

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035046.D
 Acq On : 19 May 2020 16:21
 Operator : SY/AP
 Sample : L2683-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DC-IADUP

Manual Integrations
 APPROVED

MMDadoda
 5/20/2020 4:27:15 PM

Quant Time: May 20 05:56:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 0
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1113630	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2547564	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	2352403	10.00	ppbv	-0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.43	95	1997405	10.49	ppbv	-0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	42566	0.269	ppbv	91
3) Chlorodifluoromethane	2.94	51	44768m	0.352	ppbv	
4) Chloromethane	3.09	50	35910	0.493	ppbv #	87
9) Propene	2.98	41	44280	0.803	ppbv #	73
11) Trichlorofluoromethane	3.91	101	40992	0.252	ppbv	98
13) Ethanol	3.56	45	235567	12.939	ppbv	97
15) Acetone	3.81	43	851558	5.784	ppbv	100
19) Isopropyl Alcohol	3.94	45	77667m	0.791	ppbv	
20) Methylene Chloride	4.31	84	127601	2.618	ppbv	94
26) Hexane	5.66	57	150875	1.407	ppbv #	40
34) 2-Butanone	5.22	43	37500	0.237	ppbv	93
35) Carbon Tetrachloride	7.01	117	9204m	0.057	ppbv	
52) Tetrachloroethene	11.23	164	137963m	1.847	ppbv	
53) Toluene	9.81	91	344410	1.547	ppbv	97

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

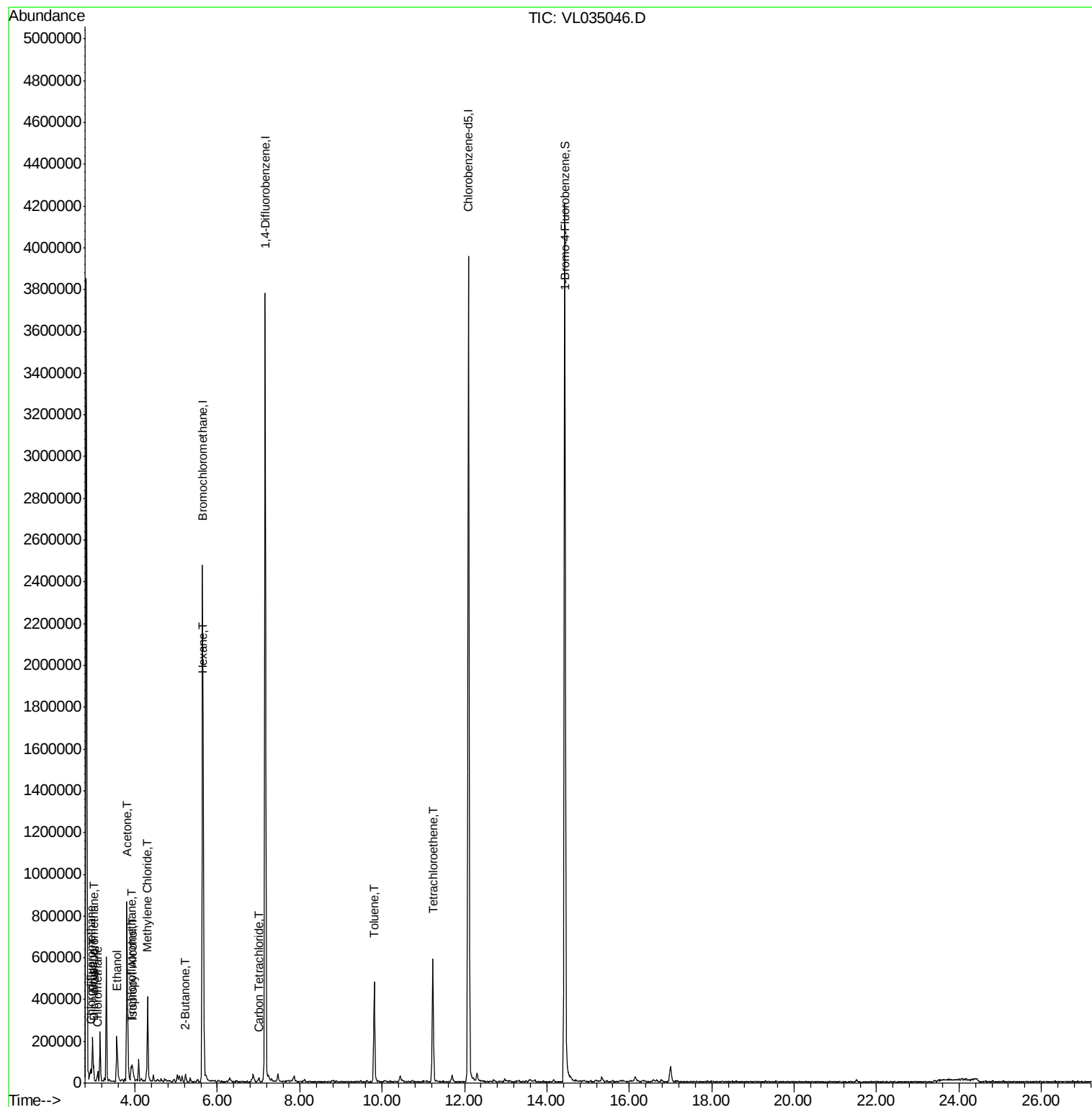
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051920\
Data File : VL035046.D
Acq On : 19 May 2020 16:21
Operator : SY/AP
Sample : L2683-01DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

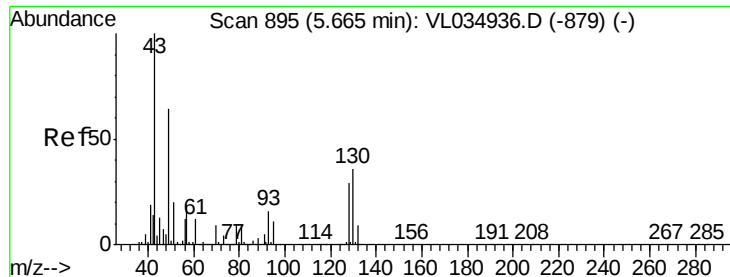
Instrument :
MSVOA_L
ClientSampleId :
DC-IADUP

Manual Integrations
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5/20/2020 4:27:15 PM

Quant Time: May 20 05:56:37 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed May
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration





