

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051920\
 Data File : VL035045.D
 Acq On : 19 May 2020 15:40
 Operator : SY/AP
 Sample : L2683-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DC-IA

Manual Integrations
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Quant Time: May 20 05:45:49 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	1119461	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2524709	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	2359200	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2020751	10.58	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.00	85	44678m	0.281	ppbv	
3) Chlorodifluoromethane	2.94	51	44198m	0.346	ppbv	
4) Chloromethane	3.09	50	37087	0.506	ppbv	97
9) Propene	2.97	41	39405	0.710	ppbv #	79
11) Trichlorofluoromethane	3.91	101	40122	0.245	ppbv	89
13) Ethanol	3.56	45	239133	13.067	ppbv	97
15) Acetone	3.81	43	861717	5.822	ppbv	99
19) Isopropyl Alcohol	3.94	45	90272m	0.915	ppbv	
20) Methylene Chloride	4.31	84	101984	2.082	ppbv #	94
26) Hexane	5.66	57	138303	1.283	ppbv #	40
34) 2-Butanone	5.23	43	37051	0.236	ppbv	98
35) Carbon Tetrachloride	7.00	117	10932m	0.069	ppbv	
52) Tetrachloroethene	11.23	164	136411	1.843	ppbv	95
53) Toluene	9.81	91	358503	1.625	ppbv	95

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

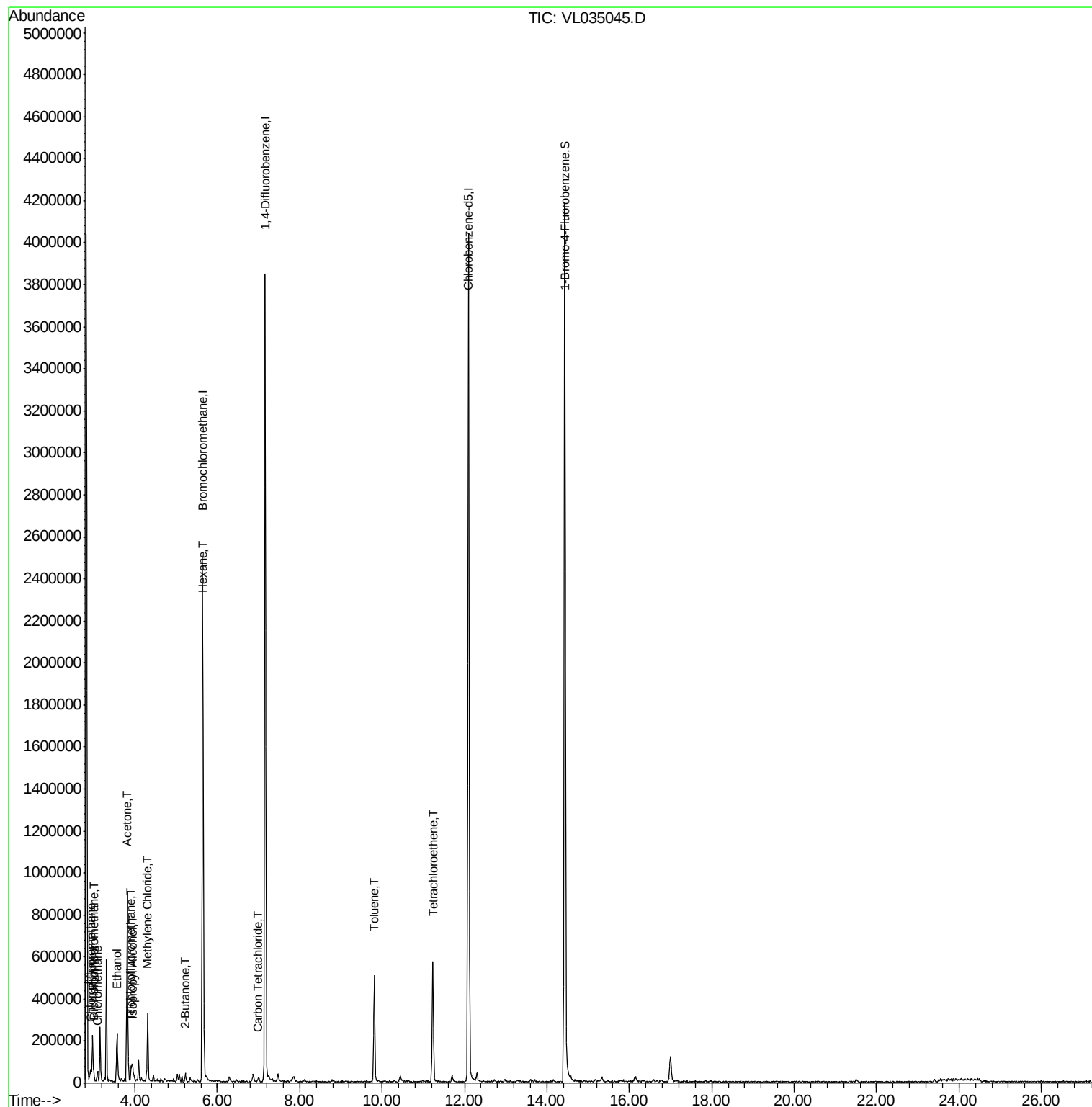
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051920\
Data File : VL035045.D
Acq On : 19 May 2020 15:40
Operator : SY/AP
Sample : L2683-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

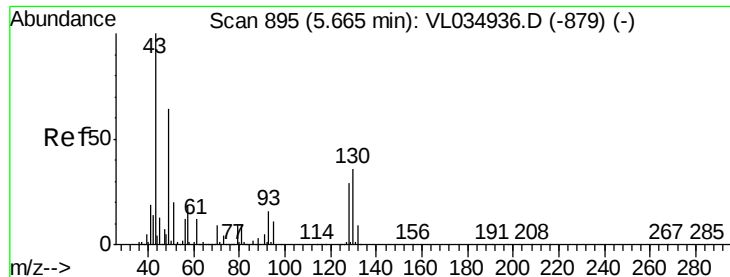
Instrument :
MSVOA_L
ClientSampleId :
DC-IA

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Quant Time: May 20 05:45:49 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: VL035045.D

Acq: 19 May 2020 15:40

Instrument :

MSVOA_L

ClientSampled :

