

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050620\
 Data File : VL034953.D
 Acq On : 7 May 2020 3:23
 Operator : SY/AP
 Sample : L2507-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Manual Integrations
 APPROVED

MMDadoda
 5/7/2020 2:31:52 PM

Quant Time: May 07 08:00:21 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	5.66	49	1019484	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2351563	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2145347	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	1800614	10.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	38850	0.269	ppbv	92
3) Chlorodifluoromethane	2.95	51	37827m	0.325	ppbv	
4) Chloromethane	3.11	50	36414	0.546	ppbv	99
9) Propene	2.98	41	30794	0.610	ppbv	93
11) Trichlorofluoromethane	3.93	101	36164	0.242	ppbv	99
13) Ethanol	3.57	45	218119	13.087	ppbv	97
15) Acetone	3.83	43	619504	4.596	ppbv	99
19) Isopropyl Alcohol	3.95	45	174748	1.944	ppbv #	95
20) Methylene Chloride	4.33	84	65107	1.459	ppbv	95
26) Hexane	5.69	57	49680	0.506	ppbv #	43
29) Chloroform	5.74	83	19266m	0.120	ppbv	
34) 2-Butanone	5.24	43	47938m	0.328	ppbv	
35) Carbon Tetrachloride	7.03	117	8918m	0.060	ppbv	
36) Benzene	6.89	78	29873m	0.154	ppbv	
53) Toluene	9.84	91	52973m	0.258	ppbv	

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

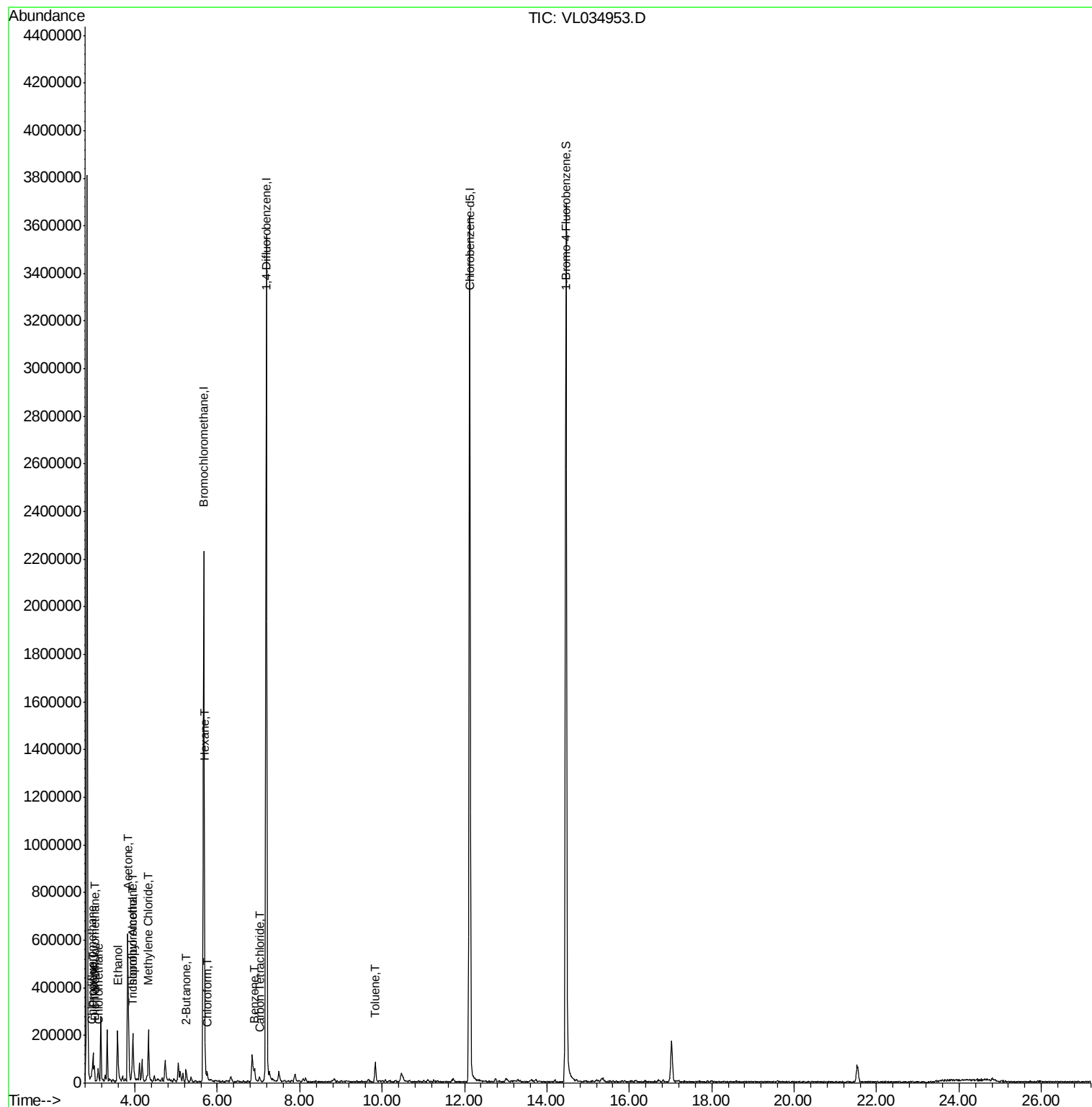
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL050620\
Data File : VL034953.D
Acq On : 7 May 2020 3:23
Operator : SY/AP
Sample : L2507-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

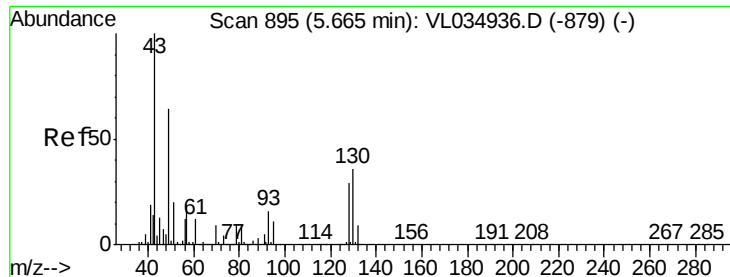
Instrument :
MSVOA_L
ClientSampleId :
IA-1

Manual Integrations
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Quant Time: May 07 08:00:21 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: 5.66 min Scan# 895

Delta R.T. -0.00 min

Lab File: VL034953.D

Acq: 7 May 2020 3:23

Instrument :

MSVOA_L

ClientSampled :

