

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL033021\
 Data File : VL036584.D
 Acq On : 31 Mar 2021 00:31
 Operator : SY/AP
 Sample : M1797-09
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MF-SG-13(2021)

Manual Integrations
 APPROVED

MMDadoda
 4/1/2021 10:59:41 AM

Quant Time: Mar 31 21:46:32 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 2
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1418905	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	3170834	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	2858861	10.00	ppbv	-0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.40	95	2353029	10.33	ppbv	-0.03	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	32826	0.142	ppbv	92
3) Chlorodifluoromethane	2.97	51	29732	0.112	ppbv	98
4) Chloromethane	3.13	50	22916m	0.245	ppbv	
10) Heptane	8.11	43	30219m	0.140	ppbv	
11) Trichlorofluoromethane	3.94	101	61662	0.261	ppbv	89
13) Ethanol	3.59	45	1324851	131.640	ppbv	91
15) Acetone	3.84	43	1883265	13.485	ppbv	99
17) tert-Butyl alcohol	4.29	59	23117	0.190	ppbv #	81
19) Isopropyl Alcohol	3.96	45	234839m	3.057	ppbv	
20) Methylene Chloride	4.33	84	127930	1.957	ppbv	93
26) Hexane	5.67	57	224835	1.459	ppbv #	46
27) Carbon Disulfide	4.54	76	83367	0.549	ppbv #	85
29) Chloroform	5.73	83	60085m	0.244	ppbv	
32) 1,1,1-Trichloroethane	6.49	97	138168	0.556	ppbv	94
34) 2-Butanone	5.23	43	108709	0.702	ppbv	98
35) Carbon Tetrachloride	7.00	117	10983m	0.045	ppbv	
36) Benzene	6.87	78	61652	0.211	ppbv	99
40) 1,4-Dioxane	7.85	88	20684m	0.749	ppbv	
52) Tetrachloroethene	11.20	164	242955	2.256	ppbv	94
53) Toluene	9.79	91	92464	0.297	ppbv	98
59) m/p-Xylene	12.95	91	90136m	0.248	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	94807m	0.247	ppbv	

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

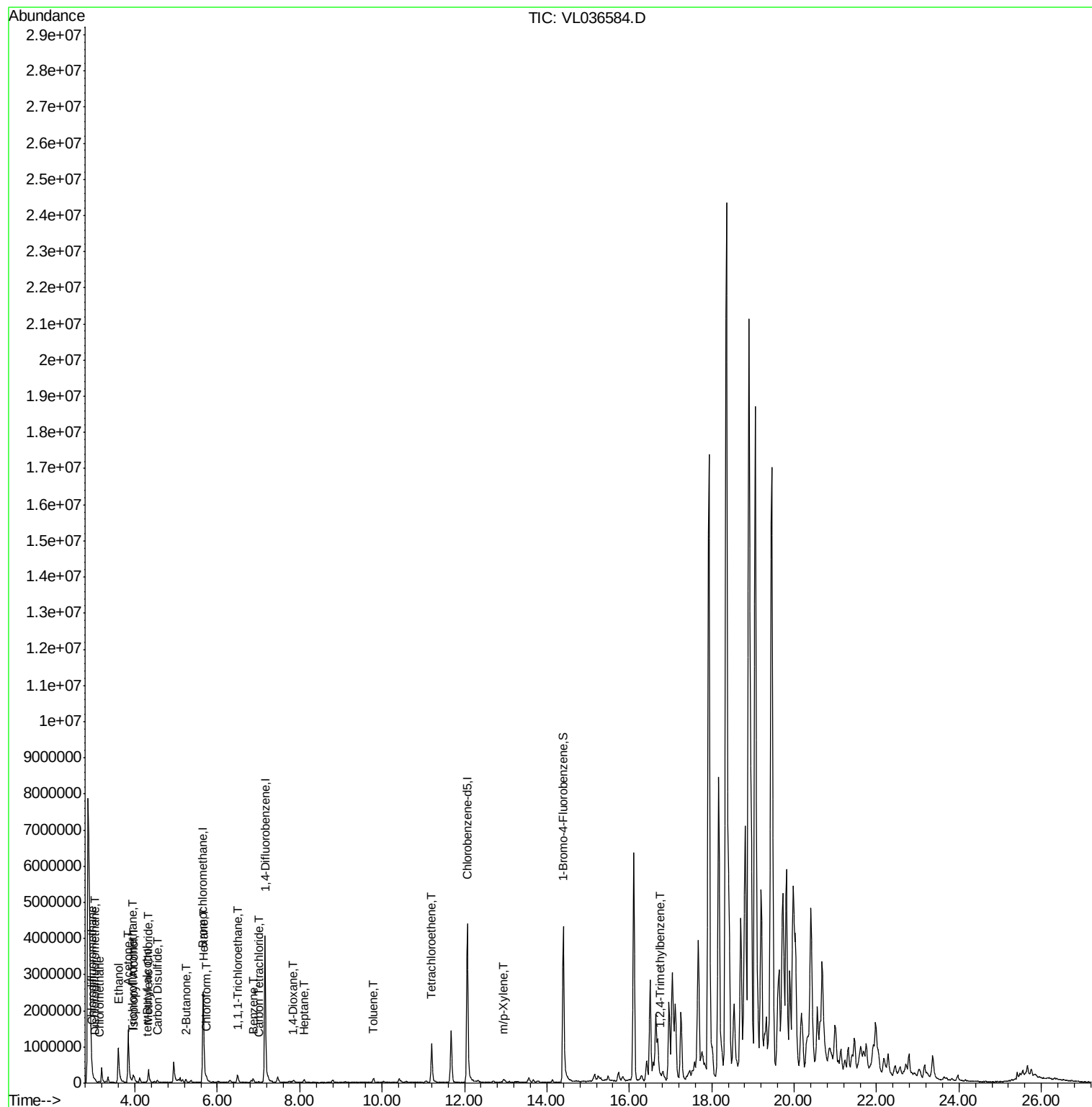
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL033021\
Data File : VL036584.D
Acq On : 31 Mar 2021 00:31
Operator : SY/AP
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Misc : 400mL/MSVOA L
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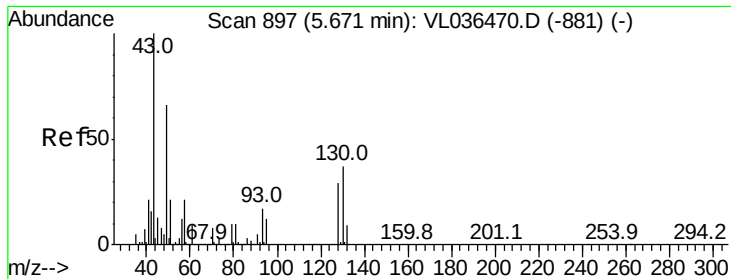
Instrument :
MSVOA_L
ClientSampleId :
MF-SG-13(2021)

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4/1/2021 10:59:41 AM

Quant Time: Mar 31 21:46:32 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.02 min

Lab File: VL036584.D

Acq: 31 Mar 2021 00:31

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-13(2021)

Tot Ion: 49 Resp: 1418905

Ion Ratio Lower Upper

49 100

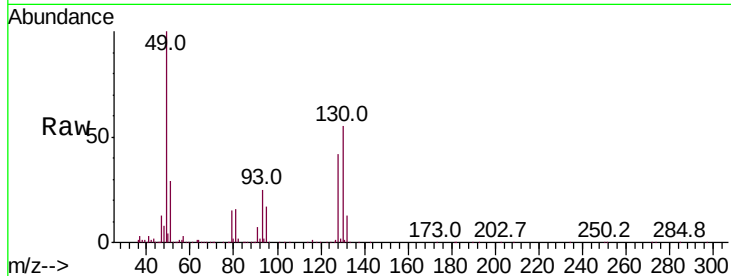
128 43.6 23.5 70.6

130 55.9 29.1 87.4

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

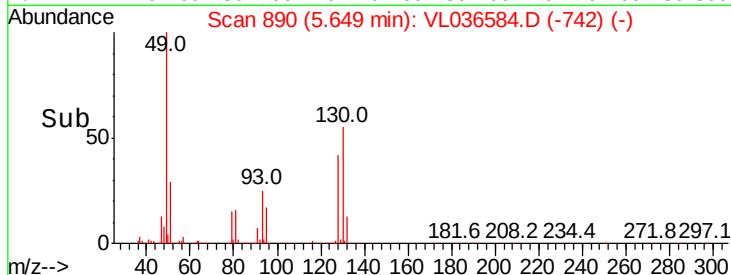
600000

400000

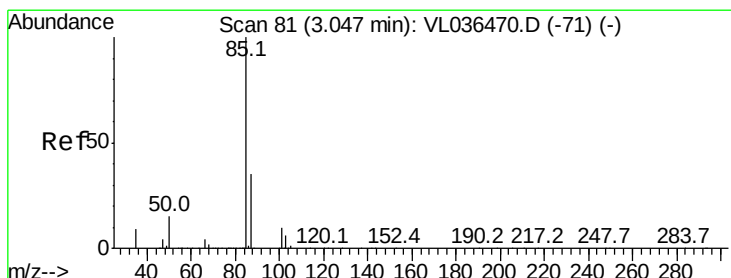
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0