DC-IA

Tot Ion: 49 Resp: 1119461

Ion Ratio Lower Upper

49 100

128 44.7 22.1 66.5

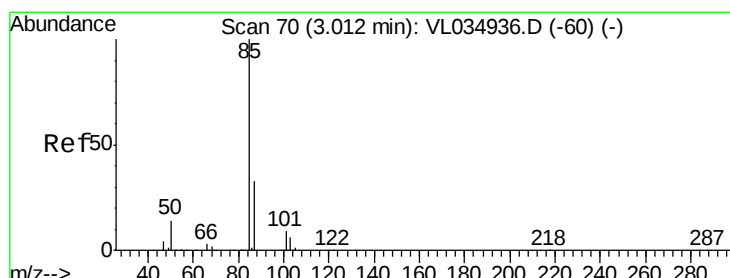
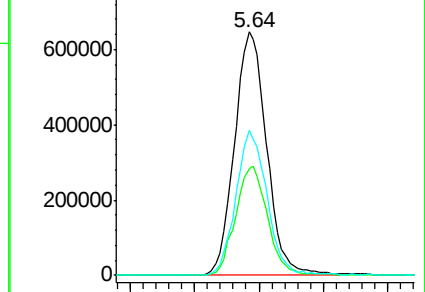
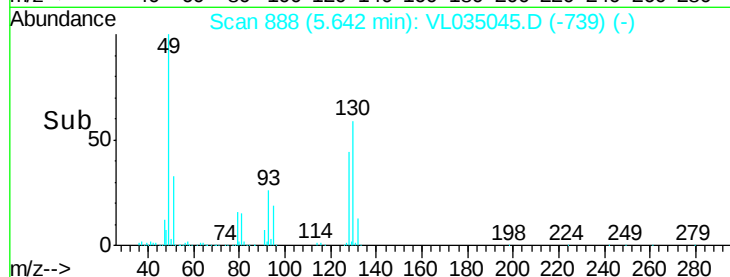
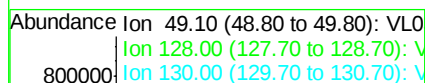
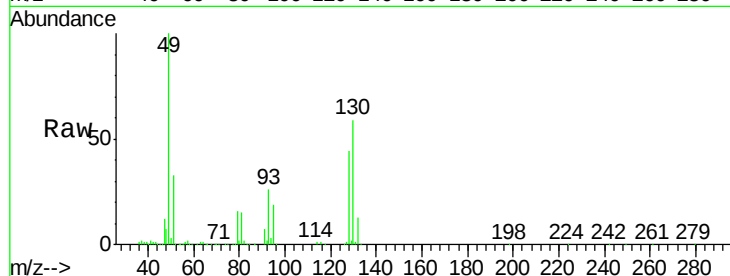
130 58.3 29.1 87.3

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.281 ppbv m

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035045.D

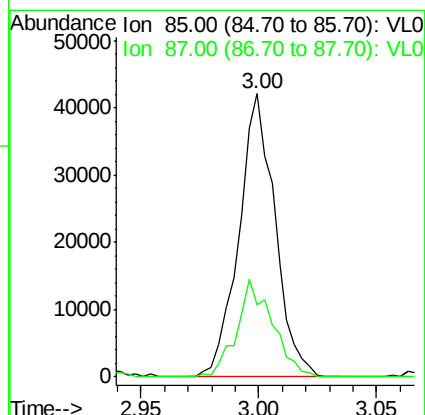
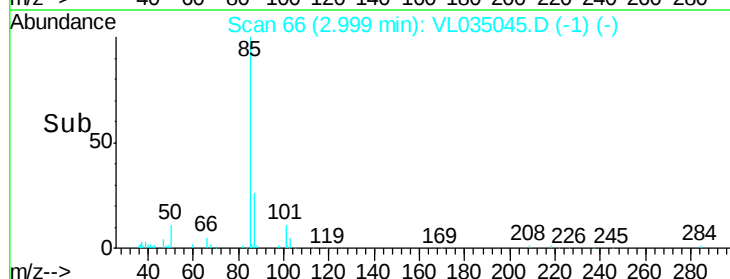
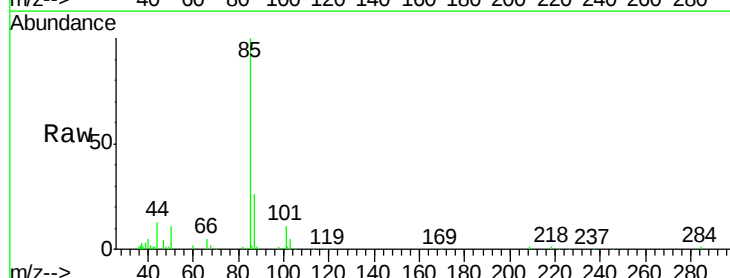
Acq: 19 May 2020 15:40

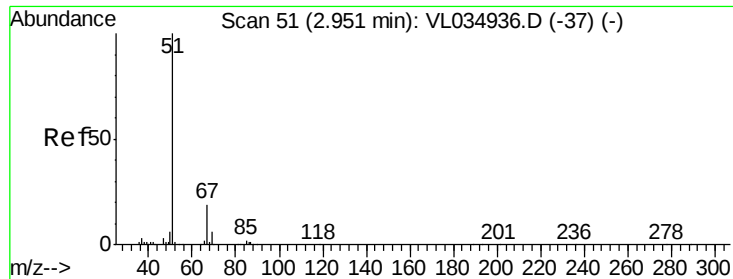
Tgt Ion: 85 Resp: 44678

Ion Ratio Lower Upper

85 100

87 25.6 26.2 39.2#





#3

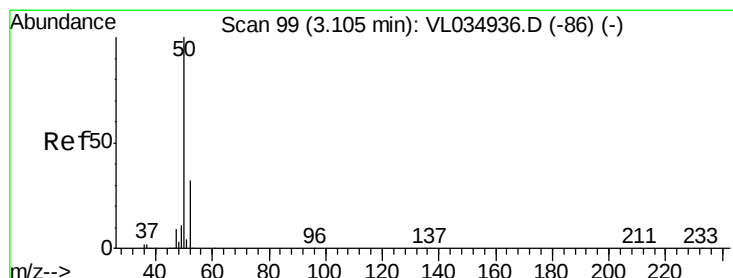
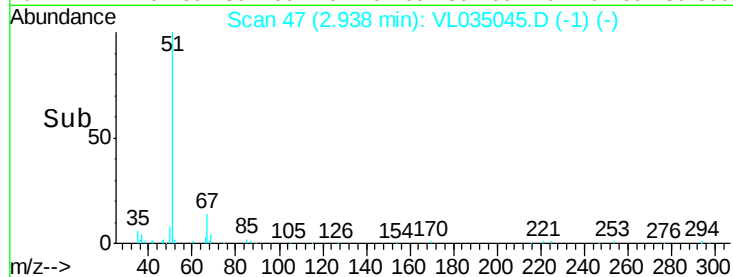
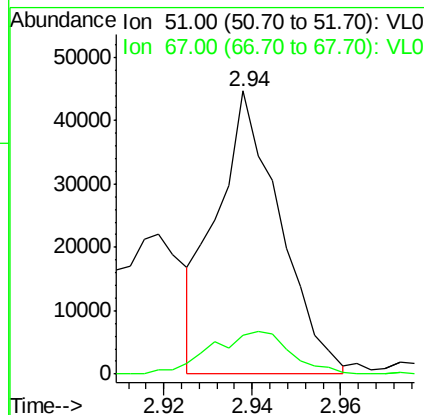
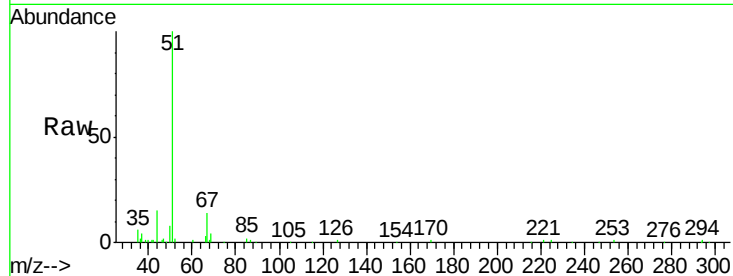
Chlorodifluoromethane
Concen: 0.346 ppbv
RT: 2.94 min Scan# 47
Delta R.T. -0.01 min
Lab File: VL035045.D
Acq: 19 May 2020 15:40