IA-1

Tot Ion: 49 Resp: 1019484

Ion Ratio Lower Upper

49 100

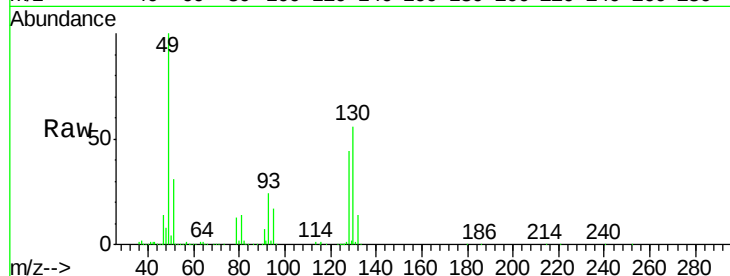
128 45.1 22.1 66.5

130 57.6 29.1 87.3

Manual Integrations
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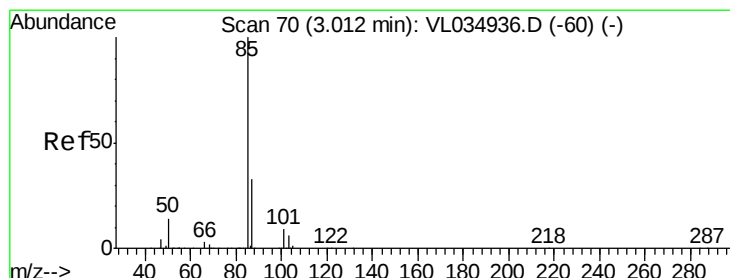
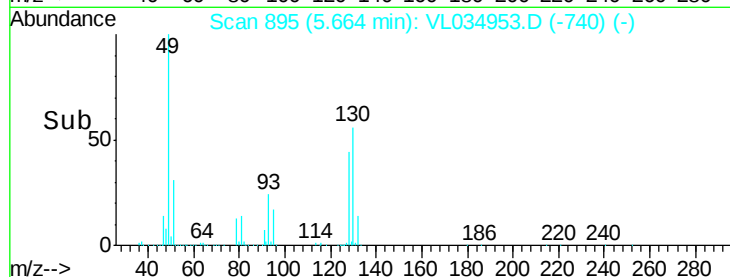
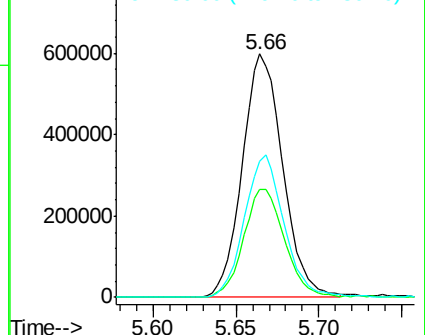
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.269 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL034953.D

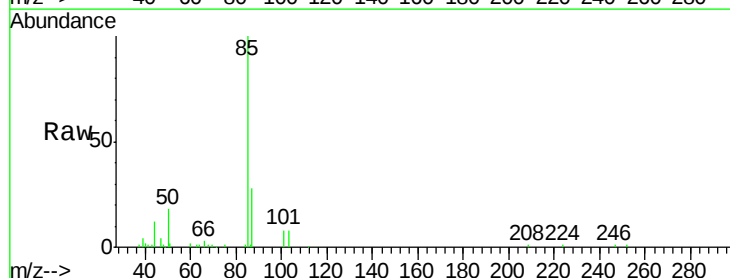
Acq: 7 May 2020 3:23

Tgt Ion: 85 Resp: 38850

Ion Ratio Lower Upper

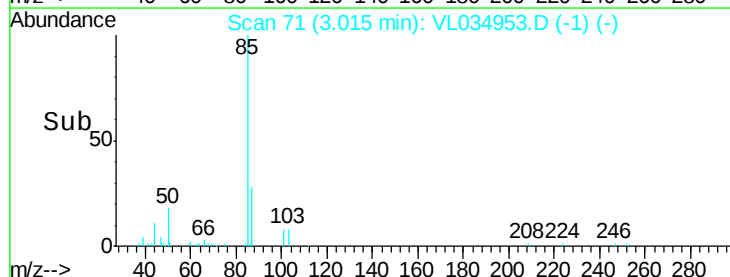
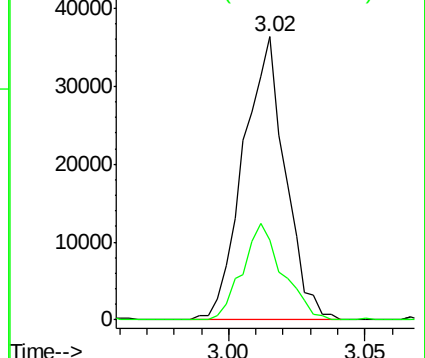
85 100

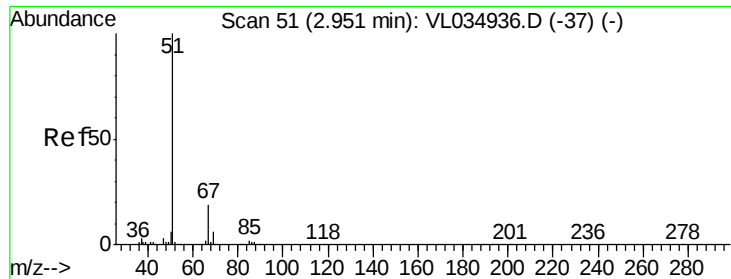
87 28.4 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.325 ppbv

RT: 2.95 min Scan# 51

Delta R.T. -0.00 min

Lab File: VL034953.D

Acq: 7 May 2020 3:23

Instrument :

MSVOA_L

ClientSampleId :

IA-1

Tot Ion: 51 Resp: 37827
Ion Ratio Lower Upper

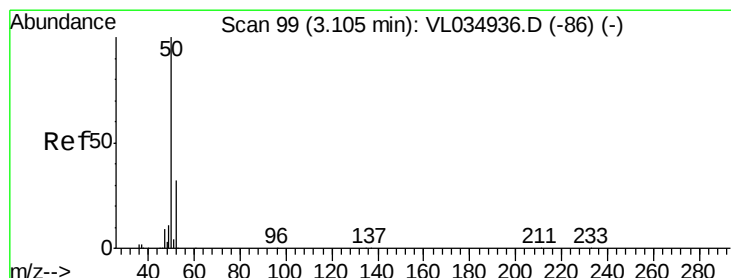
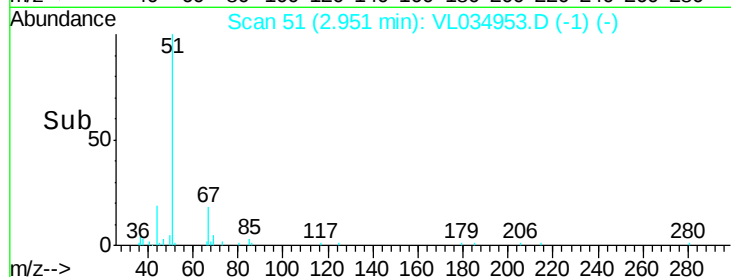
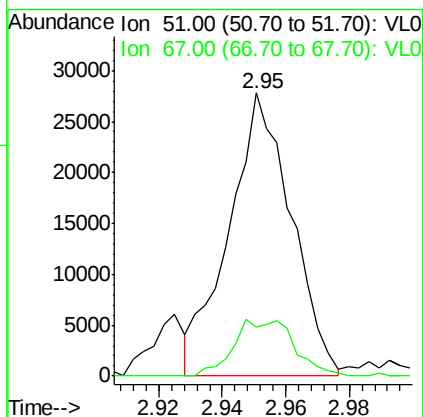
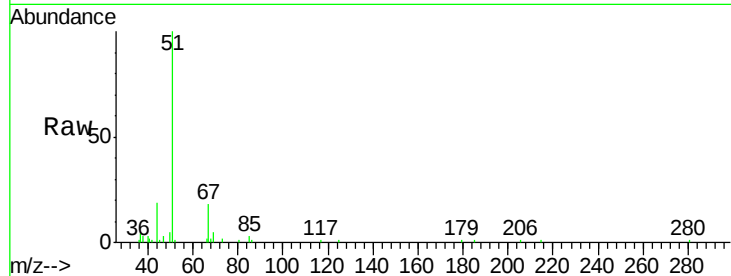
51 100

