

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
 Data File : VL036991.D
 Acq On : 19 May 2021 14:14
 Operator : SY/AP
 Sample : M2262-15 0.1
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

Manual Integrations
 APPROVED

MMDadoda
 5/24/2021 3:01:22 PM

Quant Time: May 21 16:55:15 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
 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	1232882	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3671358	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3251670	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2563901	10.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	27975	0.134	ppbv	99
3) Chlorodifluoromethane	2.97	51	26649	0.118	ppbv	100
4) Chloromethane	3.13	50	8558m	0.111	ppbv	
5) Vinyl Chloride	3.24	62	6789	0.081	ppbv #	81
6) Bromomethane	3.46	94	4942	0.112	ppbv #	66
7) Chloroethane	3.54	64	2987m	0.109	ppbv	
8) Dichlorotetrafluoroethane	3.17	85	21308	0.109	ppbv	87
9) Propene	3.00	41	11590m	0.143	ppbv	
10) Heptane	8.10	43	20525m	0.102	ppbv	
11) Trichlorofluoromethane	3.93	101	21686	0.112	ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.46	101	15081m	0.109	ppbv	
14) Bromoethene	3.73	108	6743m	0.111	ppbv	
15) Acetone	3.87	43	28241m	0.224	ppbv	
16) 1,3-Butadiene	3.32	39	6945m	0.089	ppbv	
17) tert-Butyl alcohol	4.33	59	11303m	0.098	ppbv	
18) 1,1-Dichloroethene	4.28	96	7052m	0.111	ppbv	
19) Isopropyl Alcohol	4.01	45	8624m	0.127	ppbv	
20) Methylene Chloride	4.33	84	14557m	0.215	ppbv	
21) Allvl Chloride	4.39	41	12272m	0.129	ppbv	
22) trans-1,2-Dichloroethene	4.87	96	6085m	0.100	ppbv	
24) 1,1-Dichloroethane	4.99	63	14576	0.101	ppbv #	96
26) Hexane	5.67	57	15304	0.099	ppbv #	73
27) Carbon Disulfide	4.53	76	12320m	0.079	ppbv	
28) Methyl tert-Butyl Ether	5.04	73	20950m	0.113	ppbv	
29) Chloroform	5.73	83	26727m	0.122	ppbv	
30) Cyclohexane	7.11	84	13931m	0.106	ppbv	
31) cis-1,2-Dichloroethene	5.53	61	13130	0.094	ppbv	97
32) 1,1,1-Trichloroethane	6.48	97	21924m	0.093	ppbv	
34) 2-Butanone	5.25	43	18520m	0.139	ppbv	
35) Carbon Tetrachloride	6.99	117	20678m	0.085	ppbv	
36) Benzene	6.87	78	32307	0.102	ppbv	97
37) 1,2-Dichloroethane	6.29	62	17474m	0.111	ppbv	
38) Trichloroethene	7.81	130	14041m	0.104	ppbv	
39) 1,2-Dichloropropane	7.59	63	13165m	0.108	ppbv	
42) Bromodichloromethane	7.76	83	19966m	0.084	ppbv	
43) Methyl Methacrylate	8.01	69	8691m	0.080	ppbv	
44) 2,2,4-Trimethylpentane	7.85	57	57303m	0.106	ppbv	
45) t-1,3-Dichloropropene	9.26	75	4064m	0.049	ppbv	
46) cis-1,3-Dichloropropene	8.68	75	7507m	0.067	ppbv	
47) 1,1,2-Trichloroethane	9.46	97	14334m	0.112	ppbv	
48) Dibromochloromethane	10.28	129	13963m	0.068	ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Bromoform	13.01	173	8934m	0.052	ppbv	
50) 4-Methyl-2-Pentanone	8.76	43	26337m	0.119	ppbv	
51) 2-Hexanone	10.17	43	11007m	0.094	ppbv	
52) Tetrachloroethene	11.20	164	15246m	0.121	ppbv	
53) Toluene	9.78	91	38370m	0.102	ppbv	
54) 1,2-Dibromoethane	10.59	107	16830m	0.093	ppbv	
57) Chlorobenzene	12.13	112	29840m	0.118	ppbv	
58) Ethyl Benzene	12.68	91	46641m	0.102	ppbv	
59) m/p-Xylene	12.97	91	80420m	0.212	ppbv	
60) o-Xylene	13.66	91	40707m	0.113	ppbv	
61) Styrene	13.50	104	16471m	0.081	ppbv	
62) Isopropylbenzene	14.65	105	53529m	0.103	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.66	83	27731m	0.103	ppbv	
64) n-propylbenzene	15.54	120	14194m	0.106	ppbv	
65) tert-Butylbenzene	16.73	119	51573m	0.110	ppbv	
67) sec-Butylbenzene	17.28	105	64727m	0.101	ppbv	
69) p-Isopropyltoluene	17.64	119	53092m	0.096	ppbv	
70) n-Butylbenzene	18.54	91	47006m	0.090	ppbv	
71) 2-Chlorotoluene	15.42	91	38370m	0.102	ppbv	
72) 4-Ethyltoluene	15.82	105	41833m	0.097	ppbv	
73) 1,3,5-Trimethylbenzene	15.97	105	44086m	0.109	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	44623m	0.107	ppbv	
75) 1,3-Dichlorobenzene	16.98	146	29046m	0.114	ppbv	
76) 1,4-Dichlorobenzene	17.12	146	30254m	0.118	ppbv	
77) 1,2-Dichlorobenzene	17.81	146	28114m	0.110	ppbv	
78) Hexachloro-1,3-Butadiene	23.36	225	28234m	0.138	ppbv	
81) 1,2,4-Trichlorobenzene	21.92	180	16430m	0.082	ppbv	

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

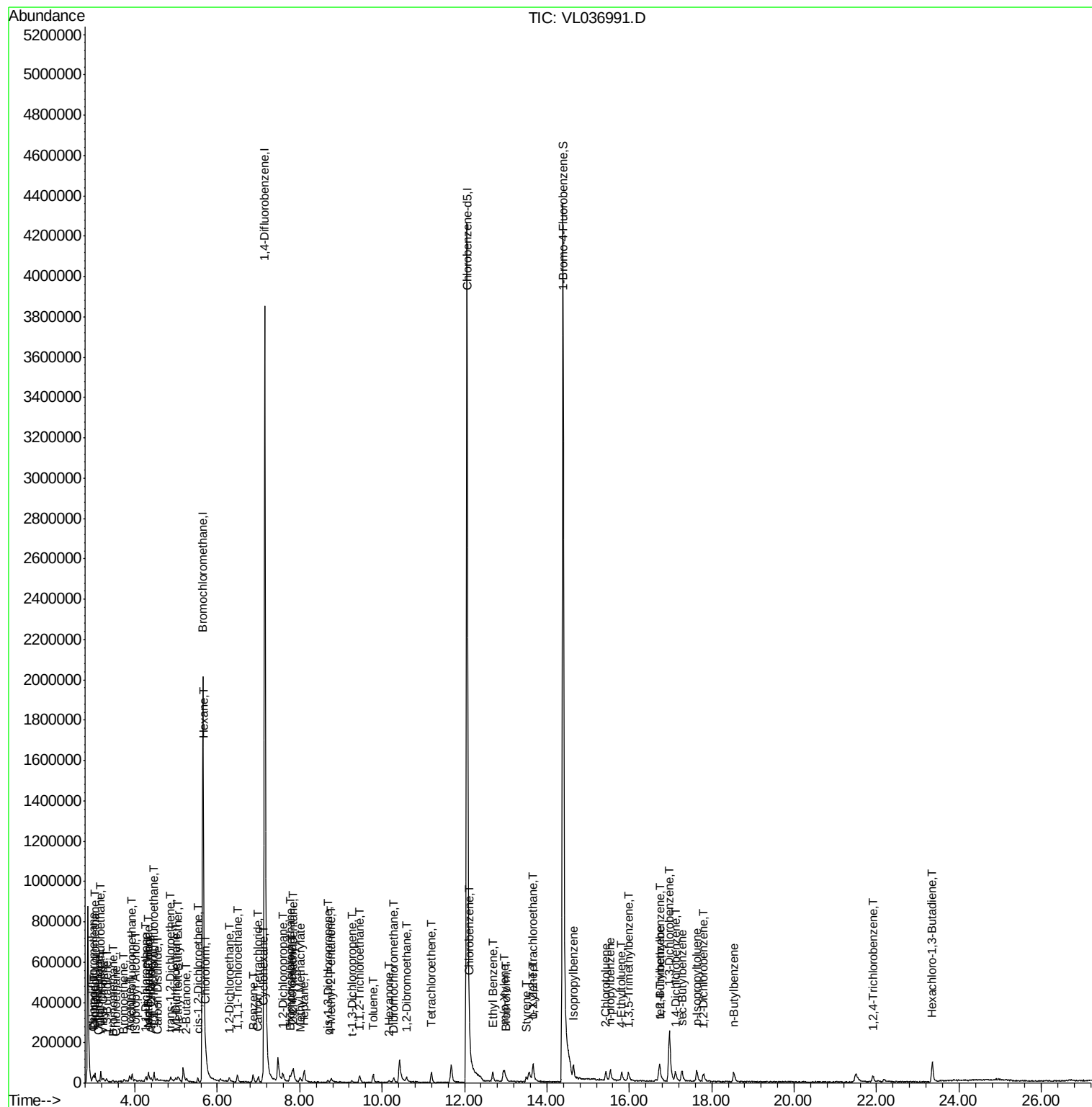
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051921\
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Operator : SY/AP
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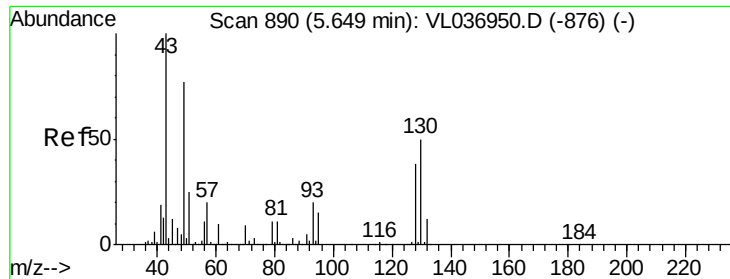
Instrument :
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

Tot Ion: 49 Resp: 1232882

Ion Ratio Lower Upper

49 100

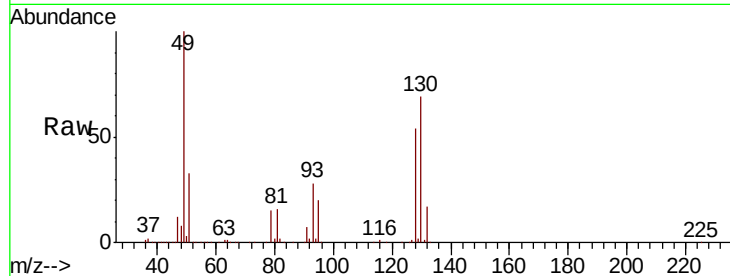
128 56.2 26.9 80.7

130 73.6 33.8 101.4

Manual Integrations
APPROVED

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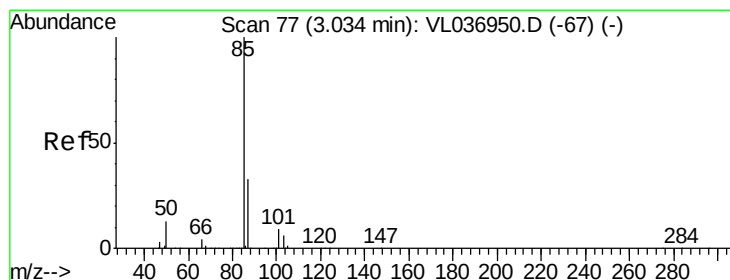
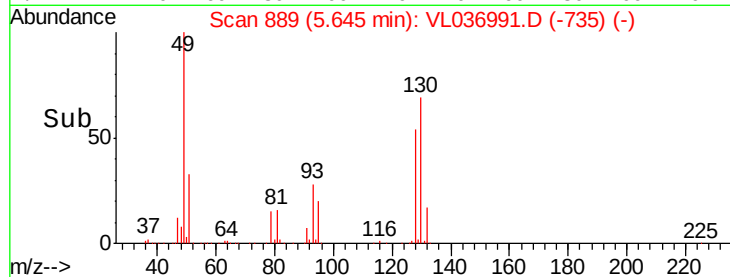
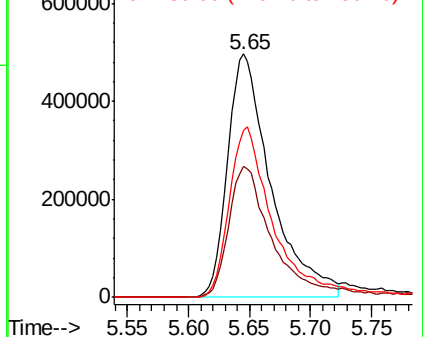
5/24/2021 3:01:22 PM



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: 0.134 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.00 min

Lab File: VL036991.D

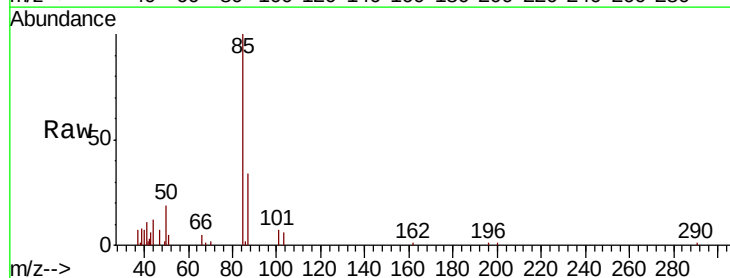
Acq: 19 May 2021 14:14

Tgt Ion: 85 Resp: 27975

Ion Ratio Lower Upper

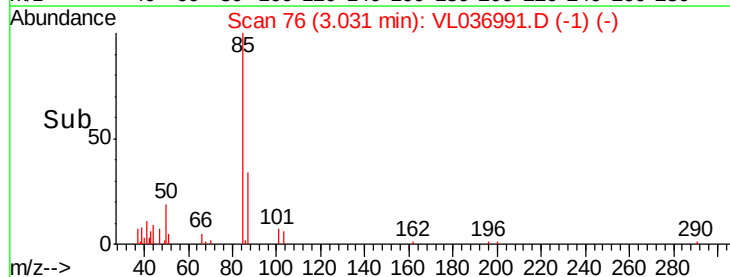
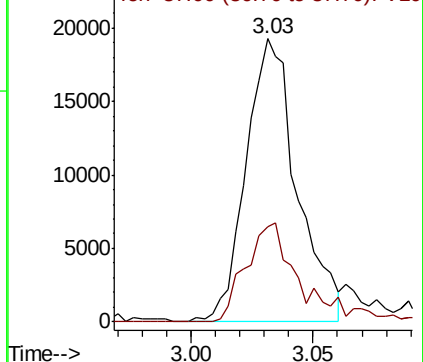
85 100

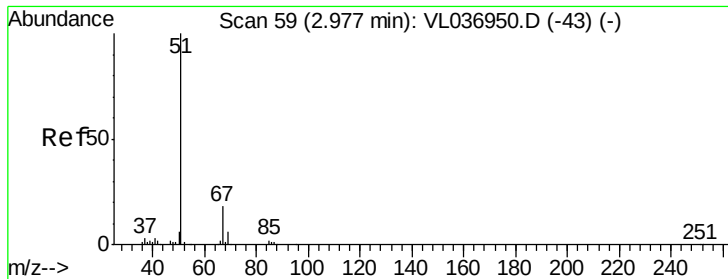
87 33.5 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.118 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