Instrument :
MSVOA_L
ClientSampleId :
DC-IA

Tot Ion	51	Resp	44198
Ion Ratio	100	Lower	Upper
51	100		
67	19.3	15.0	22.6

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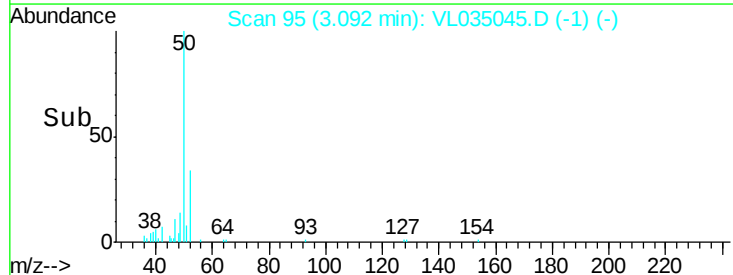
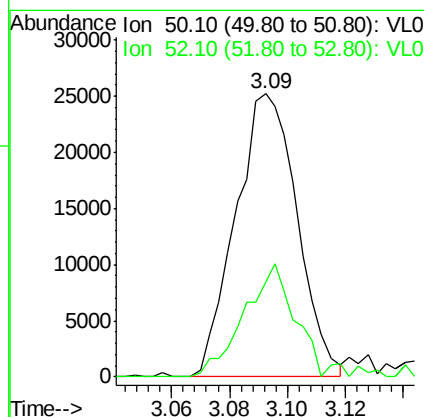
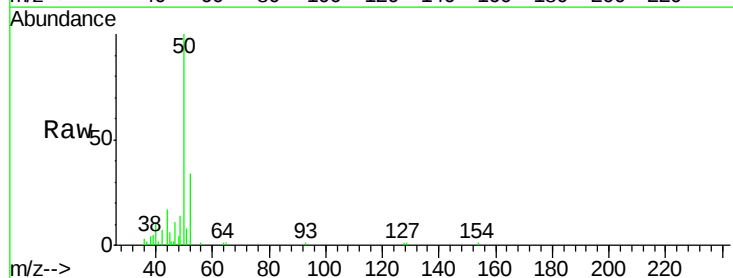
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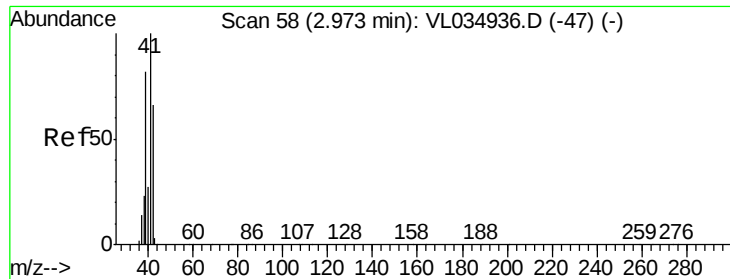


#4

Chloromethane
Concen: 0.506 ppbv
RT: 3.09 min Scan# 95
Delta R.T. -0.01 min
Lab File: VL035045.D
Acq: 19 May 2020 15:40

Tgt Ion	50	Resp	37087
Ion Ratio	100	Lower	Upper
50	100		
52	33.6	25.4	38.2





#9

Propene

Concen: 0.710 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.00 min

Lab File: VL035045.D

Acq: 19 May 2020 15:40

Instrument :

MSVOA_L

ClientSampleId :

DC-IA

Tot Ion: 41 Resp: 39405

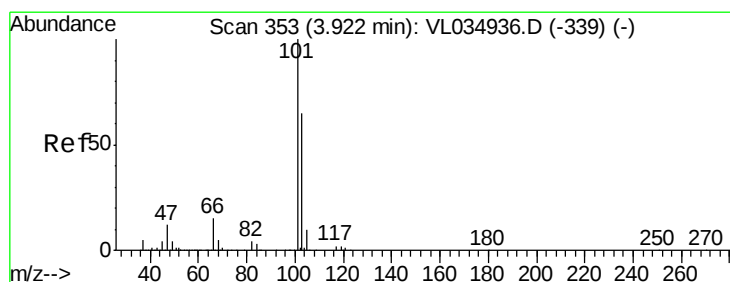
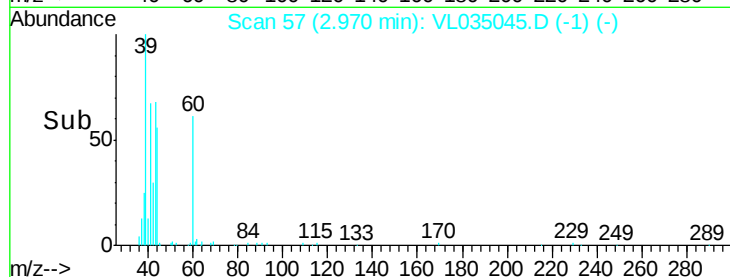
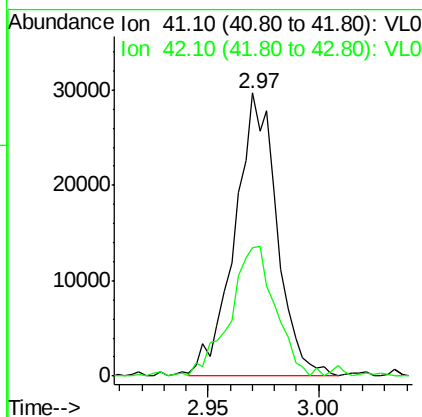
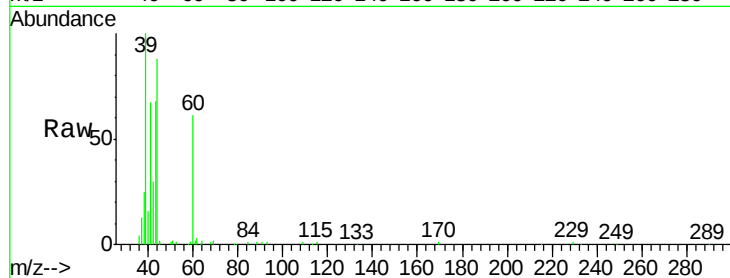
Ion Ratio Lower Upper

