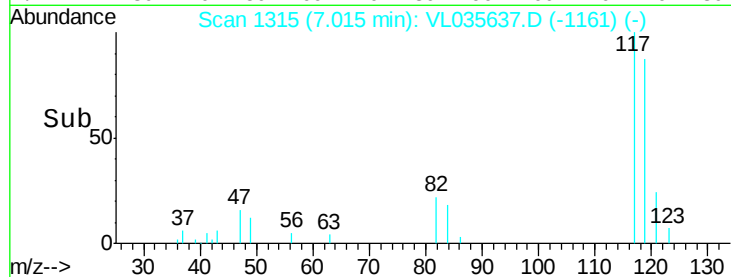
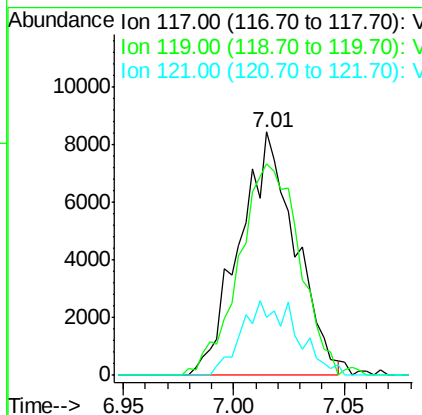
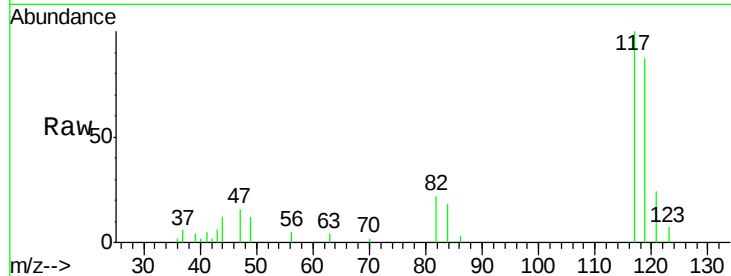
ClientSampleId :

DB-IA-Y01

Tot Ion:	117	Resp:	14850
Ion Ratio	Lower	Upper	
117	100		
119	86.9	77.2	115.8
121	23.6	26.1	39.1#

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9/17/2020 1:52:41 PM



#36

Benzene

Concen: 0.127 ppbv

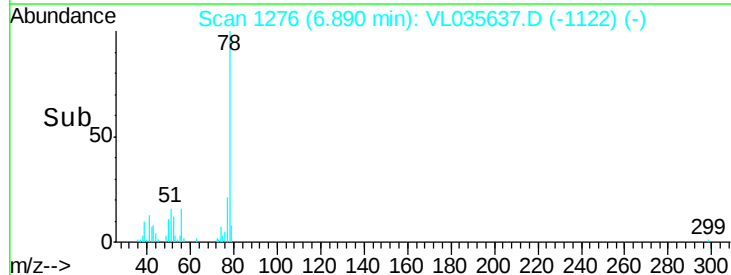
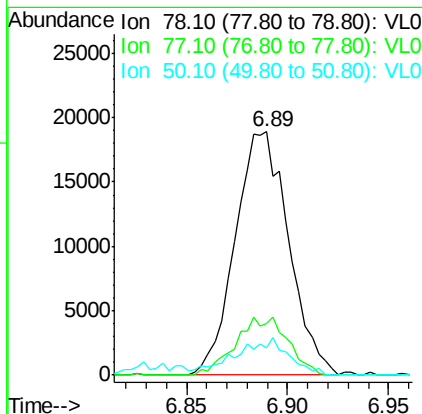
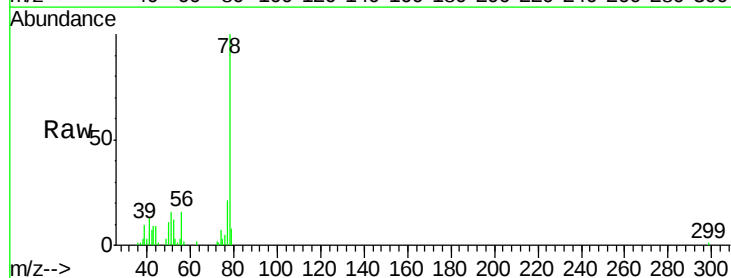
RT: 6.89 min Scan# 1276