5.55 5.60 5.65 5.70 5.75



Time-->



#2

Dichlorodifluoromethane

Concen: 0.142 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.01 min

Lab File: VL036584.D

Acq: 31 Mar 2021 00:31

Tgt Ion: 85 Resp: 32826

Ion Ratio Lower Upper

85 100

87 30.2 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

25000

20000

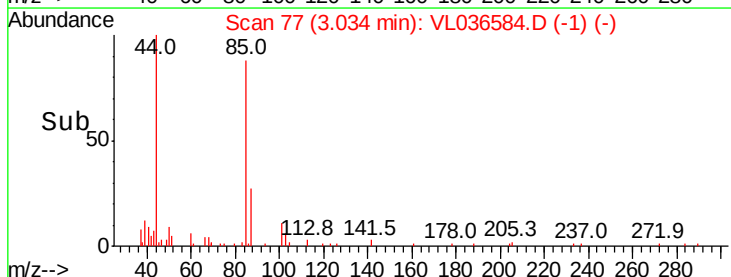
15000

10000

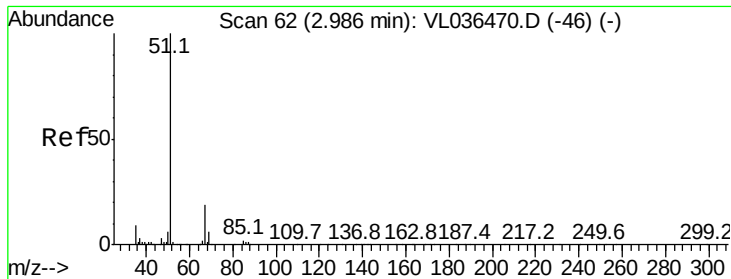
5000

0

3.00 3.05



Time-->



#3

Chlorodifluoromethane

Concen: 0.112 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.01 min

Lab File: VL036584.D

Acq: 31 Mar 2021 00:31

Instrument :

MSVOA_L

ClientSampleId :

MF-SG-13(2021)

Tot Ion: 51 Resp: 29732

Ion Ratio Lower Upper

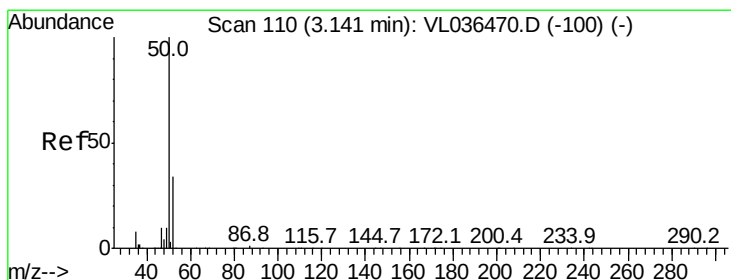
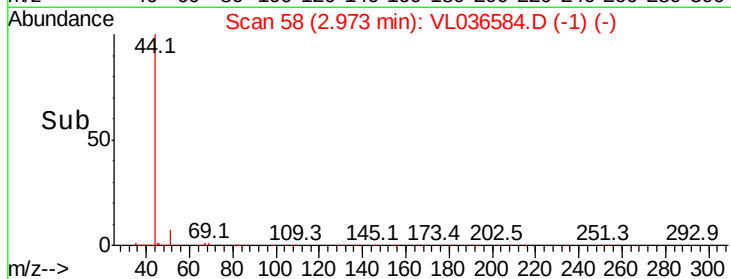
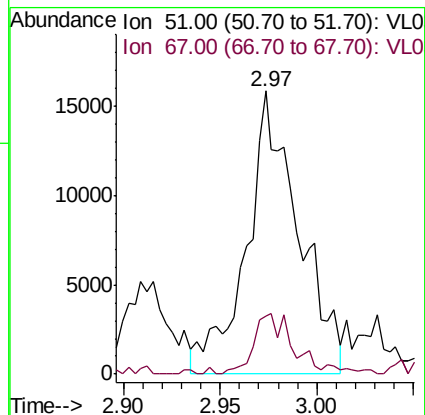
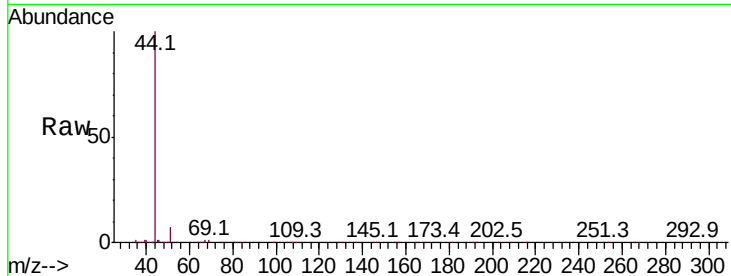
51 100

67 17.7 14.7 22.1

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#4

Chloromethane

Concen: 0.245 ppbv m

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL036584.D

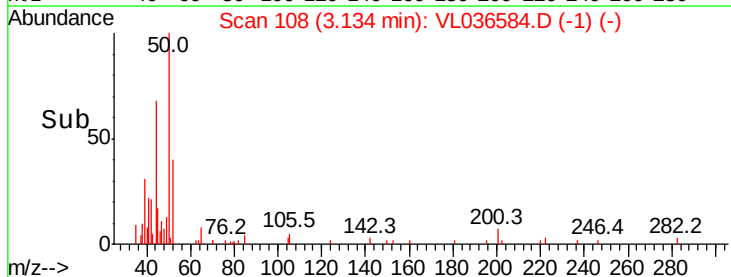
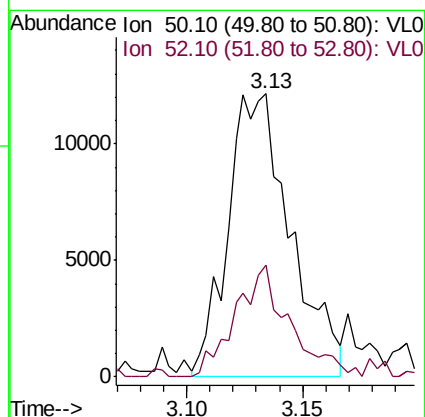
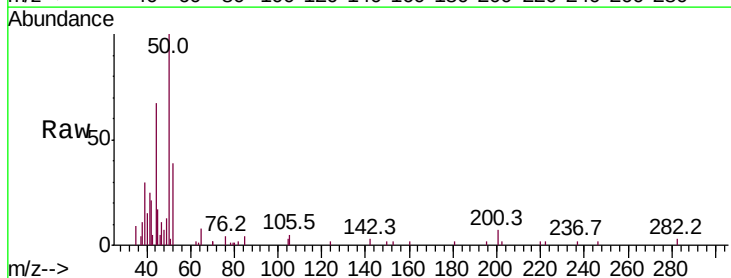
Acq: 31 Mar 2021 00:31

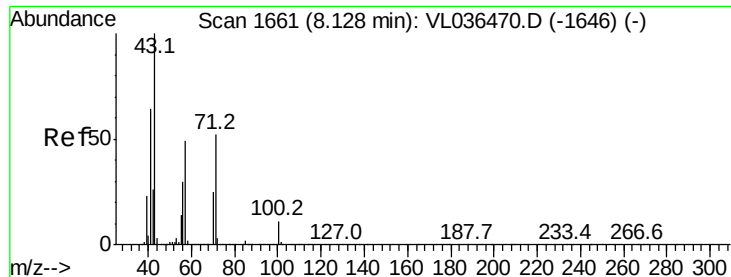
Tgt Ion: 50 Resp: 22916

Ion Ratio Lower Upper

50 100

52 39.4 27.0 40.6





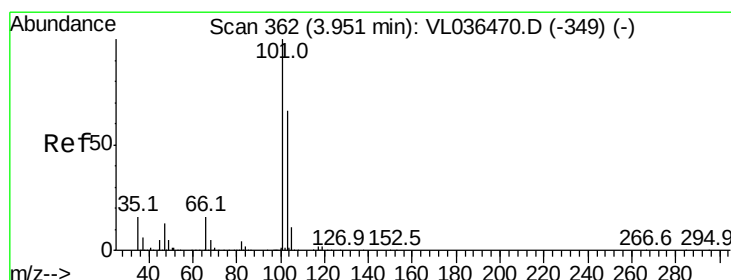
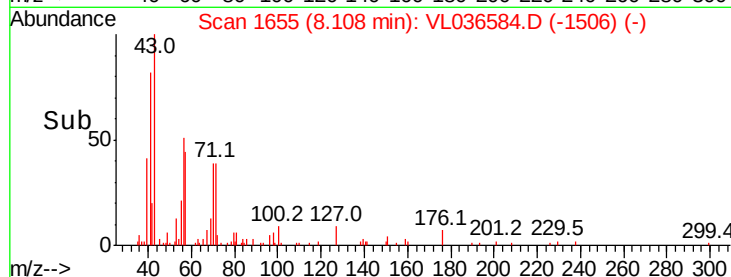
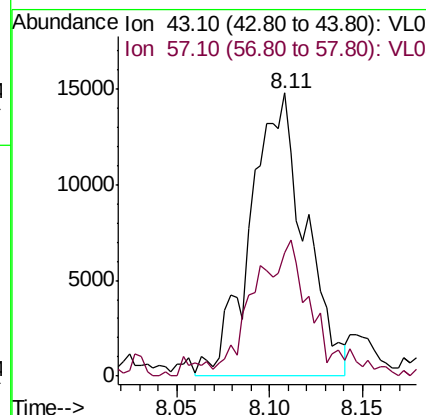
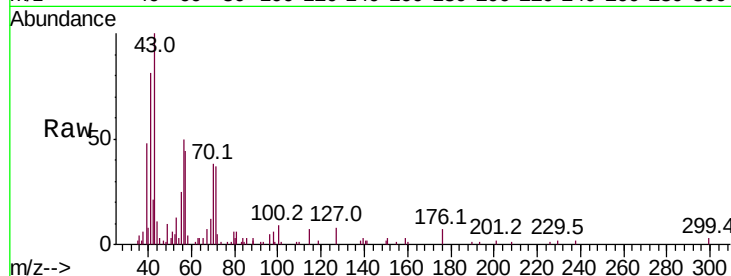
#10
 Heptane
 Concen: 0.140 ppbv m
 RT: 8.11 min Scan# 1655
 Delta R.T. -0.02 min
 Lab File: VL036584.D
 Acq: 31 Mar 2021 00:31

Instrument :
 MSVOA_L
 ClientSampleId :
 MF-SG-13(2021)

Tot Ion: 43 Resp: 30219
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.0 58.6#