#1

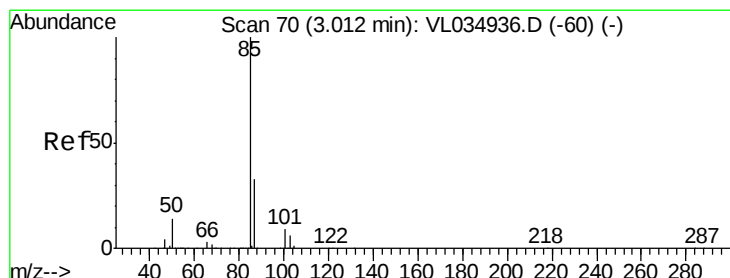
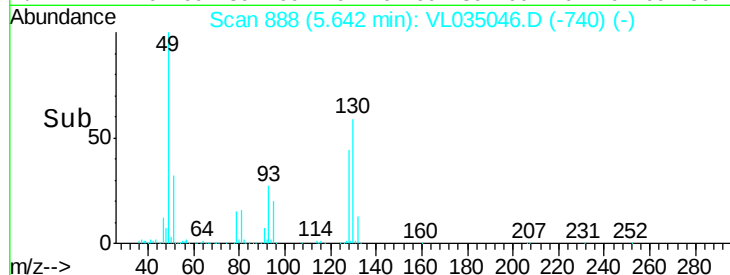
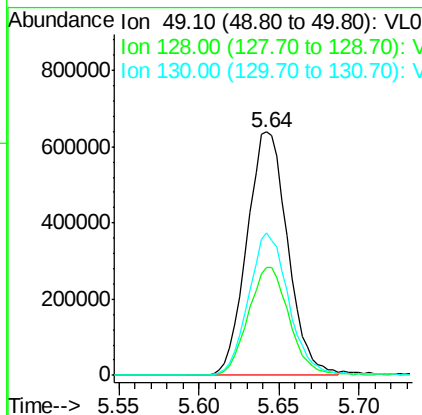
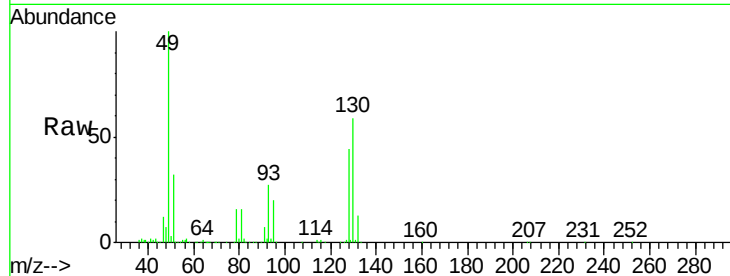
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.64 min Scan# 888
 Delta R.T. -0.02 min
 Lab File: VL035046.D
 Acq: 19 May 2020 16:21

Instrument :
 MSVOA_L
 ClientSampleId :
 DC-IADUP

Tot Ion: 49 Resp: 1113630
 Ion Ratio Lower Upper
 49 100
 128 44.7 22.1 66.5
 130 58.3 29.1 87.3

Manual Integrations
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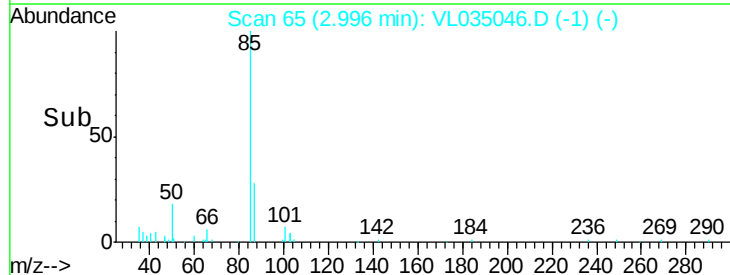
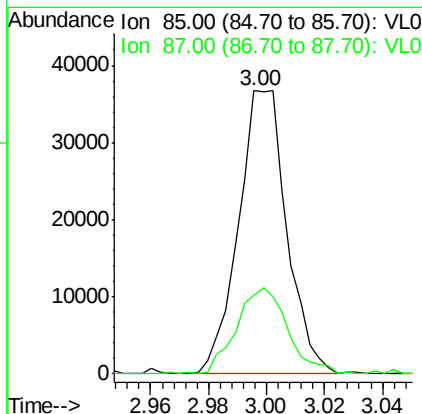
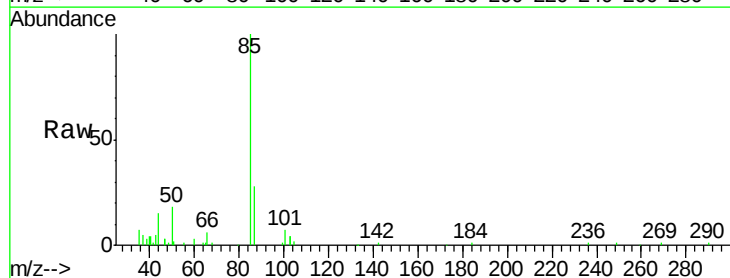
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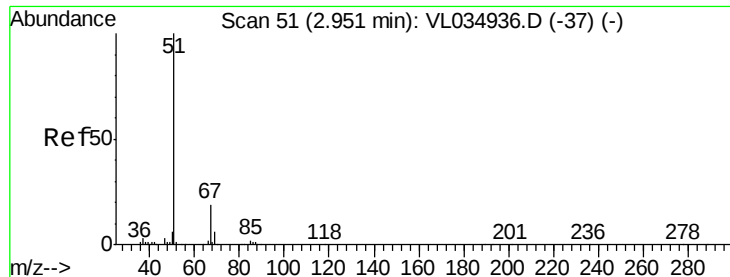


#2

Dichlorodifluoromethane
 Concen: 0.269 ppbv
 RT: 3.00 min Scan# 65
 Delta R.T. -0.02 min
 Lab File: VL035046.D
 Acq: 19 May 2020 16:21

Tgt Ion: 85 Resp: 42566
 Ion Ratio Lower Upper
 85 100
 87 27.8 26.2 39.2





#3

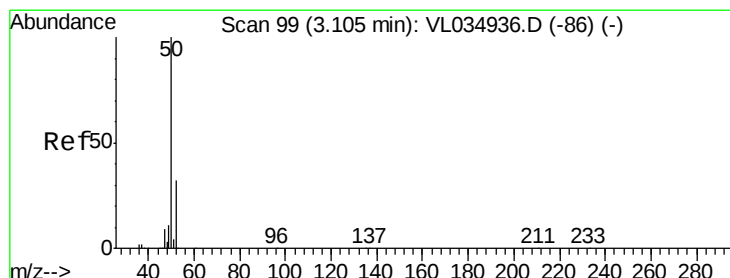
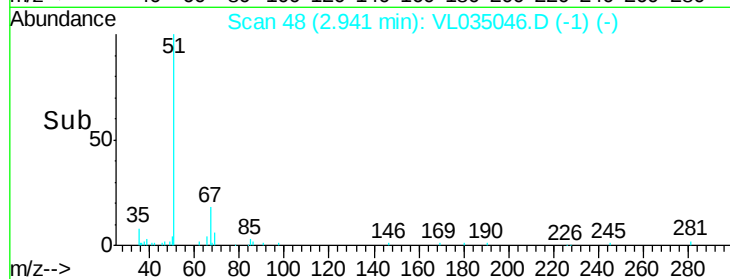
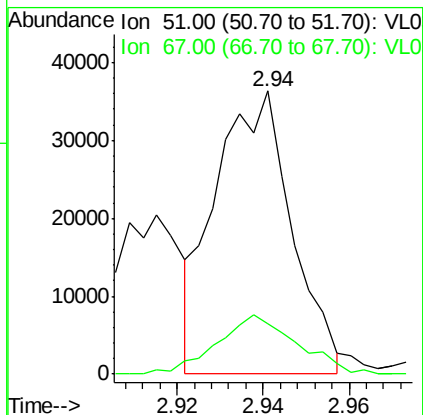
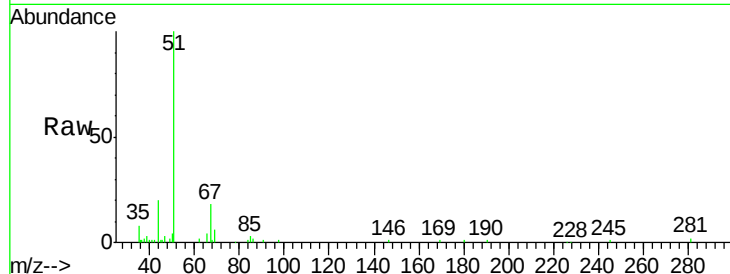
Chlorodifluoromethane
 Concen: 0.352 ppbv
 RT: 2.94 min Scan# 48
 Delta R.T. -0.01 min
 Lab File: VL035046.D
 Acq: 19 May 2020 16:21