Tot Ion: 51 Resp: 26649

Ion Ratio Lower Upper

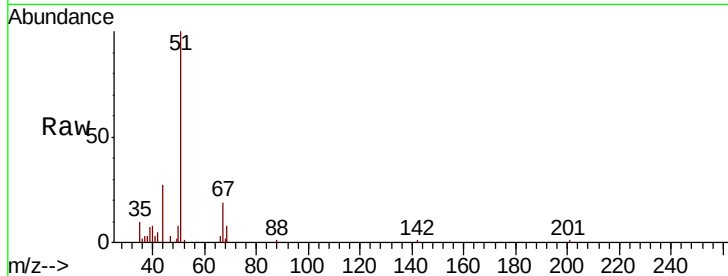
51 100

67 18.2 14.6 21.8

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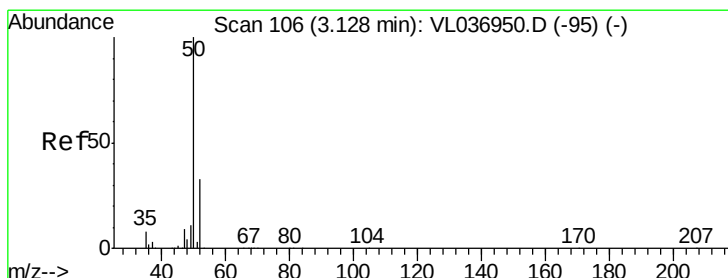
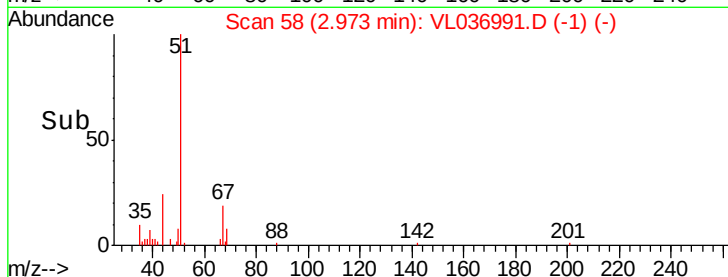
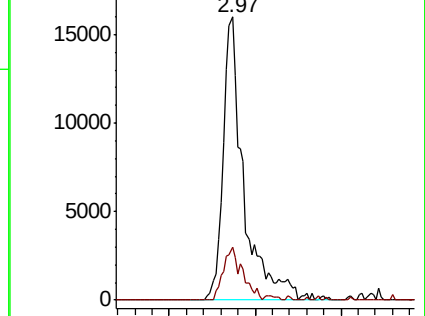
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.111 ppbv m

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL036991.D

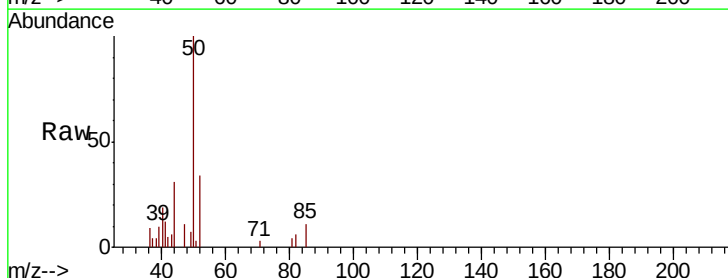
Acq: 19 May 2021 14:14

Tgt Ion: 50 Resp: 8558

Ion Ratio Lower Upper

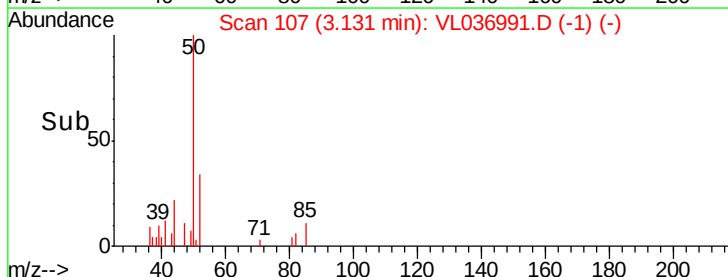
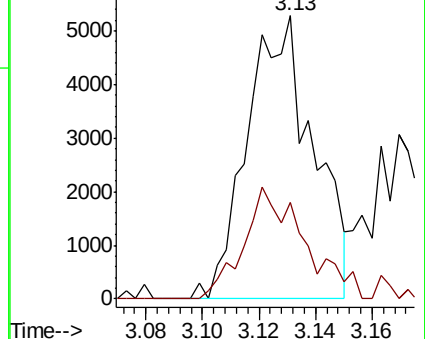
50 100

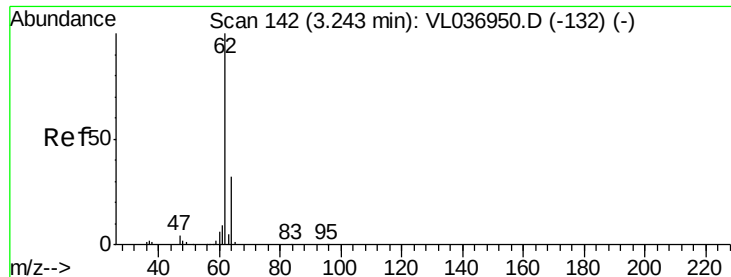
52 34.0 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.081 ppbv

RT: 3.24 min Scan# 141

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

Tot Ion: 62 Resp: 6789

Ion Ratio Lower Upper

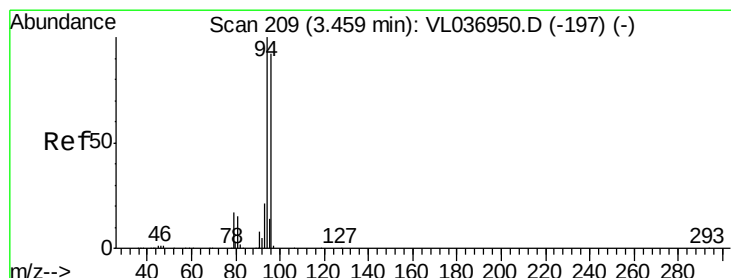
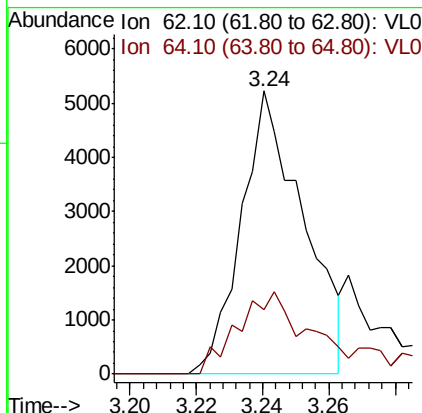
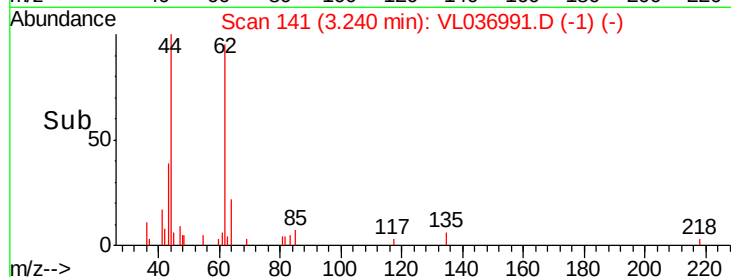
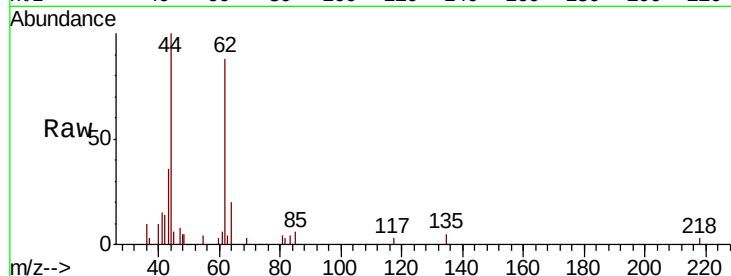
62 100

64 21.8 25.9 38.9#

Manual Integrations
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#6

Bromomethane

Concen: 0.112 ppbv

RT: 3.46 min Scan# 209

Delta R.T. -0.00 min

Lab File: VL036991.D

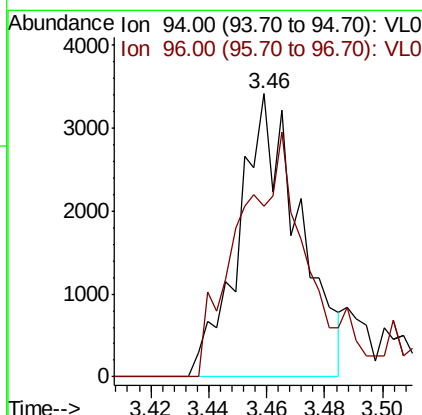
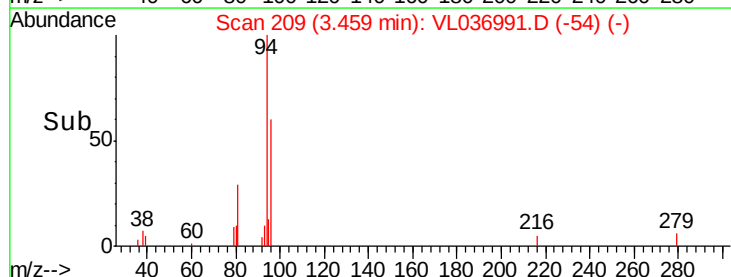
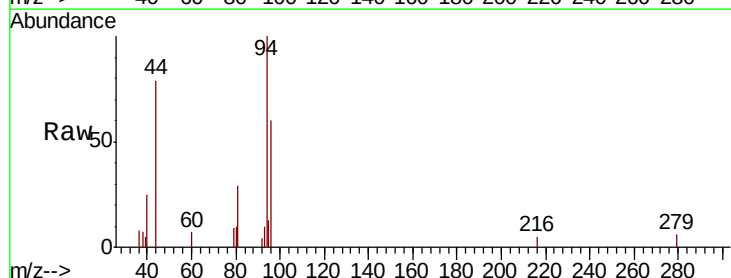
Acq: 19 May 2021 14:14

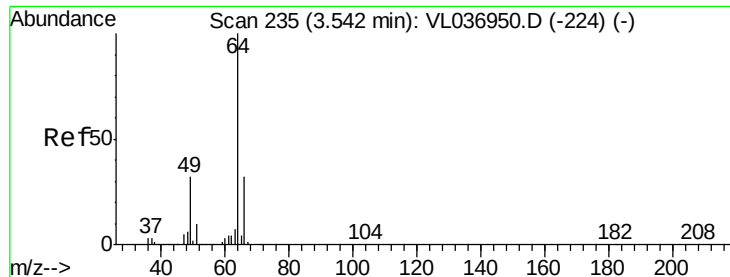
Tgt Ion: 94 Resp: 4942

Ion Ratio Lower Upper

94 100

96 60.3 74.0 111.0#





#7

Chloroethane

Concen: 0.109 ppbv m

RT: 3.54 min Scan# 233

Delta R.T. -0.01 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

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ClientSampleId :

MDL-AIR-03-QT2-2021

Tot Ion: 64 Resp: 2987

Ion Ratio Lower Upper

64 100

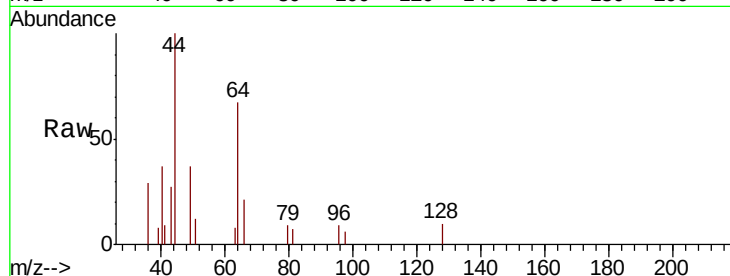
66 31.9 25.4 38.2

Manual Integrations

APPROVED

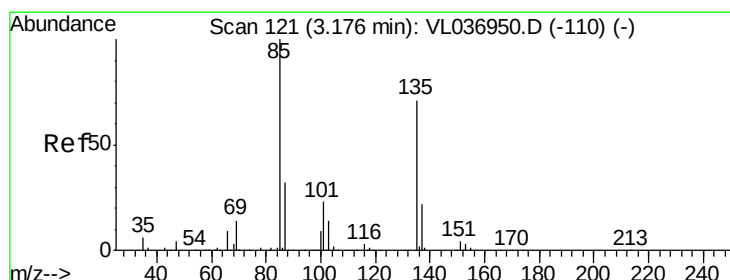
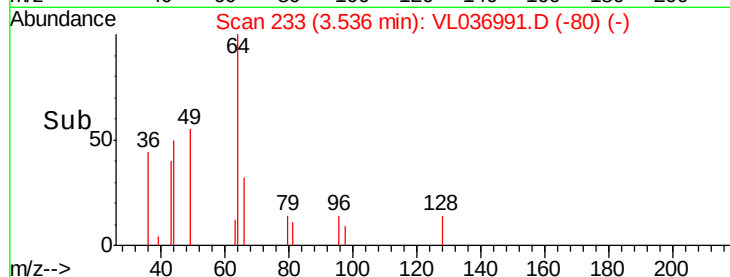
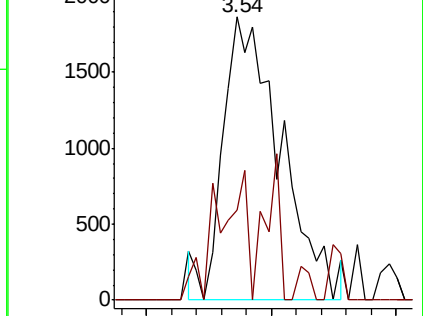
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.109 ppbv

RT: 3.17 min Scan# 119

Delta R.T. -0.01 min

Lab File: VL036991.D

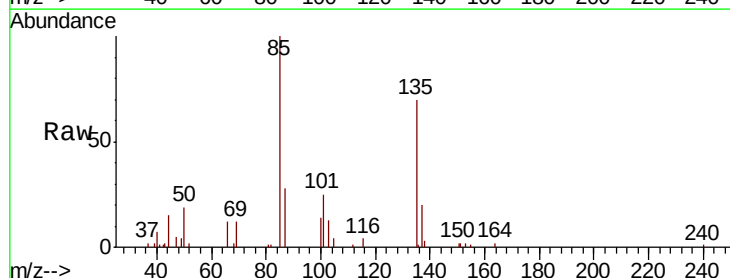
Acq: 19 May 2021 14:14

Tgt Ion: 85 Resp: 21308

Ion Ratio Lower Upper

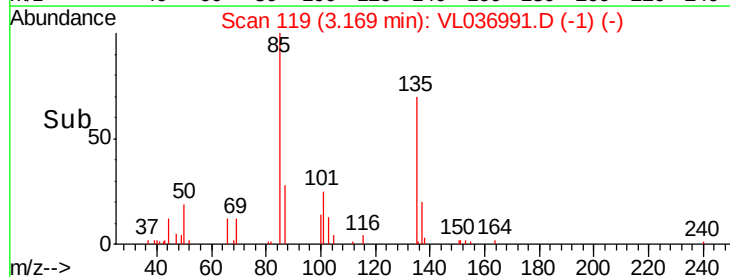
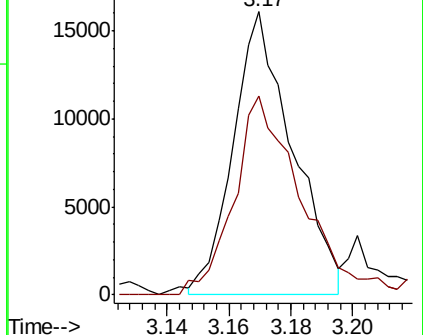
85 100

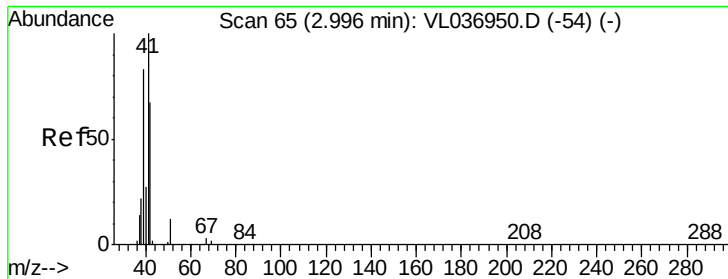
135 83.0 57.7 86.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.143 ppbv m