41 100

42 51.4 54.5 81.7#

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#11

Trichlorofluoromethane

Concen: 0.245 ppbv

RT: 3.91 min Scan# 349

Delta R.T. -0.01 min

Lab File: VL035045.D

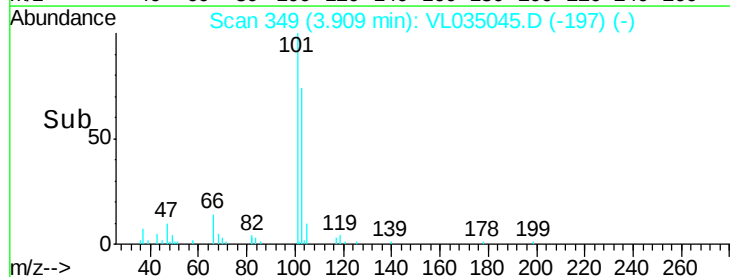
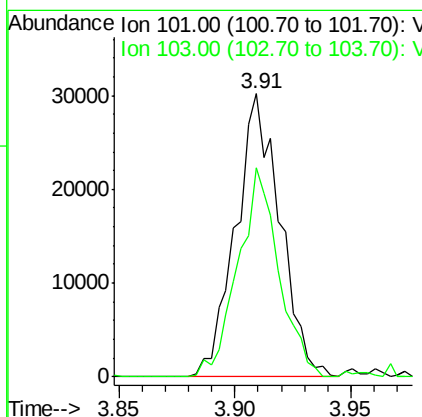
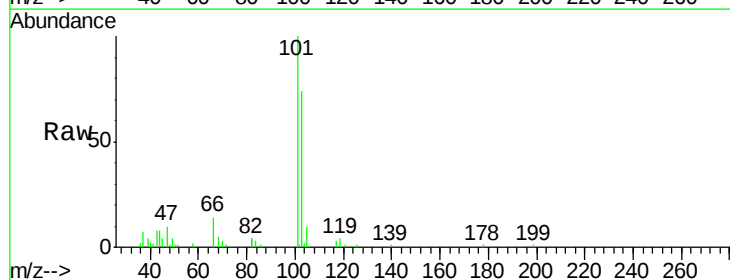
Acq: 19 May 2020 15:40

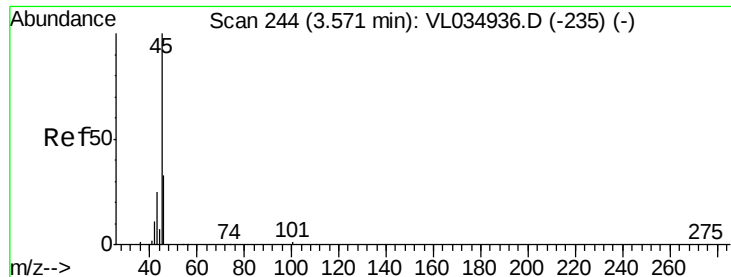
Tgt Ion: 101 Resp: 40122

Ion Ratio Lower Upper

101 100

103 73.9 51.9 77.9





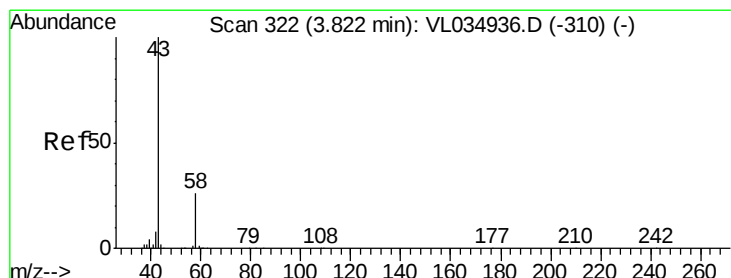
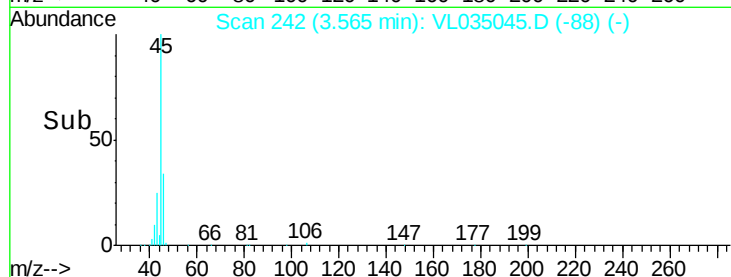
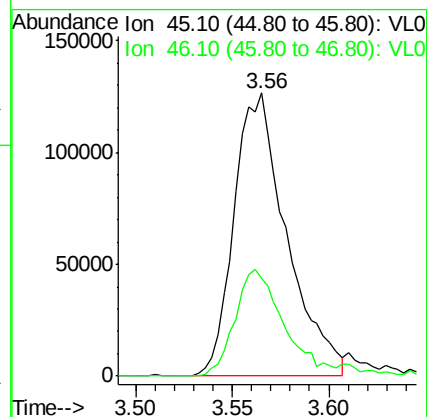
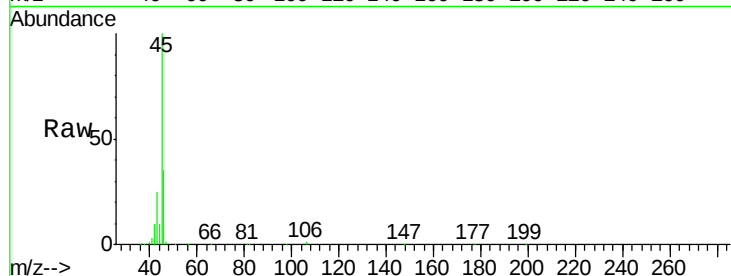
#13
Ethanol
Concen: 13.067 ppbv
RT: 3.56 min Scan# 242
Delta R.T. -0.01 min
Lab File: VL035045.D
Acq: 19 May 2020 15:40