67 0.0 15.0 22.6#

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#4

Chloromethane

Concen: 0.546 ppbv

RT: 3.11 min Scan# 99

Delta R.T. -0.00 min

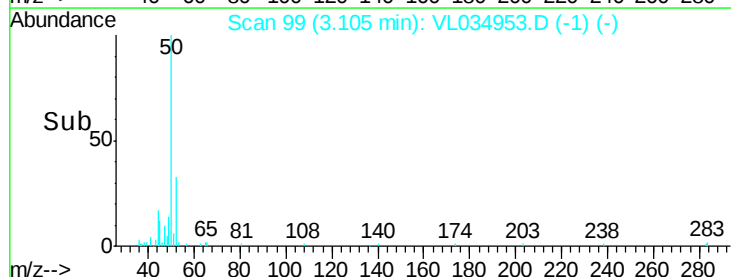
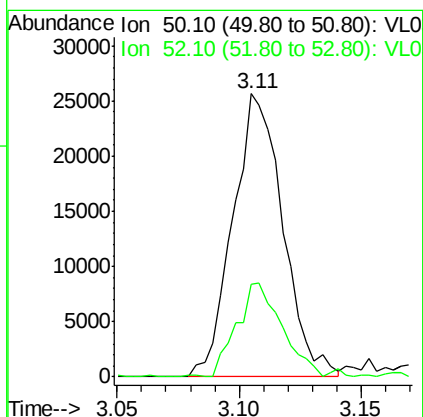
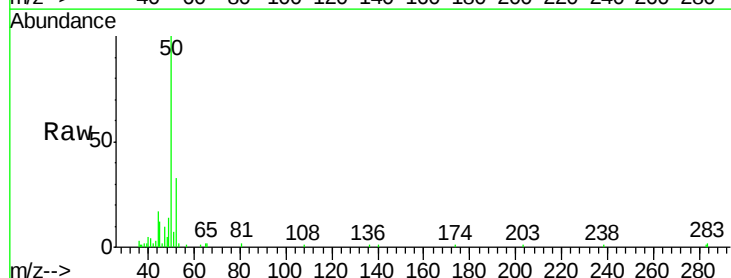
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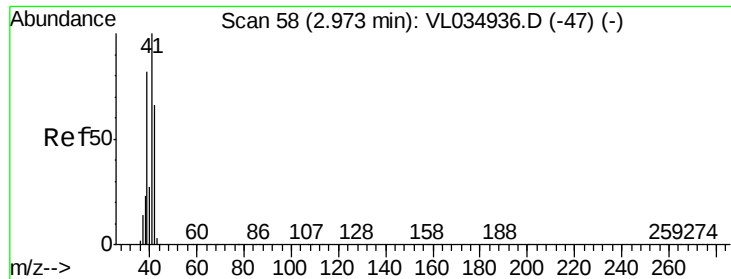
Acq: 7 May 2020 3:23

Tgt Ion: 50 Resp: 36414
Ion Ratio Lower Upper

50 100

52 32.3 25.4 38.2





#9

Propene

Concen: 0.610 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.01 min

Lab File: VL034953.D

Acq: 7 May 2020 3:23

Instrument :

MSVOA_L

ClientSampleId :

IA-1

Tot Ion: 41 Resp: 30794

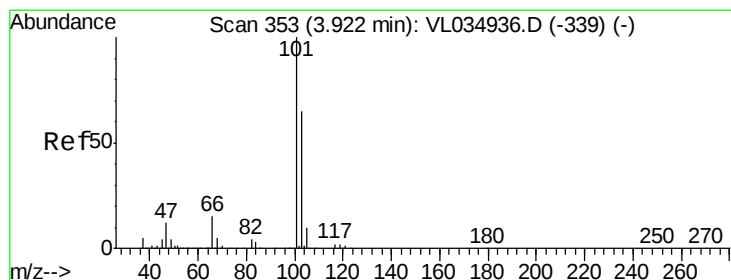
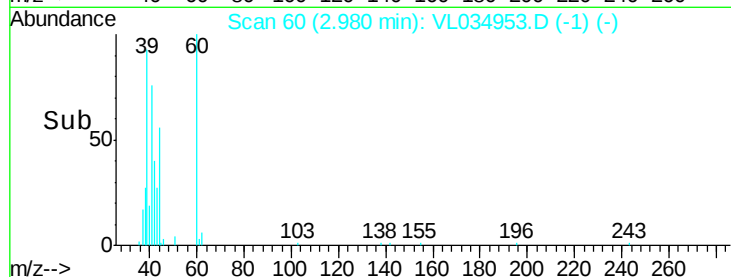
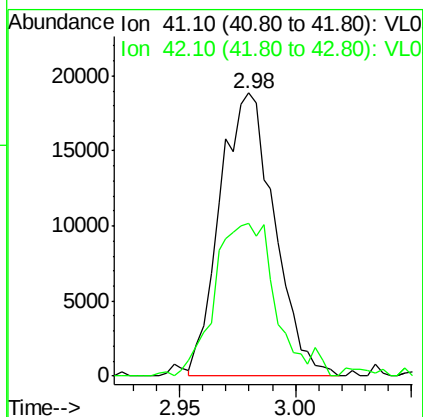
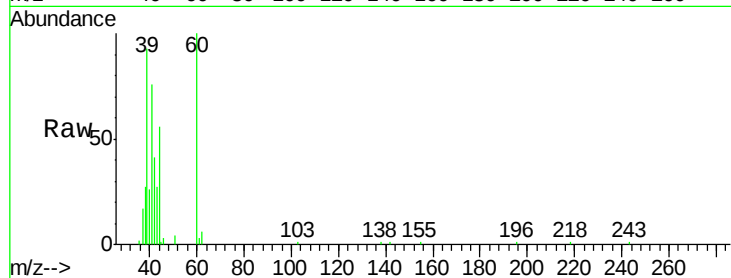
Ion Ratio Lower Upper

41 100

42 62.5 54.5 81.7

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#11

Trichlorofluoromethane

Concen: 0.242 ppbv

RT: 3.93 min Scan# 355

Delta R.T. 0.01 min

Lab File: VL034953.D

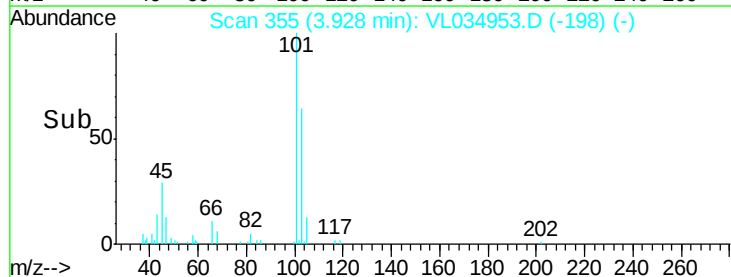
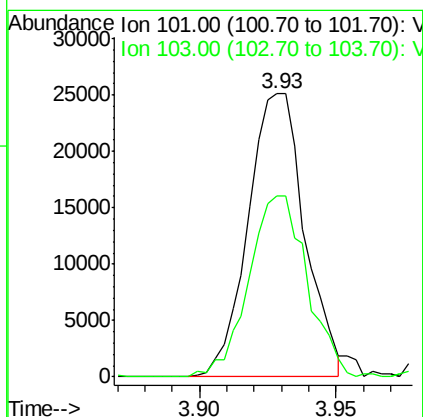
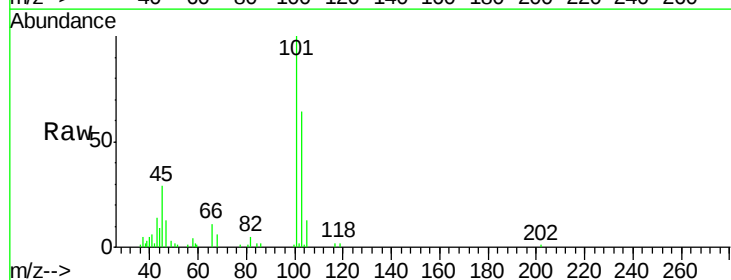
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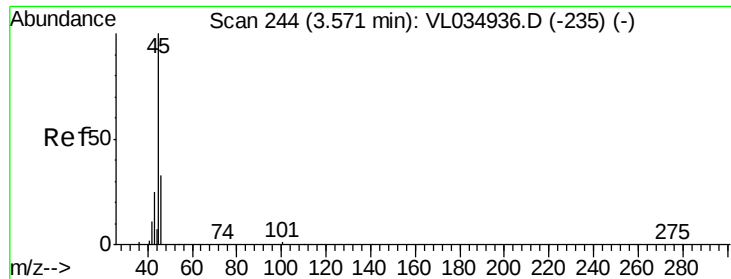
Tgt Ion: 101 Resp: 36164