RT: 3.00 min Scan# 65

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

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Tot Ion: 41 Resp: 11590

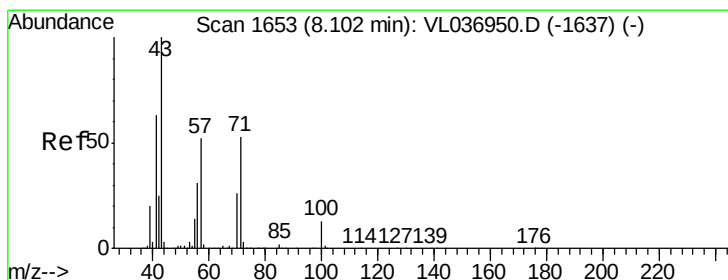
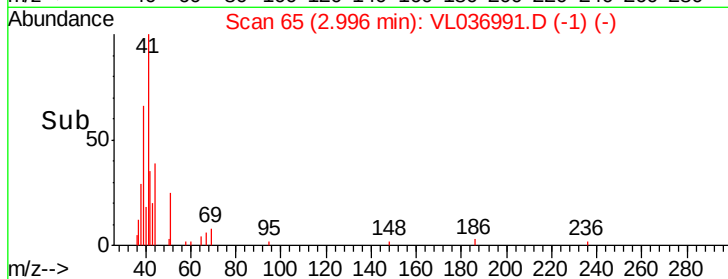
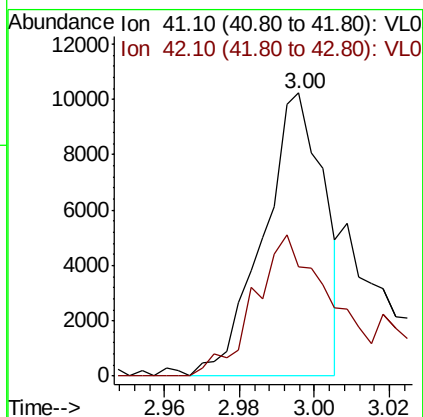
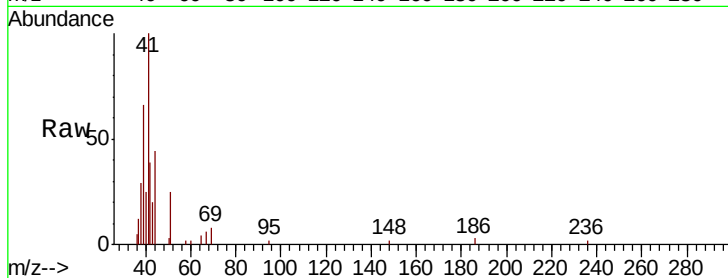
Ion Ratio Lower Upper

41 100

42 76.4 53.9 80.9

Manual Integrations
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#10

Heptane

Concen: 0.102 ppbv m

RT: 8.10 min Scan# 1651

Delta R.T. -0.01 min

Lab File: VL036991.D

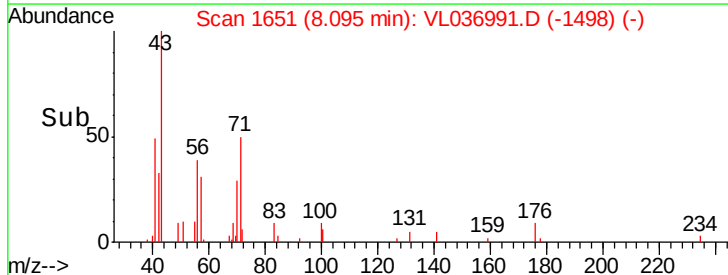
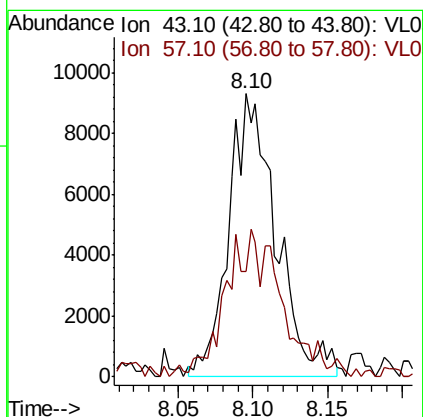
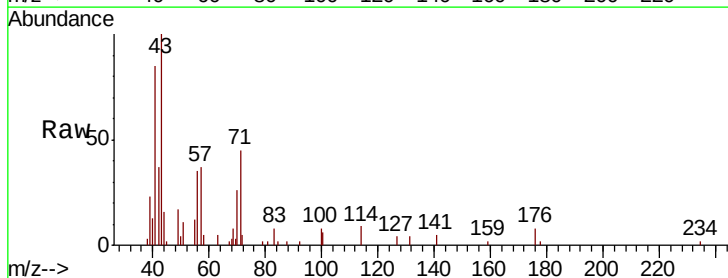
Acq: 19 May 2021 14:14

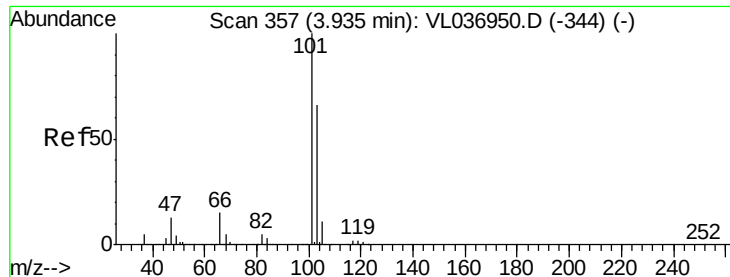
Tgt Ion: 43 Resp: 20525

Ion Ratio Lower Upper

43 100

57 62.5 41.0 61.6#





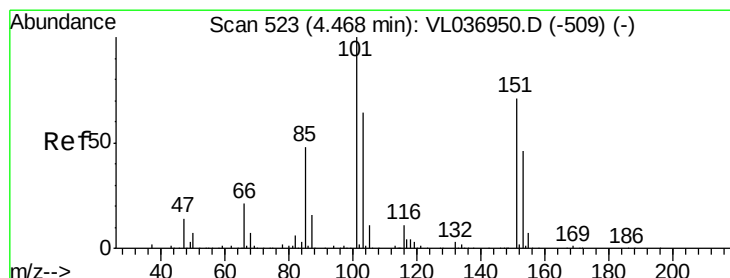
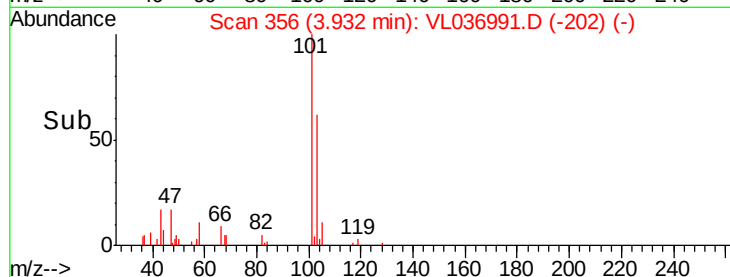
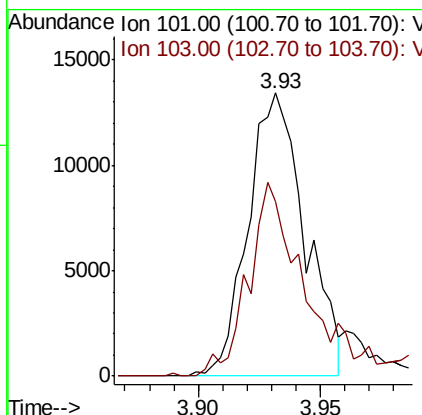
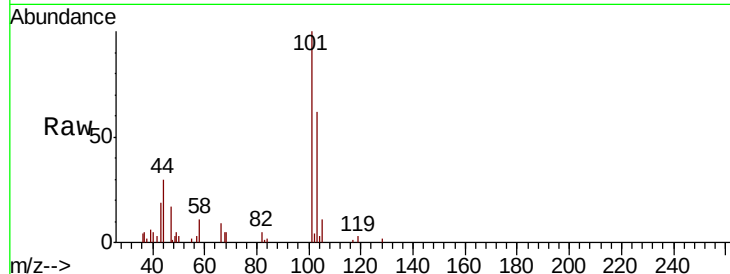
#11
 Trichlorofluoromethane
 Concen: 0.112 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. -0.00 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.6	52.6	79.0

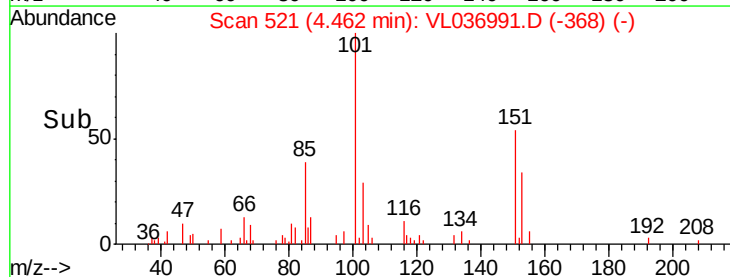
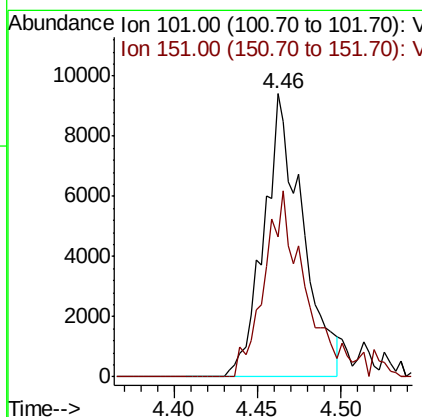
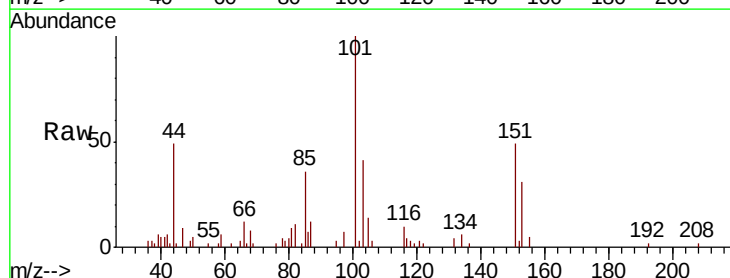
Manual Integrations
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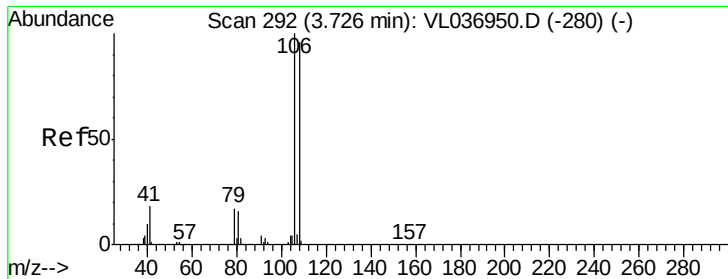
MMDadoda
 5/24/2021 3:01:22 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.109 ppbv m
 RT: 4.46 min Scan# 521
 Delta R.T. -0.01 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Tgt Ion	Ratio	Lower	Upper
101	100		
151	71.1	57.7	86.5





#14

Bromoethene

Concen: 0.111 ppbv m

RT: 3.73 min Scan# 292

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

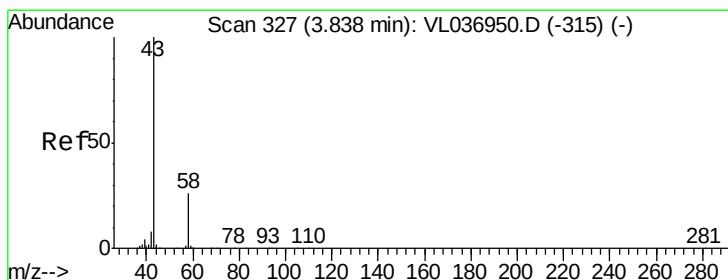
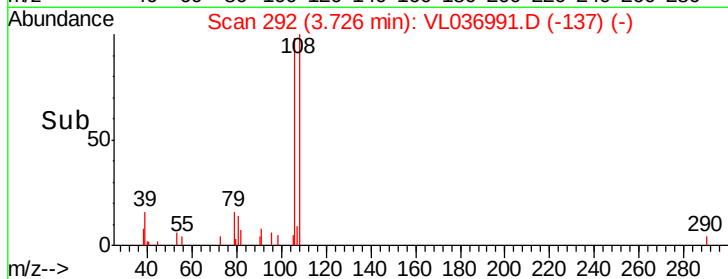
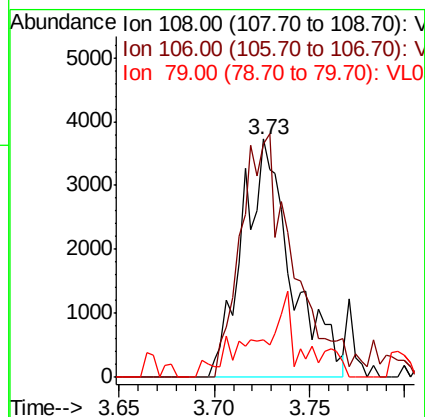
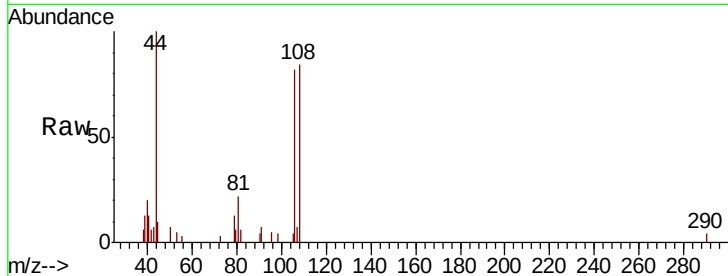
ClientSampleId :

MDL-AIR-03-QT2-2021

Tot Ion:	108	Resp:	6743
Ion	Ratio	Lower	Upper
108	100		
106	116.8	86.5	129.7
79	0.0	15.0	22.4#

Manual Integrations
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#15

Acetone

Concen: 0.224 ppbv m

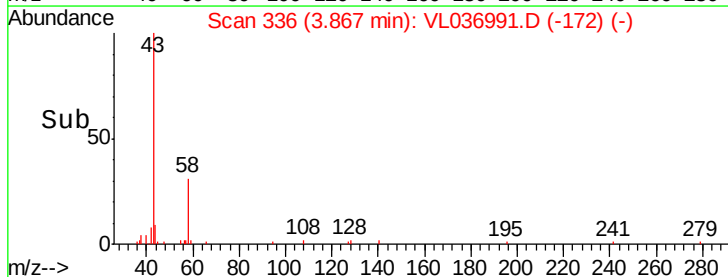
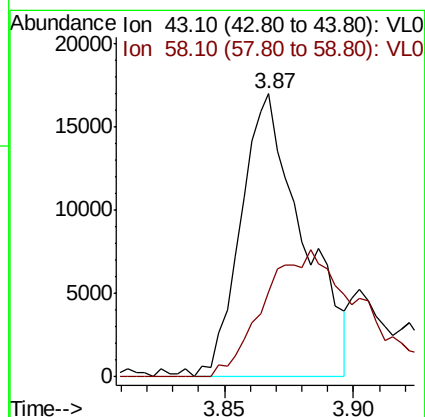
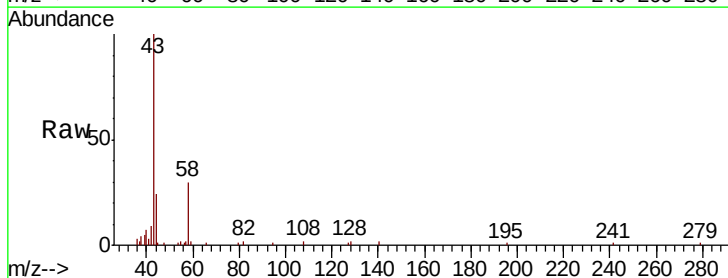
RT: 3.87 min Scan# 336

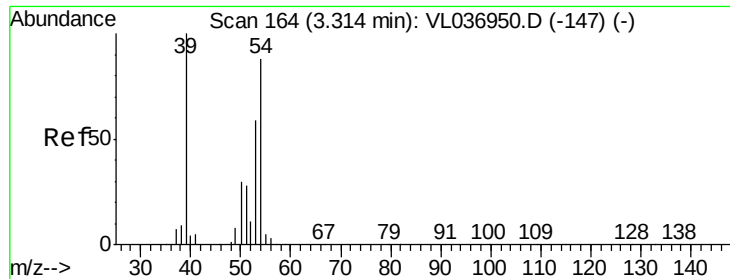
Delta R.T. 0.03 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Tgt Ion:	43	Resp:	28241
Ion	Ratio	Lower	Upper
43	100		
58	0.0	24.0	36.0#