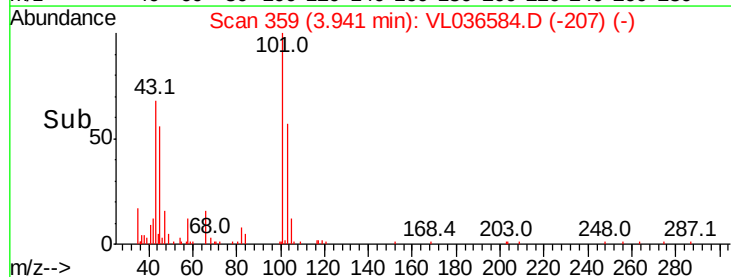
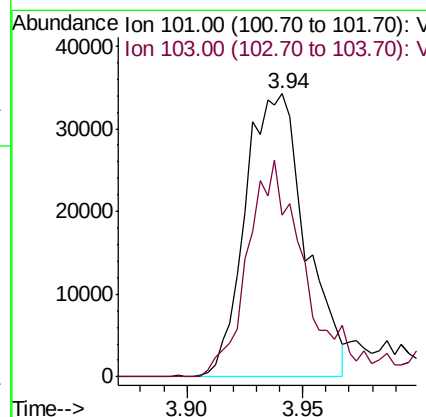
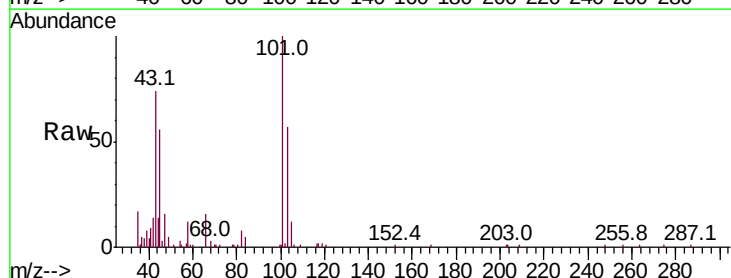
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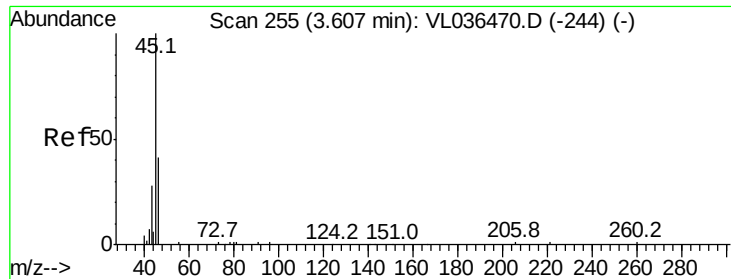
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#11
 Trichlorofluoromethane
 Concen: 0.261 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. -0.01 min
 Lab File: VL036584.D
 Acq: 31 Mar 2021 00:31

Tgt Ion: 101 Resp: 61662
 Ion Ratio Lower Upper
 101 100
 103 57.2 52.5 78.7





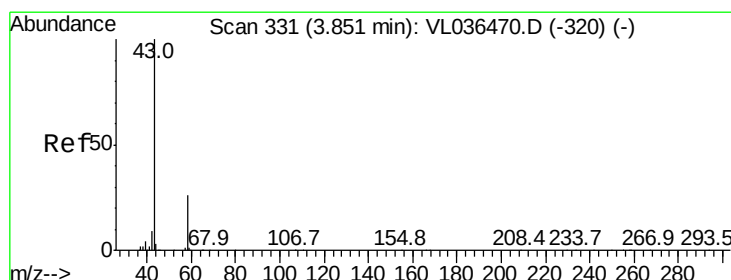
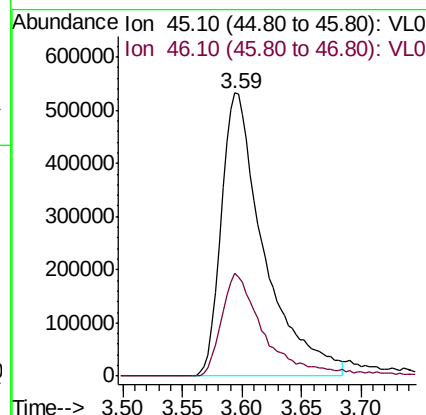
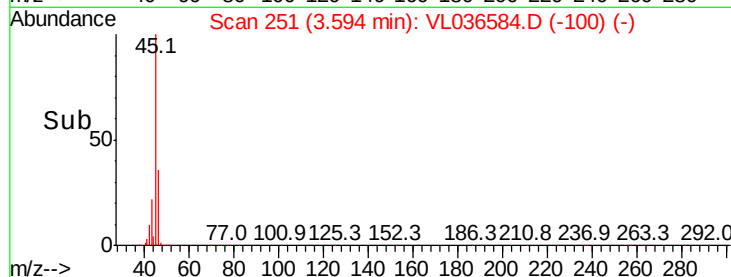
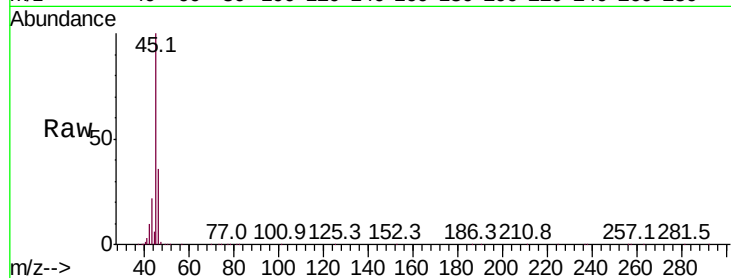
#13
Ethanol
Concen: 131.640 ppbv
RT: 3.59 min Scan# 251
Delta R.T. -0.01 min
Lab File: VL036584.D
Acq: 31 Mar 2021 00:31

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-13(2021)

Tot Ion: 45 Resp: 1324851
Ion Ratio Lower Upper
45 100
46 36.0 16.6 66.2

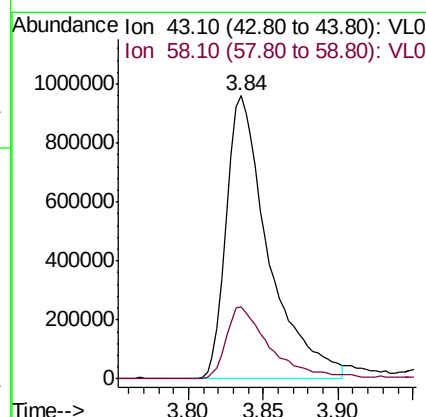
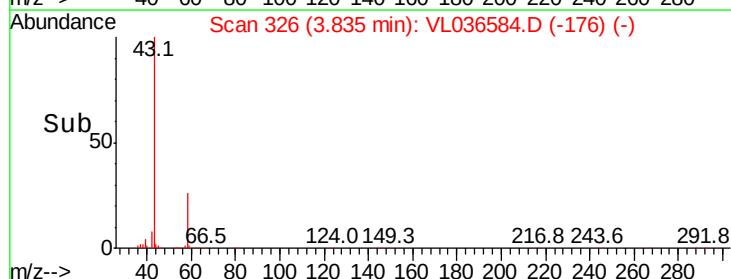
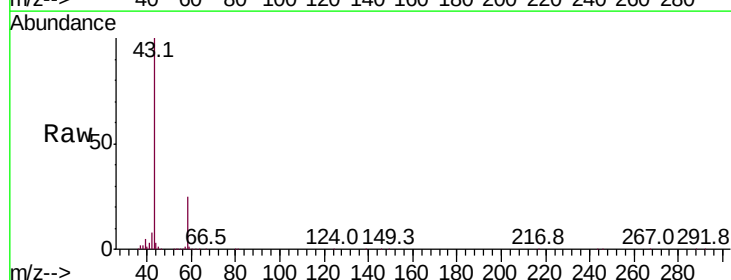
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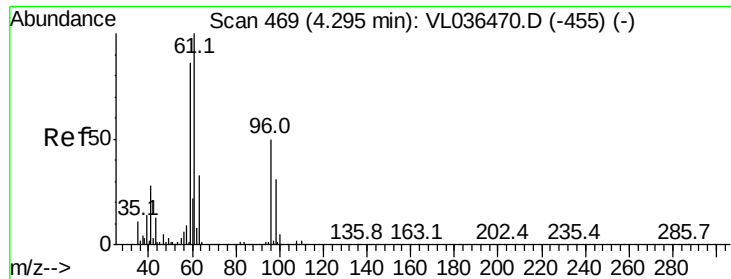
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#15
Acetone
Concen: 13.485 ppbv
RT: 3.84 min Scan# 326
Delta R.T. -0.02 min
Lab File: VL036584.D
Acq: 31 Mar 2021 00:31