Ion Ratio Lower Upper

101 100

103 64.0 51.9 77.9





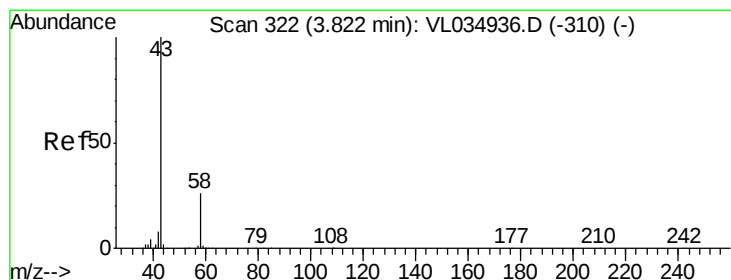
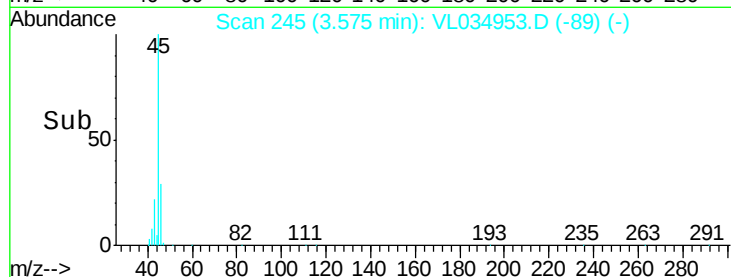
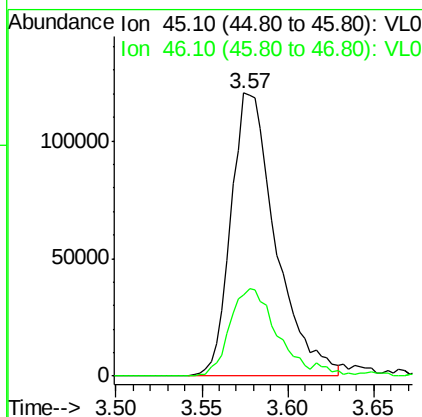
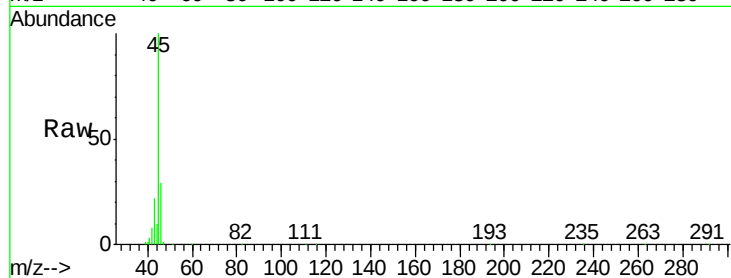
#13
Ethanol
Concen: 13.087 ppbv
RT: 3.57 min Scan# 245
Delta R.T. 0.00 min
Lab File: VL034953.D
Acq: 7 May 2020 3:23

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tot Ion	45	Resp	218119
Ion Ratio	100	Lower	Upper
46	34.2	14.3	57.3

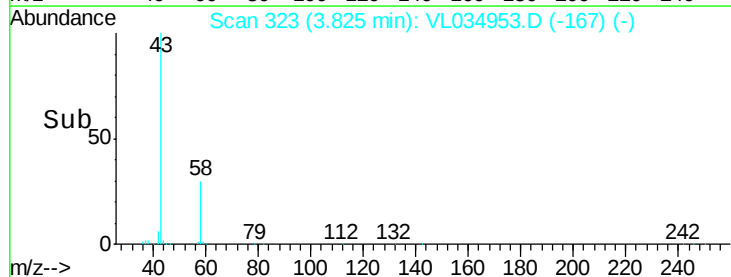
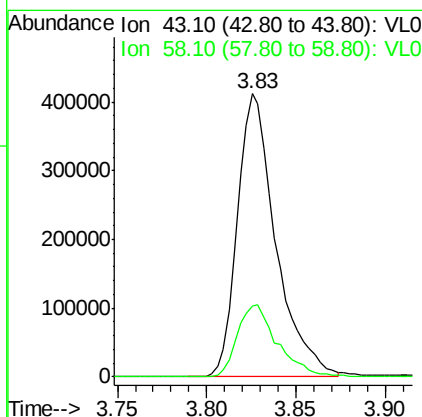
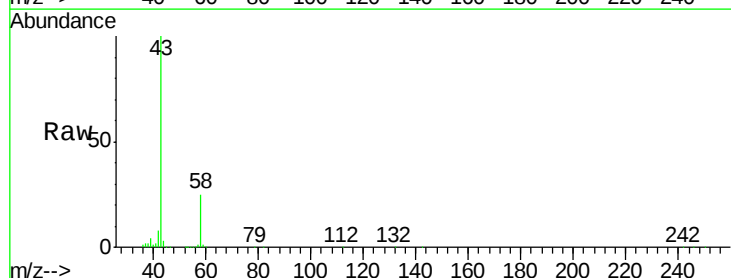
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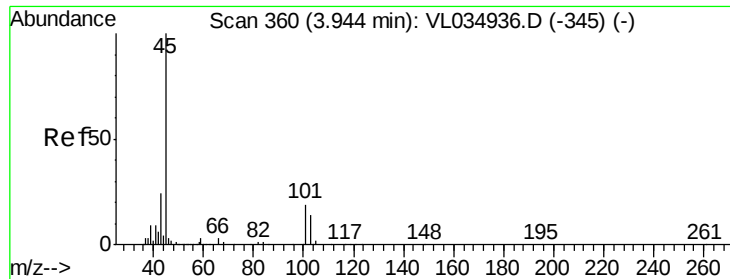
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#15
Acetone
Concen: 4.596 ppbv
RT: 3.83 min Scan# 323
Delta R.T. 0.00 min
Lab File: VL034953.D
Acq: 7 May 2020 3:23