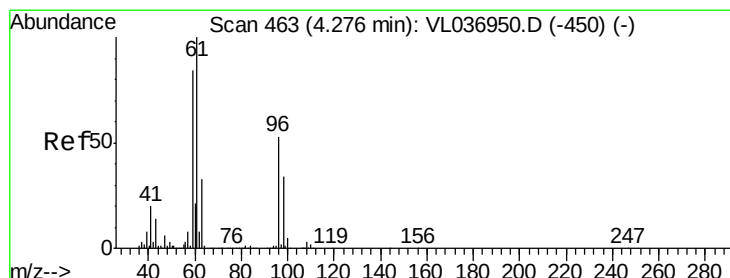
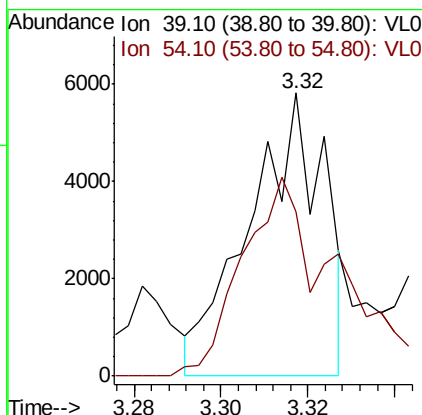
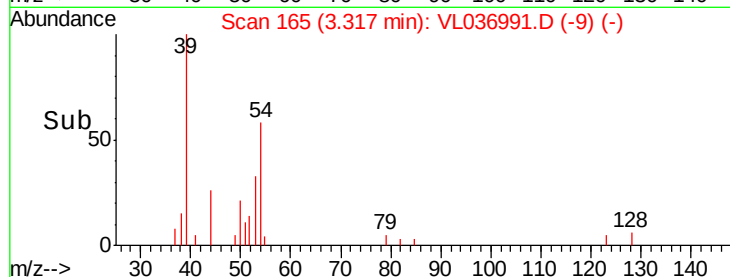
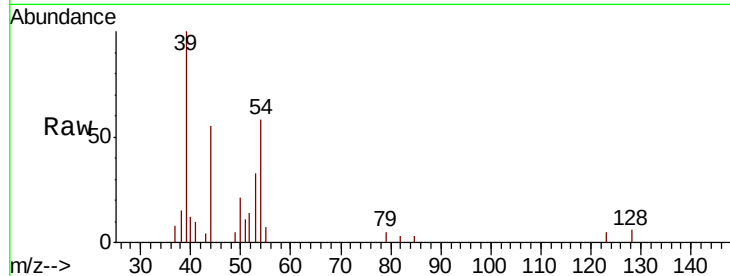
#16
1,3-Butadiene
Concen: 0.089 ppbv m
RT: 3.32 min Scan# 165
Delta R.T. 0.00 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2021

Tot Ion: 39 Resp: 6945
Ion Ratio Lower Upper
39 100
54 0.0 63.2 94.8#

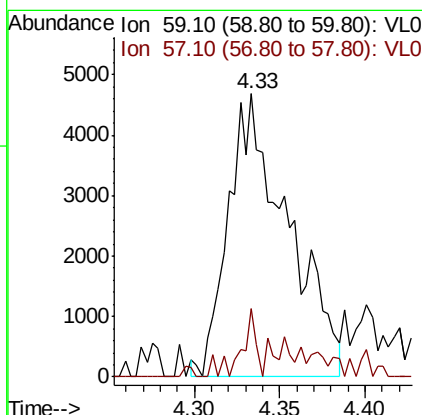
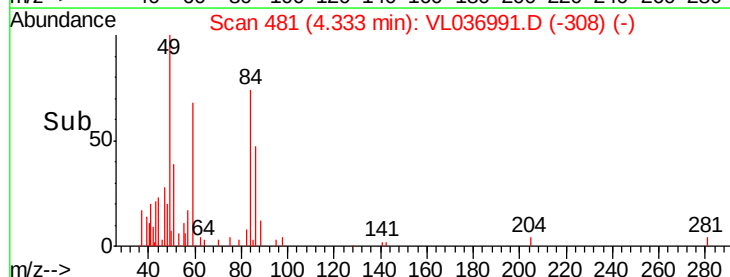
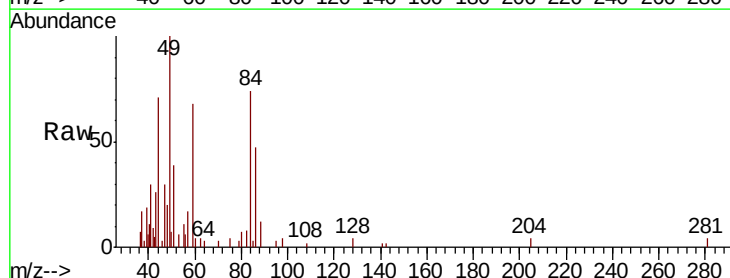
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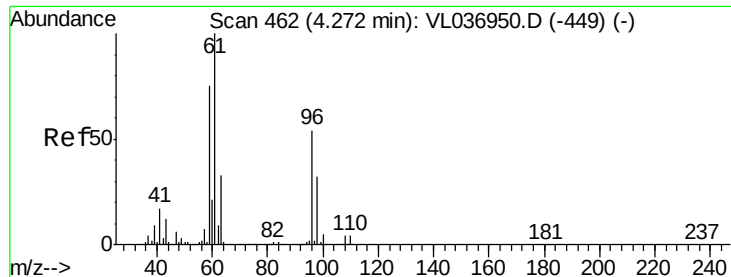
MMDadoda
5/24/2021 3:01:22 PM



#17
tert-Butyl alcohol
Concen: 0.098 ppbv m
RT: 4.33 min Scan# 481
Delta R.T. 0.06 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Tgt Ion: 59 Resp: 11303
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





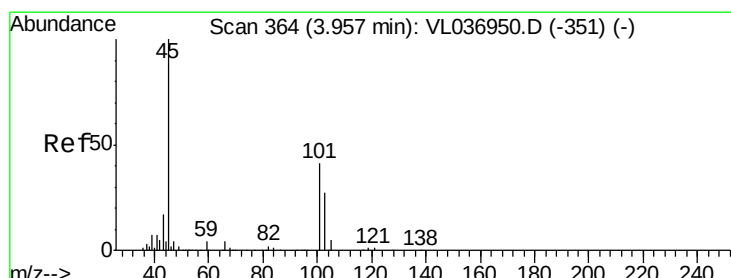
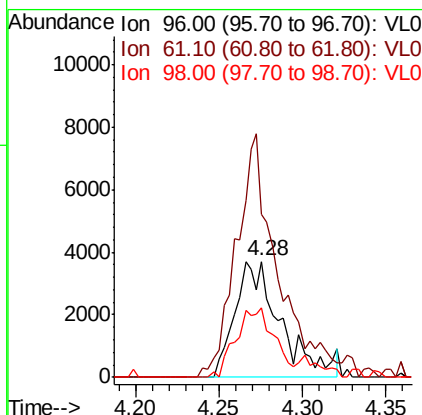
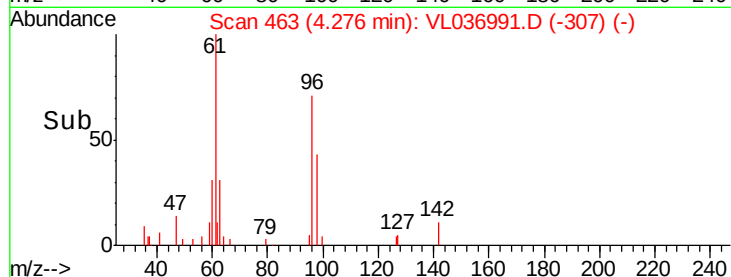
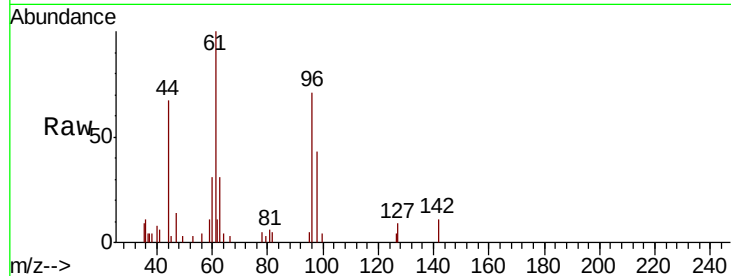
#18
 1,1-Dichloroethene
 Concen: 0.111 ppbv m
 RT: 4.28 min Scan# 463
 Delta R.T. 0.00 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

Tot Ion	Ratio	Lower	Upper
96	100		
61	140.1	148.2	222.4#
98	59.7	47.8	71.6

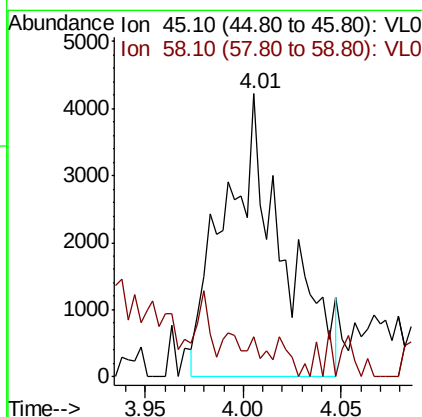
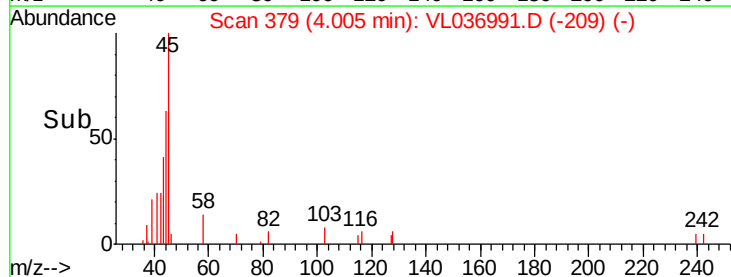
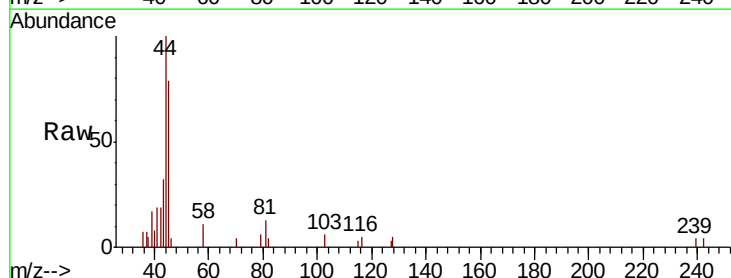
Manual Integrations
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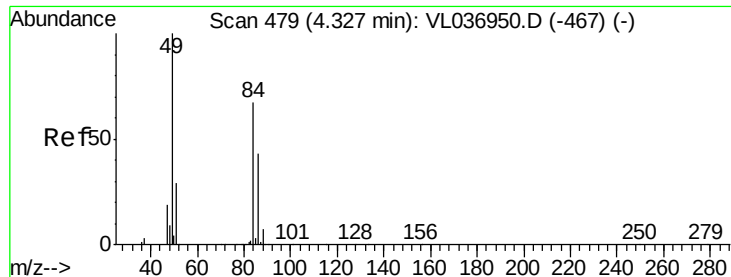
MMDadoda
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#19
 Isopropyl Alcohol
 Concen: 0.127 ppbv m
 RT: 4.01 min Scan# 379
 Delta R.T. 0.05 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Tgt Ion	Ratio	Lower	Upper
45	100		
58	0.0	37.2	55.8#





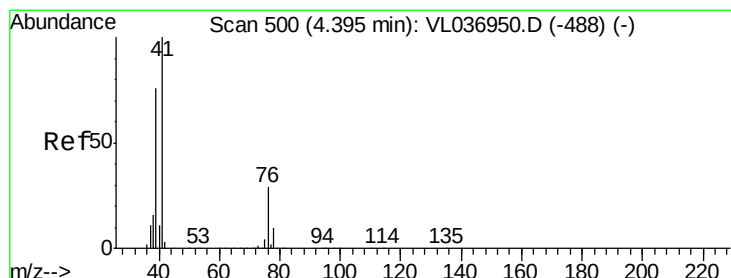
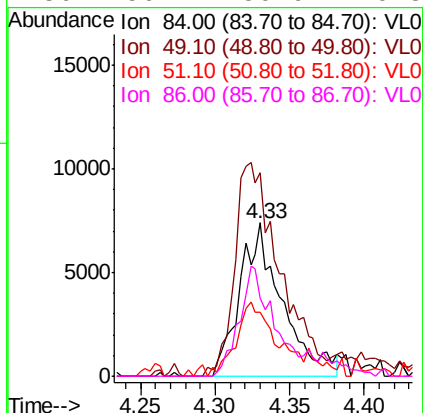
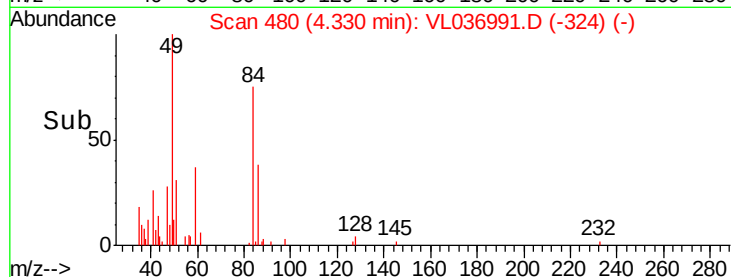
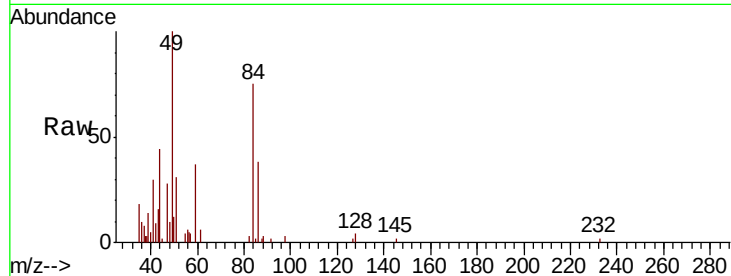
#20
Methylene Chloride
Concen: 0.215 ppbv m
RT: 4.33 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2021

Tot Ion	Ratio	Lower	Upper
84	100		
49	132.9	119.8	179.6
51	41.3	35.1	52.7
86	50.7	50.9	76.3#

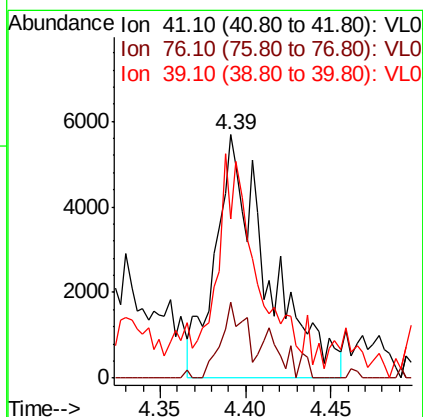
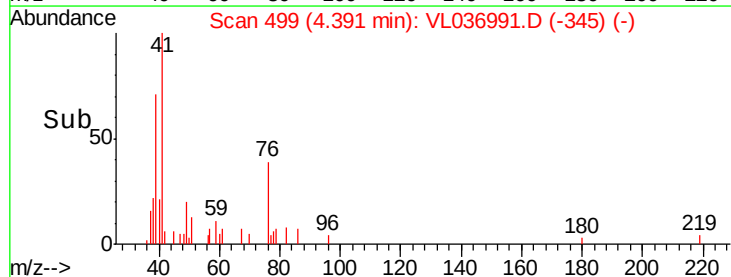
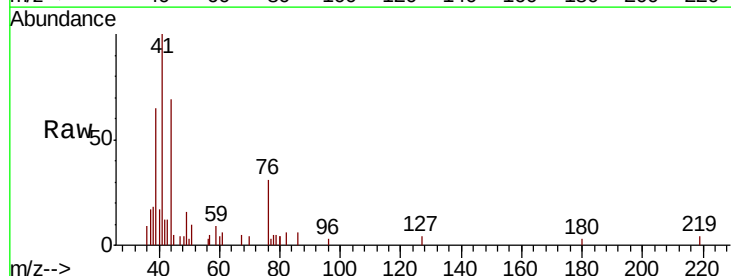
Manual Integrations
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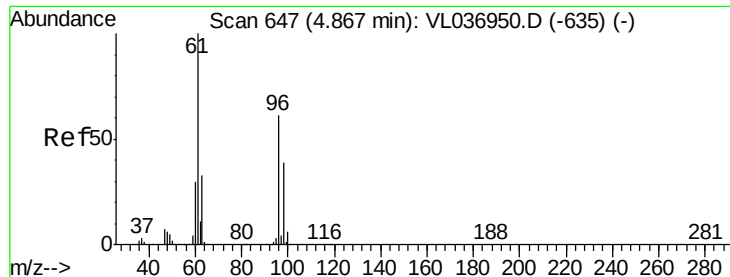
MMDadoda
5/24/2021 3:01:22 PM