Tgt Ion: 43 Resp: 1883265
Ion Ratio Lower Upper
43 100
58 27.0 21.2 31.8





#17

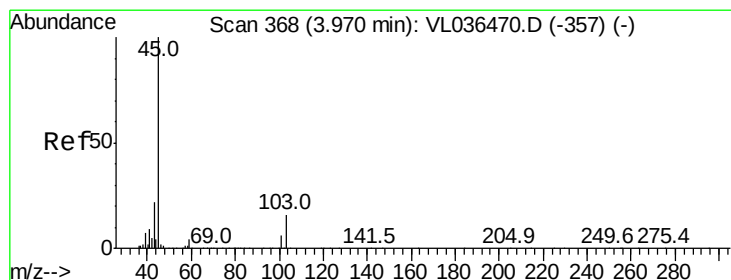
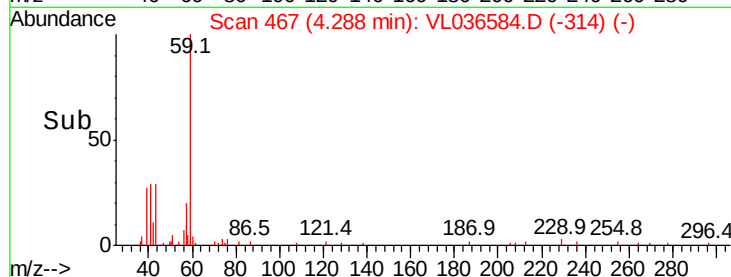
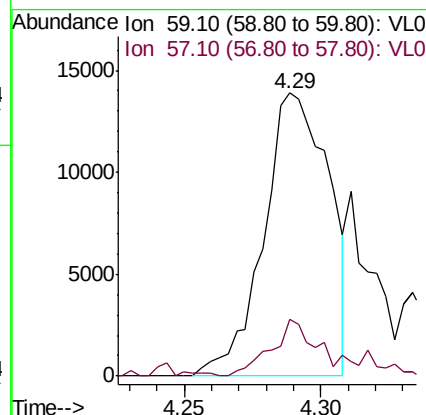
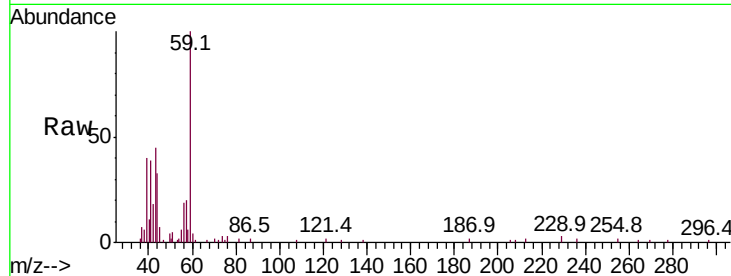
tert-Butyl alcohol
Concen: 0.190 ppbv
RT: 4.29 min Scan# 467
Delta R.T. -0.01 min
Lab File: VL036584.D
Acq: 31 Mar 2021 00:31

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-13(2021)

Tot Ion	59	Resp	23117
Ion	Ratio	Lower	Upper
59	100		
57	17.9	8.6	12.8#

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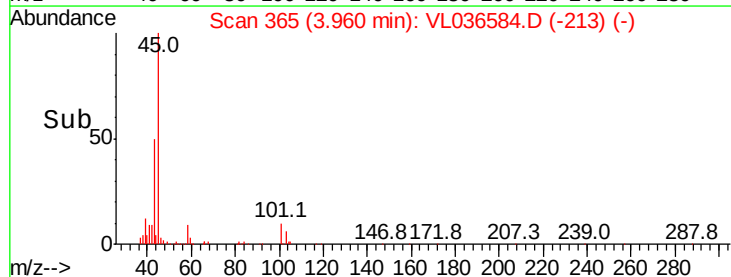
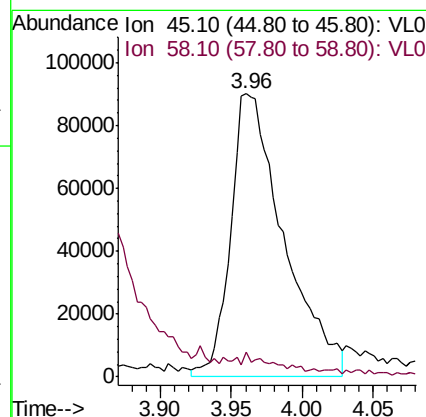
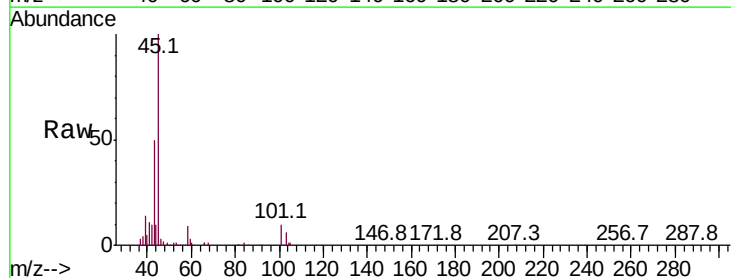
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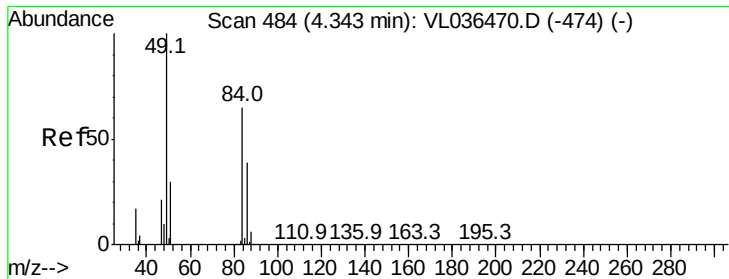


#19

Isopropyl Alcohol
Concen: 3.057 ppbv m
RT: 3.96 min Scan# 365
Delta R.T. -0.01 min
Lab File: VL036584.D
Acq: 31 Mar 2021 00:31

Tgt Ion	45	Resp	234839
Ion	Ratio	Lower	Upper
45	100		
58	219.2	2.9	4.3#





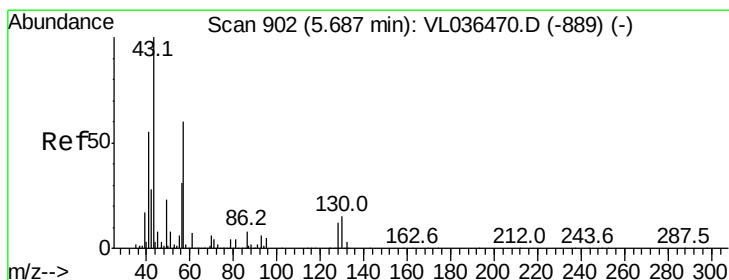
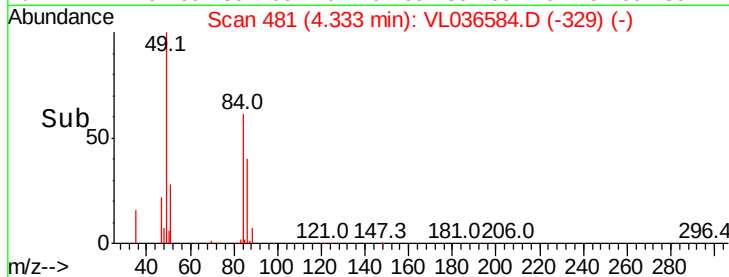
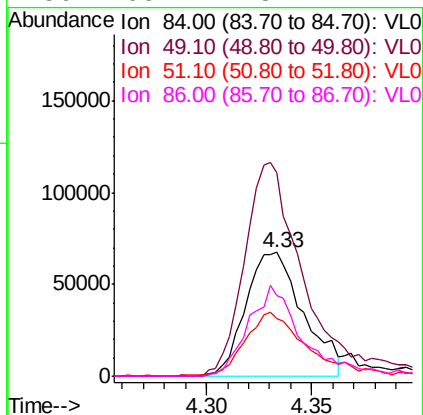
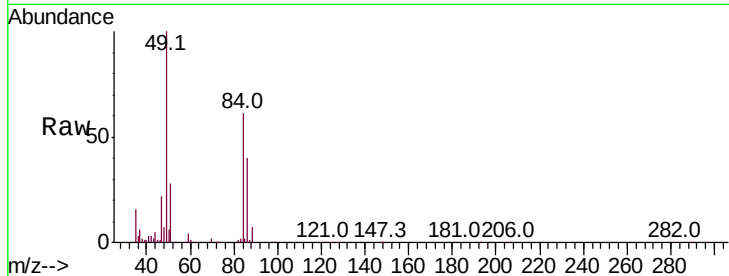
#20
Methylene Chloride
Concen: 1.957 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.01 min
Lab File: VL036584.D
Acq: 31 Mar 2021 00:31

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-13(2021)

Tot Ion	84	Resp	127930
Ion	Ratio	Lower	Upper
84	100		
49	164.5	122.9	184.3
51	45.7	36.9	55.3
86	65.1	48.2	72.4

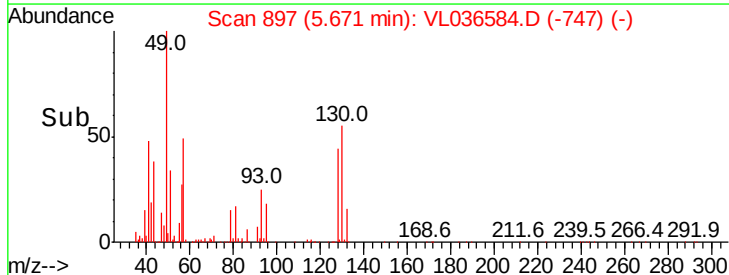
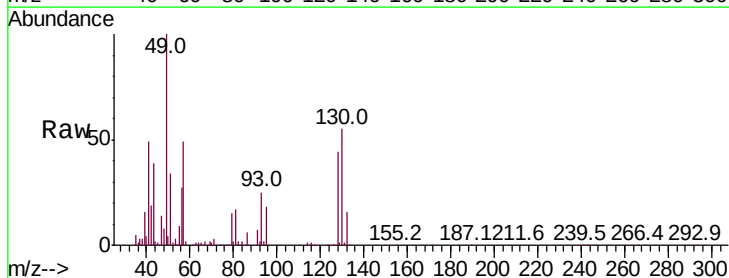
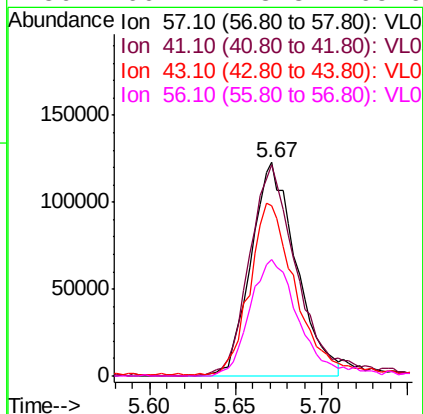
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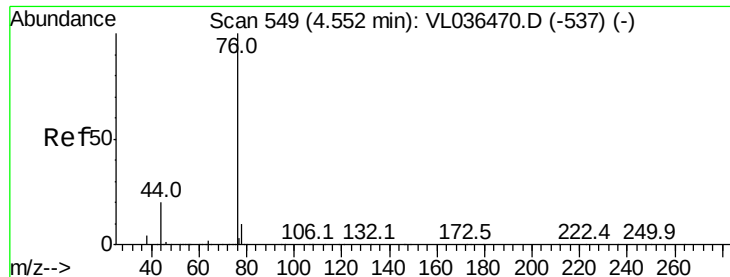
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#26
Hexane
Concen: 1.459 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.02 min
Lab File: VL036584.D
Acq: 31 Mar 2021 00:31