Instrument :
 MSVOA_L
 ClientSampleId :
 DC-IADUP

Tot Ion	Ratio	Lower	Upper
51	100		
67	22.0	15.0	22.6

Manual Integrations
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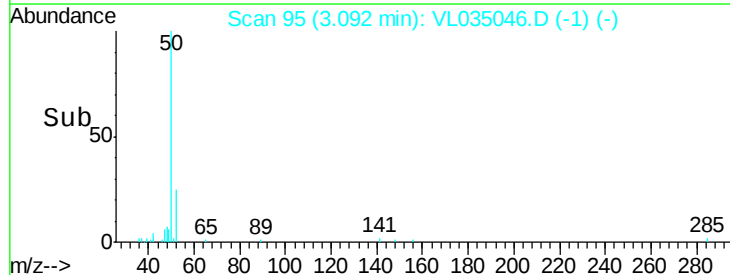
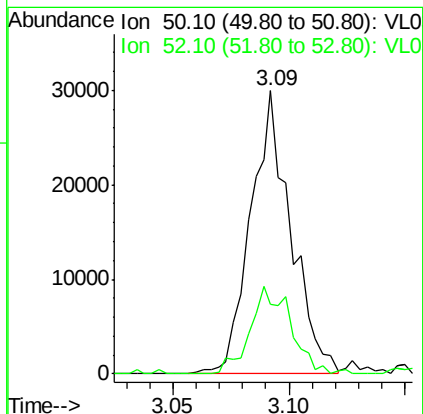
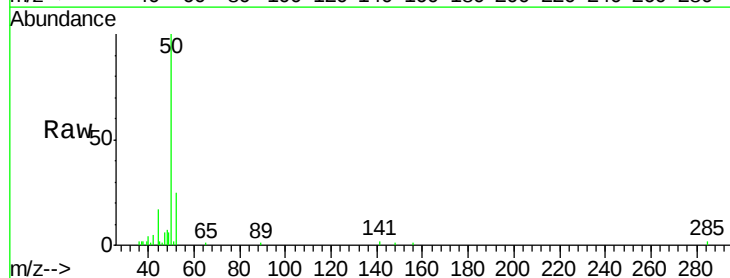
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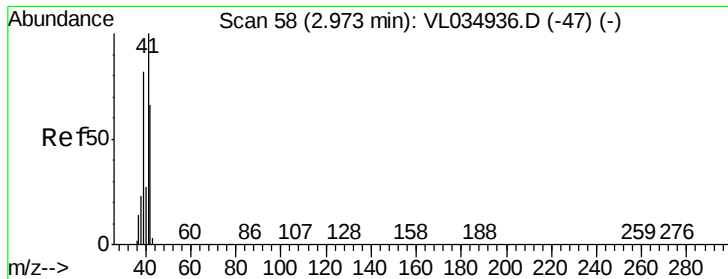


#4

Chloromethane
 Concen: 0.493 ppbv
 RT: 3.09 min Scan# 95
 Delta R.T. -0.01 min
 Lab File: VL035046.D
 Acq: 19 May 2020 16:21

Tgt Ion	Ratio	Lower	Upper
50	100		
52	24.5	25.4	38.2





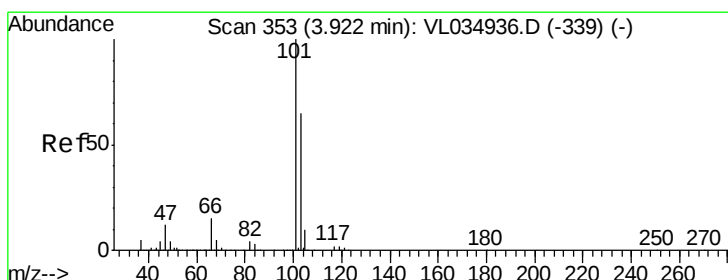
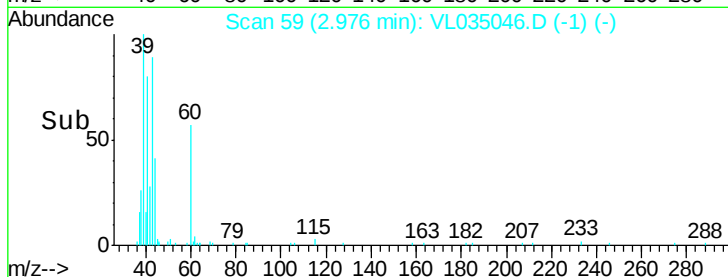
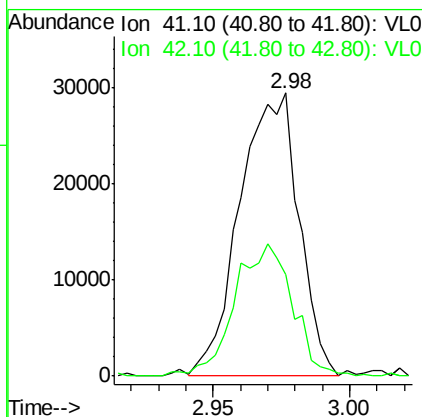
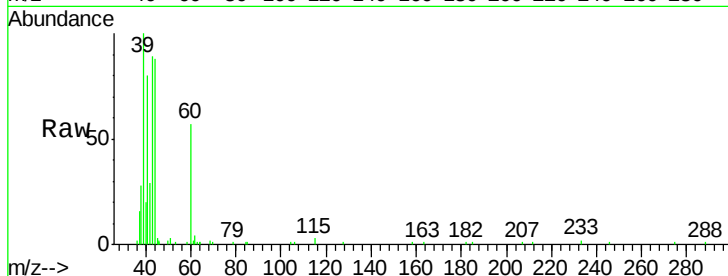
#9
 Propene
 Concen: 0.803 ppbv
 RT: 2.98 min Scan# 59
 Delta R.T. 0.00 min
 Lab File: VL035046.D
 Acq: 19 May 2020 16:21