#21
Allyl Chloride
Concen: 0.129 ppbv m
RT: 4.39 min Scan# 499
Delta R.T. -0.00 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Tgt Ion	Ratio	Lower	Upper
41	100		
76	23.6	24.9	37.3#
39	81.4	63.7	95.5





#22

trans-1,2-Dichloroethene

Concen: 0.100 ppbv m

RT: 4.87 min Scan# 647

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

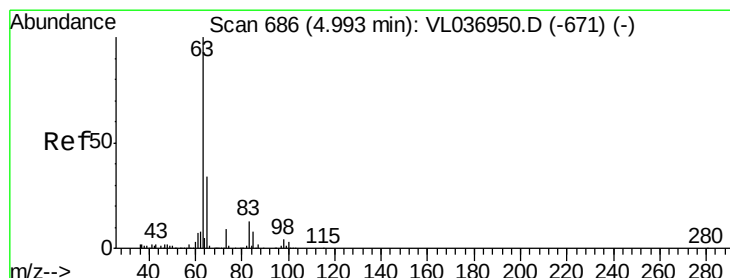
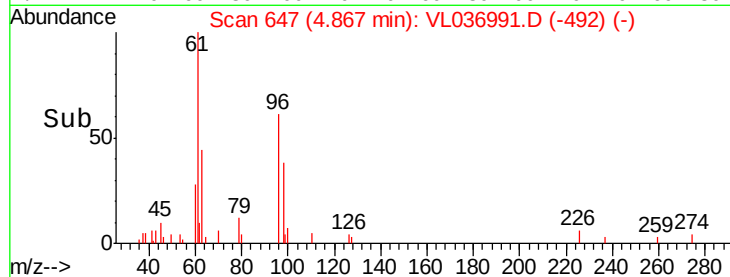
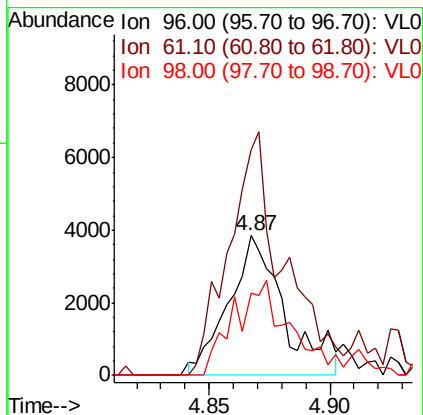
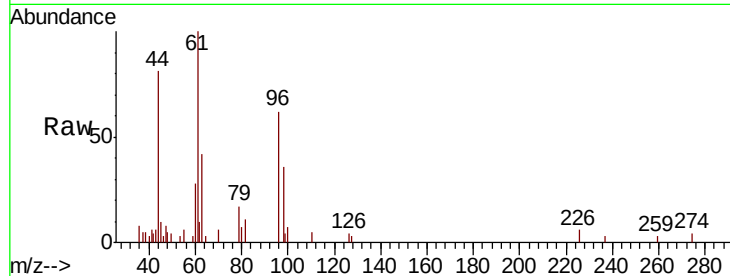
ClientSampleId :

MDL-AIR-03-QT2-2021

Tot Ion:	96	Resp:	6085
Ion	Ratio	Lower	Upper
96	100		
61	161.6	130.6	196.0
98	58.8	50.8	76.2

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5/24/2021 3:01:22 PM



#24

1,1-Dichloroethane

Concen: 0.101 ppbv

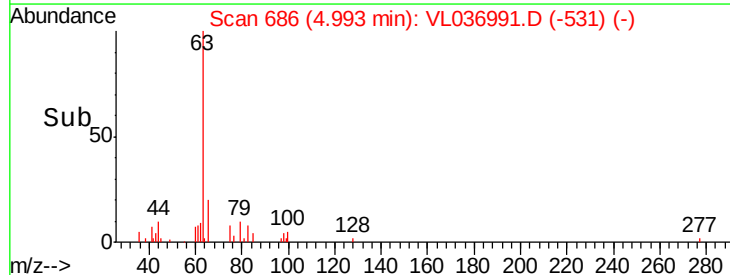
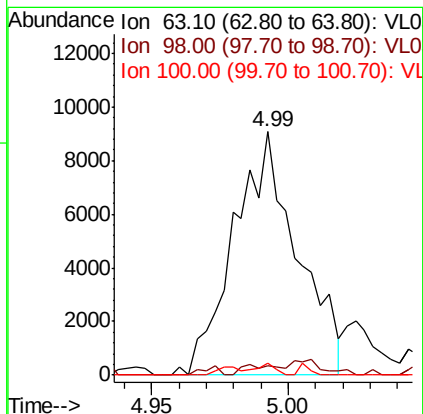
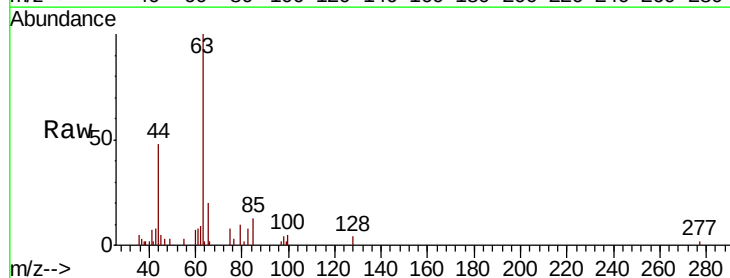
RT: 4.99 min Scan# 686

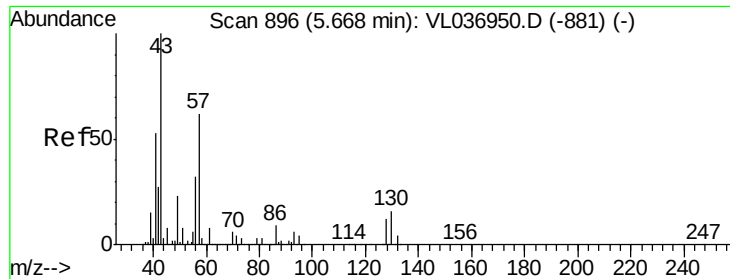
Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Tgt Ion:	63	Resp:	14576
Ion	Ratio	Lower	Upper
63	100		
98	3.9	2.3	6.9
100	5.1	1.4	4.0#





#26

Hexane

Concen: 0.099 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

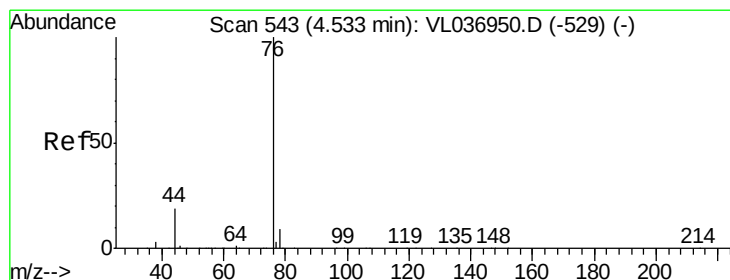
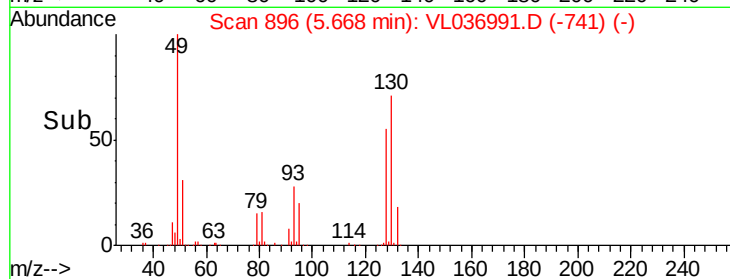
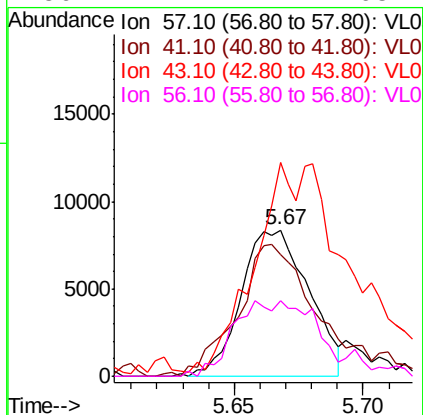
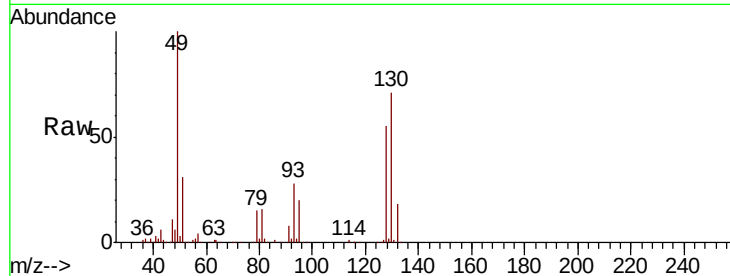
ClientSampleId :

MDL-AIR-03-QT2-2021

Tot Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	120.0	70.5	105.7#		
43	245.6	165.8	248.8		
56	71.2	42.2	63.4#		

Manual Integrations
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#27

Carbon Disulfide

Concen: 0.079 ppbv m

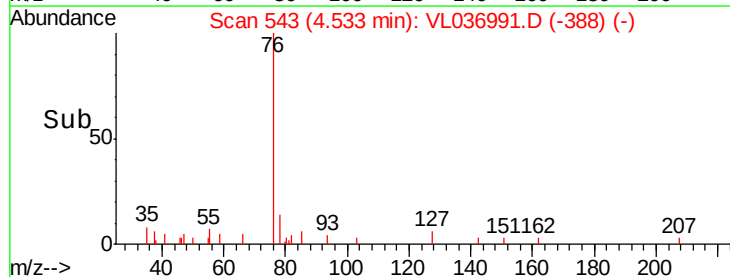
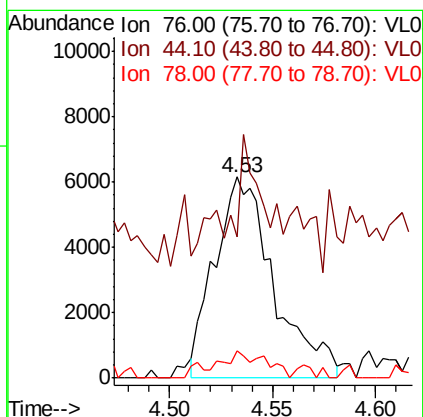
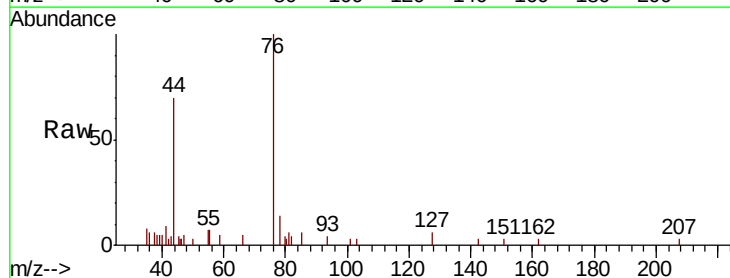
RT: 4.53 min Scan# 543

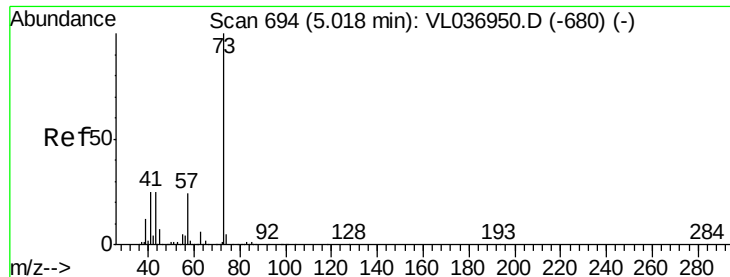
Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
76	100				
44	0.0	15.5	23.3#		
78	13.3	7.8	11.6#		





#28

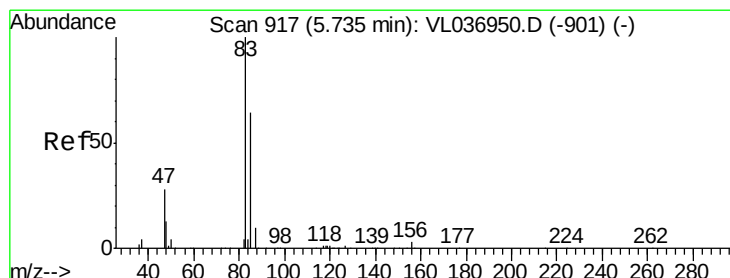
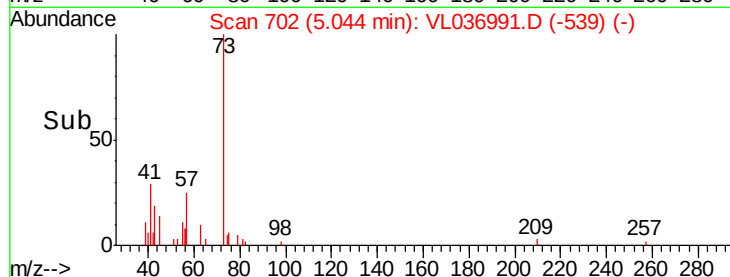
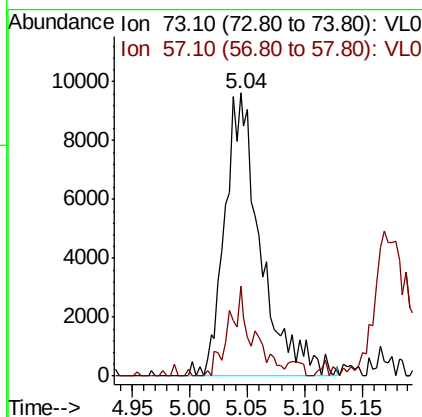
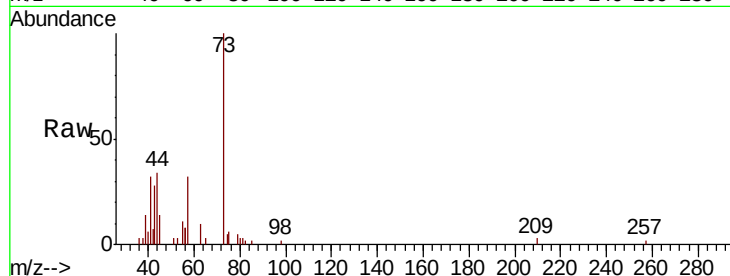
Methyl tert-Butyl Ether
 Concen: 0.113 ppbv m
 RT: 5.04 min Scan# 702
 Delta R.T. 0.03 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