Instrument :
MSVOA_L
ClientSampleId :
DC-IA

Tot Ion	45	Resp	239133
Ion Ratio	100	Lower	Upper
45	100		
46	37.5	14.3	57.3

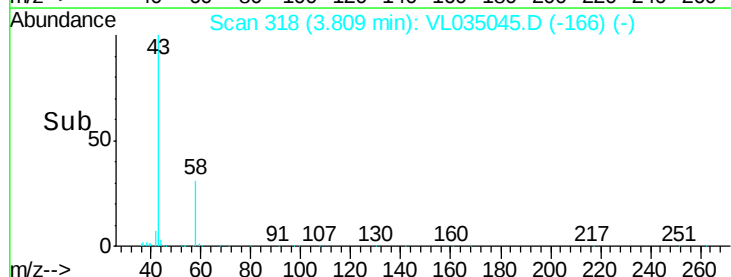
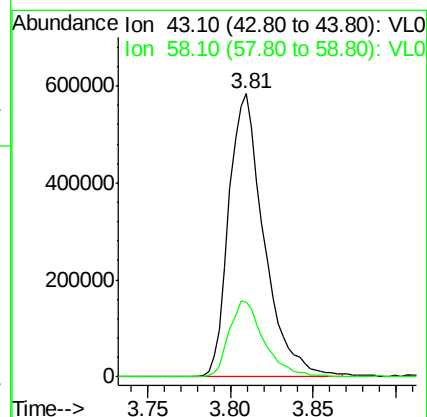
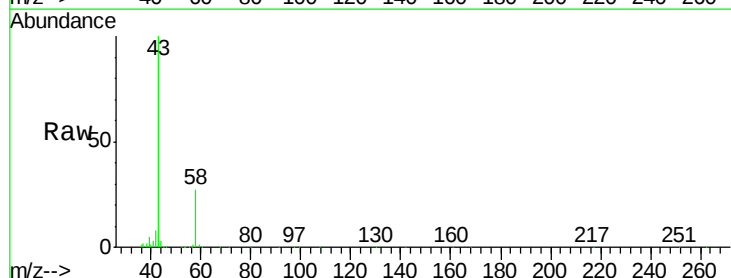
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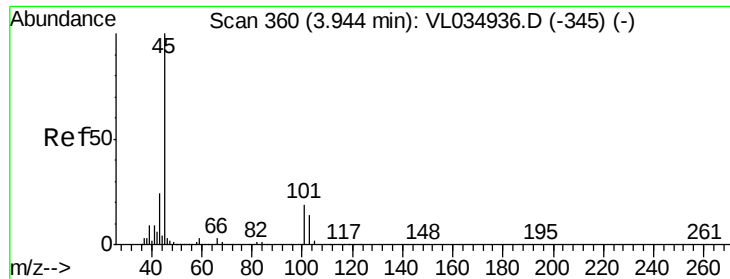
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#15
Acetone
Concen: 5.822 ppbv
RT: 3.81 min Scan# 318
Delta R.T. -0.01 min
Lab File: VL035045.D
Acq: 19 May 2020 15:40

Tgt Ion	43	Resp	861717
Ion Ratio	100	Lower	Upper
43	100		
58	26.7	21.7	32.5





#19

Isopropyl Alcohol

Concen: 0.915 ppbv m

RT: 3.94 min Scan# 359

Delta R.T. -0.00 min

Lab File: VL035045.D

Acq: 19 May 2020 15:40

Instrument :

MSVOA_L

ClientSampled :

DC-IA

Tot Ion: 45 Resp: 90272

Ion Ratio Lower Upper

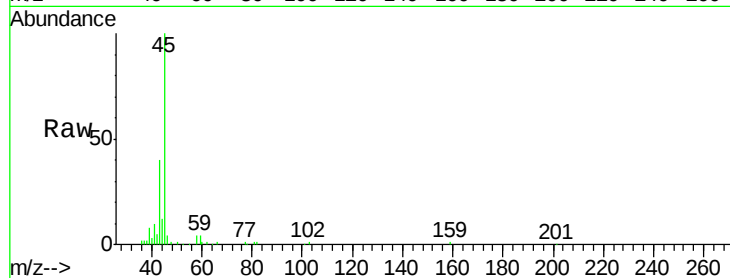
45 100

58 0.0 1.7 2.5#

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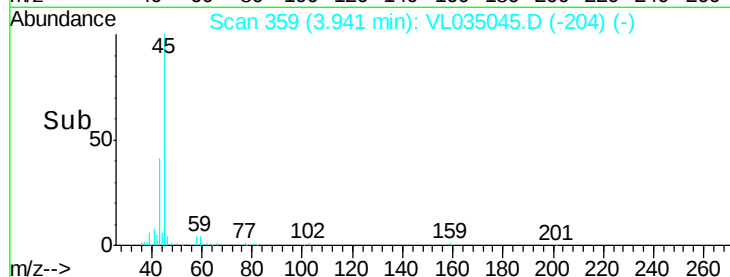


Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.94

Time-->



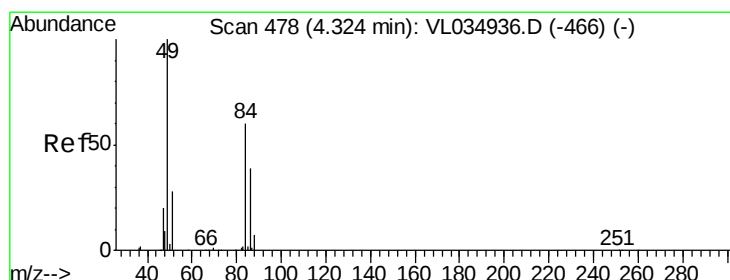
Abundance

Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.94

Time-->



#20

Methylene Chloride

Concen: 2.082 ppbv

RT: 4.31 min Scan# 473

Delta R.T. -0.02 min

Lab File: VL035045.D

Acq: 19 May 2020 15:40

Tgt Ion: 84 Resp: 101984

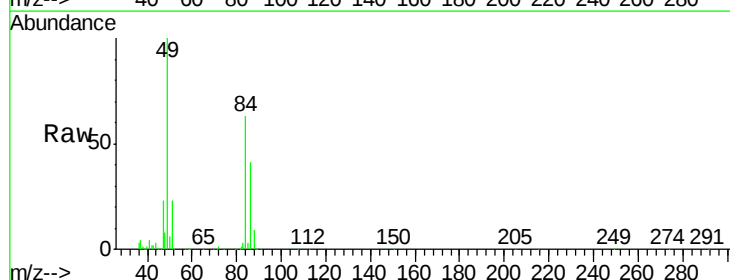
Ion Ratio Lower Upper

84 100

49 159.9 132.5 198.7

51 37.3 38.4 57.6#

86 65.8 51.2 76.8



Abundance Ion 84.00 (83.70 to 84.70): VL0

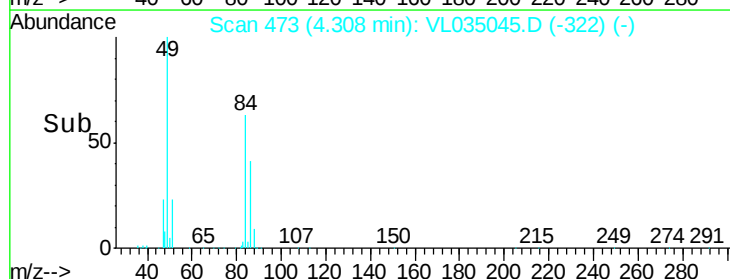
Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

4.31

Time-->



Abundance

Ion 84.00 (83.70 to 84.70): VL0

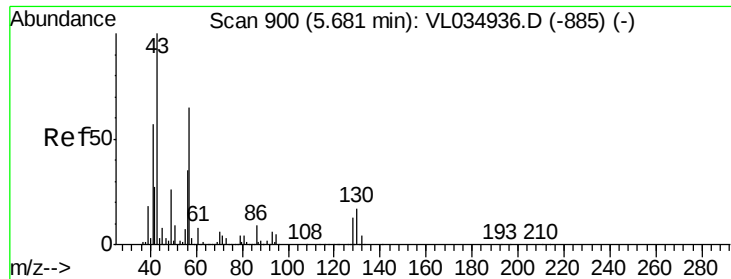
Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