Instrument :
 MSVOA_L
 ClientSampleId :
 DC-IADUP

Tot Ion: 41 Resp: 44280
 Ion Ratio Lower Upper
 41 100
 42 46.1 54.5 81.7#

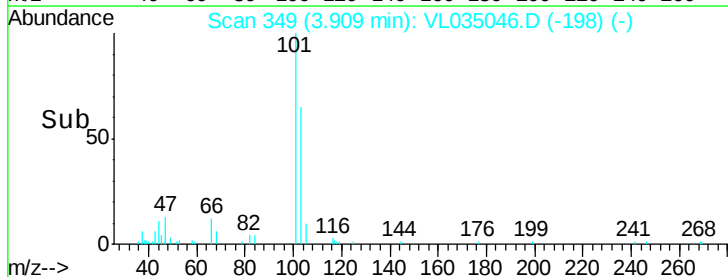
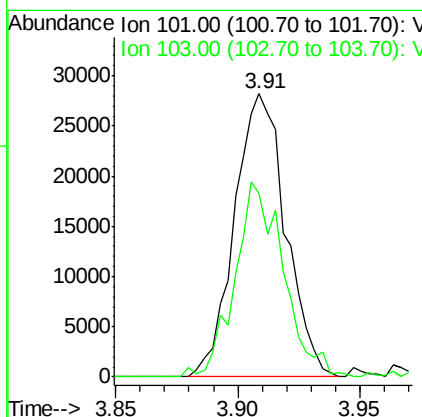
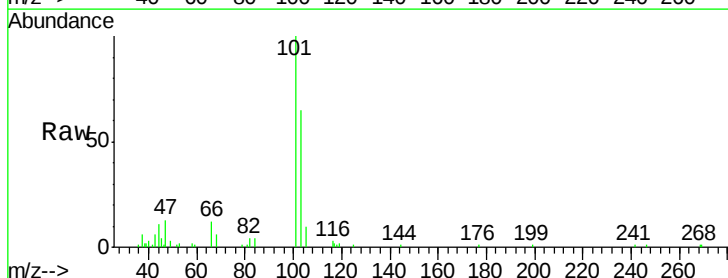
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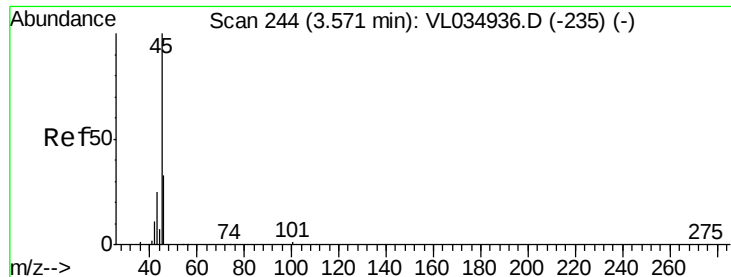
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#11
 Trichlorofluoromethane
 Concen: 0.252 ppbv
 RT: 3.91 min Scan# 349
 Delta R.T. -0.01 min
 Lab File: VL035046.D
 Acq: 19 May 2020 16:21

Tgt Ion: 101 Resp: 40992
 Ion Ratio Lower Upper
 101 100
 103 63.5 51.9 77.9





#13

Ethanol

Concen: 12.939 ppbv

RT: 3.56 min Scan# 241

Delta R.T. -0.01 min

Lab File: VL035046.D

Acq: 19 May 2020 16:21

Instrument :

MSVOA_L

ClientSampleId :

DC-IADUP

Tot Ion: 45 Resp: 235567

Ion Ratio Lower Upper

45 100

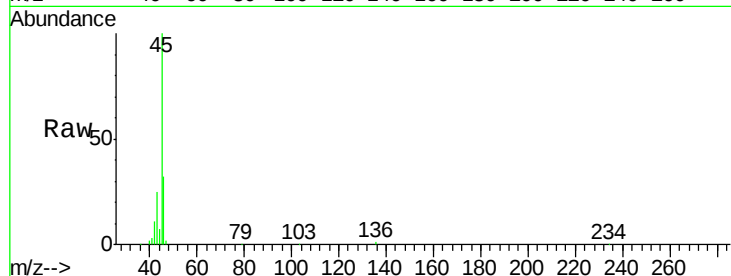
46 37.5 14.3 57.3

Manual Integrations

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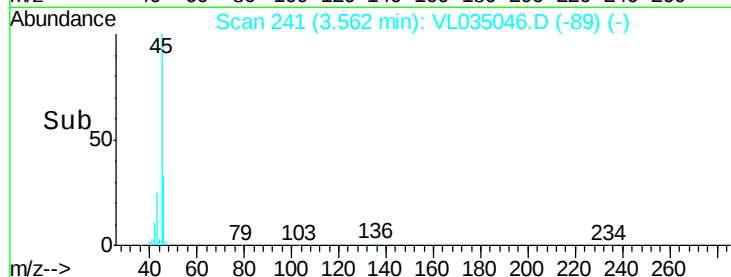
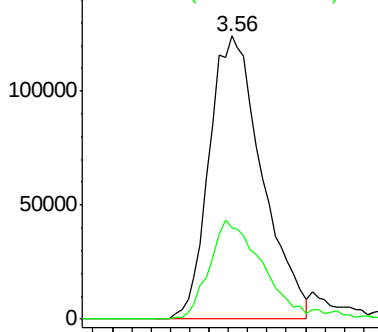
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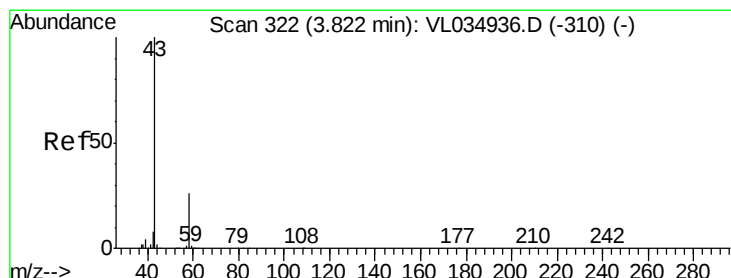


Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



Time-->



#15

Acetone

Concen: 5.784 ppbv

RT: 3.81 min Scan# 317

Delta R.T. -0.02 min

Lab File: VL035046.D

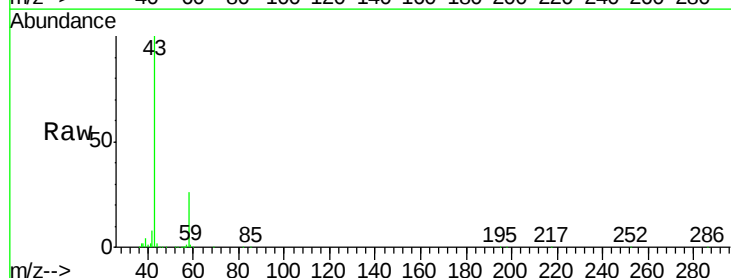
Acq: 19 May 2020 16:21

Tgt Ion: 43 Resp: 851558

Ion Ratio Lower Upper

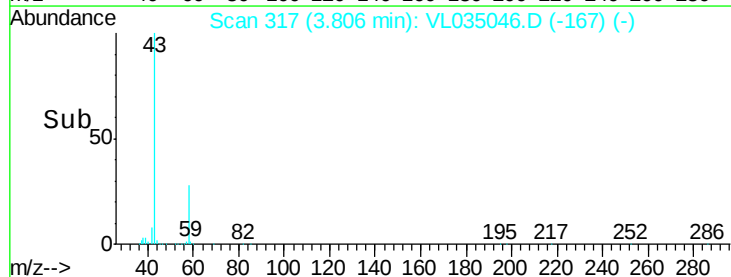
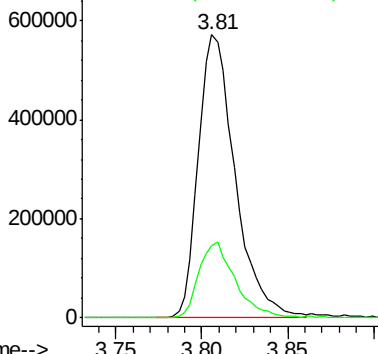
43 100