Tgt Ion	57	Resp	224835
Ion	Ratio	Lower	Upper
57	100		
41	107.3	77.2	115.8
43	82.3	173.8	260.6
56	60.4	43.8	65.6





#27

Carbon Disulfide

Concen: 0.549 ppbv

RT: 4.54 min Scan# 545

Delta R.T. -0.01 min

Lab File: VL036584.D

Acq: 31 Mar 2021 00:31

Instrument :

MSVOA_L

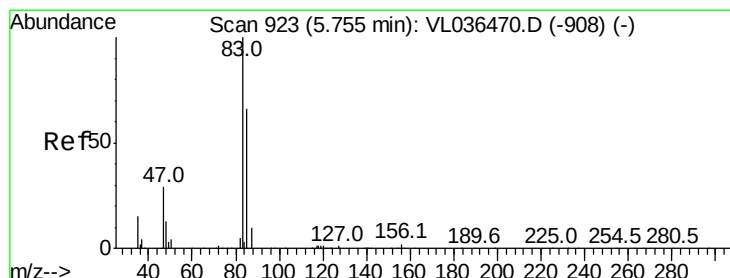
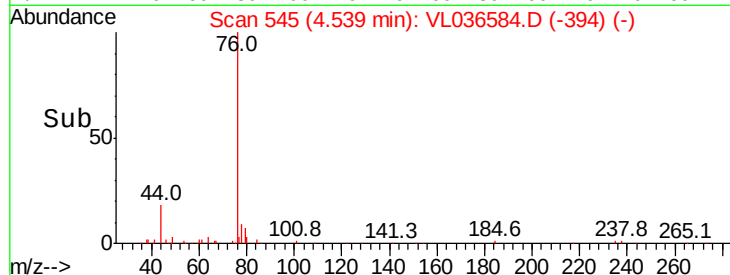
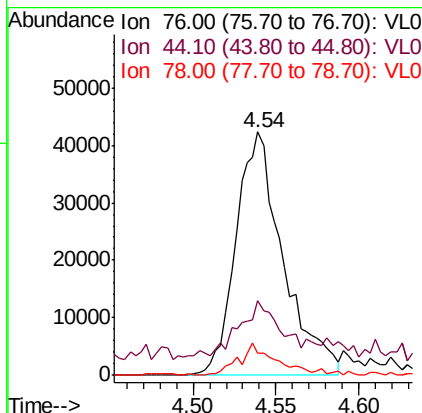
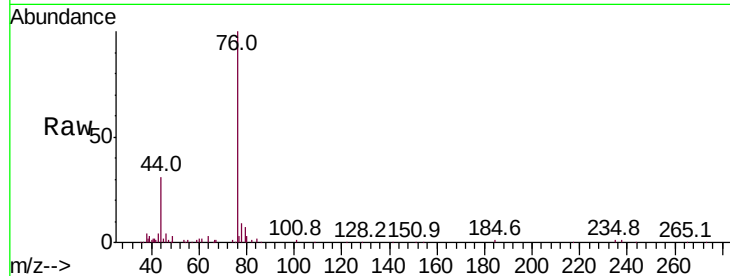
ClientSampleId :

MF-SG-13(2021)

Tot Ion:	76	Resp:	83367
Ion Ratio	Lower	Upper	
76	100		
44	31.9	17.5	26.3#
78	12.2	8.6	13.0

Manual Integrations
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#29

Chloroform

Concen: 0.244 ppbv m

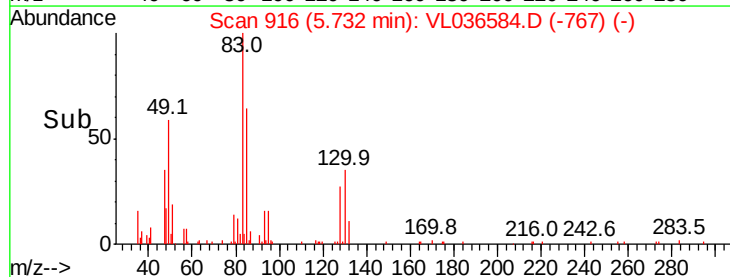
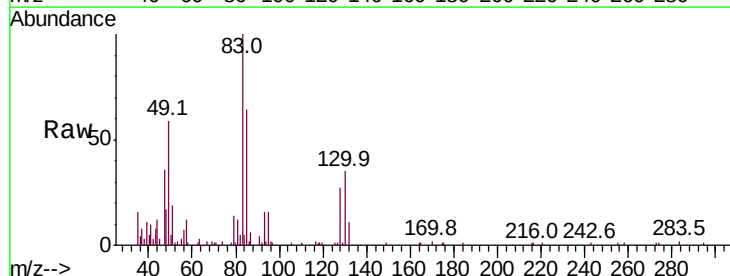
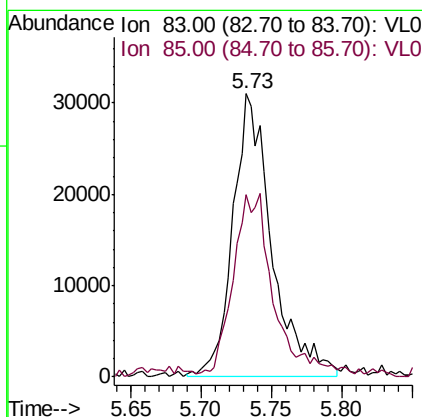
RT: 5.73 min Scan# 916

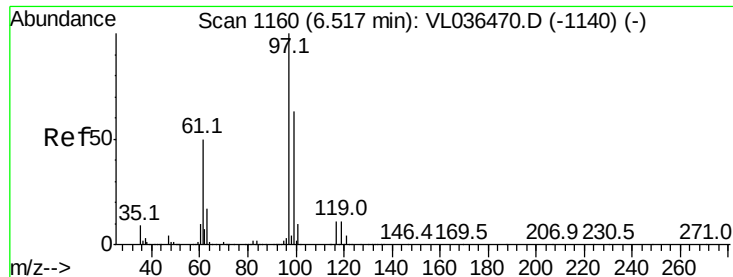
Delta R.T. -0.02 min

Lab File: VL036584.D

Acq: 31 Mar 2021 00:31

Tgt Ion:	83	Resp:	60085
Ion Ratio	Lower	Upper	
83	100		
85	64.5	52.6	78.8





#32

1,1,1-Trichloroethane

Concen: 0.556 ppbv

RT: 6.49 min Scan# 1153

Delta R.T. -0.02 min

Lab File: VL036584.D

Acq: 31 Mar 2021 00:31

Instrument :

MSVOA_L

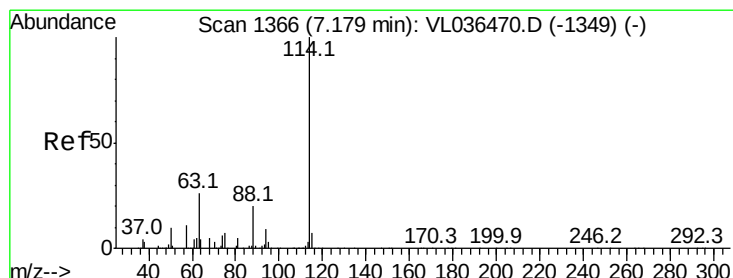
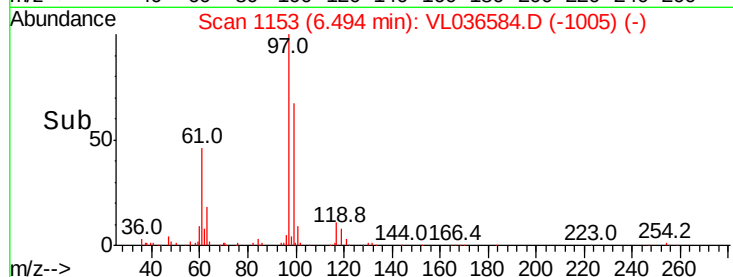
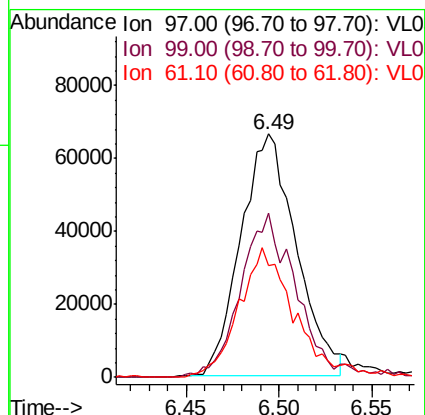
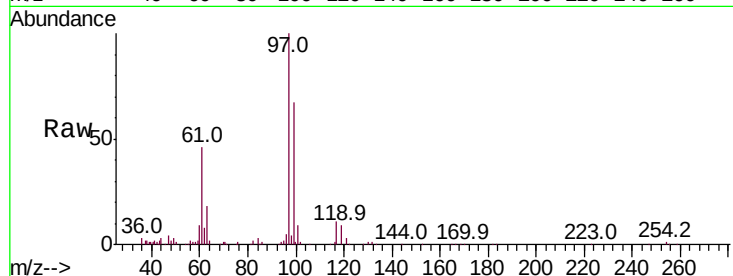
ClientSampleId :

MF-SG-13(2021)

Tot Ion:	97	Resp:	138168
Ion Ratio	Lower	Upper	
97	100		
99	69.3	51.4	77.0
61	54.9	40.6	60.8