Tgt Ion	43	Resp	619504
Ion Ratio	100	Lower	Upper
58	26.8	21.7	32.5





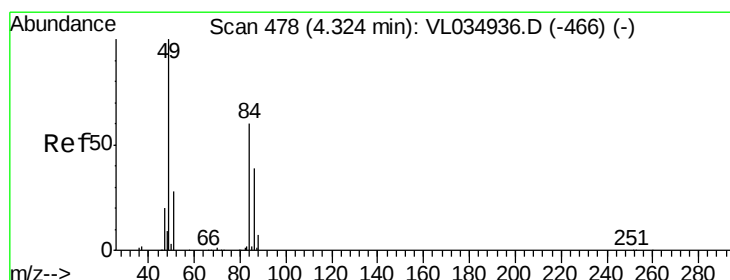
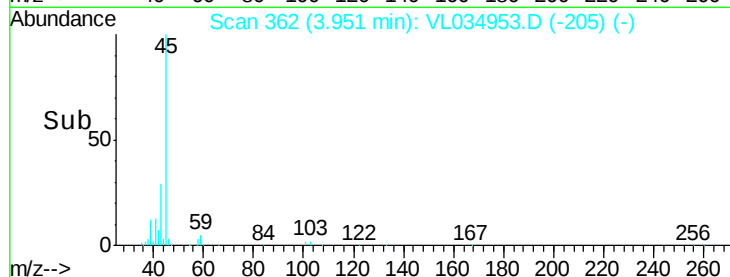
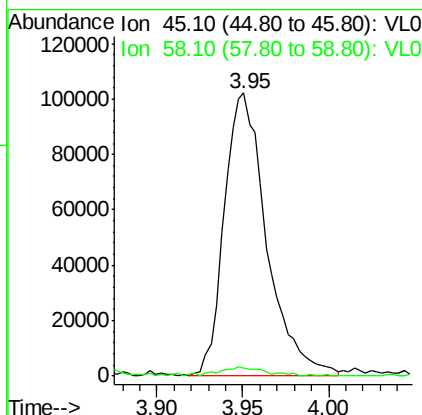
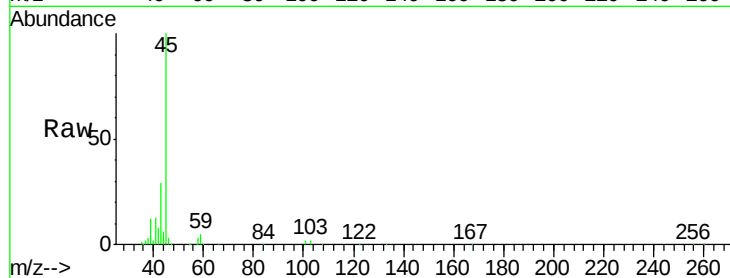
#19
Isopropyl Alcohol
Concen: 1.944 ppbv
RT: 3.95 min Scan# 362
Delta R.T. 0.01 min
Lab File: VL034953.D
Acq: 7 May 2020 3:23

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tot Ion: 45 Resp: 174748
Ion Ratio Lower Upper
45 100
58 4.0 1.7 2.5#

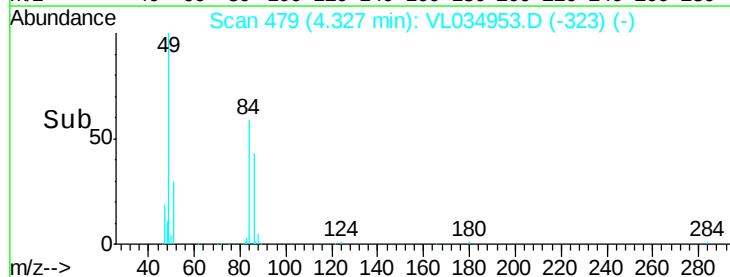
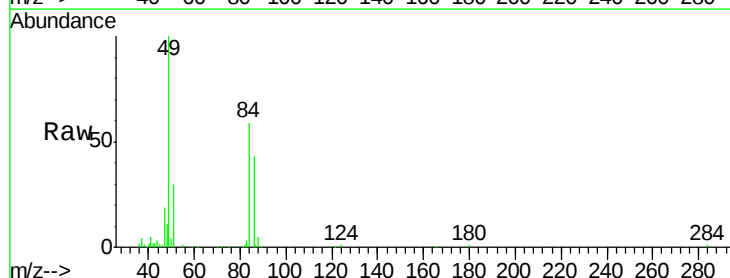
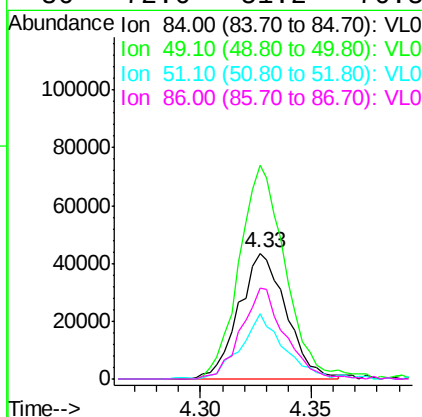
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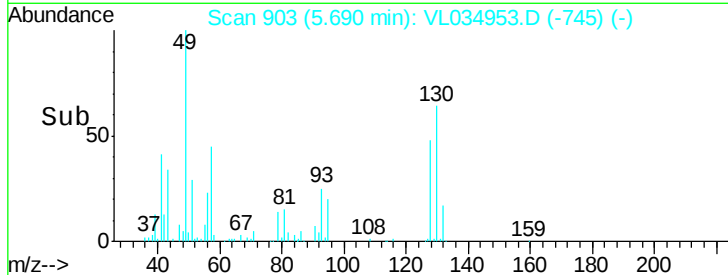
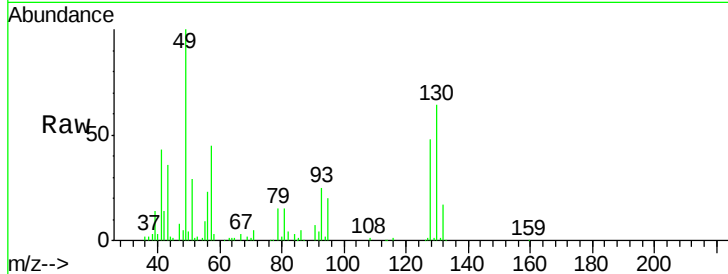
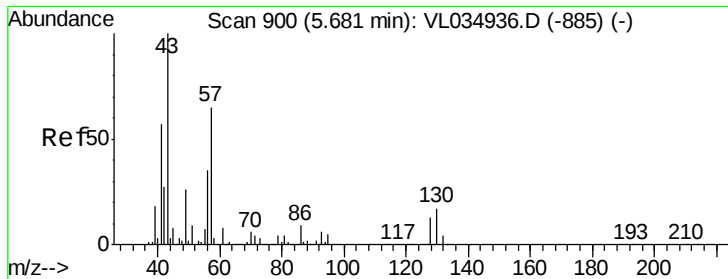
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#20
Methylene Chloride
Concen: 1.459 ppbv
RT: 4.33 min Scan# 479
Delta R.T. 0.00 min
Lab File: VL034953.D
Acq: 7 May 2020 3:23

Tgt Ion: 84 Resp: 65107
Ion Ratio Lower Upper
84 100
49 170.2 132.5 198.7
51 50.7 38.4 57.6
86 72.6 51.2 76.8





