

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036976.D
 Acq On : 18 May 2021 19:43
 Operator : SY/AP
 Sample : M2430-05
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
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 5/20/2021 5:55:56 PM

Quant Time: May 20 16:11:53 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1228653	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3644391	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3327296	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2489398	9.96	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	47433	0.228	ppbv	95
3) Chlorodifluoromethane	2.98	51	69999	0.311	ppbv #	88
4) Chloromethane	3.13	50	39085	0.510	ppbv	97
9) Propene	3.01	41	27911	0.346	ppbv	89
11) Trichlorofluoromethane	3.93	101	38560	0.200	ppbv	92
13) Ethanol	3.60	45	261270m	24.295	ppbv	
15) Acetone	3.84	43	512435	4.072	ppbv	98
19) Isopropyl Alcohol	3.98	45	150437m	2.224	ppbv	
20) Methylene Chloride	4.33	84	1299500	19.264	ppbv	97
26) Hexane	5.67	57	1632519	10.567	ppbv #	47
34) 2-Butanone	5.24	43	24471	0.184	ppbv #	81
35) Carbon Tetrachloride	7.00	117	12498m	0.052	ppbv	
38) Trichloroethene	7.81	130	54726	0.408	ppbv	89
52) Tetrachloroethene	11.20	164	346762	2.778	ppbv	98
53) Toluene	9.79	91	89988m	0.241	ppbv	

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

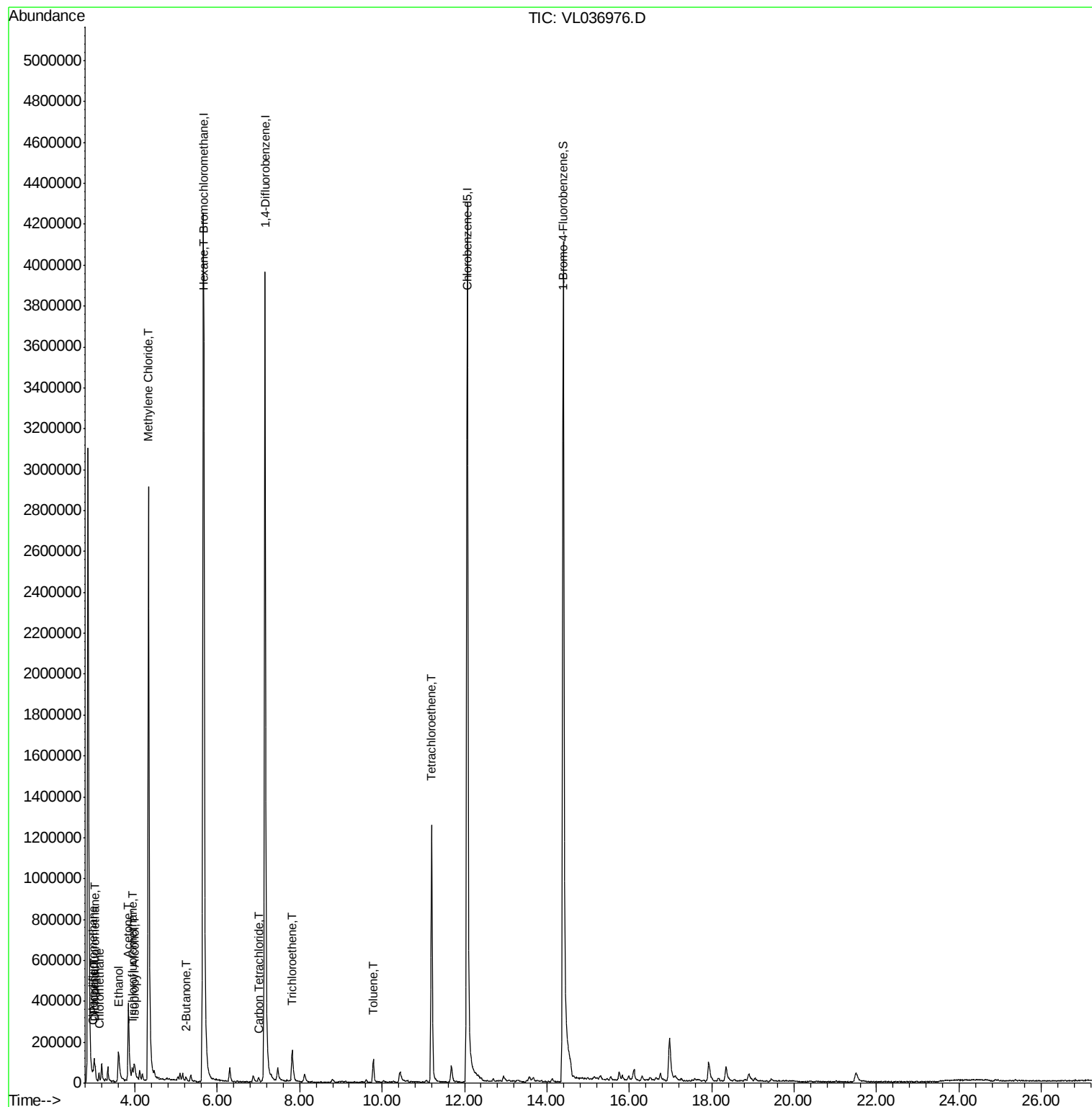
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Data File : VL036976.D
Acq On : 18 May 2021 19:43
Operator : SY/AP
Sample : M2430-05
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

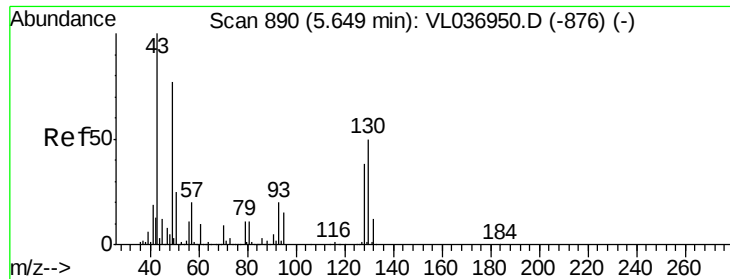
Instrument :
MSVOA_L
ClientSampleId :
OA1

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Quant Time: May 20 16:11:53 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