Tot Ion	Ratio	Lower	Upper
73	100		
57	0.0	18.3	27.5#

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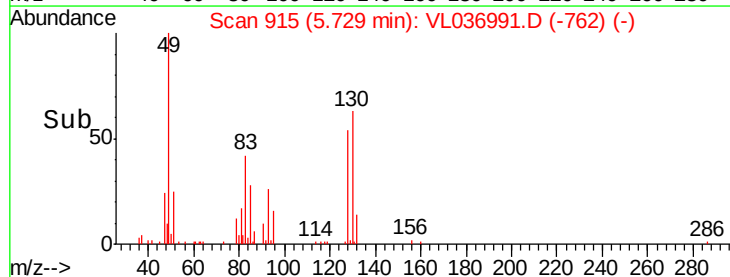
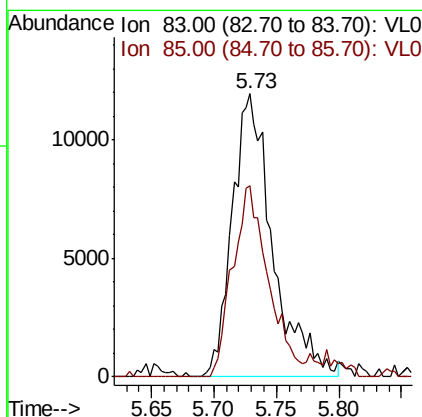
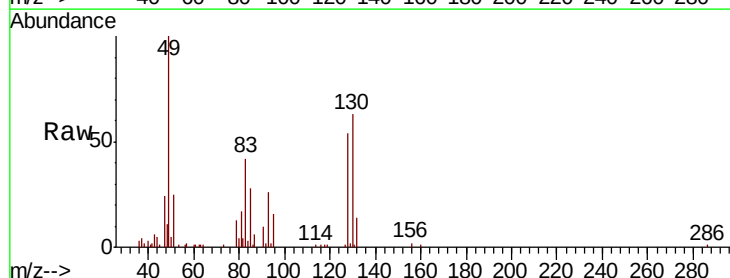
MMDadoda
 5/24/2021 3:01:22 PM

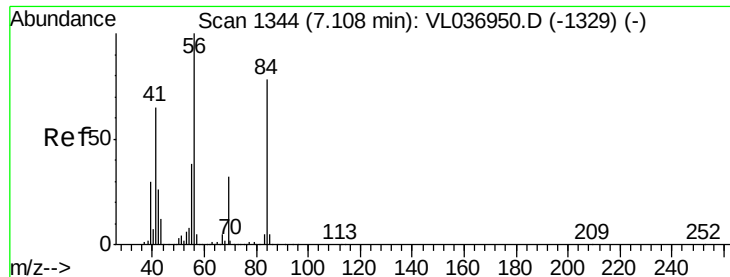


#29

Chloroform
 Concen: 0.122 ppbv m
 RT: 5.73 min Scan# 915
 Delta R.T. -0.01 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Tgt Ion	Ratio	Lower	Upper
83	100		
85	67.5	51.1	76.7





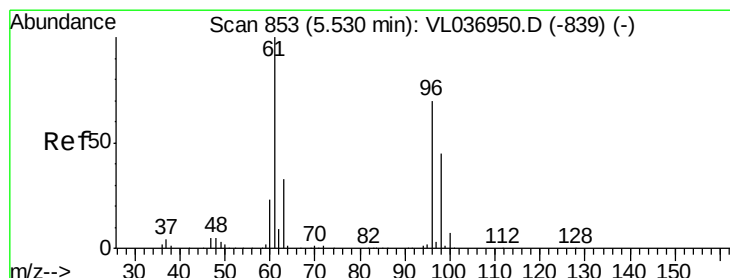
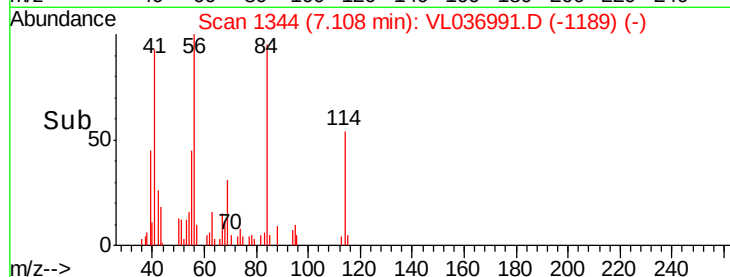
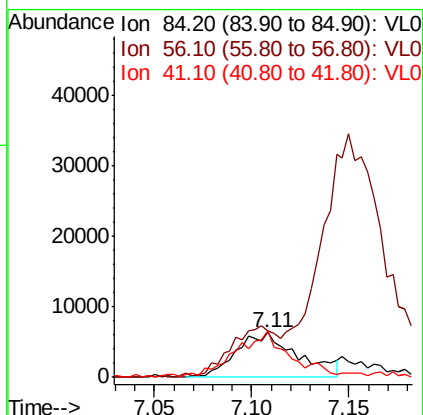
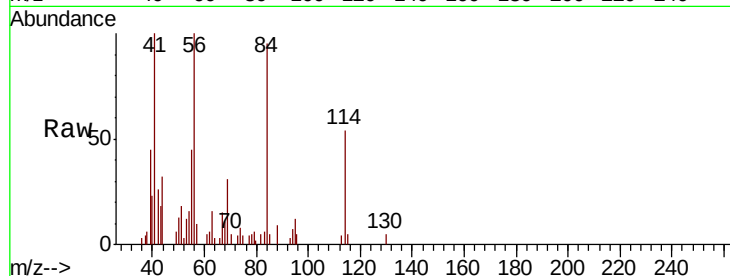
#30
Cyclohexane
Concen: 0.106 ppbv m
RT: 7.11 min Scan# 1344
Delta R.T. -0.00 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2021

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	107.9	161.9#
41	102.1	65.5	98.3#

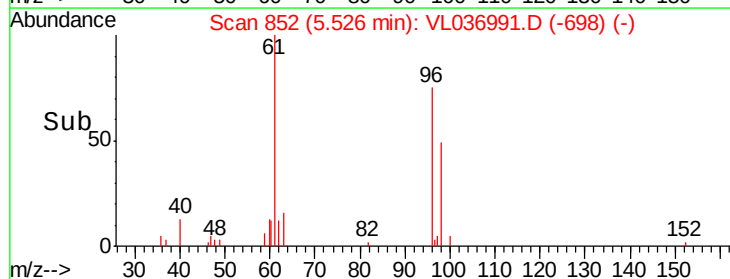
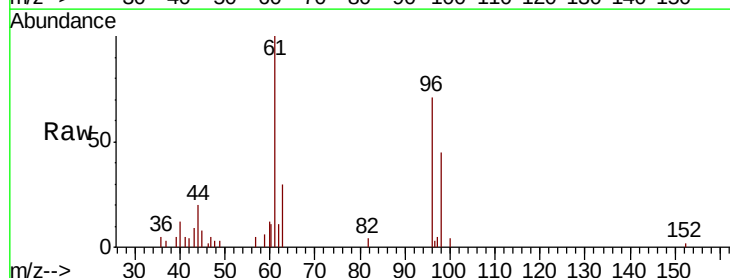
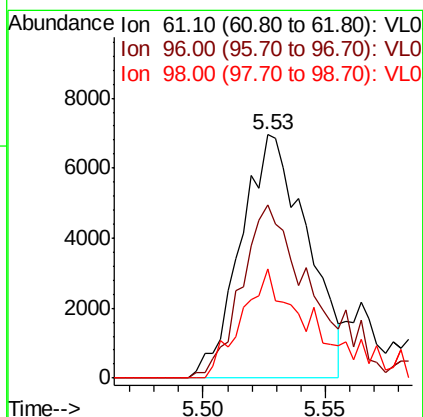
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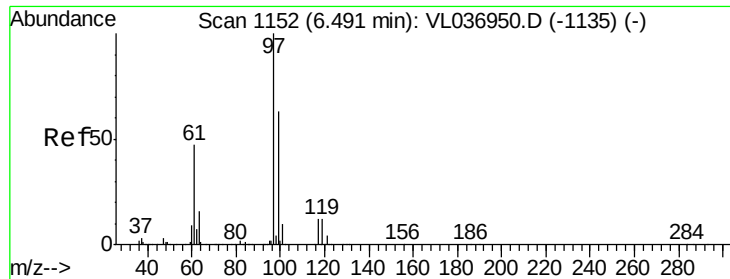
MMDadoda
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#31
cis-1,2-Dichloroethene
Concen: 0.094 ppbv
RT: 5.53 min Scan# 852
Delta R.T. -0.00 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Tgt Ion	Ratio	Lower	Upper
61	100		
96	74.0	55.9	83.9
98	44.7	35.6	53.4





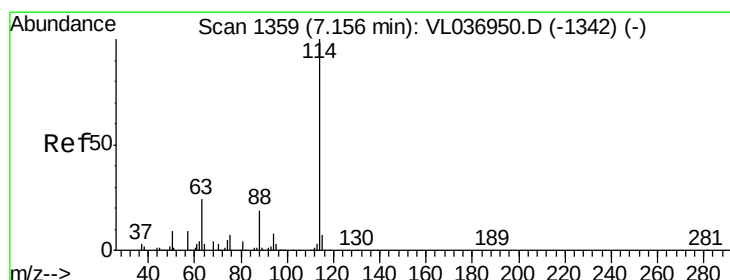
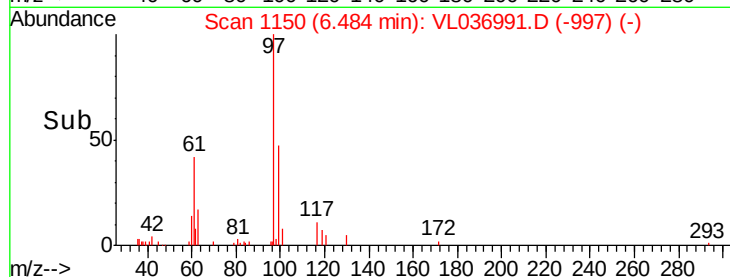
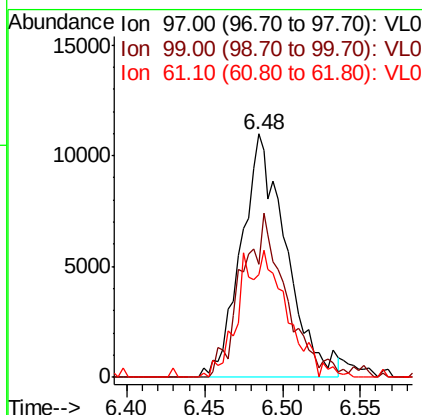
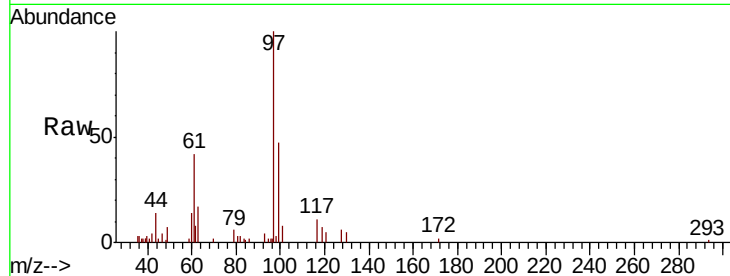
#32
 1,1,1-Trichloroethane
 Concen: 0.093 ppbv m
 RT: 6.48 min Scan# 1150
 Delta R.T. -0.01 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

Tot Ion	Ratio	Lower	Upper
97	100		
99	68.3	51.9	77.9
61	55.8	37.6	56.4

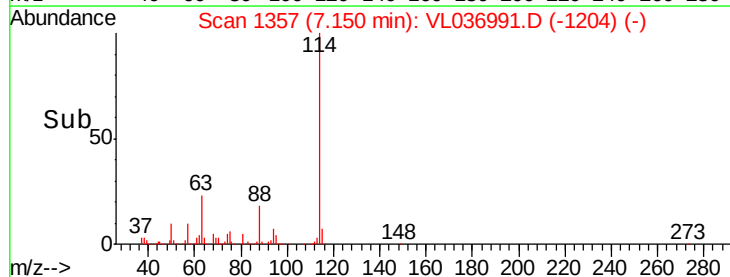
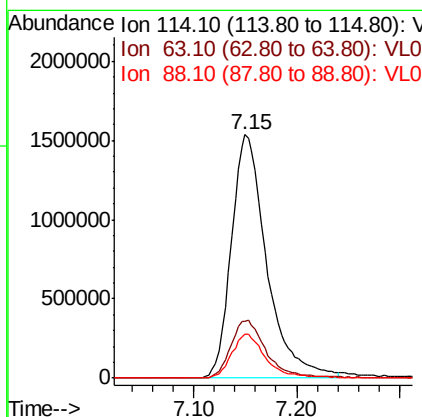
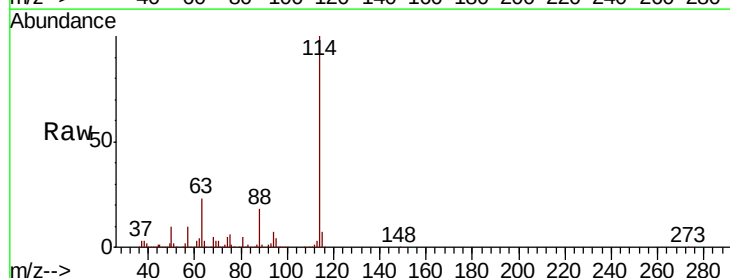
Manual Integrations
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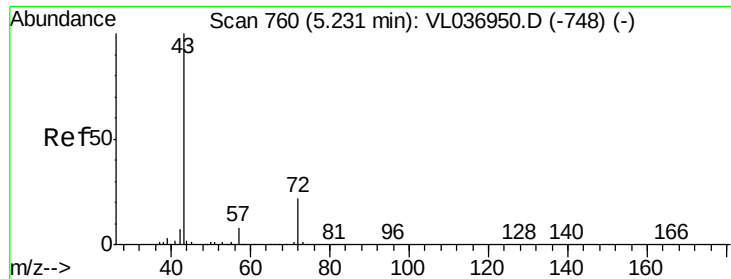
MMDadoda
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#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1357
 Delta R.T. -0.01 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.4	19.6	29.4
88	17.8	14.6	21.8





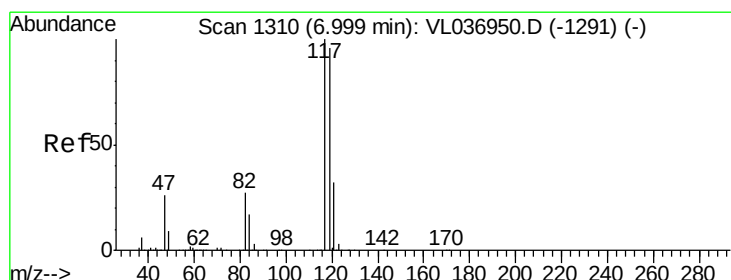
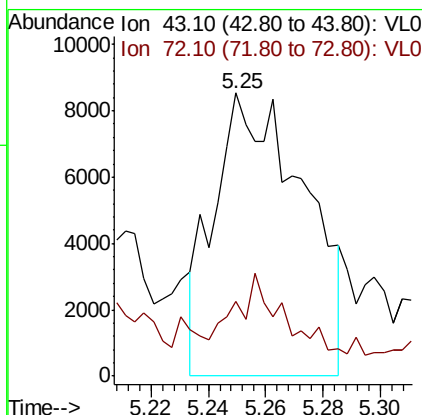
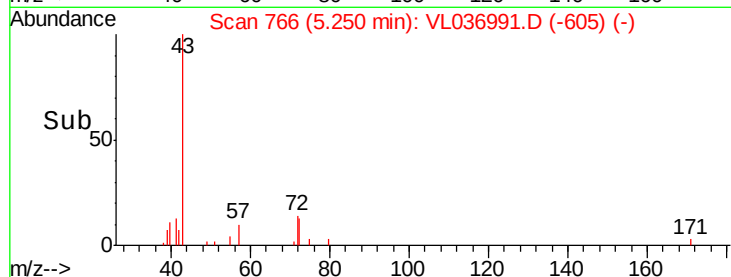
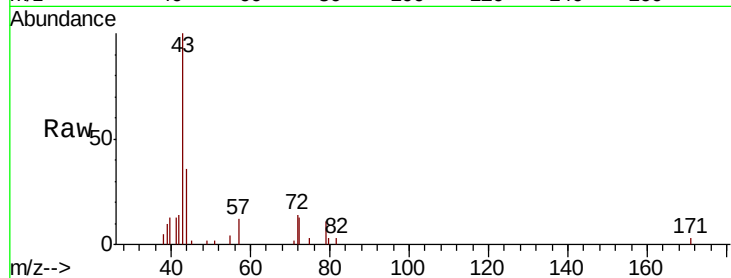
#34
2-Butanone
Concen: 0.139 ppbv m
RT: 5.25 min Scan# 766
Delta R.T. 0.02 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2021