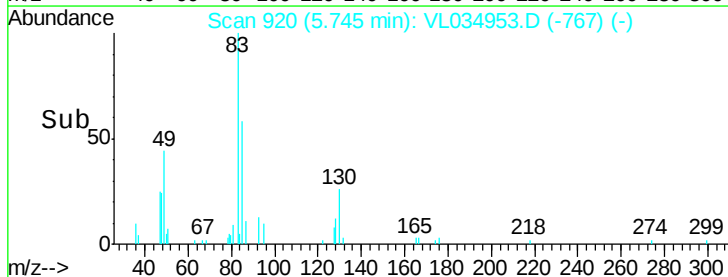
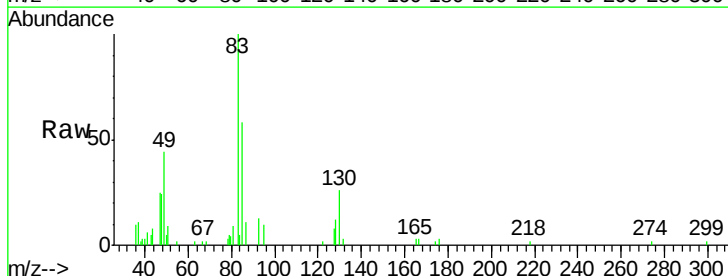
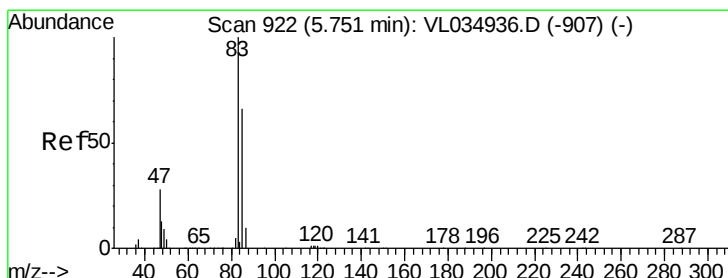
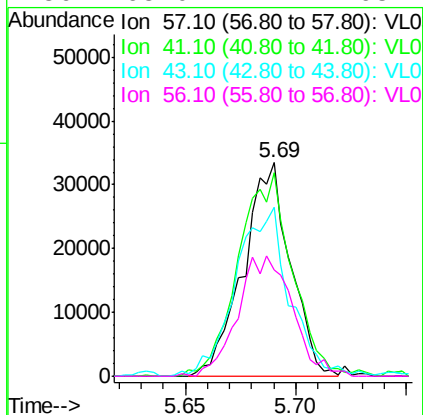
#26
Hexane
Concen: 0.506 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL034953.D
Acq: 7 May 2020 3:23

Tot Ion	57	Ratio	Lower	Upper
57	100			
41	109.1	72.7	109.1#	
43	93.9	182.1	273.1#	
56	65.0	42.2	63.2#	

Instrument :
MSVOA_L
ClientSampled :
IA-1

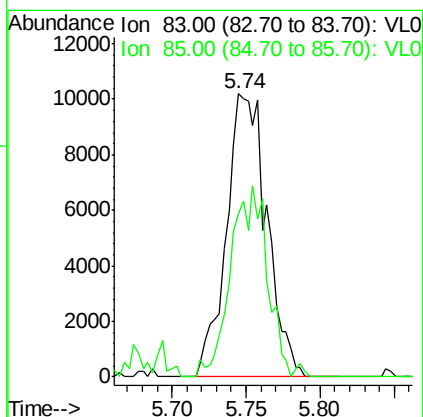
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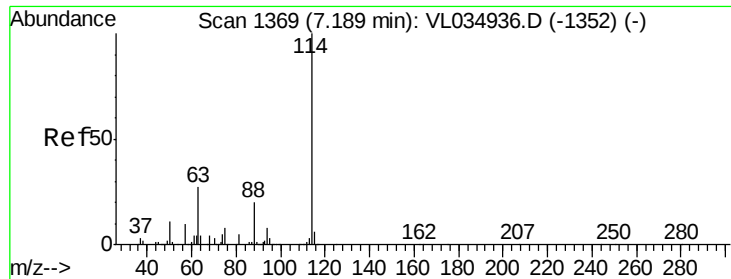
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#29
Chloroform
Concen: 0.120 ppbv m
RT: 5.74 min Scan# 920
Delta R.T. -0.01 min
Lab File: VL034953.D
Acq: 7 May 2020 3:23

Tgt Ion	83	Ratio	Lower	Upper
83	100			
85	57.7	53.0	79.6	





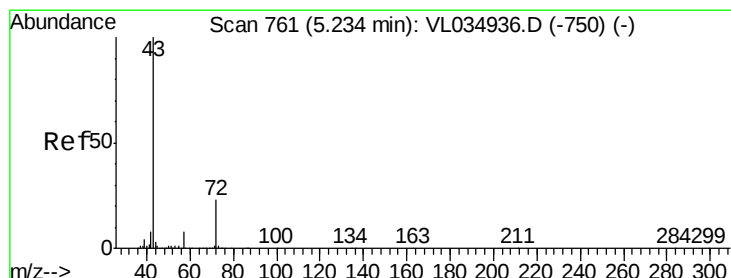
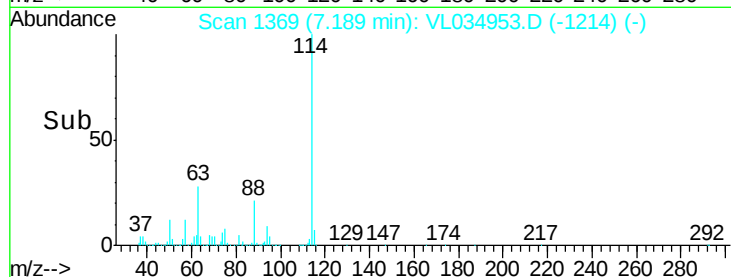
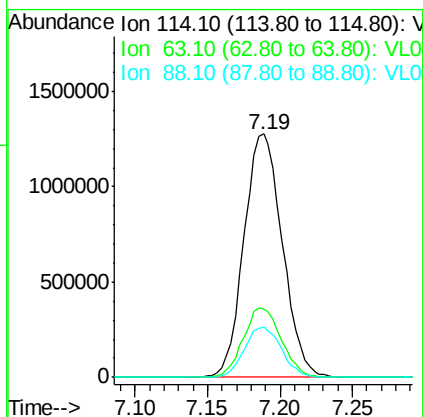
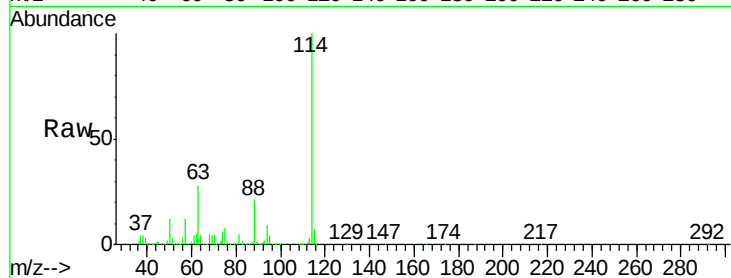
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1369
 Delta R.T. -0.00 min
 Lab File: VL034953.D
 Acq: 7 May 2020 3:23

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.5	22.2	33.4
88	20.1	15.5	23.3