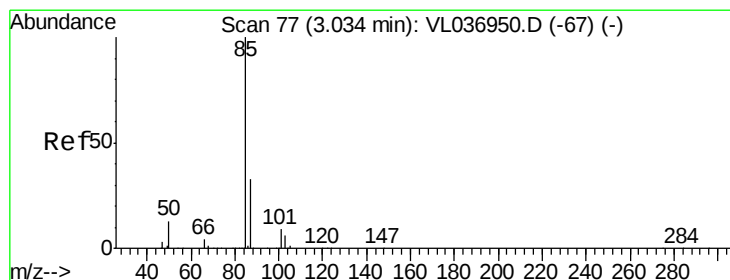
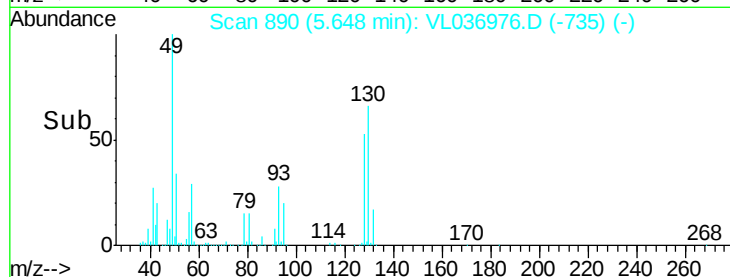
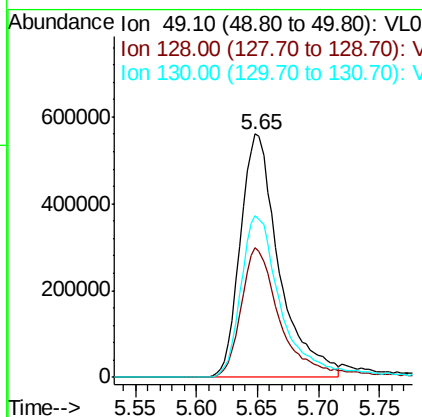
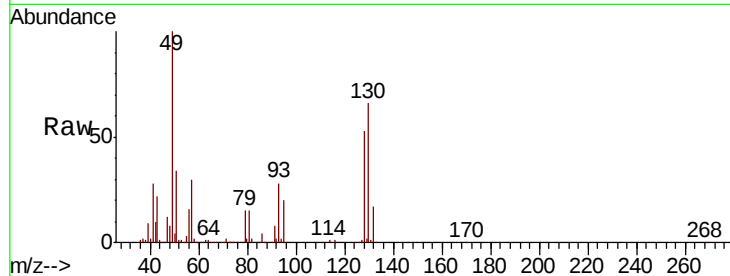
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 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 890
 Delta R.T. -0.00 min
 Lab File: VL036976.D
 Acq: 18 May 2021 19:43

Instrument :
 MSVOA_L
 ClientSampled :
 OA1

Tot Ion: 49 Resp: 1228653
 Ion Ratio Lower Upper
 49 100
 128 55.5 26.9 80.7
 130 71.4 33.8 101.4

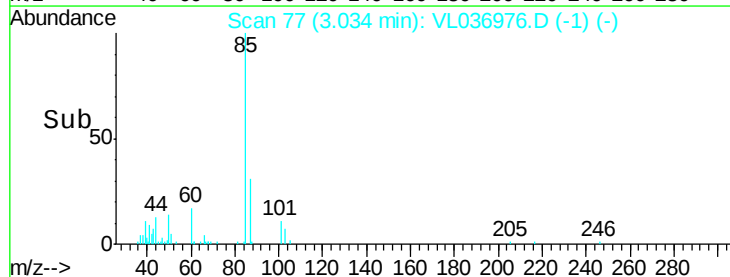
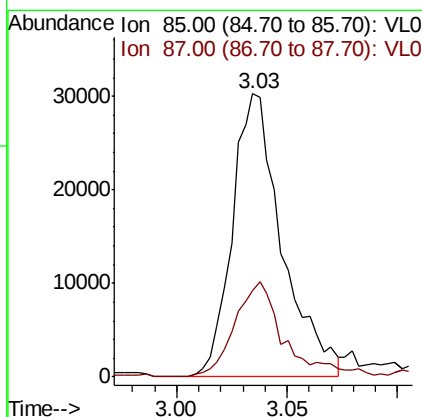
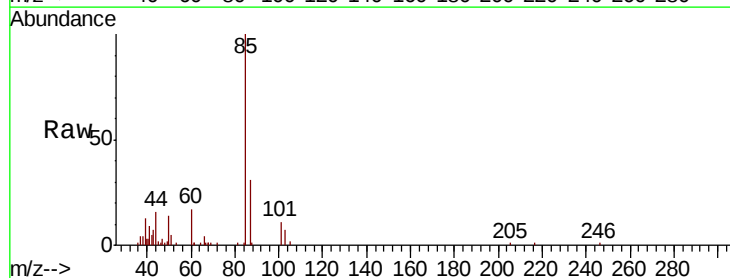
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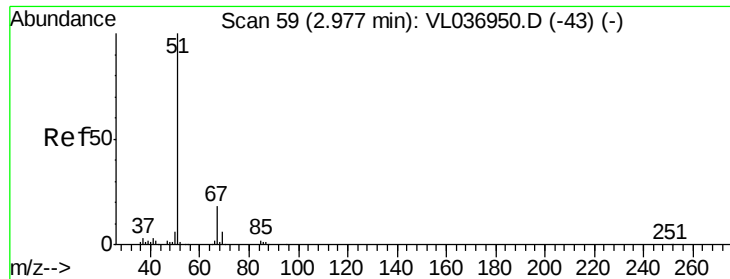
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#2
 Dichlorodifluoromethane
 Concen: 0.228 ppbv
 RT: 3.03 min Scan# 77
 Delta R.T. -0.00 min
 Lab File: VL036976.D
 Acq: 18 May 2021 19:43

Tgt Ion: 85 Resp: 47433
 Ion Ratio Lower Upper
 85 100
 87 30.6 26.6 39.8





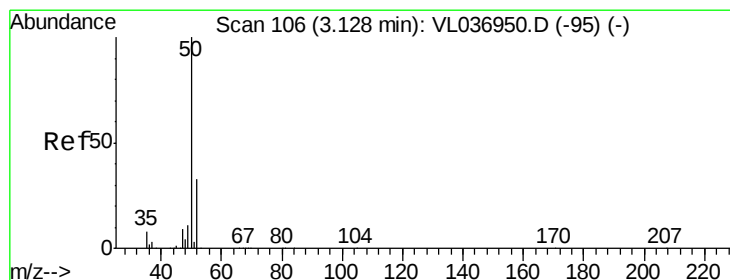
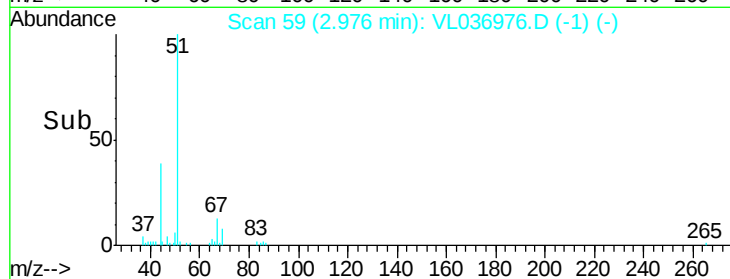
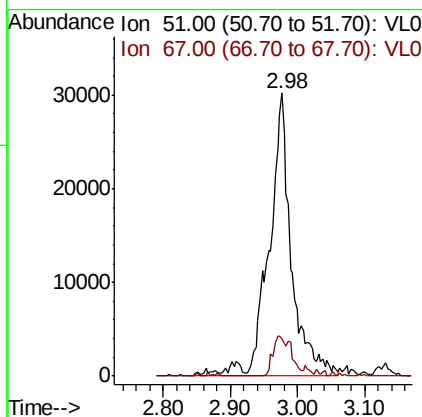
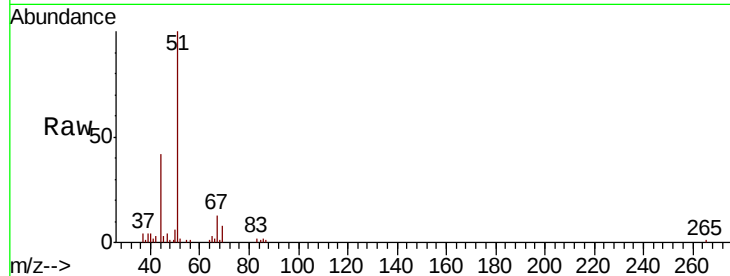
#3
Chlorodifluoromethane
Concen: 0.311 ppbv
RT: 2.98 min Scan# 59
Delta R.T. -0.00 min
Lab File: VL036976.D
Acq: 18 May 2021 19:43