Tot Ion: 43 Resp: 18520
Ion Ratio Lower Upper
43 100
72 0.0 19.0 28.4#

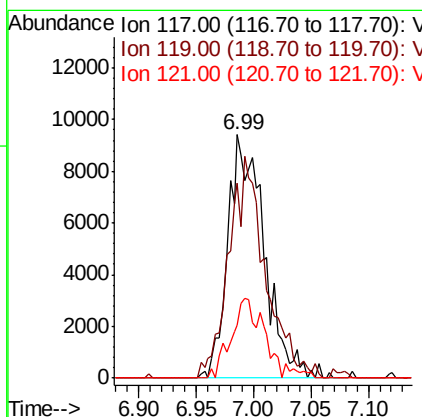
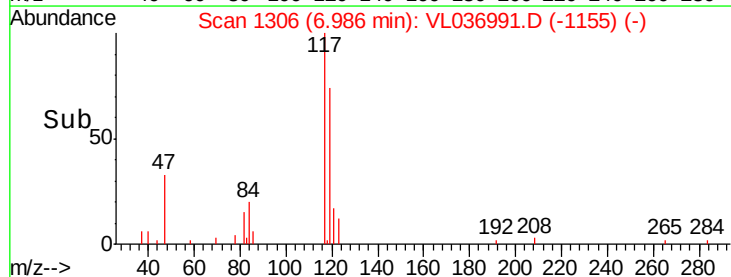
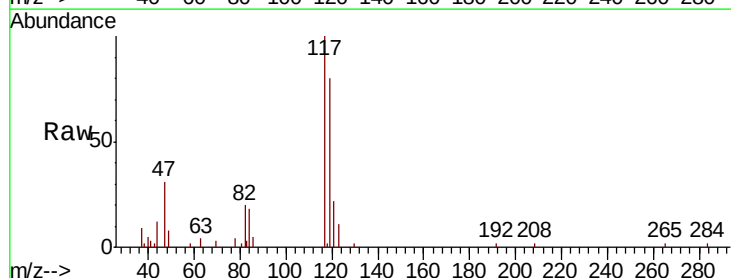
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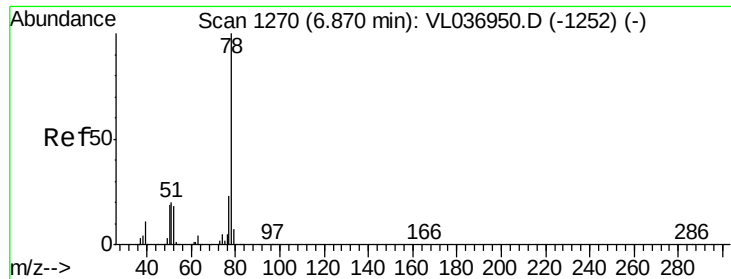
MMDadoda
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#35
Carbon Tetrachloride
Concen: 0.085 ppbv m
RT: 6.99 min Scan# 1306
Delta R.T. -0.01 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Tgt Ion: 117 Resp: 20678
Ion Ratio Lower Upper
117 100
119 80.3 76.6 114.8
121 21.6 25.8 38.6#





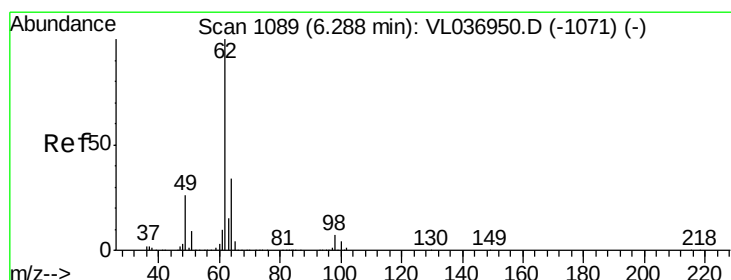
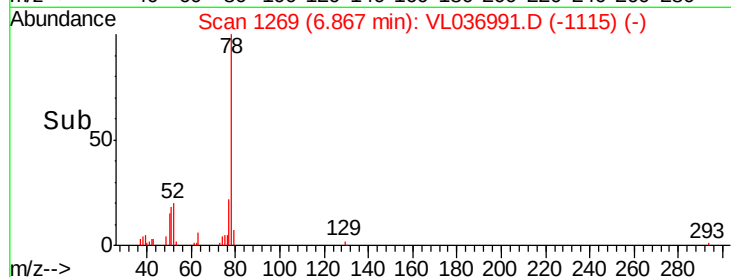
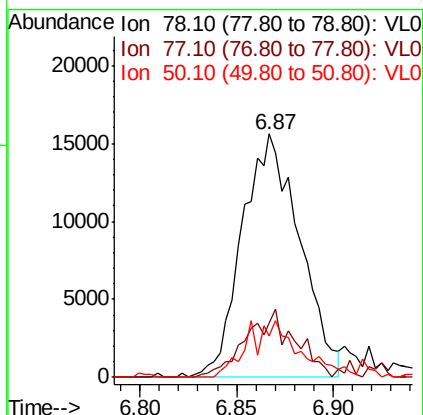
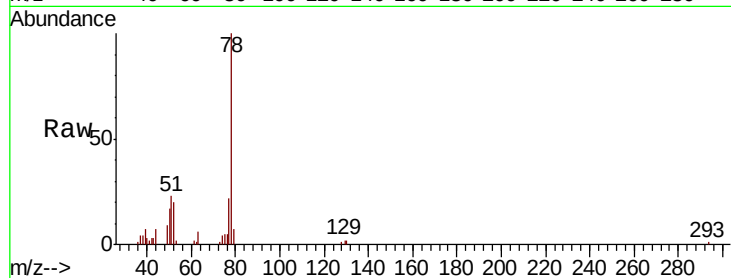
#36
Benzene
Concen: 0.102 ppbv
RT: 6.87 min Scan# 1269
Delta R.T. -0.00 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2021

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.3	18.6	28.0
50	17.1	15.0	22.4

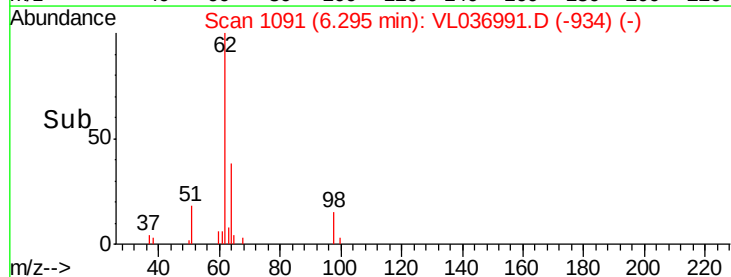
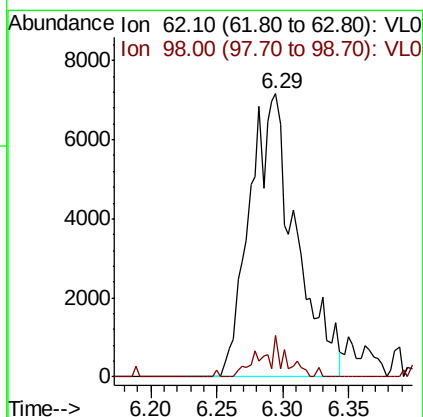
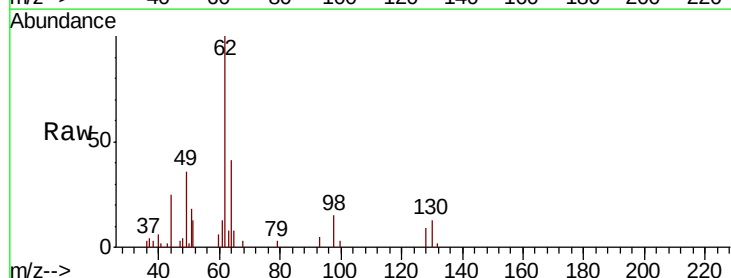
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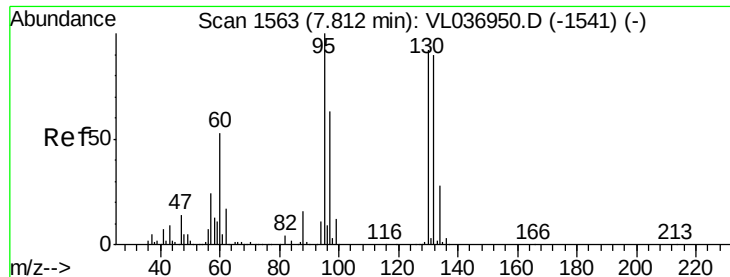
MMDadoda
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#37
1,2-Dichloroethane
Concen: 0.111 ppbv m
RT: 6.29 min Scan# 1091
Delta R.T. 0.01 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Tgt Ion	Ratio	Lower	Upper
62	100		
98	7.7	5.5	8.3





#38

Trichloroethene

Concen: 0.104 ppbv m

RT: 7.81 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

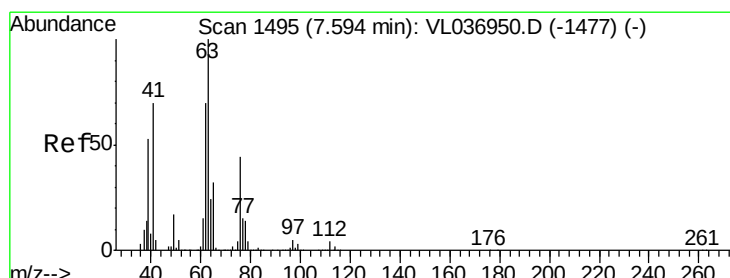
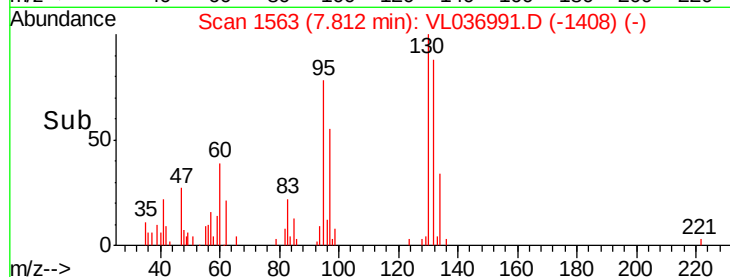
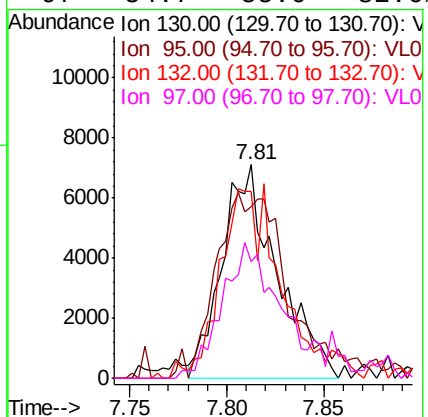
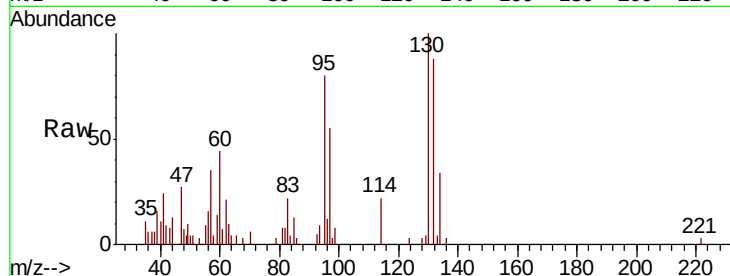
ClientSampleId :

MDL-AIR-03-QT2-2021

Tot Ion:	130	Resp:	14041
Ion Ratio	Lower	Upper	
130	100		
95	80.2	86.9	130.3#
132	87.5	78.4	117.6
97	54.7	55.0	82.6#

Manual Integrations
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#39

1,2-Dichloropropane

Concen: 0.108 ppbv m

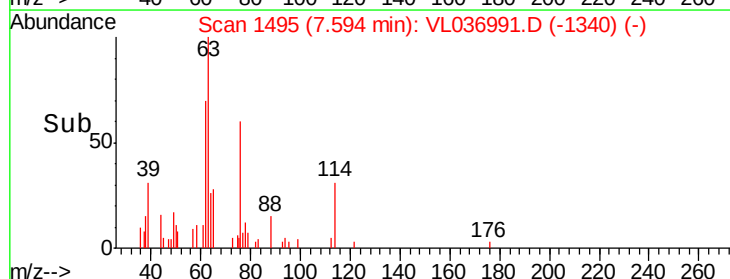
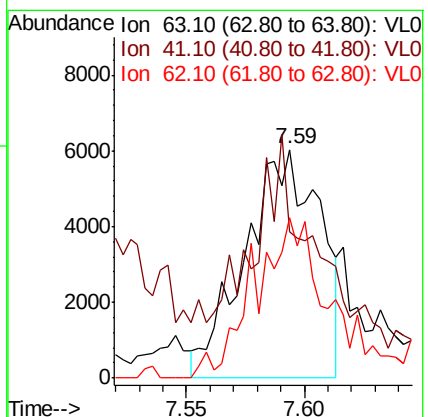
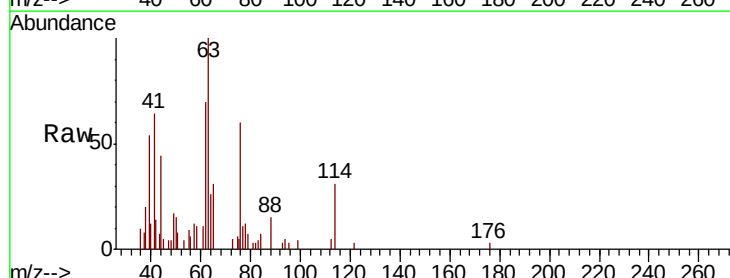
RT: 7.59 min Scan# 1495

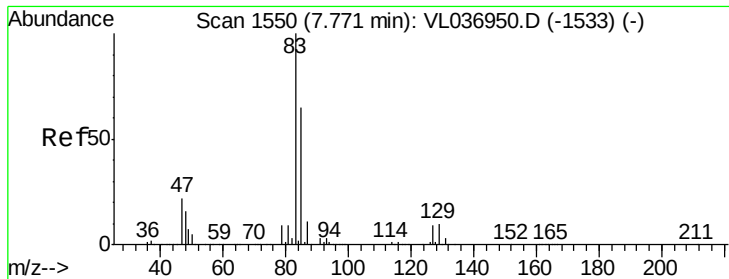
Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Tgt Ion:	63	Resp:	13165
Ion Ratio	Lower	Upper	
63	100		
41	63.9	55.7	83.5
62	70.0	56.2	84.4





#42

Bromodichloromethane

Concen: 0.084 ppbv m

RT: 7.76 min Scan# 1548

Delta R.T. -0.01 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

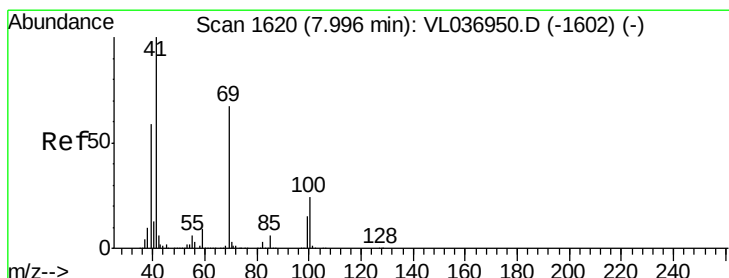
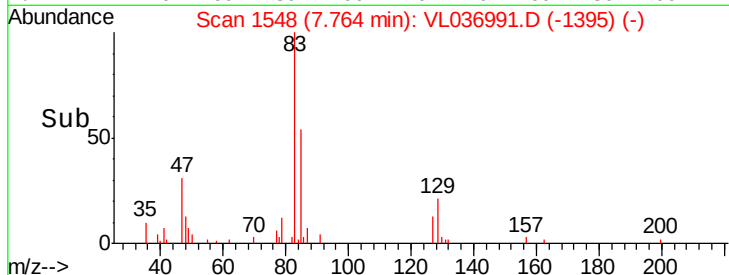
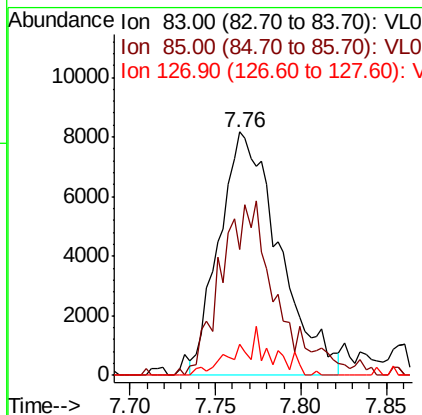
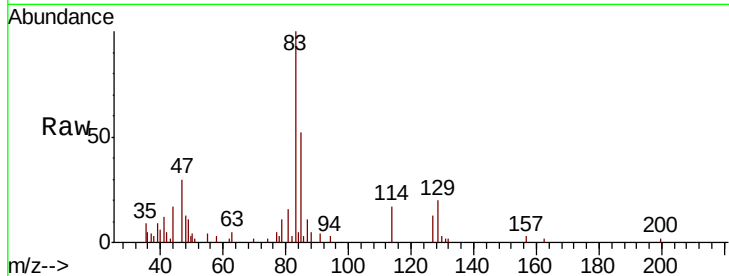
ClientSampleId :