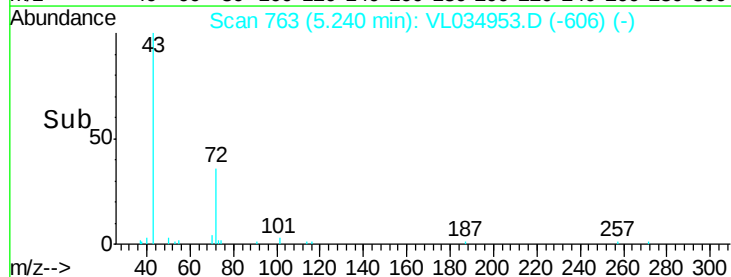
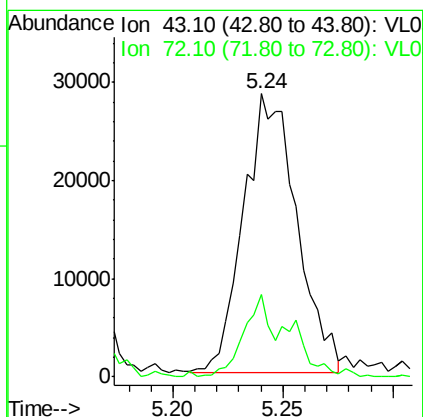
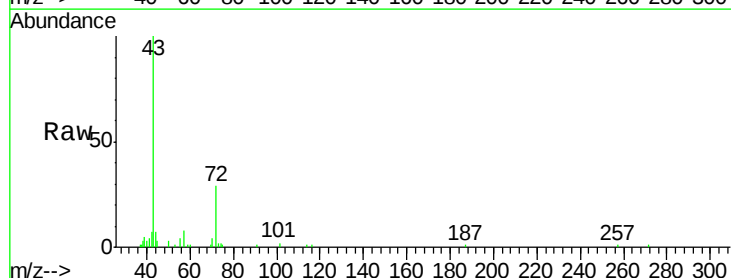
Manual Integrations
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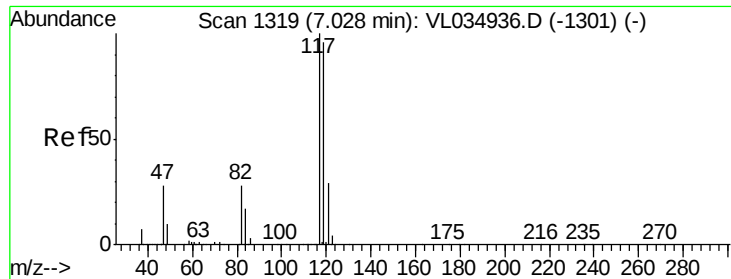
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#34
 2-Butanone
 Concen: 0.328 ppbv m
 RT: 5.24 min Scan# 763
 Delta R.T. 0.01 min
 Lab File: VL034953.D
 Acq: 7 May 2020 3:23

Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.1	18.0	27.0





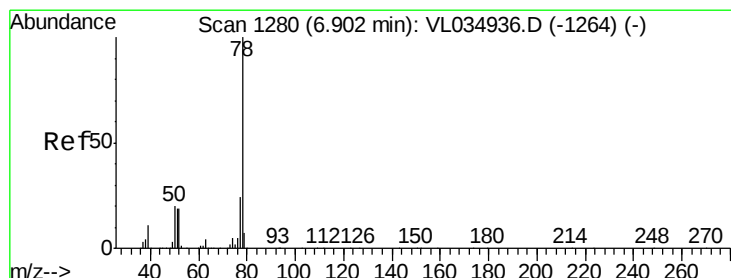
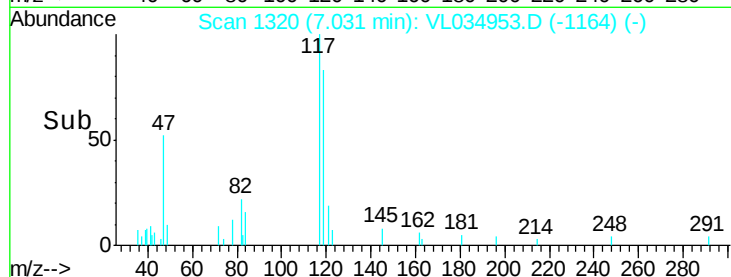
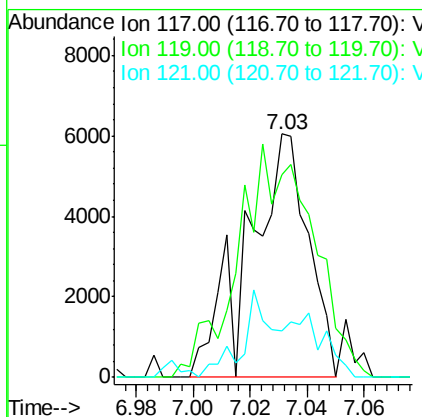
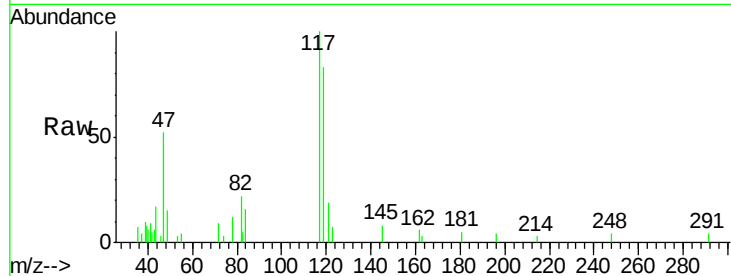
#35
Carbon Tetrachloride
Concen: 0.060 ppbv m
RT: 7.03 min Scan# 1320
Delta R.T. 0.00 min
Lab File: VL034953.D
Acq: 7 May 2020 3:23

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tot Ion	Ratio	Lower	Upper
117	100		
119	83.0	77.0	115.6
121	19.1	23.0	34.6#

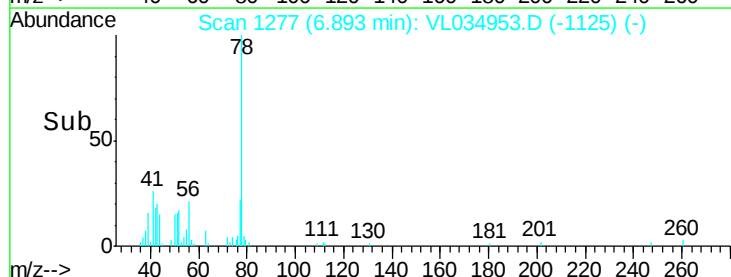
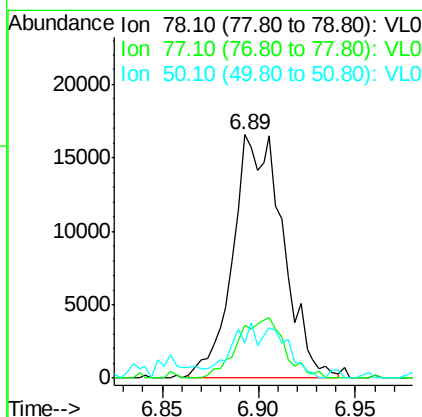
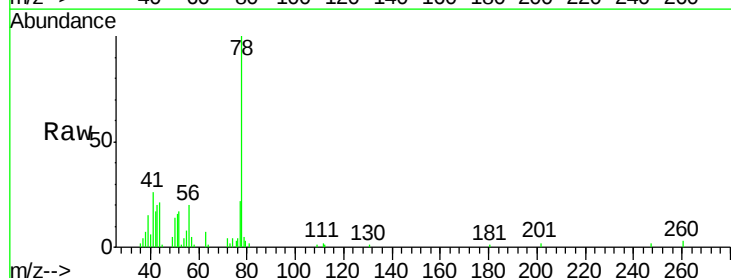
Manual Integrations
APPROVED