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

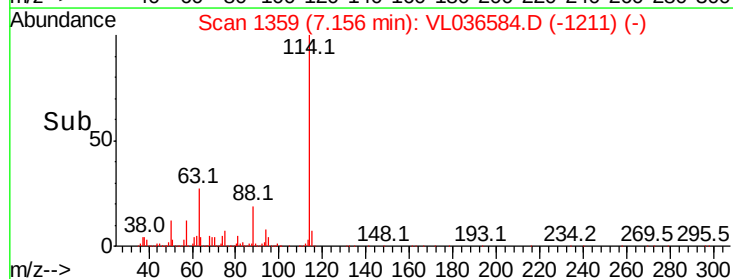
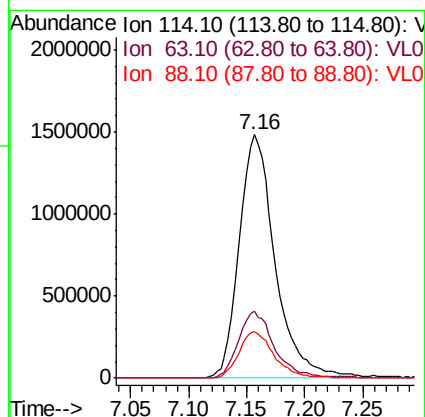
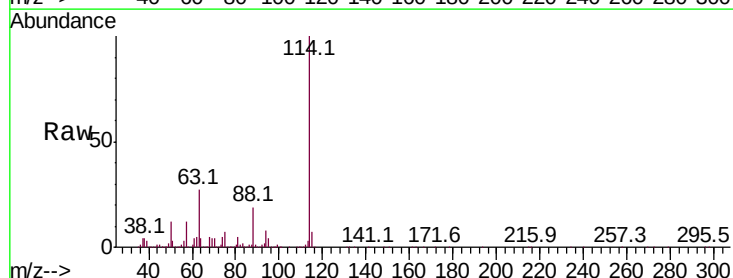
RT: 7.16 min Scan# 1359

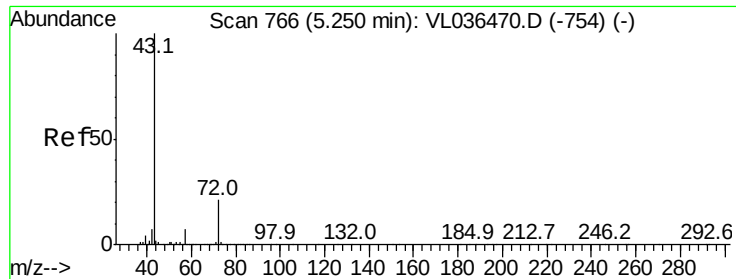
Delta R.T. -0.02 min

Lab File: VL036584.D

Acq: 31 Mar 2021 00:31

Tgt Ion:	114	Resp:	3170834
Ion Ratio	Lower	Upper	
114	100		
63	28.2	22.4	33.6
88	19.5	15.4	23.0





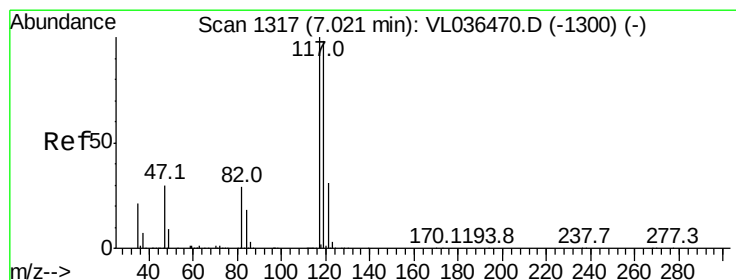
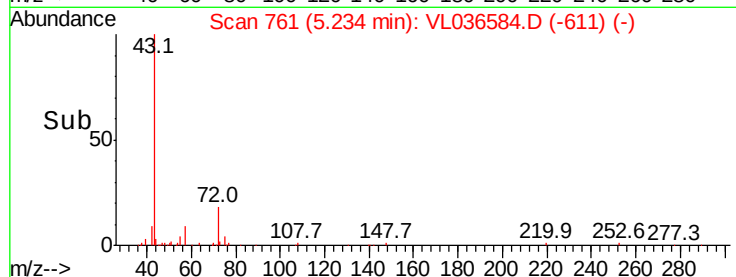
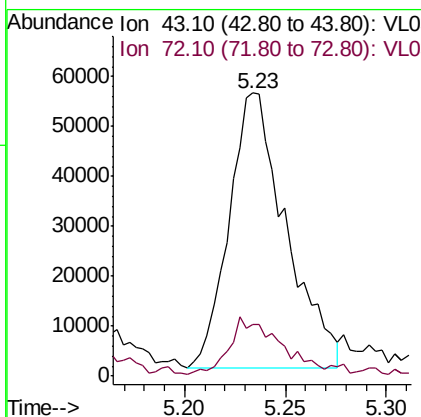
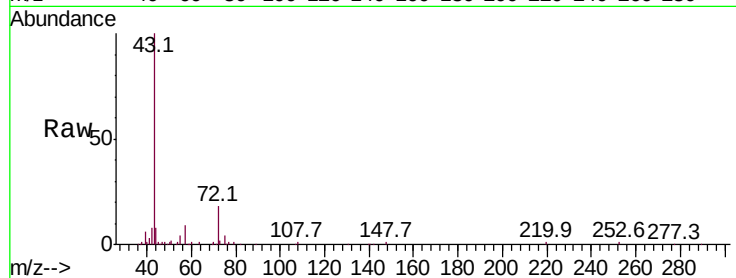
#34
2-Butanone
Concen: 0.702 ppbv
RT: 5.23 min Scan# 761
Delta R.T. -0.02 min
Lab File: VL036584.D
Acq: 31 Mar 2021 00:31

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-13(2021)

Tot Ion: 43 Resp: 108709
Ion Ratio Lower Upper
43 100
72 22.1 17.0 25.6

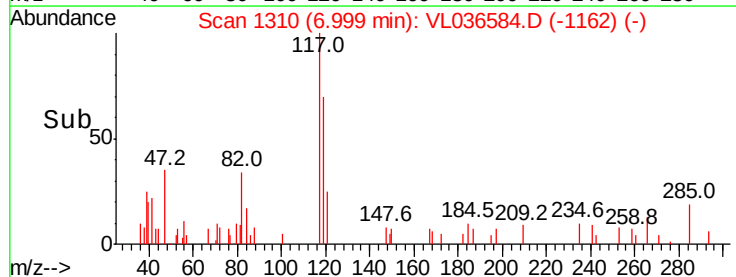
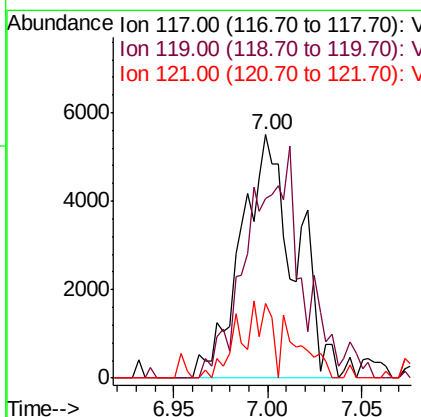
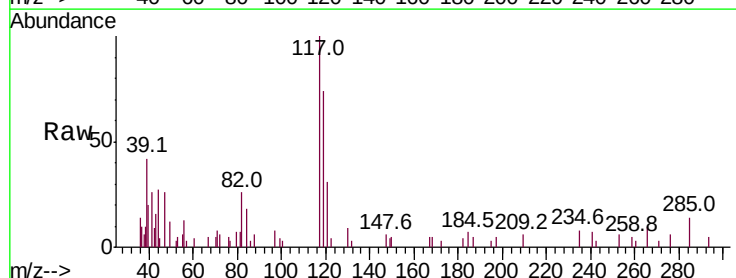
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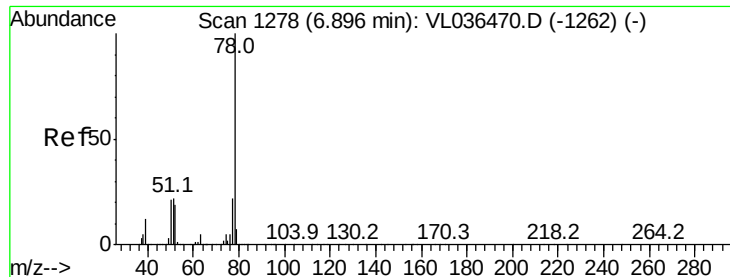
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#35
Carbon Tetrachloride
Concen: 0.045 ppbv m
RT: 7.00 min Scan# 1310
Delta R.T. -0.02 min
Lab File: VL036584.D
Acq: 31 Mar 2021 00:31

Tgt Ion: 117 Resp: 10983
Ion Ratio Lower Upper
117 100
119 73.8 78.2 117.2#
121 30.6 24.5 36.7





#36

Benzene

Concen: 0.211 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.03 min

Lab File: VL036584.D

Acq: 31 Mar 2021 00:31

Instrument :