Instrument :
MSVOA_L
ClientSampleId :
QA1

Tot Ion	Ratio	Lower	Upper
51	100		
67	12.8	14.6	21.8#

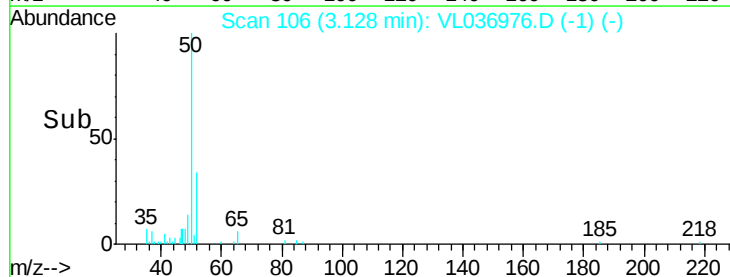
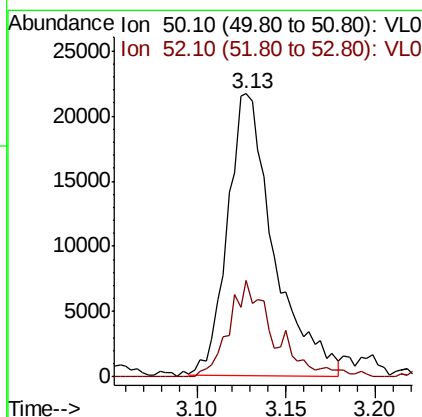
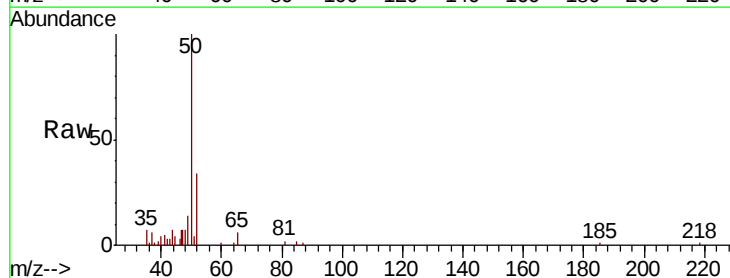
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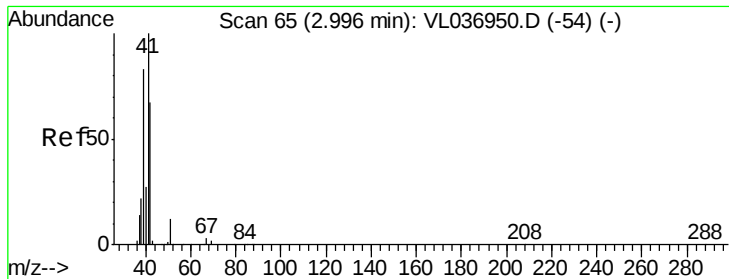
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#4
Chloromethane
Concen: 0.510 ppbv
RT: 3.13 min Scan# 106
Delta R.T. -0.00 min
Lab File: VL036976.D
Acq: 18 May 2021 19:43

Tgt Ion	Ratio	Lower	Upper
50	100		
52	34.3	26.1	39.1





#9

Propene

Concen: 0.346 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.01 min

Lab File: VL036976.D

Acq: 18 May 2021 19:43

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 41 Resp: 27911

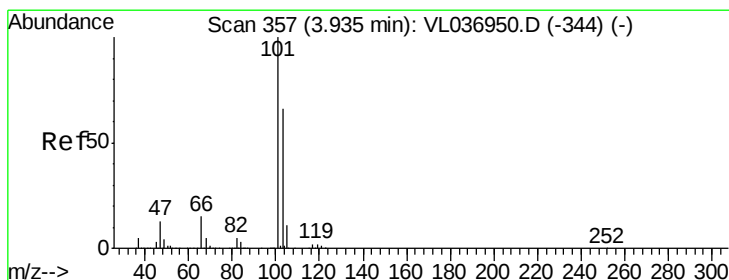
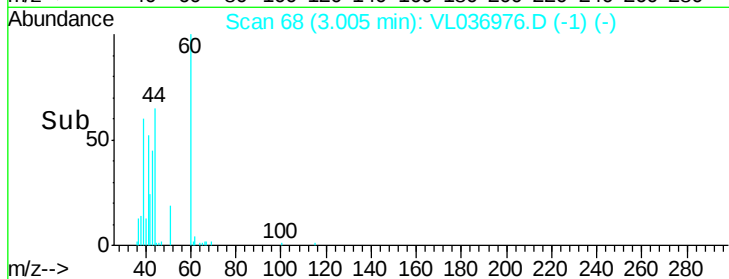
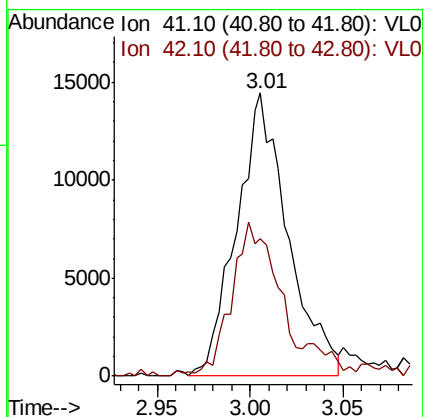
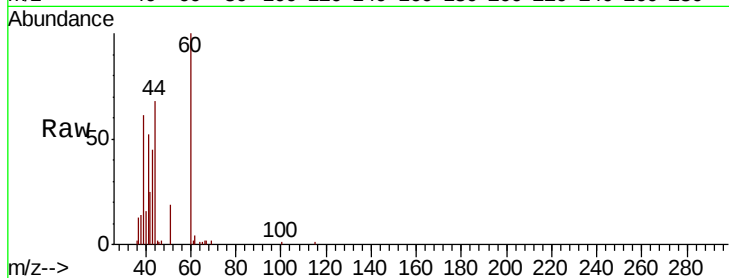
Ion Ratio Lower Upper