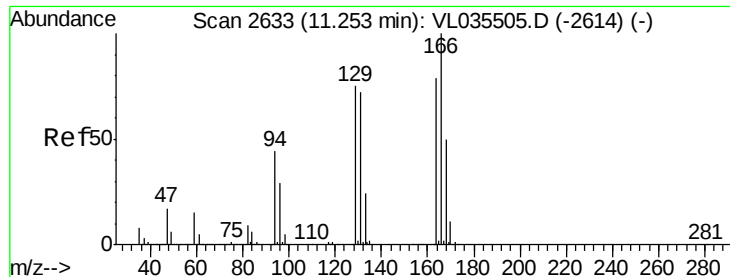
Delta R.T. -0.00 min

Lab File: VL035637.D

Acq: 16 Sep 2020 20:25

Tgt Ion:	78	Resp:	35047
Ion Ratio	Lower	Upper	
78	100		
77	21.5	19.3	28.9
50	11.4	11.0	16.6





#52

Tetrachloroethene

Concen: 0.031 ppbv m

RT: 11.22 min Scan# 2623

Delta R.T. -0.01 min

Lab File: VL035637.D

Acq: 16 Sep 2020 20:25

Instrument :

MSVOA_L

ClientSampleId :

DB-IA-Y01

Tot Ion:164 Resp: 4987

Ion Ratio Lower Upper

164 100

166 115.6 100.9 151.3

129 113.9 75.3 112.9#

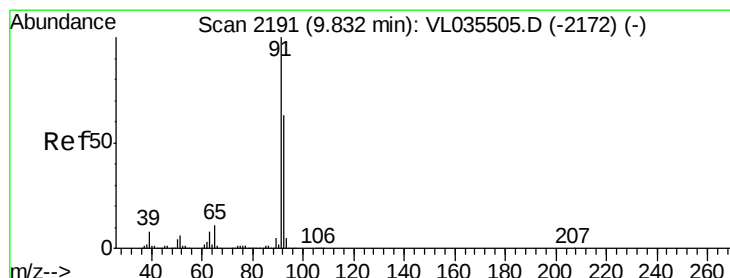
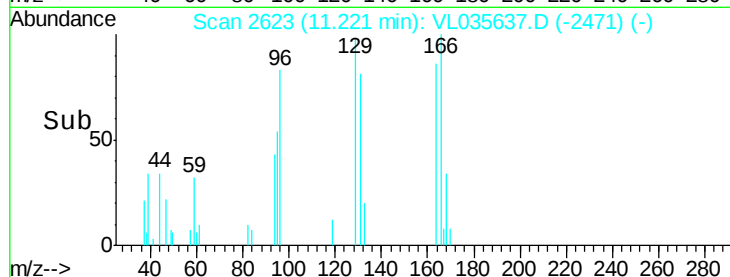
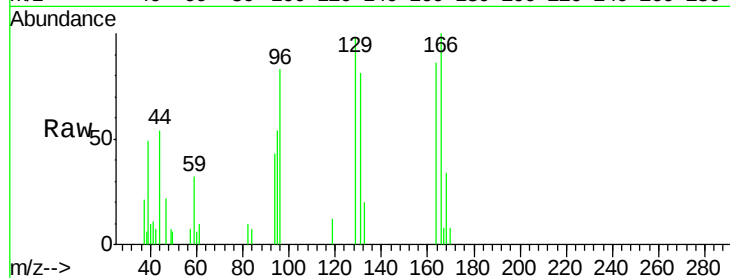
131 93.7 73.0 109.4

Manual Integrations

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9/17/2020 1:52:41 PM



#53

Toluene

Concen: 0.574 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL035637.D

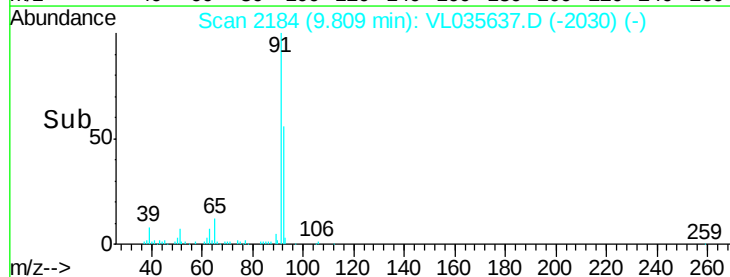
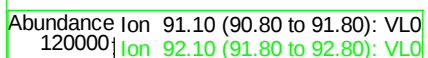
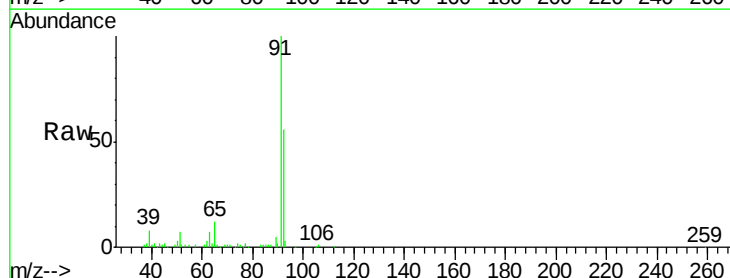
Acq: 16 Sep 2020 20:25