MSVOA_L

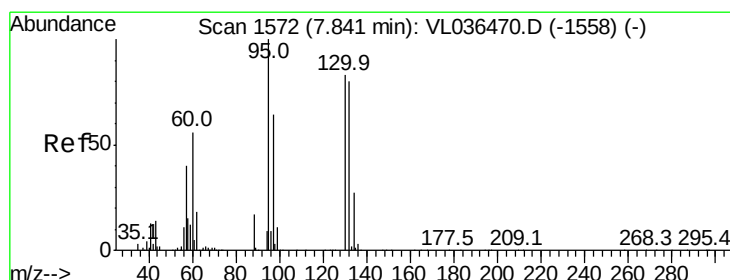
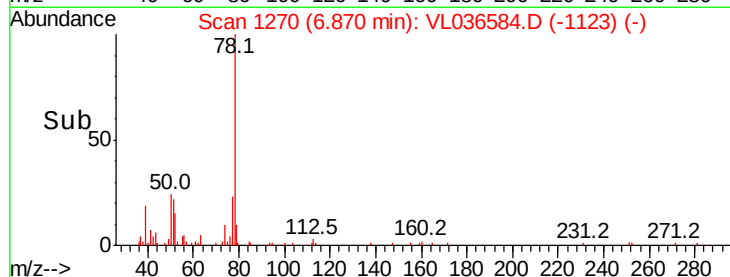
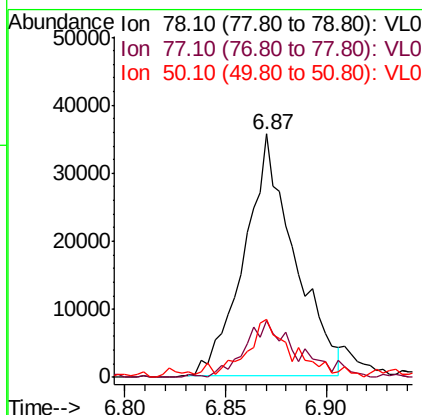
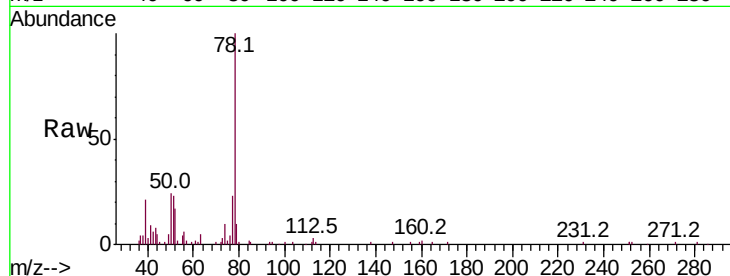
ClientSampleId :

MF-SG-13(2021)

Tot Ion:	78	Resp:	61652
Ion	Ratio	Lower	Upper
78	100		
77	22.3	18.0	27.0
50	21.8	16.5	24.7

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#40

1,4-Dioxane

Concen: 0.749 ppbv m

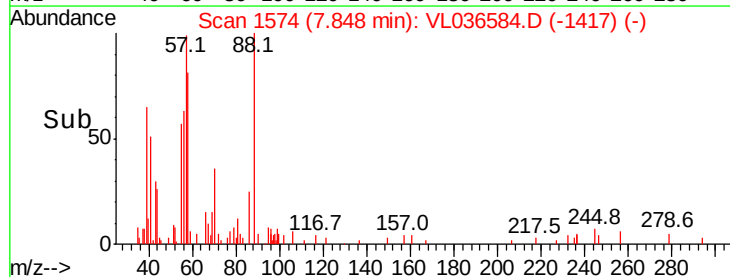
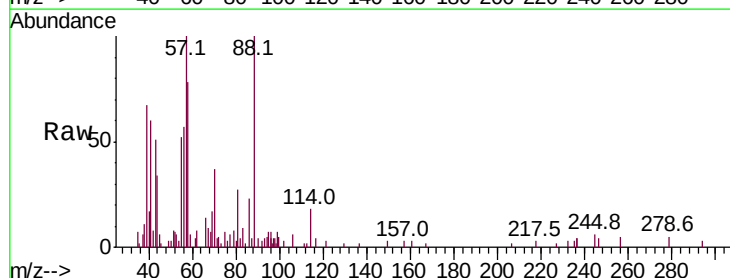
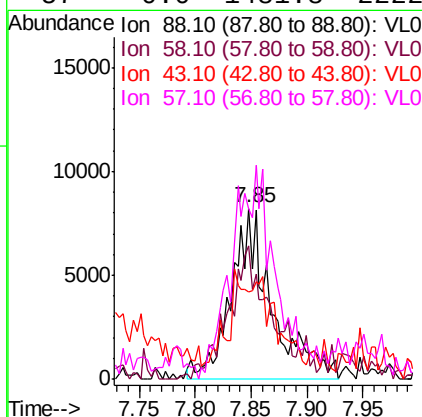
RT: 7.85 min Scan# 1574

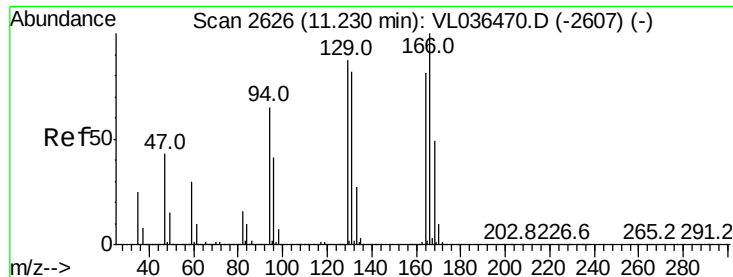
Delta R.T. 0.01 min

Lab File: VL036584.D

Acq: 31 Mar 2021 00:31

Tgt Ion:	88	Resp:	20684
Ion	Ratio	Lower	Upper
88	100		
58	0.0	134.1	201.1#
43	0.0	346.6	520.0#
57	0.0	1481.8	2222.8#





#52

Tetrachloroethene

Concen: 2.256 ppbv

RT: 11.20 min Scan# 2618

Delta R.T. -0.03 min

Lab File: VL036584.D

Acq: 31 Mar 2021 00:31

Instrument :

MSVOA_L

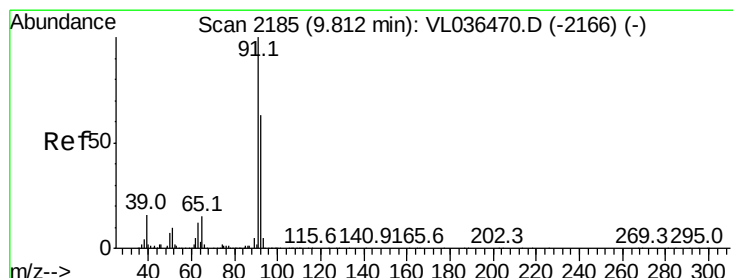
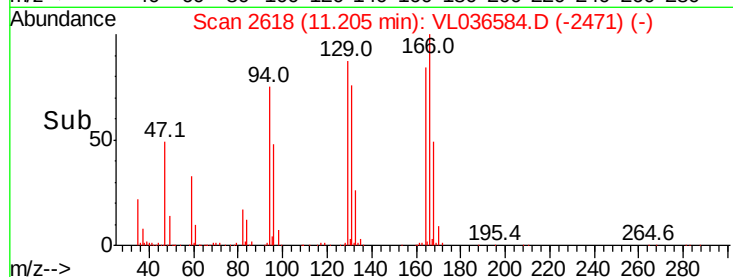
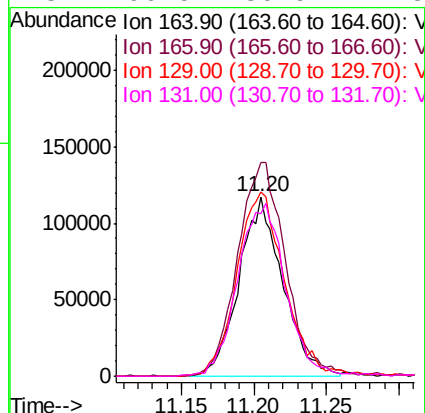
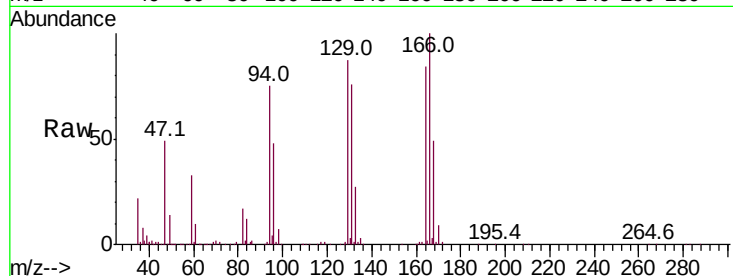
ClientSampleId :

MF-SG-13(2021)

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
166	118.2	98.3	147.5	
129	102.3	85.8	128.8	
131	90.5	80.9	121.3	

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#53

Toluene

Concen: 0.297 ppbv

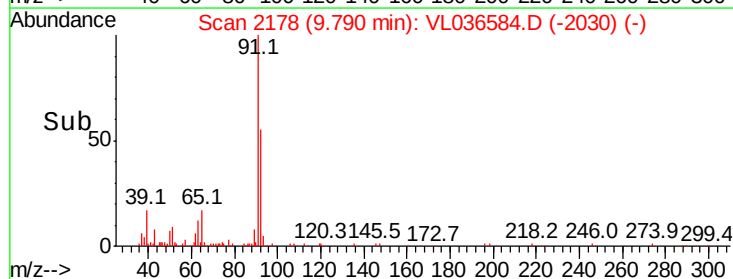
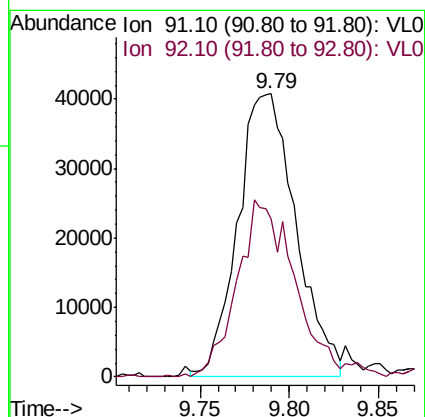
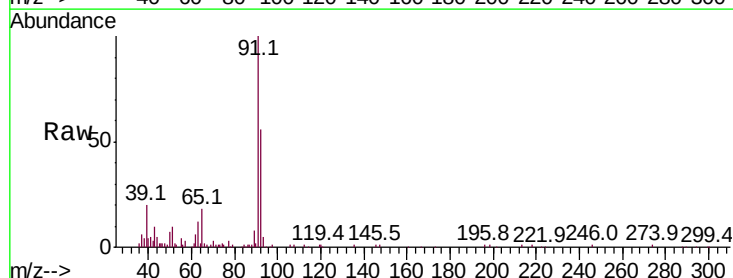
RT: 9.79 min Scan# 2178