58 27.0 21.7 32.5

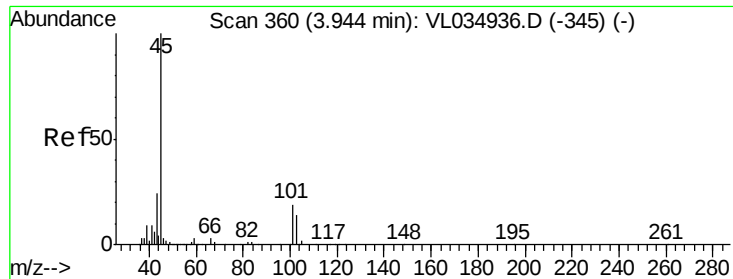


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



Time-->



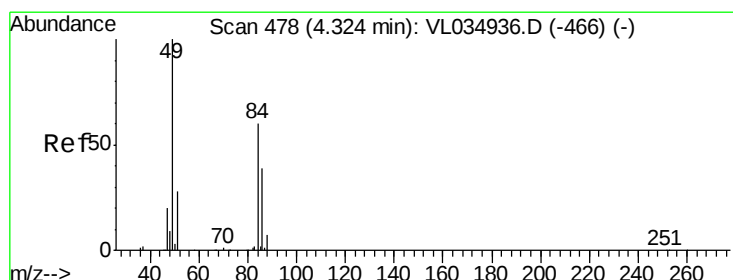
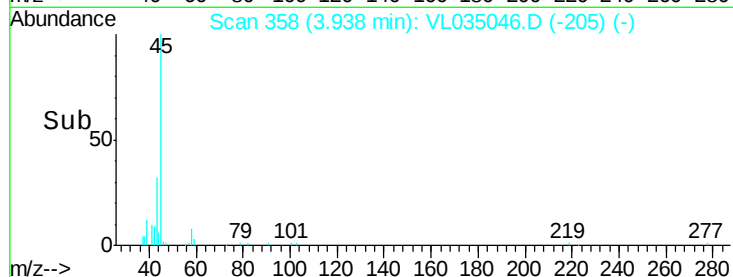
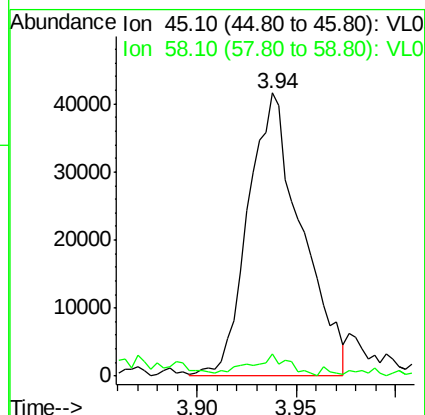
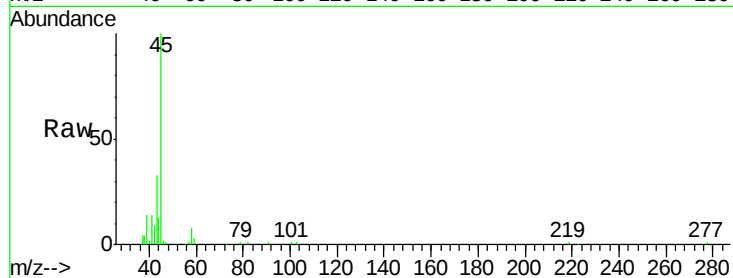
#19
Isopropyl Alcohol
Concen: 0.791 ppbv m
RT: 3.94 min Scan# 358
Delta R.T. -0.01 min
Lab File: VL035046.D
Acq: 19 May 2020 16:21

Instrument :
MSVOA_L
ClientSampleId :
DC-IADUP

Tot Ion: 45 Resp: 77667
Ion Ratio Lower Upper
45 100
58 0.0 1.7 2.5#

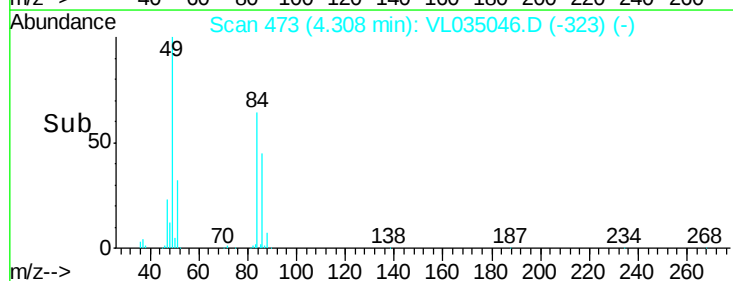
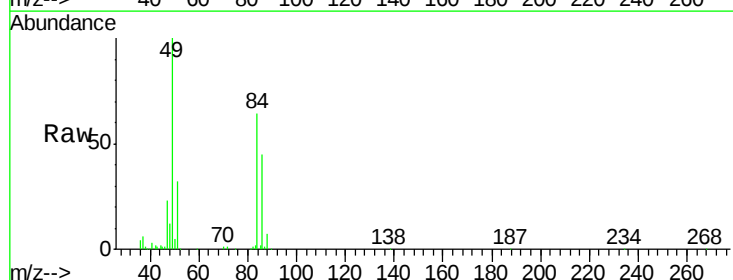
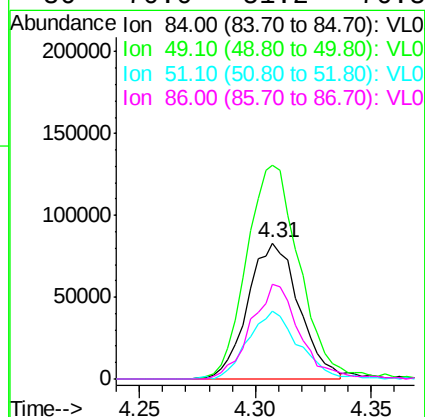
Manual Integrations
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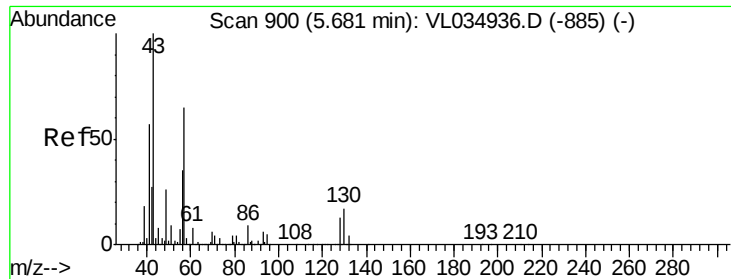
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#20
Methylene Chloride
Concen: 2.618 ppbv
RT: 4.31 min Scan# 473
Delta R.T. -0.02 min
Lab File: VL035046.D
Acq: 19 May 2020 16:21