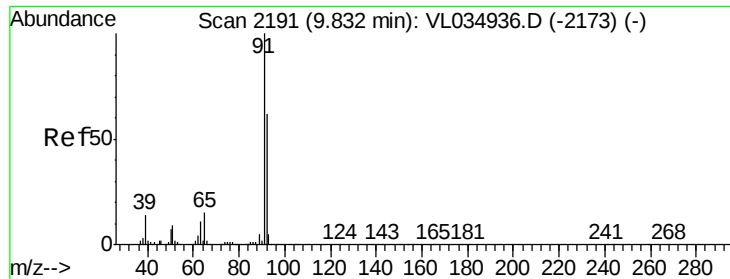
MMDadoda
5/7/2020 2:31:52 PM



#36
Benzene
Concen: 0.154 ppbv m
RT: 6.89 min Scan# 1277
Delta R.T. -0.01 min
Lab File: VL034953.D
Acq: 7 May 2020 3:23

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.0	19.0	28.6
50	14.4	15.8	23.8#





#53

Toluene

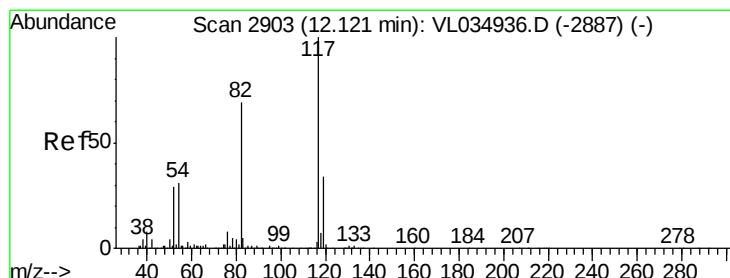
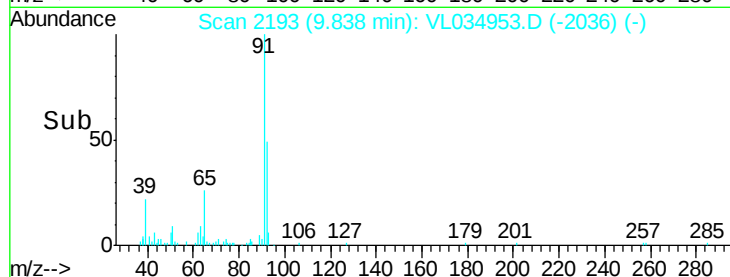
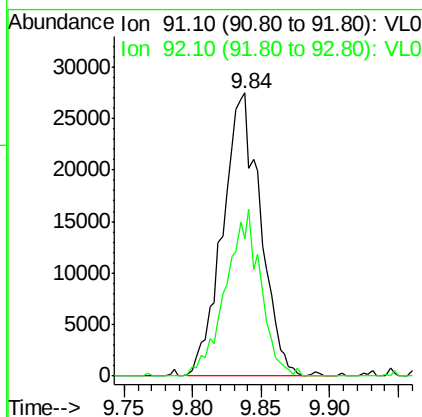
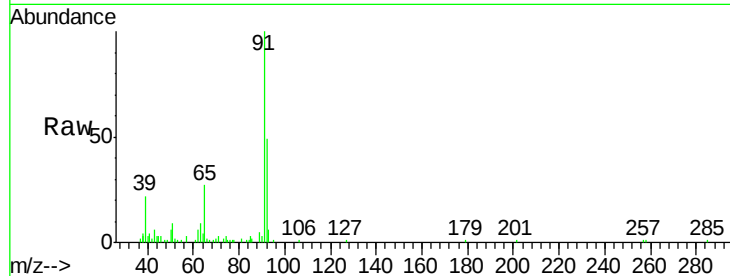
Concen: 0.258 ppbv m
RT: 9.84 min Scan# 2193
Delta R.T. 0.01 min
Lab File: VL034953.D
Acq: 7 May 2020 3:23

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tot Ion	Ion	Ratio	Lower	Upper
91	100			
92	0.0	48.6	73.0	

Manual Integrations
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5/7/2020 2:31:52 PM

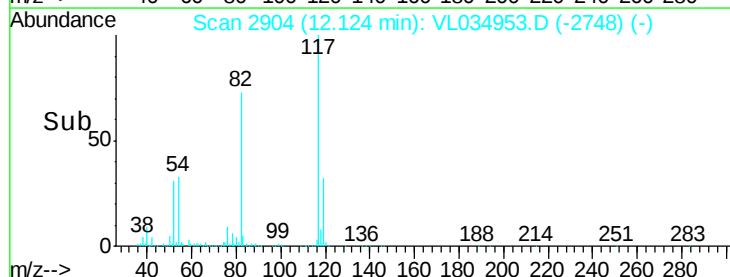
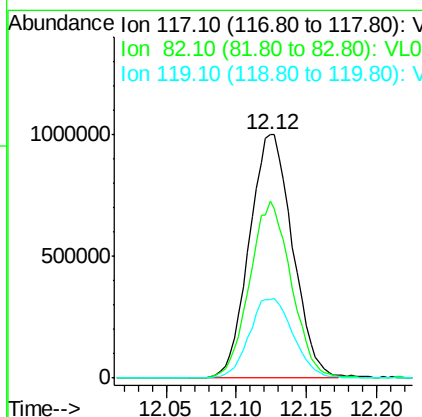
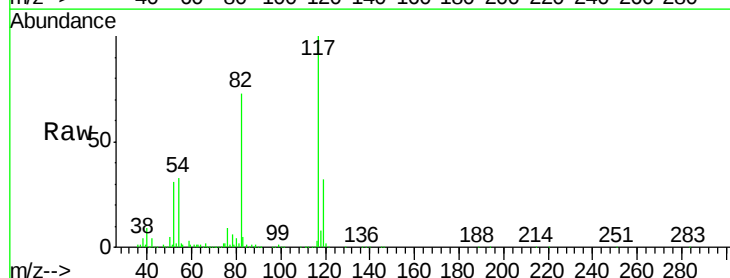


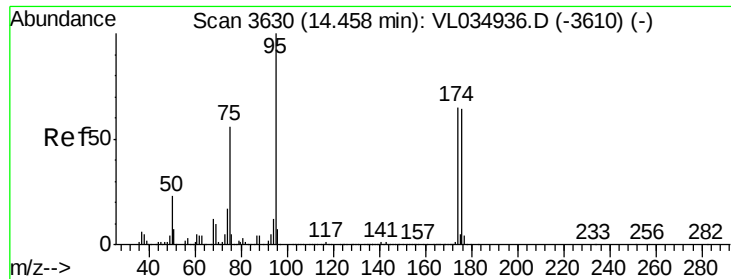
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.12 min Scan# 2904
Delta R.T. 0.00 min
Lab File: VL034953.D
Acq: 7 May 2020 3:23

Tgt Ion	Ion	Ratio	Lower	Upper
117	100			
82	70.7	53.1	79.7	
119	33.3	26.7	40.1	





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.369 ppbv
 RT: 14.46 min Scan# 3631
 Delta R.T. 0.00 min
 Lab File: VL034953.D
 Acq: 7 May 2020 3:23

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1

Tot Ion: 95 Resp: 1800614
 Ion Ratio Lower Upper
 95 100
 174 62.8 51.5 77.3
 175 4.7 3.8 5.8

Manual Integrations
 APPROVED

MMDadoda
 5/7/2020 2:31:52 PM