4.31

Time-->



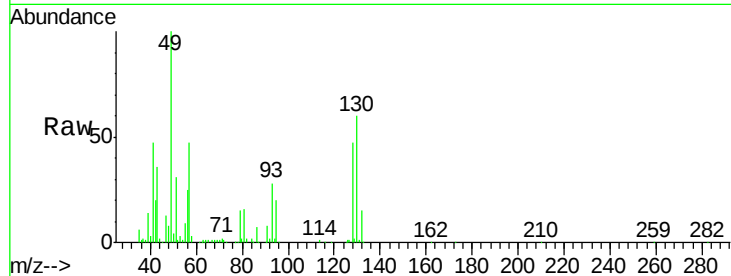
#26
Hexane
Concen: 1.283 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.02 min
Lab File: VL035045.D
Acq: 19 May 2020 15:40

Instrument :
MSVOA_L
ClientSampleId :
DC-IA

Tot Ion	Ratio	Lower	Upper
57	100		
41	99.6	72.7	109.1
43	76.1	182.1	273.1#
56	56.6	42.2	63.2

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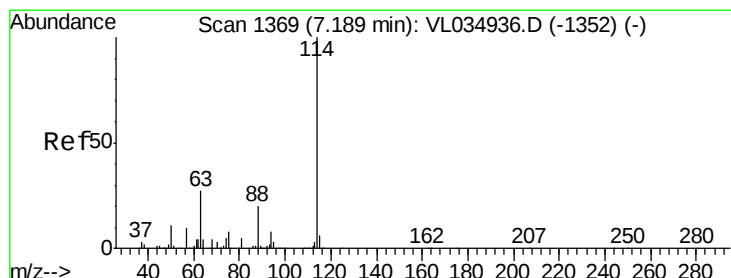
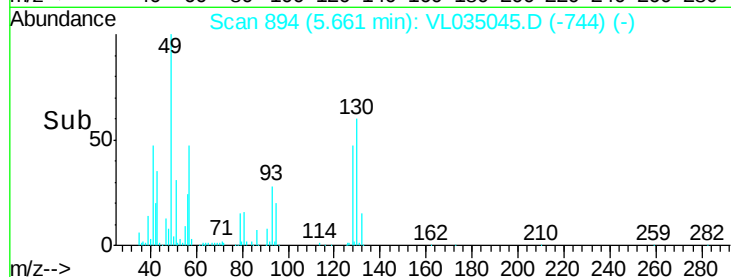
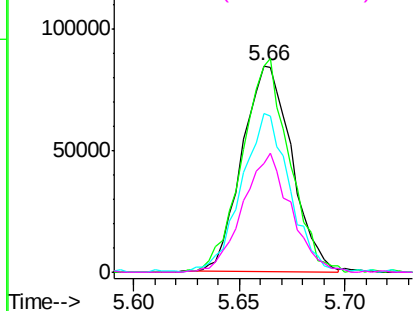


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

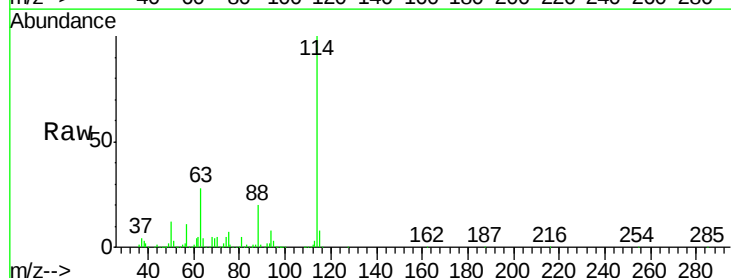
Ion 43.10 (42.80 to 43.80): VL0

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: VL035045.D
Acq: 19 May 2020 15:40

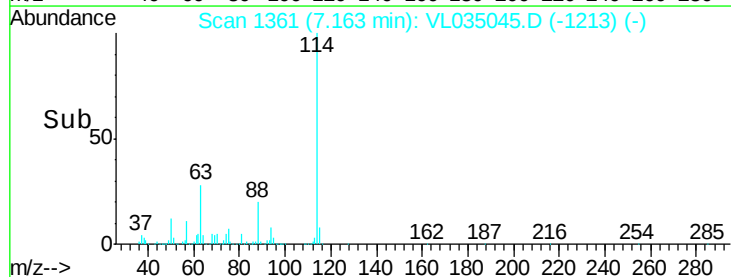
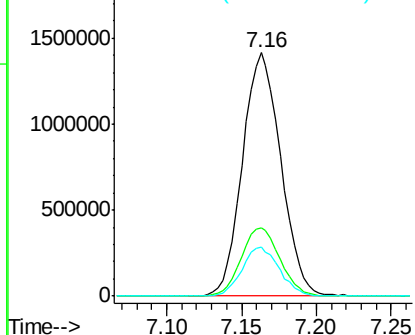
Tgt Ion	Ratio	Lower	Upper
114	100		
63	28.4	22.2	33.4
88	19.8	15.5	23.3

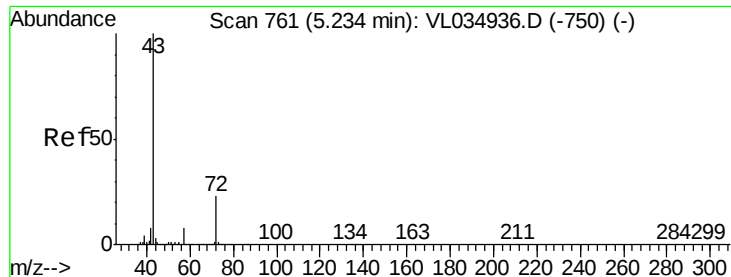


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.236 ppbv

RT: 5.23 min Scan# 759

Delta R.T. -0.01 min

Lab File: VL035045.D

Acq: 19 May 2020 15:40

Instrument :

MSVOA_L

ClientSampled :