41 100

42 58.2 53.9 80.9

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#11

Trichlorofluoromethane

Concen: 0.200 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL036976.D

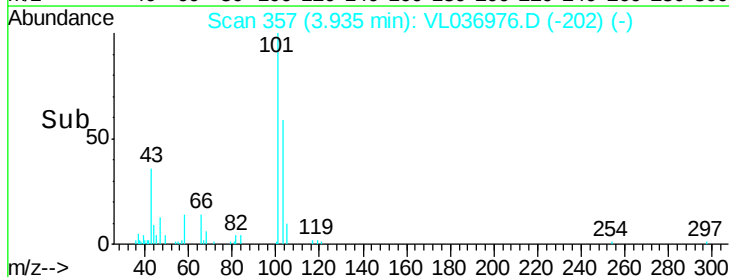
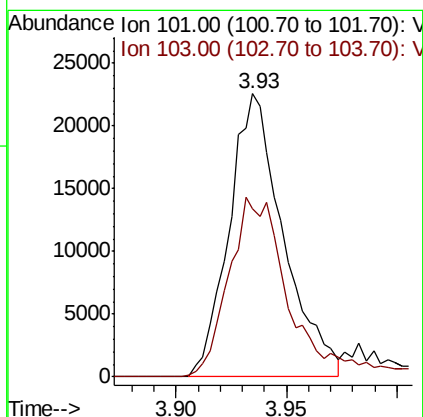
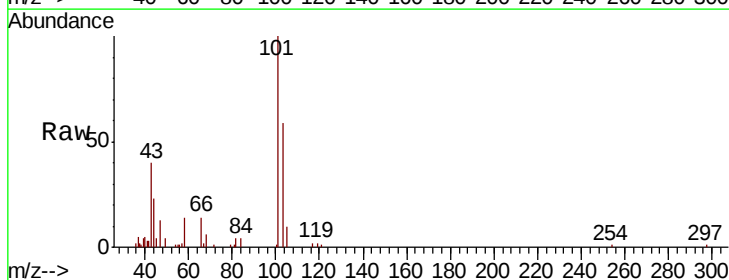
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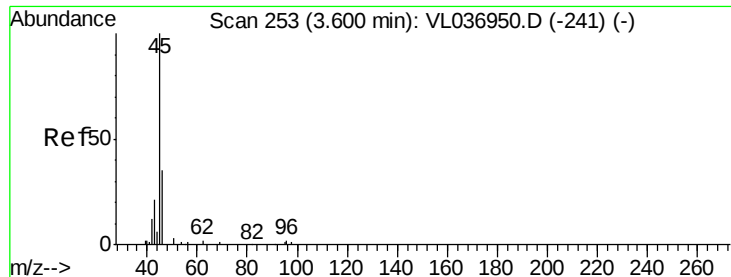
Tgt Ion: 101 Resp: 38560

Ion Ratio Lower Upper

101 100

103 59.1 52.6 79.0





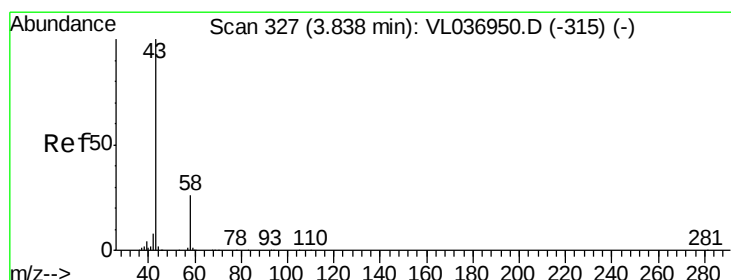
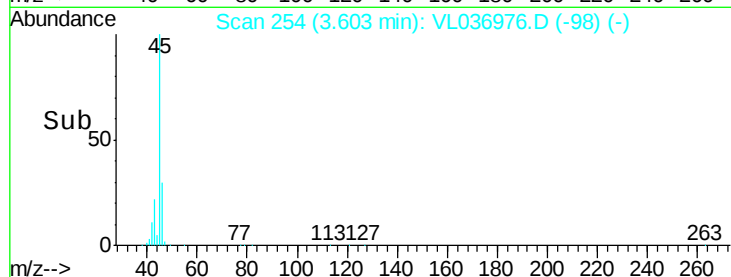
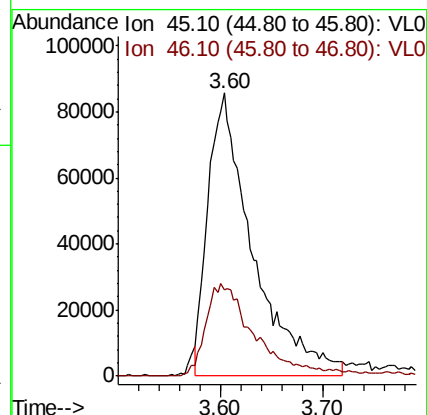
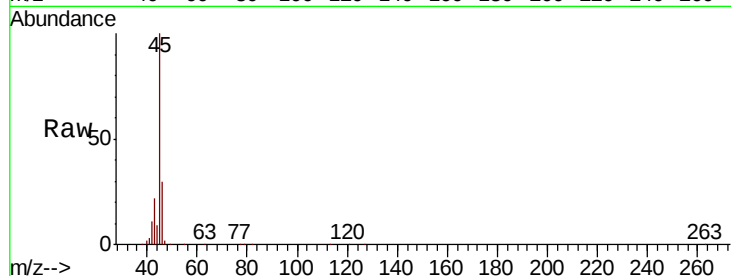
#13
Ethanol
Concen: 24.295 ppbv m
RT: 3.60 min Scan# 254
Delta R.T. 0.00 min
Lab File: VL036976.D
Acq: 18 May 2021 19:43

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion	Ratio	Lower	Upper
45	100		
46	36.5	16.3	65.3

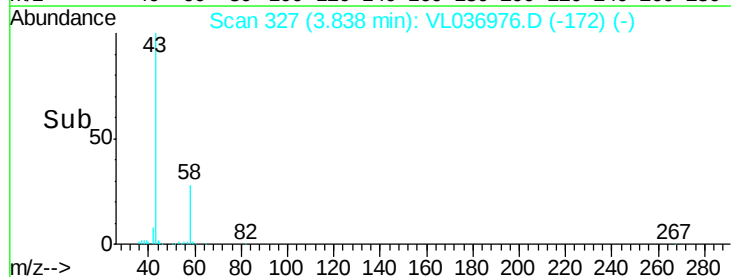
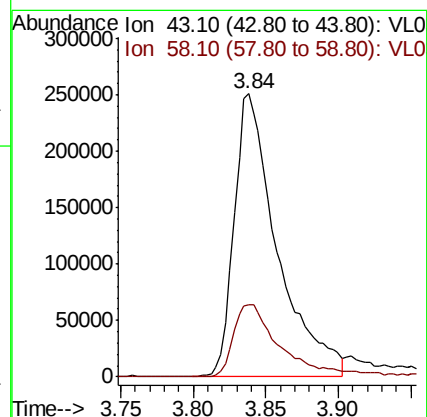
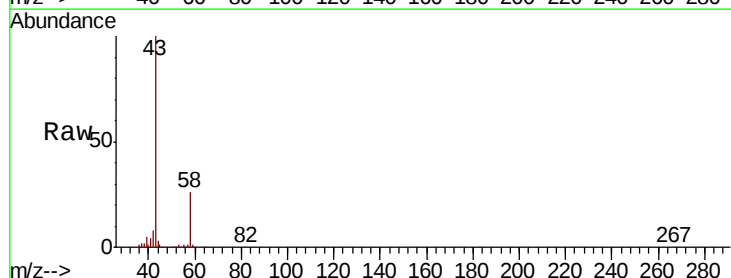
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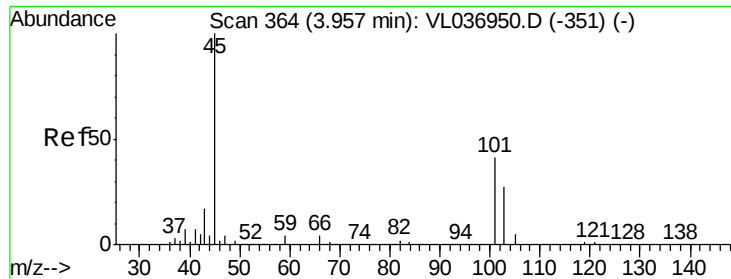
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#15
Acetone
Concen: 4.072 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.00 min
Lab File: VL036976.D
Acq: 18 May 2021 19:43

Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.3	24.0	36.0





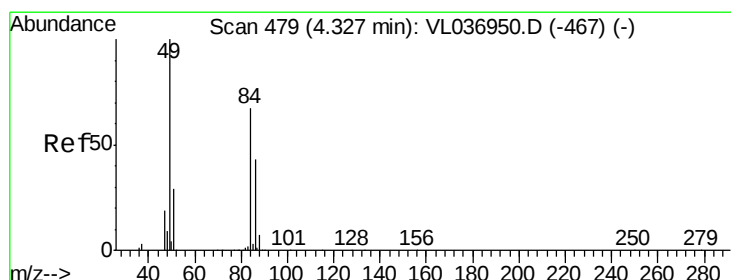
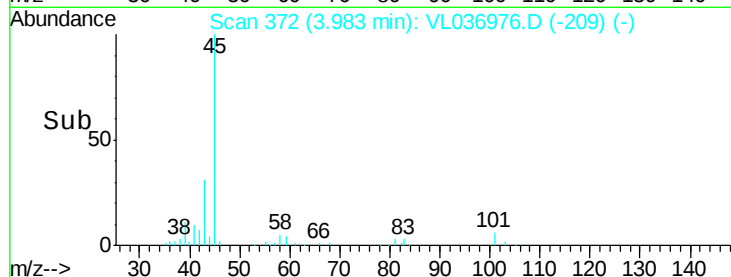
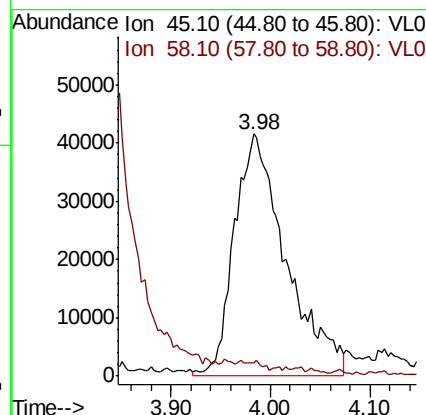
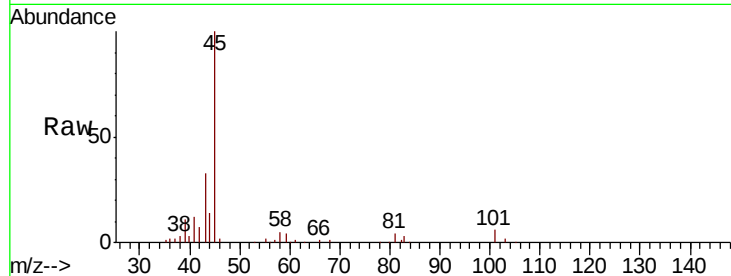
#19
Isopropyl Alcohol
Concen: 2.224 ppbv
RT: 3.98 min Scan# 372
Delta R.T. 0.03 min
Lab File: VL036976.D
Acq: 18 May 2021 19:43

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion: 45 Resp: 150437
Ion Ratio Lower Upper
45 100
58 4.3 37.2 55.8#

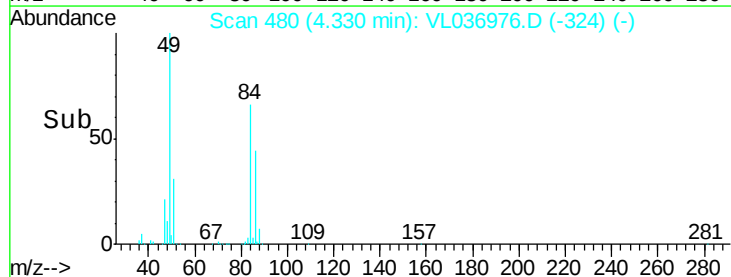
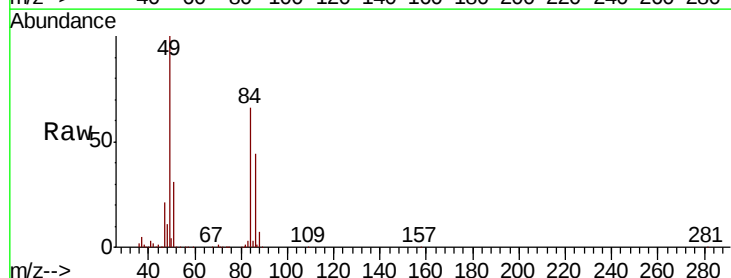
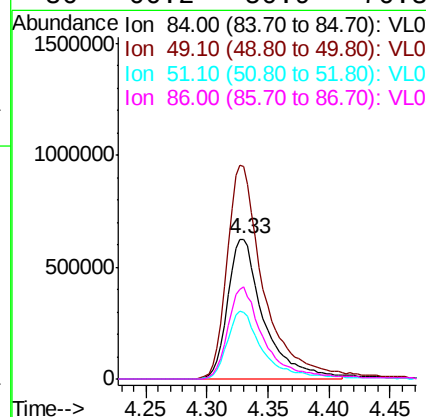
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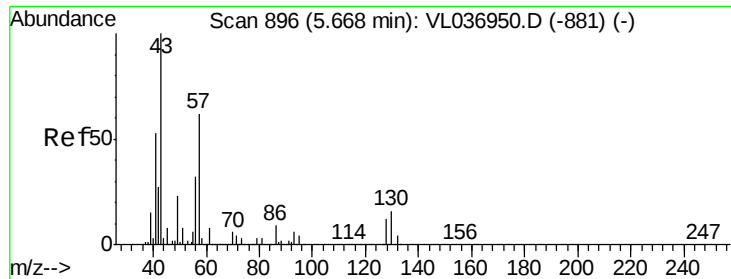
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#20
Methylene Chloride
Concen: 19.264 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL036976.D
Acq: 18 May 2021 19:43

Tgt Ion: 84 Resp: 1299500
Ion Ratio Lower Upper
84 100
49 151.5 119.8 179.6
51 47.3 35.1 52.7
86 66.2 50.9 76.3





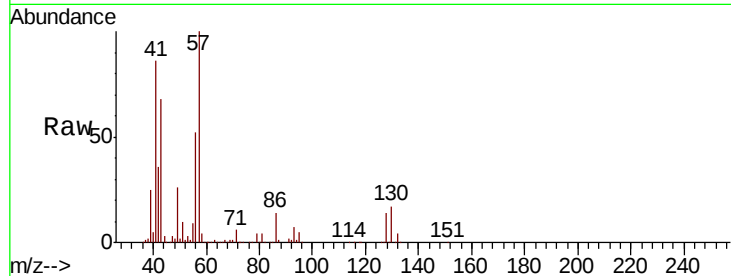
#26
Hexane
Concen: 10.567 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL036976.D
Acq: 18 May 2021 19:43

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion	Ratio	Lower	Upper
57	100		
41	87.8	70.5	105.7
43	69.9	165.8	248.8#
56	52.6	42.2	63.4