Tgt Ion: 84 Resp: 127601
Ion Ratio Lower Upper
84 100
49 156.7 132.5 198.7
51 50.2 38.4 57.6
86 70.0 51.2 76.8





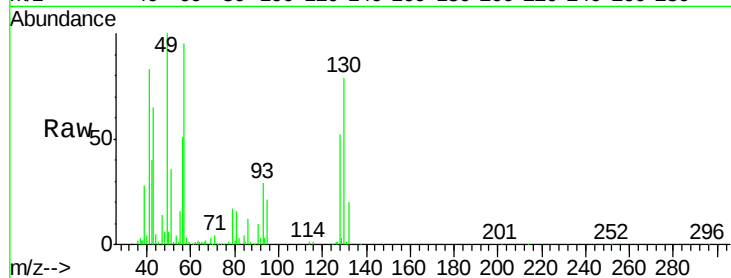
#26
Hexane
Concen: 1.407 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.02 min
Lab File: VL035046.D
Acq: 19 May 2020 16:21

Instrument :
MSVOA_L
ClientSampleId :
DC-IADUP

Tot Ion	Ratio	Lower	Upper
57	100		
41	97.8	72.7	109.1
43	76.4	182.1	273.1#
56	59.6	42.2	63.2

Manual Integrations
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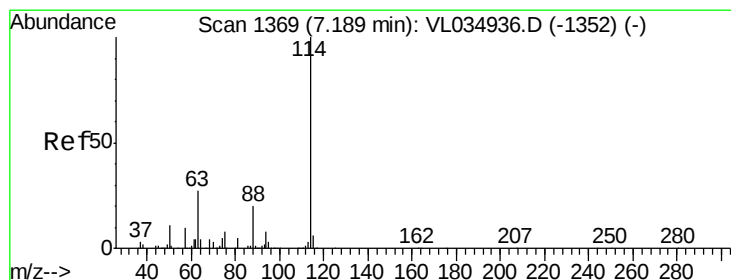
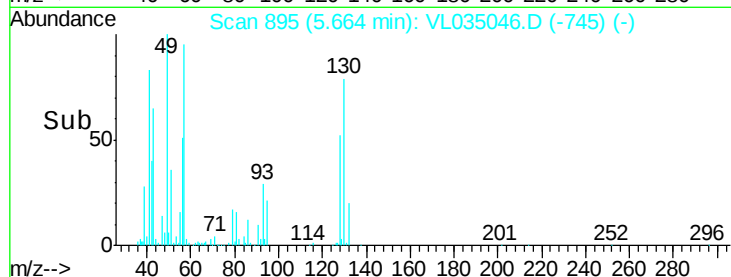
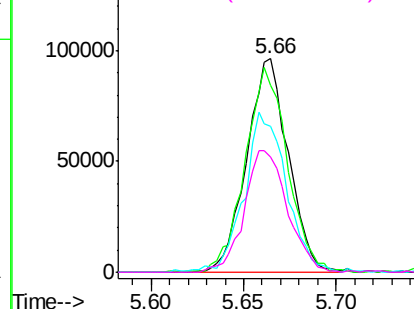
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

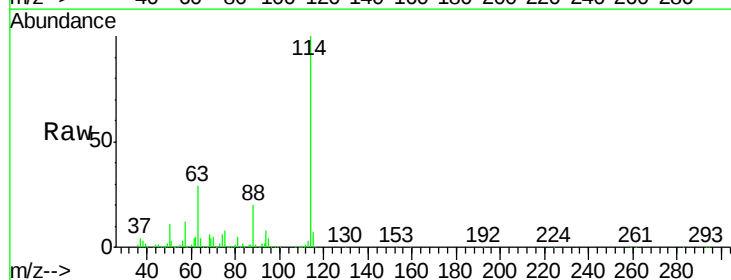
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. -0.03 min
Lab File: VL035046.D
Acq: 19 May 2020 16:21

Tgt Ion	Ratio	Lower	Upper
114	100		
63	28.1	22.2	33.4
88	19.7	15.5	23.3

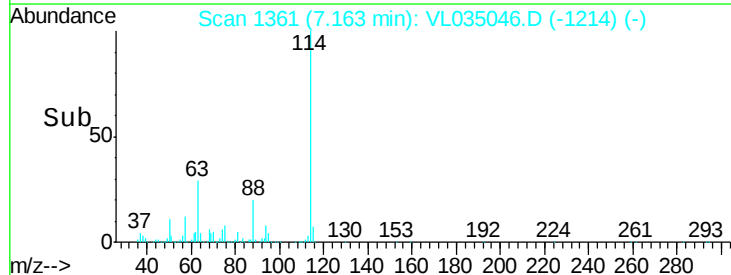
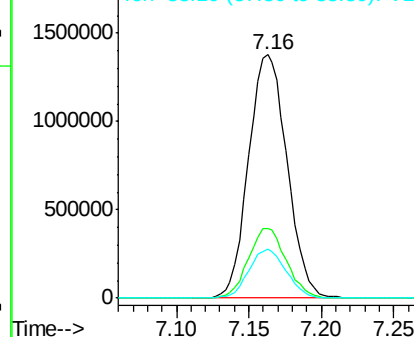