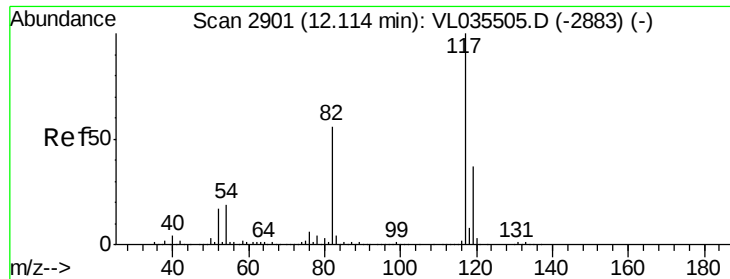
Tgt Ion: 91 Resp: 199593

Ion Ratio Lower Upper

91 100

92 58.8 49.8 74.8





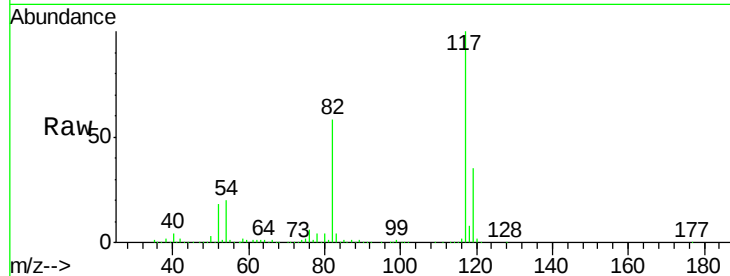
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL035637.D
Acq: 16 Sep 2020 20:25

Instrument :
MSVOA_L
ClientSampleId :
DB-IA-Y01

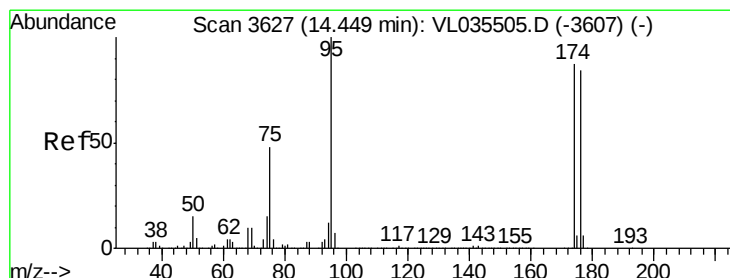
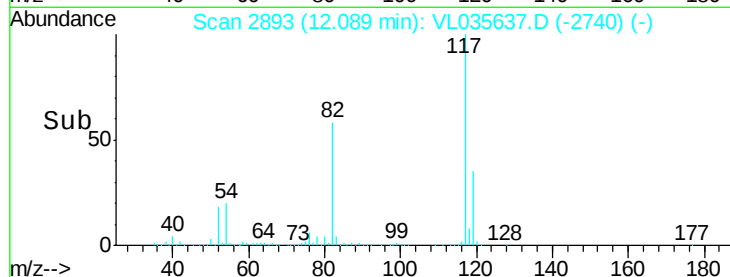
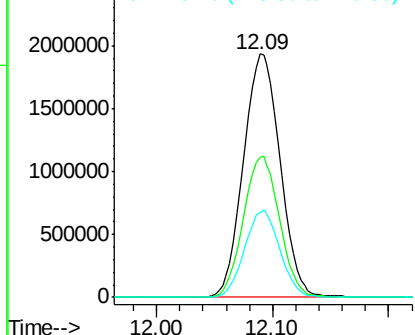
Tot Ion:117 Resp: 4267429
Ion Ratio Lower Upper
117 100
82 57.5 41.6 62.4
119 34.7 29.3 43.9

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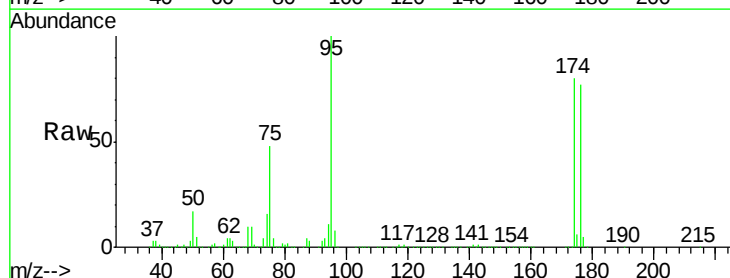


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): V
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.454 ppbv
RT: 14.42 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL035637.D
Acq: 16 Sep 2020 20:25

Tgt Ion: 95 Resp: 3167999
Ion Ratio Lower Upper
95 100
174 79.3 69.6 104.4
175 5.7 5.1 7.7



Abundance Ion 95.10 (94.80 to 95.80): V
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V