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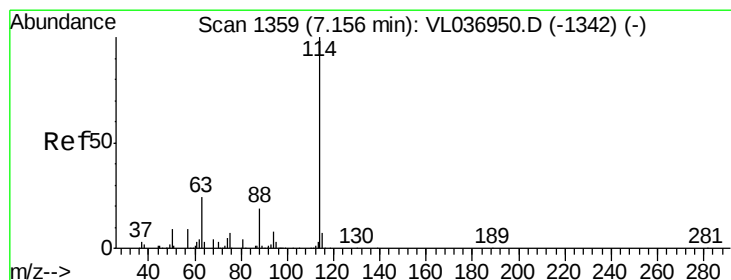
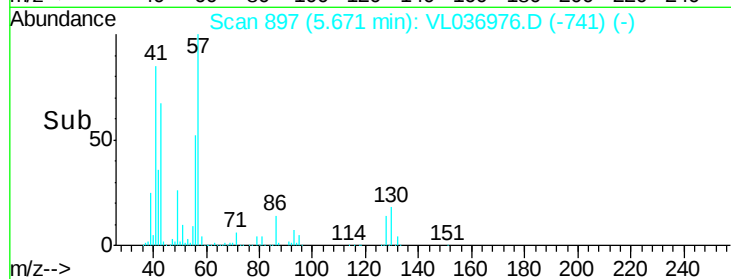
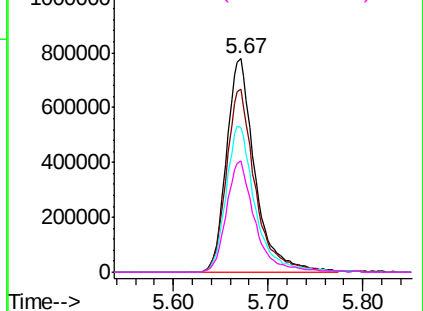
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

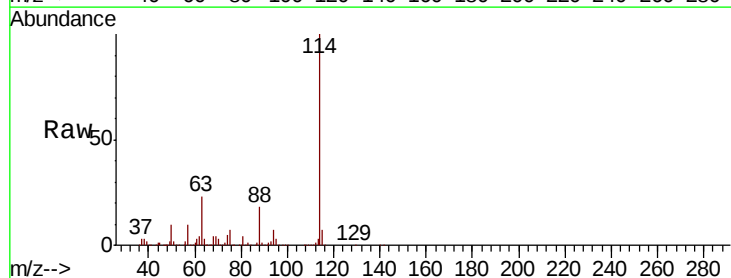
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL036976.D
Acq: 18 May 2021 19:43

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.2	19.6	29.4
88	17.8	14.6	21.8

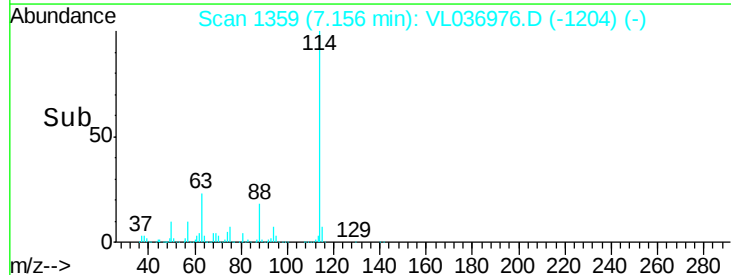
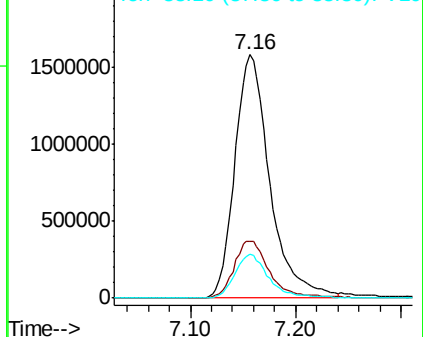


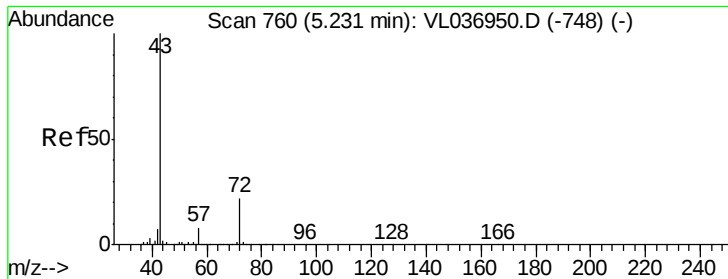
Abundance

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: 0.184 ppbv

RT: 5.24 min Scan# 763

Delta R.T. 0.01 min

Lab File: VL036976.D

Acq: 18 May 2021 19:43

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 43 Resp: 24471

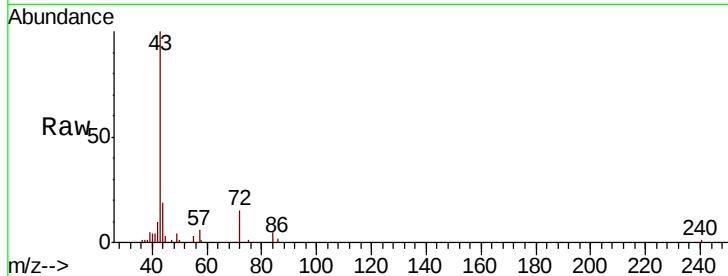
Ion Ratio Lower Upper

43 100

72 33.3 19.0 28.4#

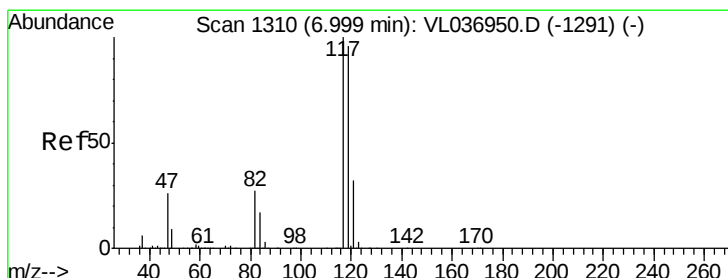
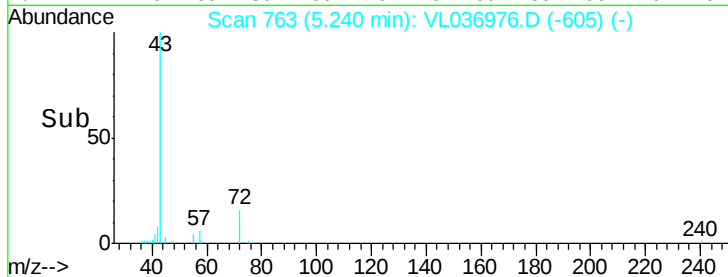
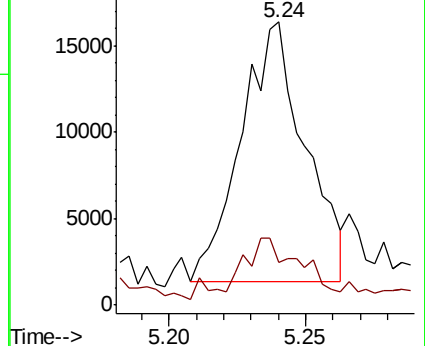
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.052 ppbv m