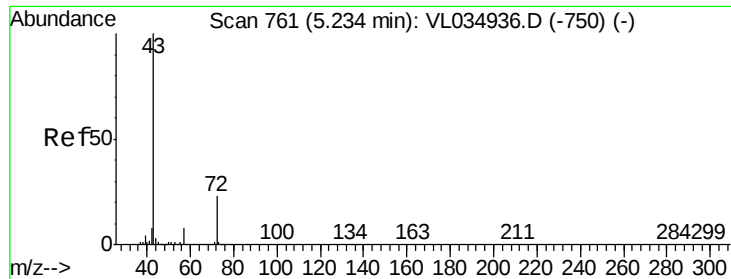
Abundance

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





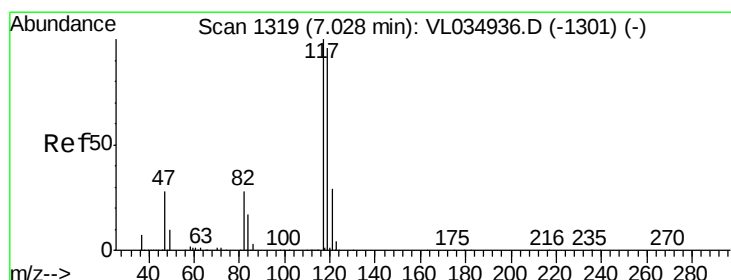
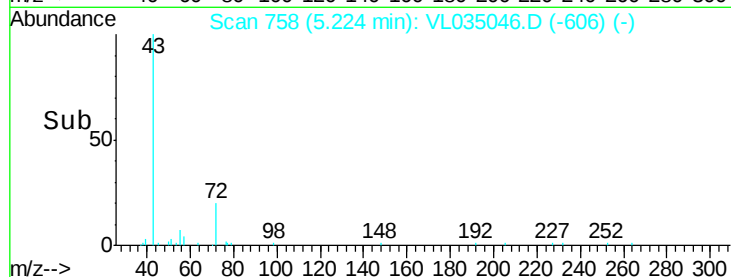
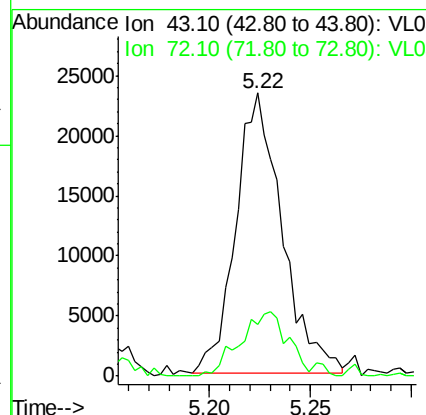
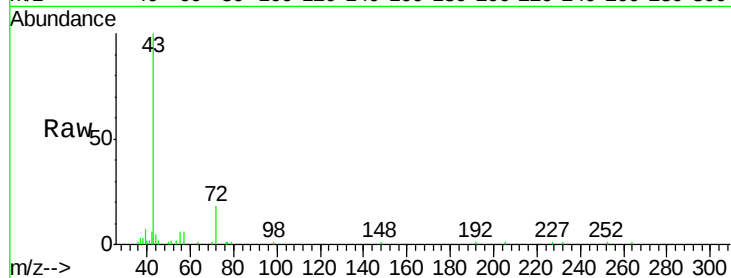
#34
2-Butanone
Concen: 0.237 ppbv
RT: 5.22 min Scan# 758
Delta R.T. -0.01 min
Lab File: VL035046.D
Acq: 19 May 2020 16:21

Instrument :
MSVOA_L
ClientSampleId :
DC-IADUP

Tot Ion: 43 Resp: 37500
Ion Ratio Lower Upper
43 100
72 25.6 18.0 27.0

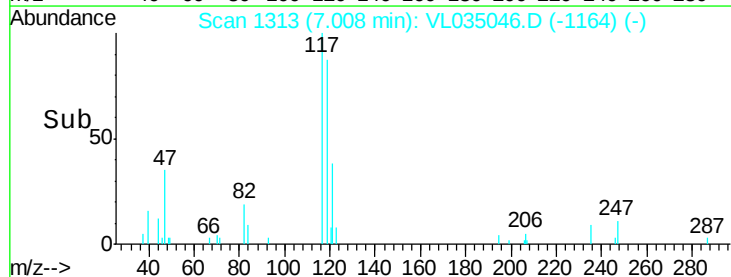
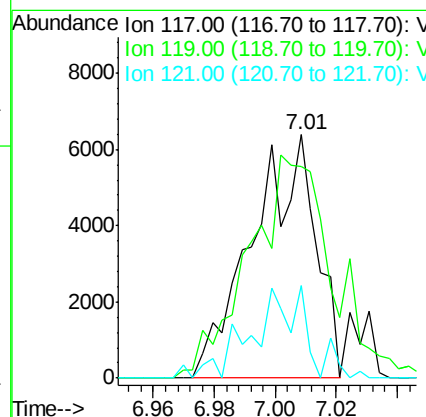
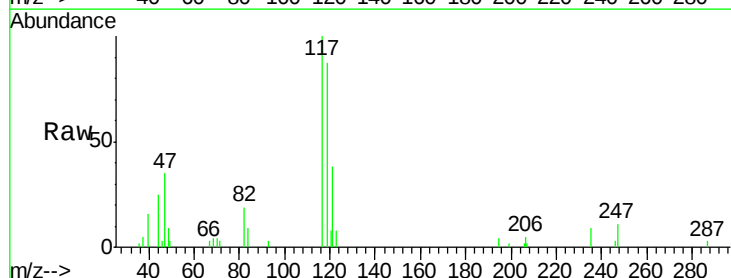
Manual Integrations
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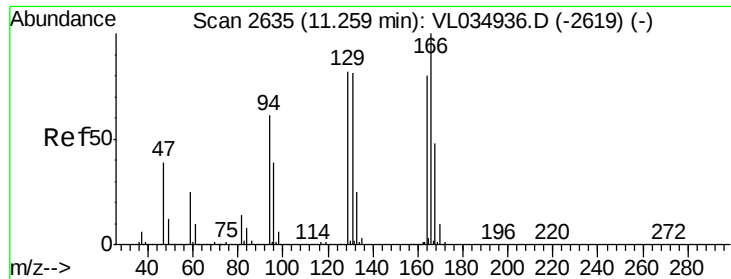
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#35
Carbon Tetrachloride
Concen: 0.057 ppbv m
RT: 7.01 min Scan# 1313
Delta R.T. -0.02 min
Lab File: VL035046.D
Acq: 19 May 2020 16:21

Tgt Ion: 117 Resp: 9204
Ion Ratio Lower Upper
117 100
119 87.0 77.0 115.6
121 37.9 23.0 34.6#





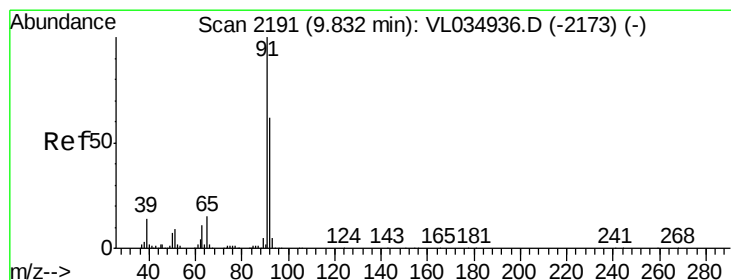
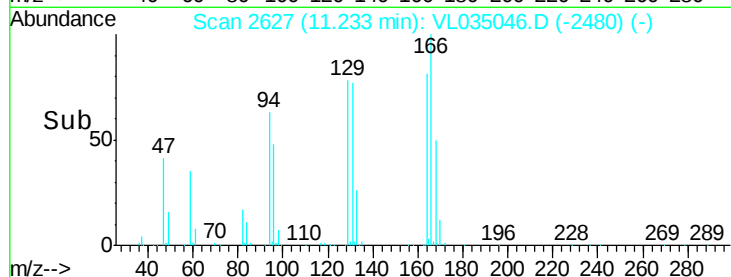
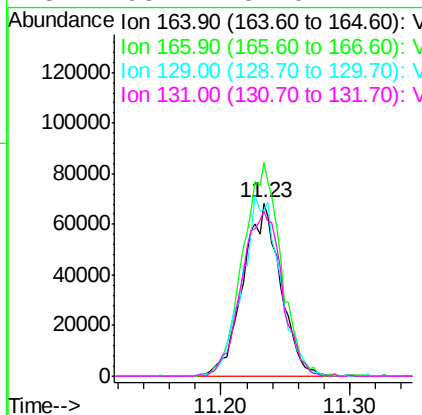
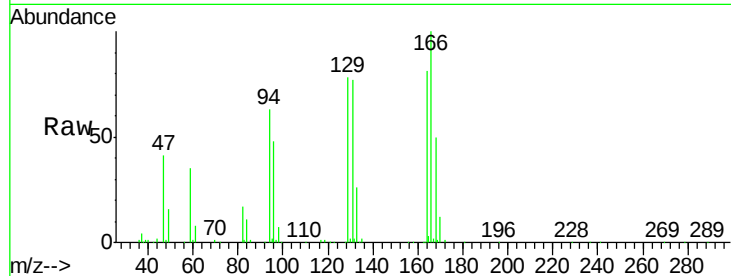
#52
Tetrachloroethene
Concen: 1.847 ppbv m
RT: 11.23 min Scan# 2627
Delta R.T. -0.03 min
Lab File: VL035046.D
Acq: 19 May 2020 16:21