DC-IA

Tot Ion: 43 Resp: 37051

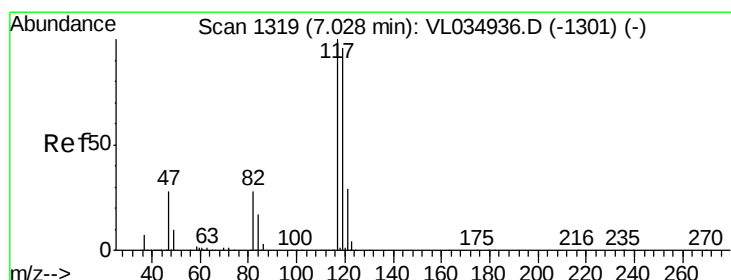
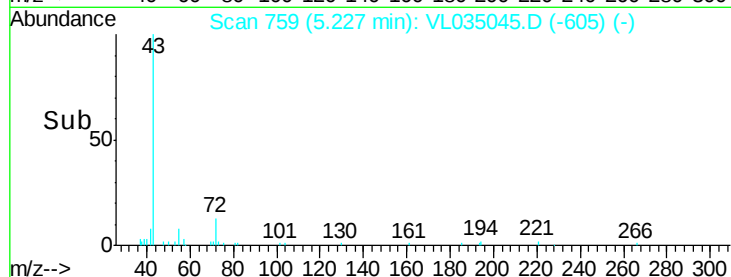
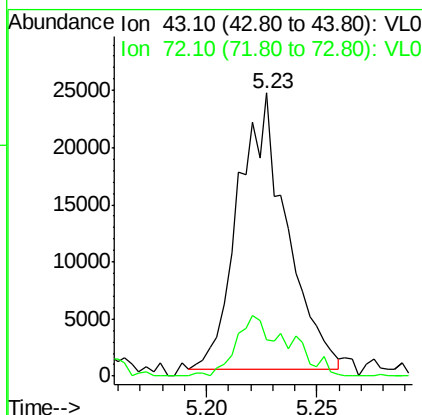
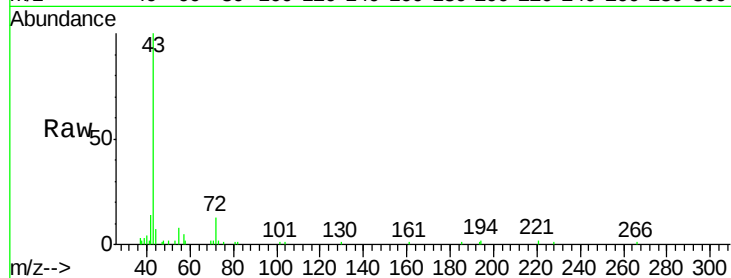
Ion Ratio Lower Upper

43 100

72 23.4 18.0 27.0

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#35

Carbon Tetrachloride

Concen: 0.069 ppbv m

RT: 7.00 min Scan# 1310

Delta R.T. -0.03 min

Lab File: VL035045.D

Acq: 19 May 2020 15:40

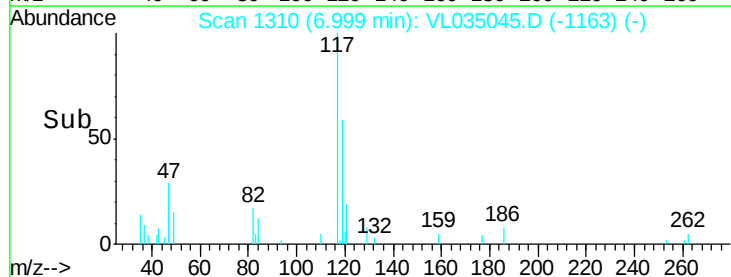
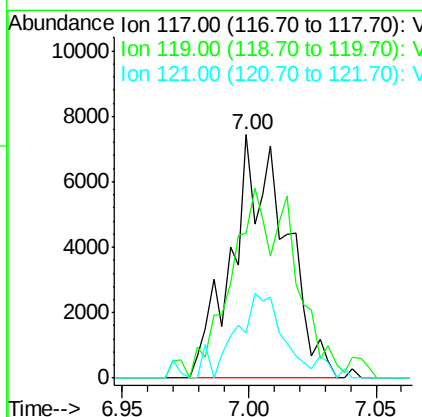
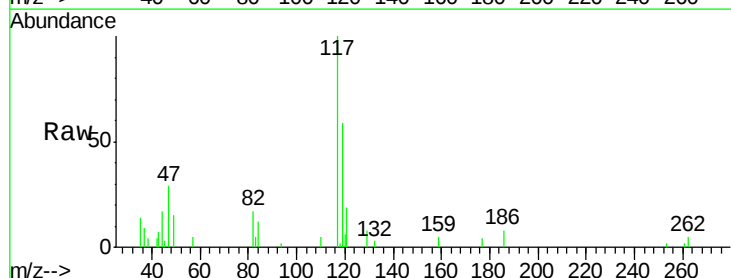
Tgt Ion: 117 Resp: 10932

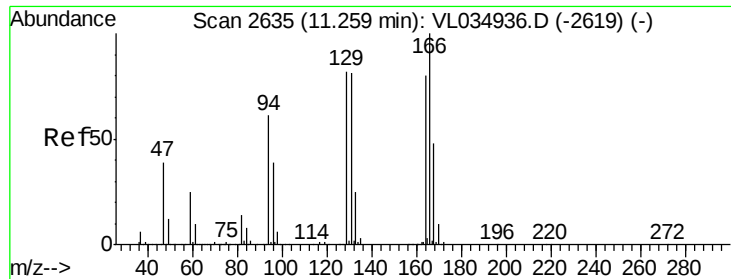
Ion Ratio Lower Upper

117 100

119 59.3 77.0 115.6#

121 18.8 23.0 34.6#





#52

Tetrachloroethene

Concen: 1.843 ppbv

RT: 11.23 min Scan# 2626

Delta R.T. -0.03 min

Lab File: VL035045.D

Acq: 19 May 2020 15:40

Instrument :

MSVOA_L

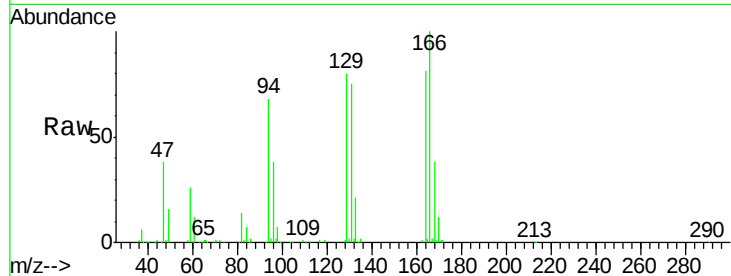
ClientSampleId :

DC-IA

Tot Ion:	164	Resp:	136411
Ion Ratio	Lower	Upper	
164	100		
166	123.2	100.7	151.1
129	99.2	83.0	124.4
131	93.1	81.0	121.4

Manual Integrations
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MMDadoda
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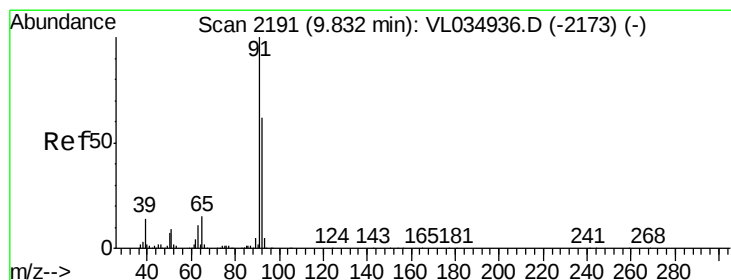
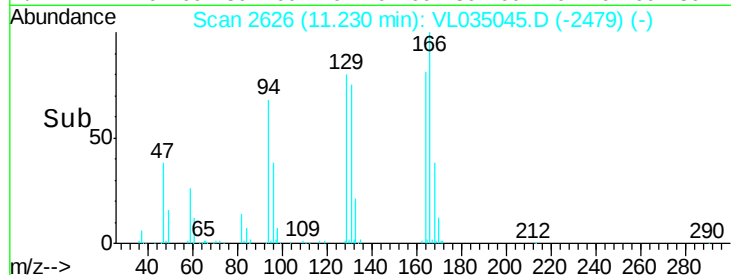
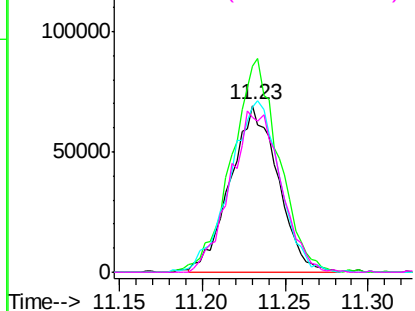