RT: 7.00 min Scan# 1310

Delta R.T. -0.00 min

Lab File: VL036976.D

Acq: 18 May 2021 19:43

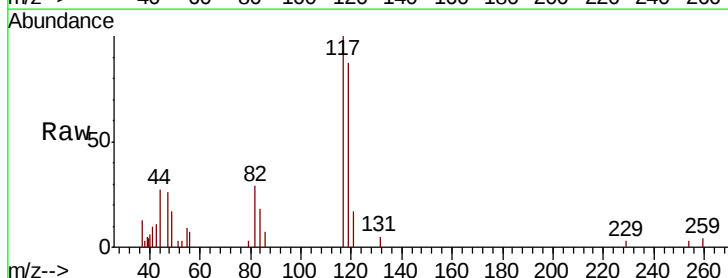
Tgt Ion: 117 Resp: 12498

Ion Ratio Lower Upper

117 100

119 86.6 76.6 114.8

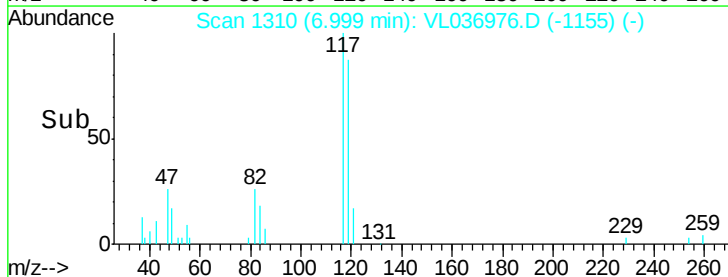
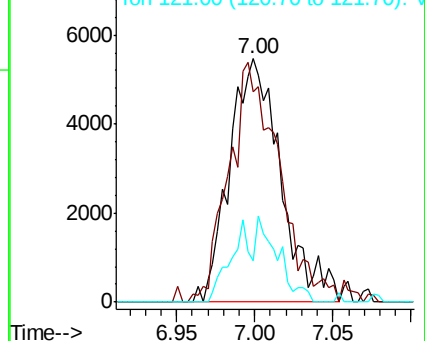
121 17.2 25.8 38.6#

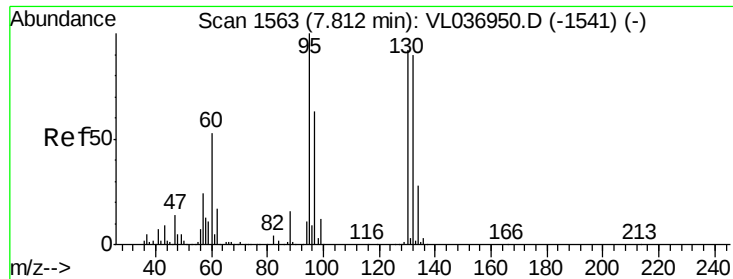


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





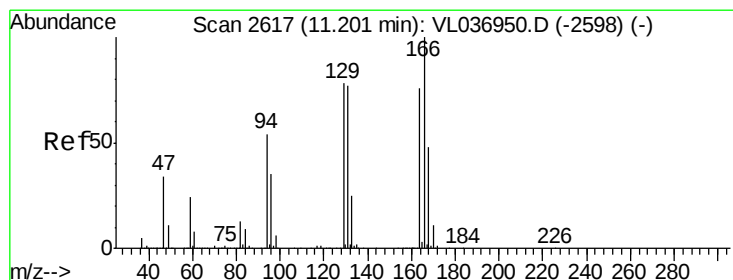
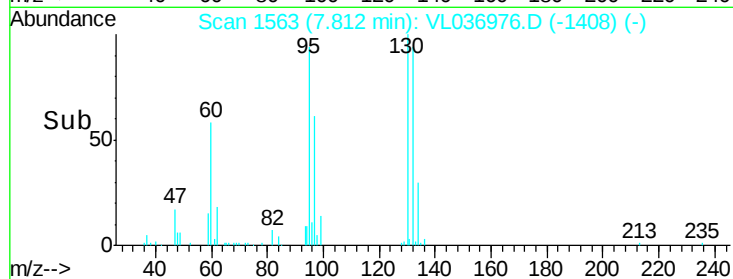
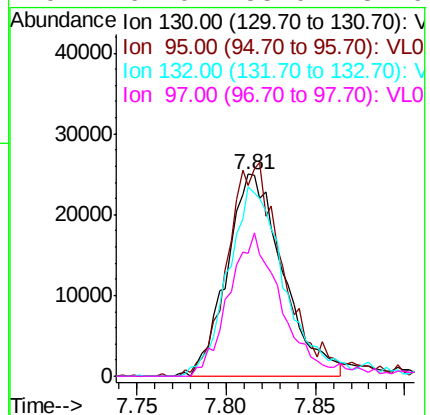
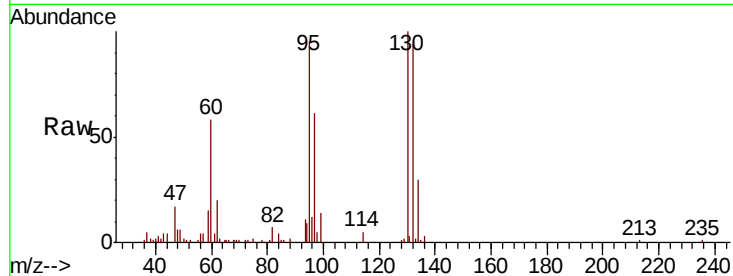
#38
 Trichloroethene
 Concen: 0.408 ppbv
 RT: 7.81 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VL036976.D
 Acq: 18 May 2021 19:43

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tot Ion	Ratio	Lower	Upper
130	100		
95	93.0	86.9	130.3
132	89.8	78.4	117.6
97	61.0	55.0	82.6

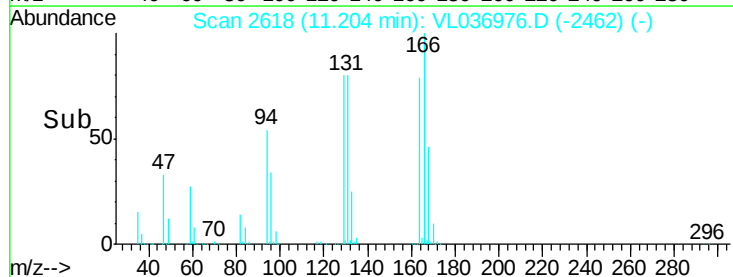
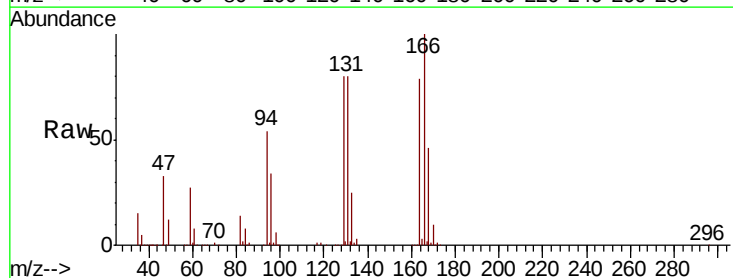
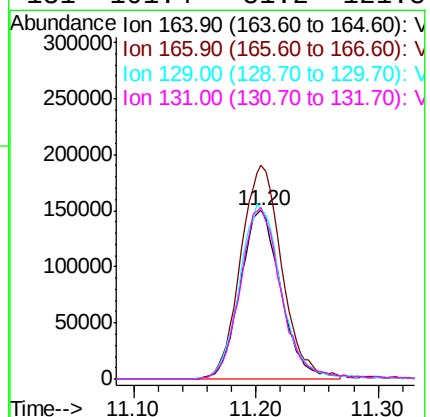
Manual Integrations
 APPROVED