Instrument :
MSVOA_L
ClientSampleId :
DC-IADUP

Tot Ion	Ratio	Lower	Upper
164	100		
166	123.5	100.7	151.1
129	95.9	83.0	124.4
131	95.1	81.0	121.4

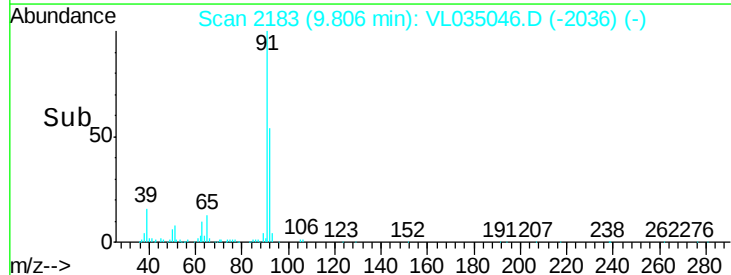
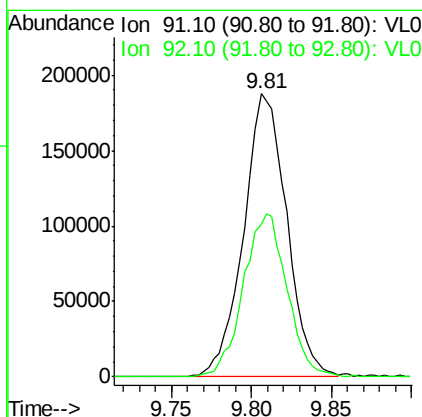
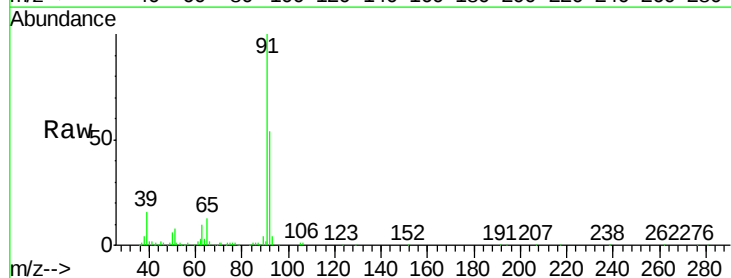
Manual Integrations
APPROVED

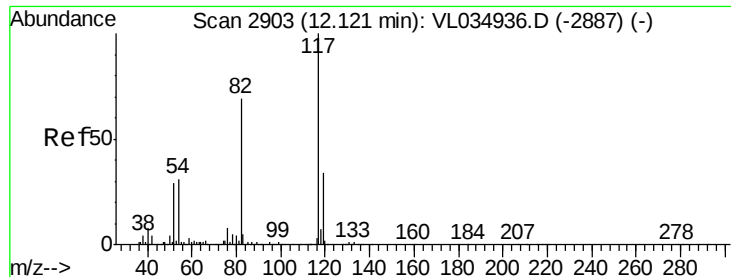
MMDadoda
5/20/2020 4:27:15 PM



#53
Toluene
Concen: 1.547 ppbv
RT: 9.81 min Scan# 2183
Delta R.T. -0.03 min
Lab File: VL035046.D
Acq: 19 May 2020 16:21

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.4	48.6	73.0





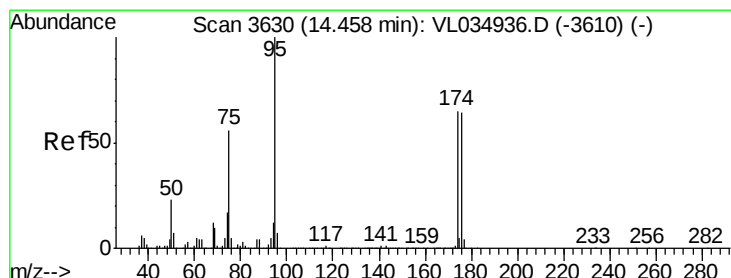
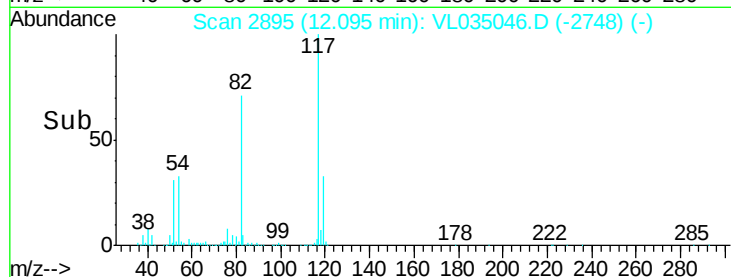
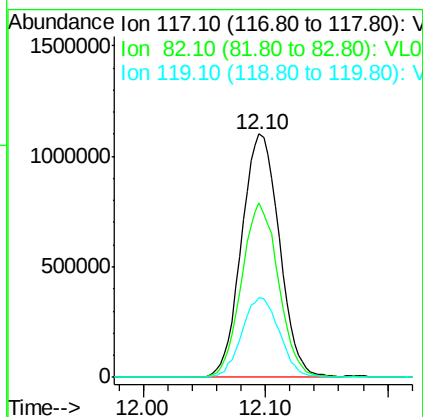
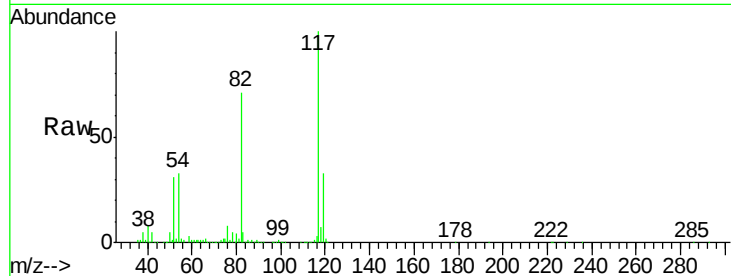
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. -0.03 min
Lab File: VL035046.D
Acq: 19 May 2020 16:21

Instrument :
MSVOA_L
ClientSampleId :
DC-IADUP

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.3	53.1	79.7
119	32.7	26.7	40.1

Manual Integrations
APPROVED

MMDadoda
5/20/2020 4:27:15 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.490 ppbv
RT: 14.43 min Scan# 3622
Delta R.T. -0.03 min
Lab File: VL035046.D
Acq: 19 May 2020 16:21

Tgt Ion	Ratio	Lower	Upper
95	100		
174	64.3	51.5	77.3
175	4.8	3.8	5.8