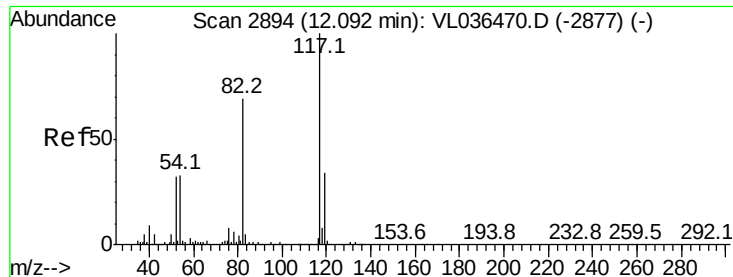
Delta R.T. -0.02 min

Lab File: VL036584.D

Acq: 31 Mar 2021 00:31

Tgt Ion	Ratio	Resp	Lower	Upper
91	100			
92	62.7	48.8	73.2	





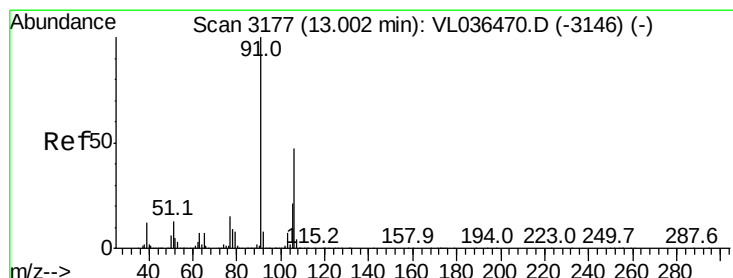
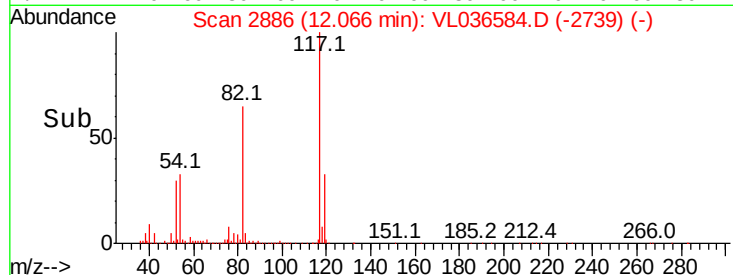
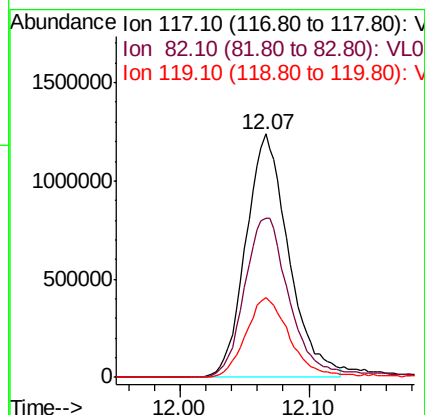
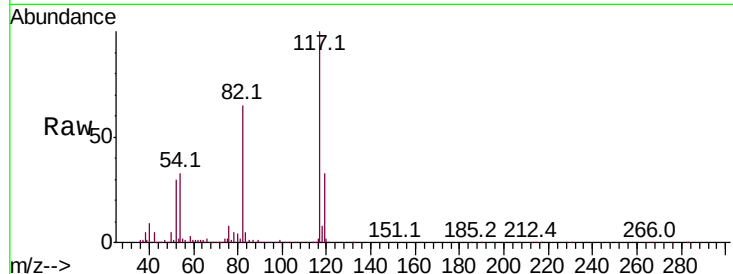
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. -0.03 min
Lab File: VL036584.D
Acq: 31 Mar 2021 00:31

Instrument :
MSVOA_L
ClientSampleId :
MF-SG-13(2021)

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.5	57.4	86.0
119	34.7	47.4	71.0

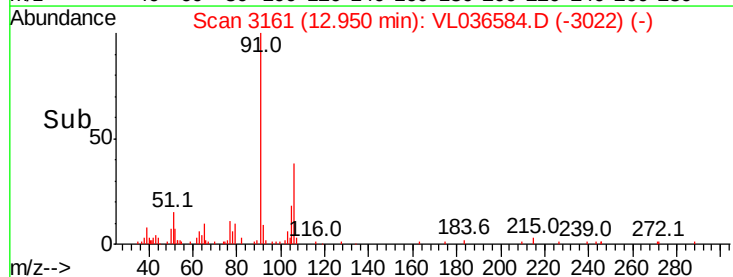
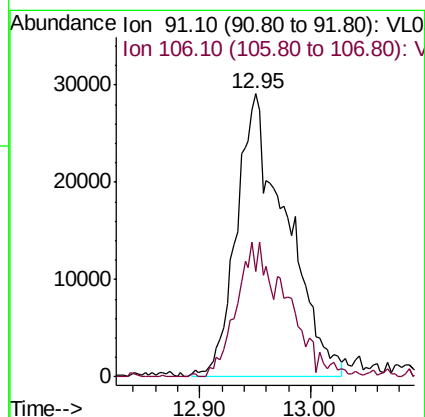
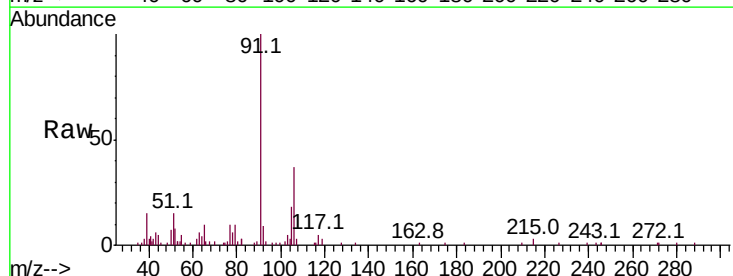
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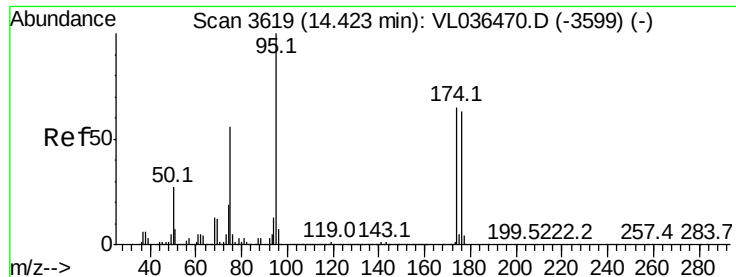
MMDadoda
4/1/2021 10:59:41 AM



#59
m/p-Xylene
Concen: 0.248 ppbv m
RT: 12.95 min Scan# 3161
Delta R.T. -0.05 min
Lab File: VL036584.D
Acq: 31 Mar 2021 00:31

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.3	52.9





#68

1-Bromo-4-Fluorobenzene

Concen: 10.327 ppbv

RT: 14.40 min Scan# 3611

Delta R.T. -0.03 min

Lab File: VL036584.D

Acq: 31 Mar 2021 00:31

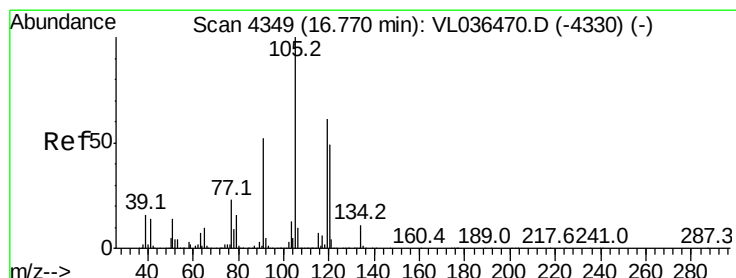
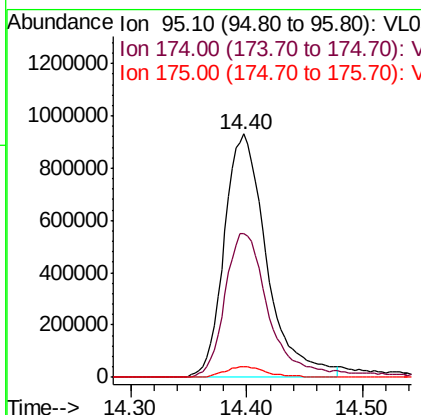
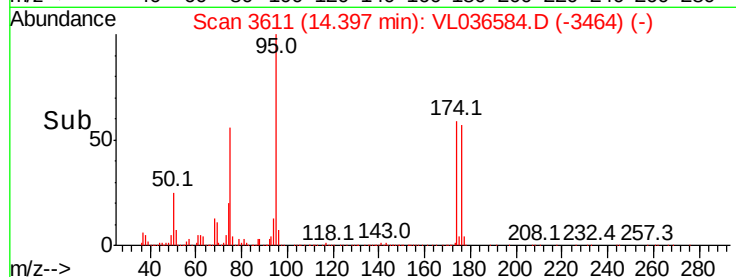
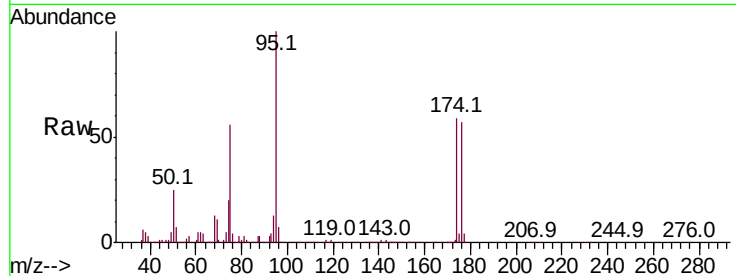
Instrument :
MSVOA_L
ClientSampleId :
MF-SG-13(2021)

Tot Ion: 95 Resp: 2353029

Ion	Ratio	Lower	Upper
95	100		
174	64.2	51.0	76.6
175	4.7	3.9	5.9

Manual Integrations
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#74

1,2,4-Trimethylbenzene

Concen: 0.247 ppbv m

RT: 16.75 min Scan# 4342

Delta R.T. -0.02 min

Lab File: VL036584.D

Acq: 31 Mar 2021 00:31

Tgt Ion: 105 Resp: 94807

Ion	Ratio	Lower	Upper
105	100		
120	39.3	39.2	58.8
91	16.1	42.6	64.0#
77	21.0	18.6	28.0