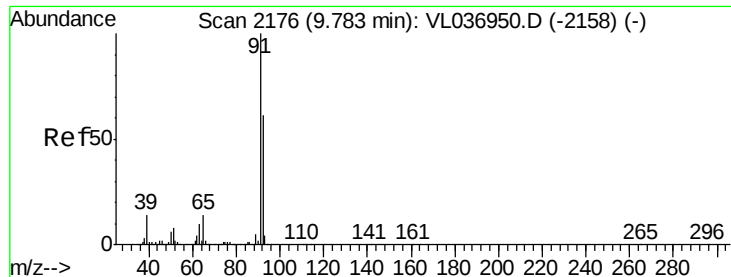
MMDadoda
 5/20/2021 5:55:56 PM



#52
 Tetrachloroethene
 Concen: 2.778 ppbv
 RT: 11.20 min Scan# 2618
 Delta R.T. 0.00 min
 Lab File: VL036976.D
 Acq: 18 May 2021 19:43

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.7	105.5	158.3
129	101.0	81.8	122.8
131	101.4	81.2	121.8





#53

Toluene

Concen: 0.241 ppbv m

RT: 9.79 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL036976.D

Acq: 18 May 2021 19:43

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 91 Resp: 89988

Ion Ratio Lower Upper

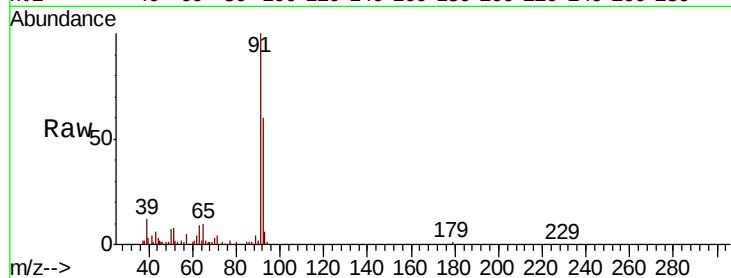
91 100

92 60.2 49.5 74.3

Manual Integrations
APPROVED

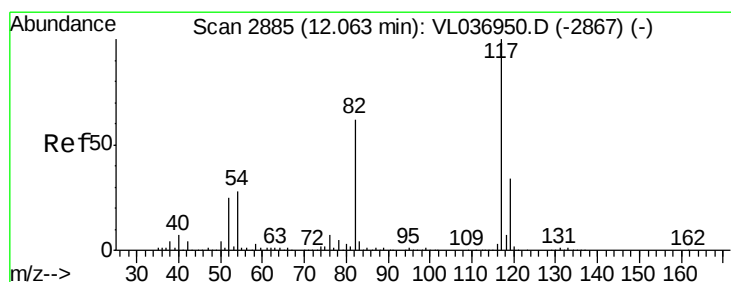
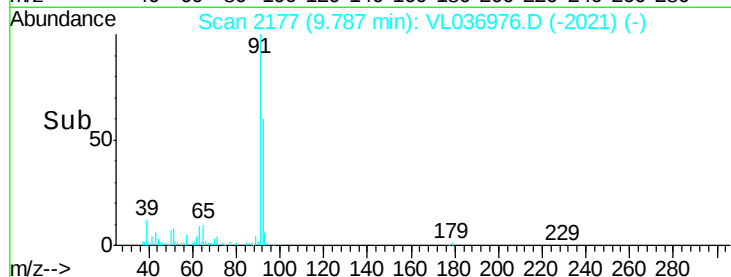
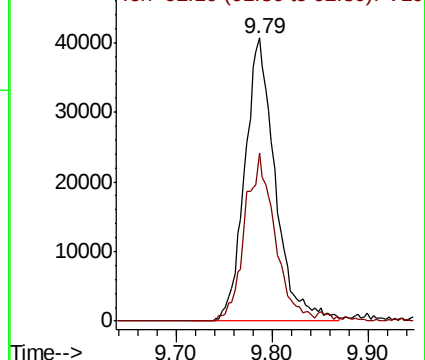
MMDadoda

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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: 12.06 min Scan# 2885

Delta R.T. -0.00 min

Lab File: VL036976.D

Acq: 18 May 2021 19:43

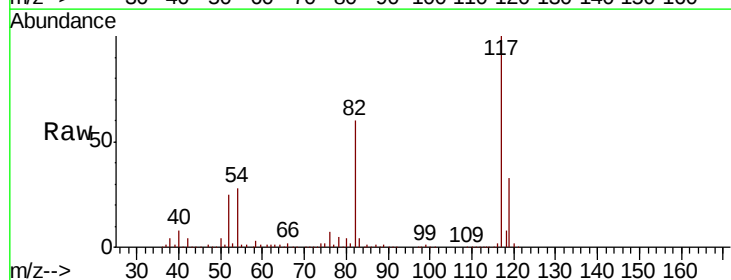
Tgt Ion: 117 Resp: 3327296

Ion Ratio Lower Upper

117 100

82 62.9 52.6 79.0

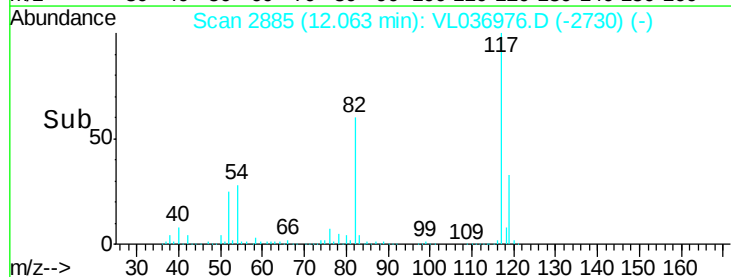
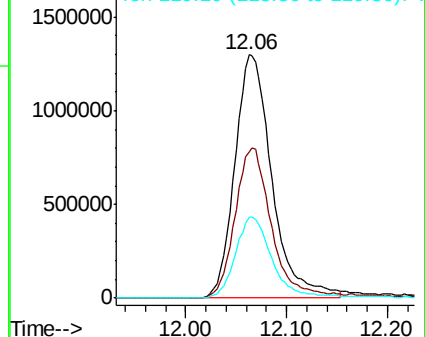
119 33.9 46.6 70.0#

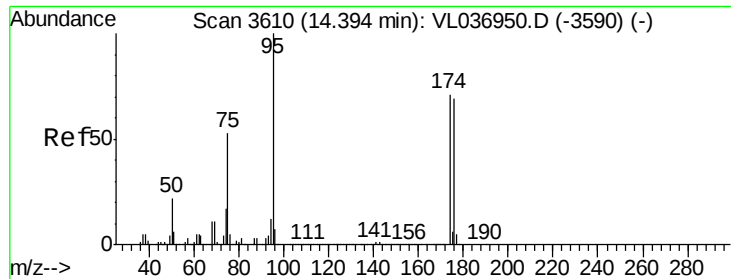


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.959 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. -0.00 min
 Lab File: VL036976.D
 Acq: 18 May 2021 19:43

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tot Ion	Ratio	Lower	Upper
95	100		
174	74.6	58.4	87.6
175	5.3	4.4	6.6

Manual Integrations
 APPROVED

MMDadoda
 5/20/2021 5:55:56 PM