Abundance Ion 163.90 (163.60 to 164.60): V

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



#53

Toluene

Concen: 1.625 ppbv

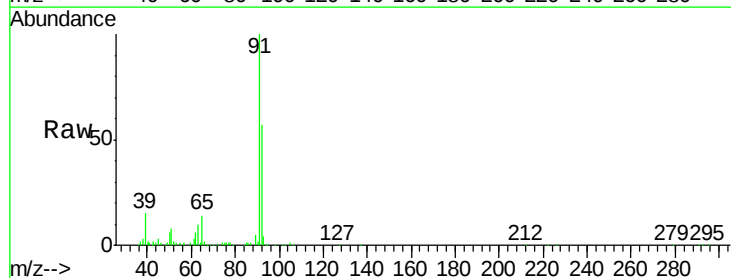
RT: 9.81 min Scan# 2184

Delta R.T. -0.02 min

Lab File: VL035045.D

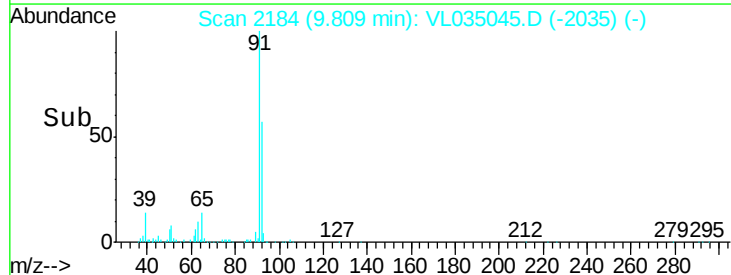
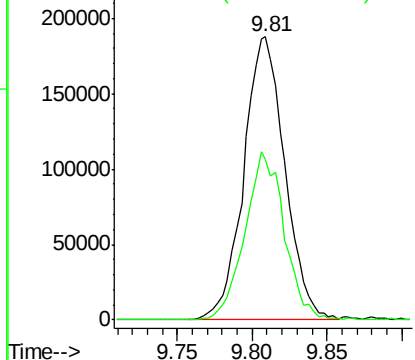
Acq: 19 May 2020 15:40

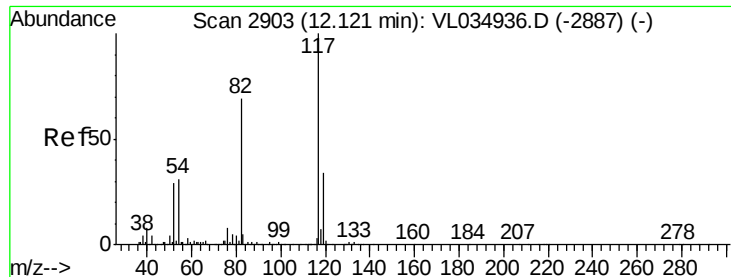
Tgt Ion:	91	Resp:	358503
Ion Ratio	Lower	Upper	
91	100		
92	56.9	48.6	73.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





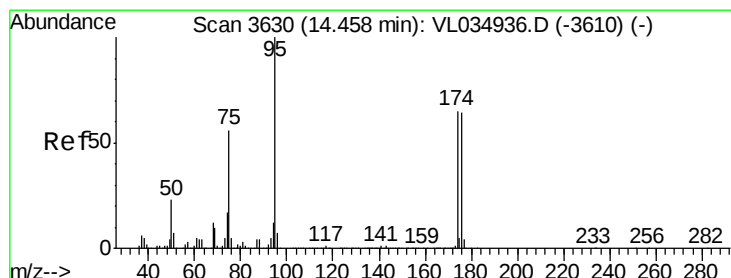
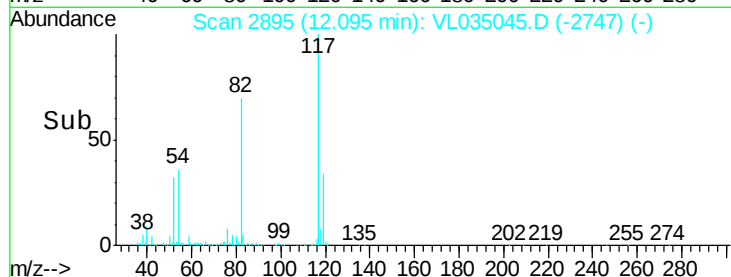
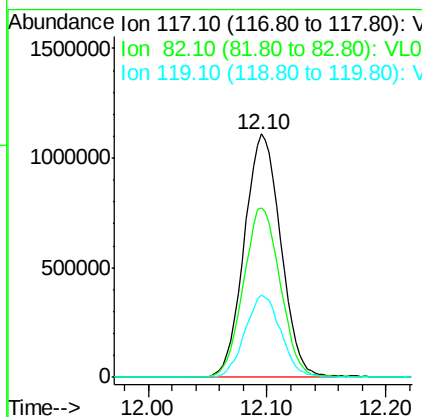
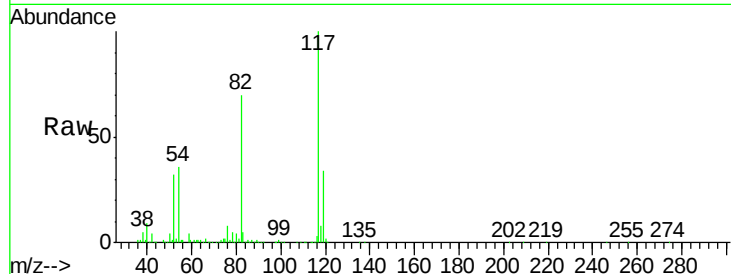
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. -0.03 min
Lab File: VL035045.D
Acq: 19 May 2020 15:40

Instrument :
MSVOA_L
ClientSampled :
DC-IA

Tot Ion: 117 Resp: 2359200
Ion Ratio Lower Upper
117 100
82 70.9 53.1 79.7
119 33.1 26.7 40.1

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.582 ppbv
RT: 14.43 min Scan# 3621
Delta R.T. -0.03 min
Lab File: VL035045.D
Acq: 19 May 2020 15:40

Tgt Ion: 95 Resp: 2020751
Ion Ratio Lower Upper
95 100
174 64.2 51.5 77.3
175 4.8 3.8 5.8