MDL-AIR-03-QT2-2021

Tot Ion:	83	Resp:	19966
Ion Ratio	Lower	Upper	
83	100		
85	51.6	51.7	77.5#
127	12.7	6.9	10.3#

Manual Integrations
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#43

Methyl Methacrylate

Concen: 0.080 ppbv m

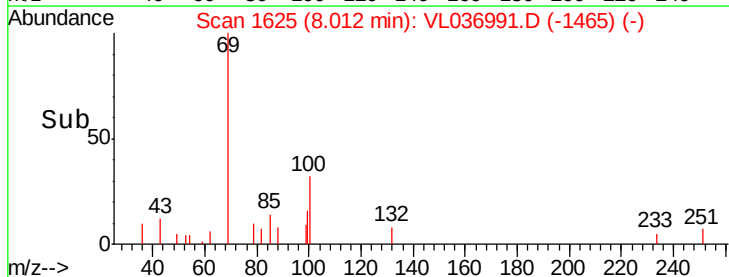
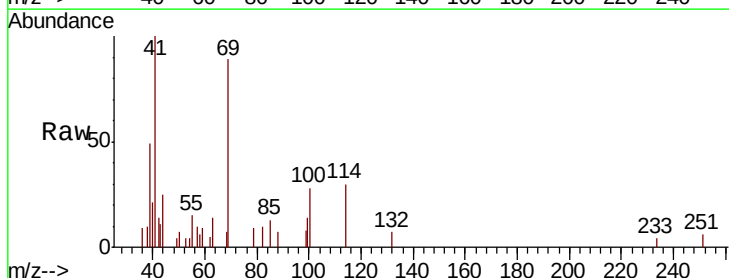
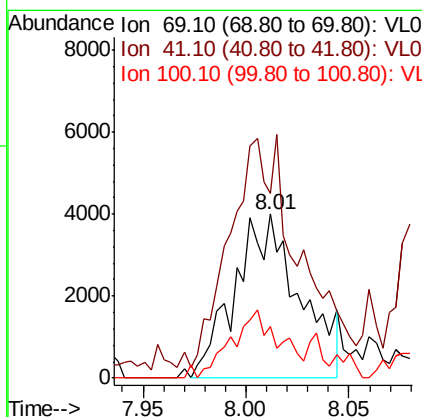
RT: 8.01 min Scan# 1625

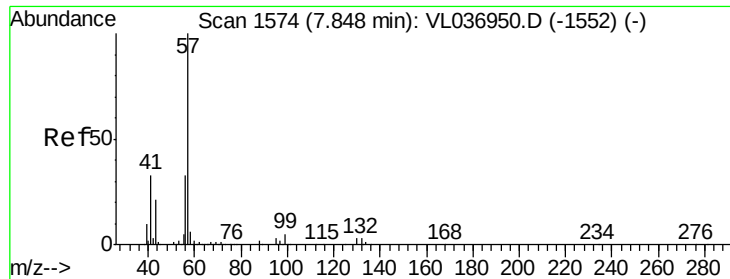
Delta R.T. 0.02 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Tgt Ion:	69	Resp:	8691
Ion Ratio	Lower	Upper	
69	100		
41	0.0	118.6	178.0#
100	0.0	28.2	42.4#





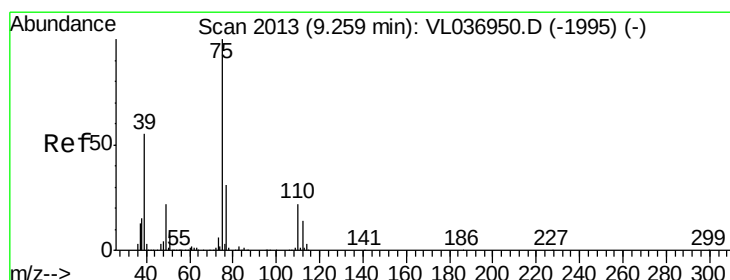
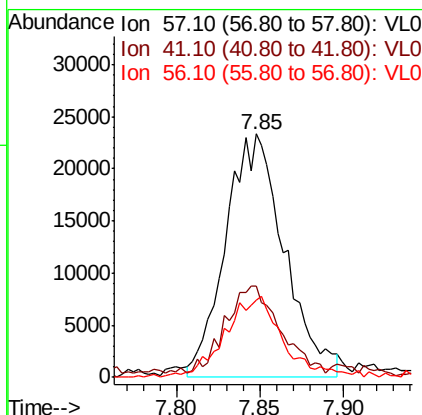
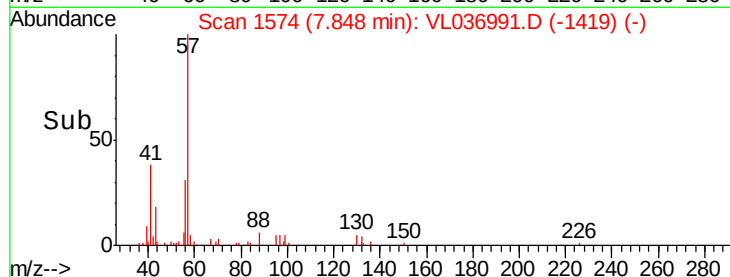
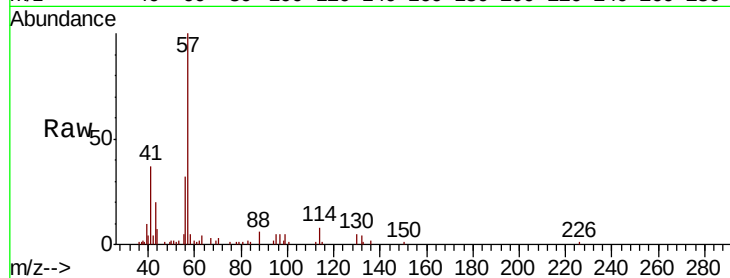
#44
2,2,4-Trimethylpentane
Concen: 0.106 ppbv m
RT: 7.85 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2021

Tot Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.0	40.4#
56	0.0	25.4	38.2#

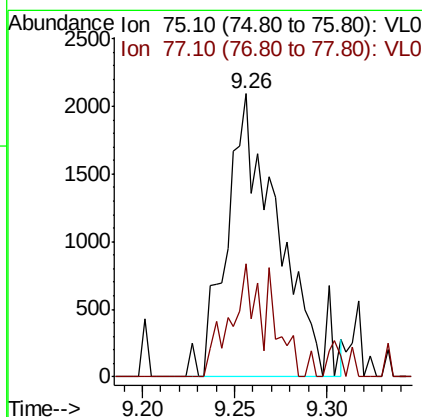
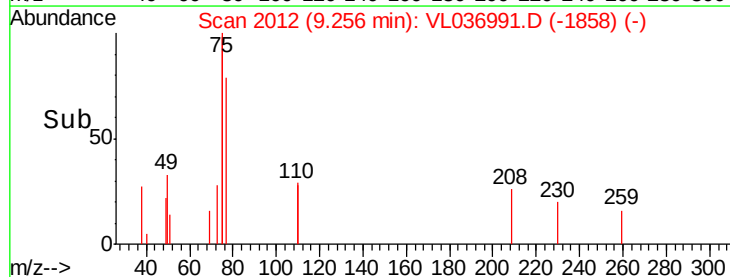
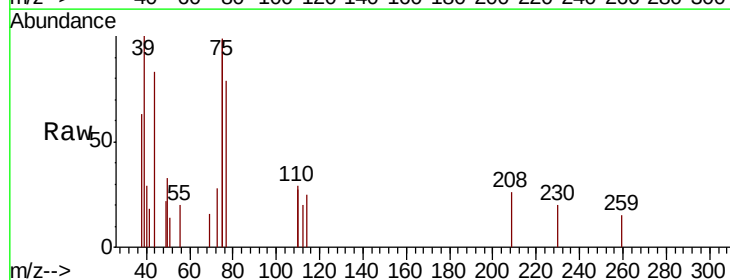
Manual Integrations
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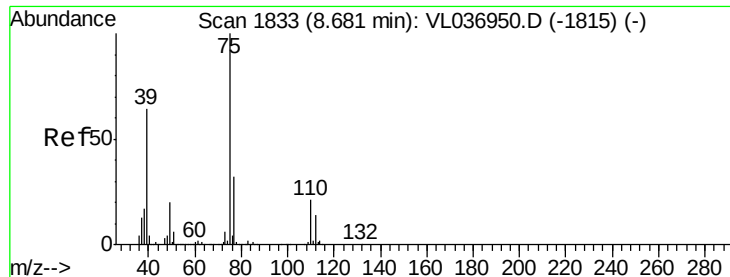
MMDadoda
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#45
t-1,3-Dichloropropene
Concen: 0.049 ppbv m
RT: 9.26 min Scan# 2012
Delta R.T. -0.00 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Tgt Ion	Ratio	Lower	Upper
75	100		
77	79.3	24.4	36.6#





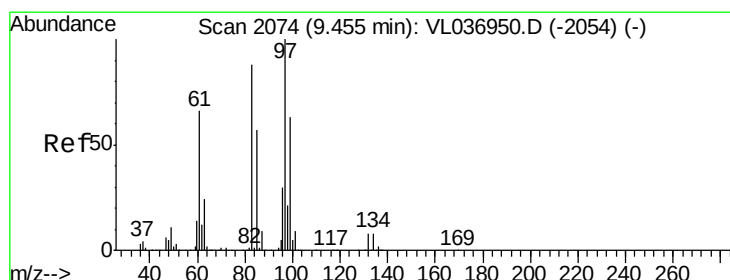
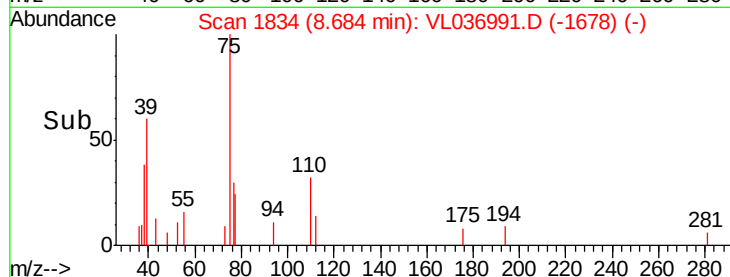
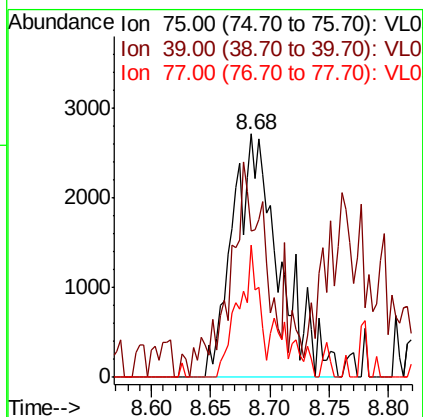
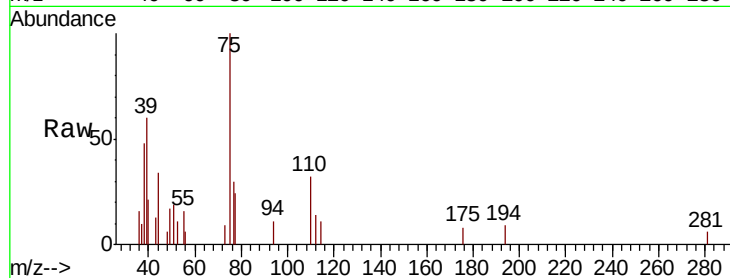
#46
 cis-1,3-Dichloropropene
 Concen: 0.067 ppbv m
 RT: 8.68 min Scan# 1834
 Delta R.T. 0.00 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

Tot Ion	Ratio	Lower	Upper
75	100		
39	60.4	51.5	77.3
77	30.2	25.9	38.9

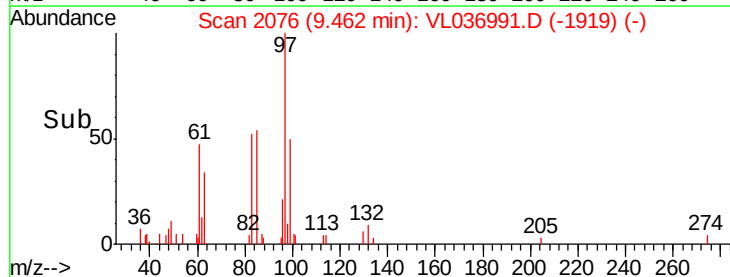
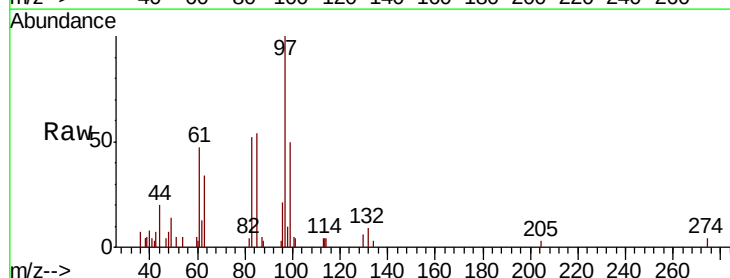
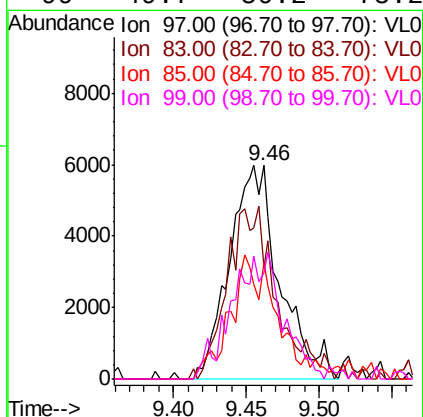
Manual Integrations
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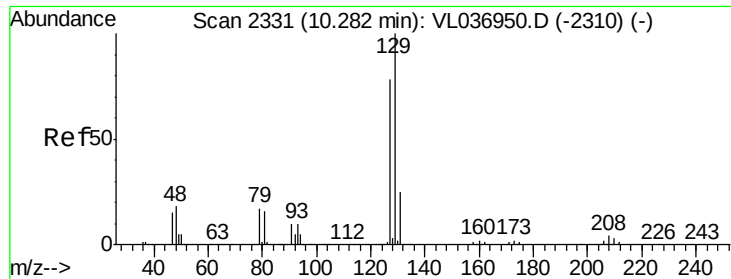
MMDadoda
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#47
 1,1,2-Trichloroethane
 Concen: 0.112 ppbv m
 RT: 9.46 min Scan# 2076
 Delta R.T. 0.01 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Tgt Ion	Ratio	Lower	Upper
97	100		
83	52.4	70.4	105.6#
85	54.3	45.5	68.3
99	49.7	50.2	75.2#





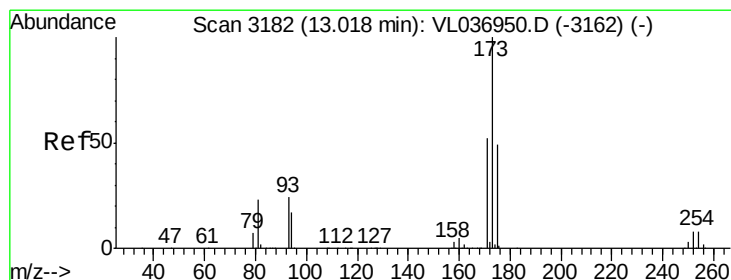
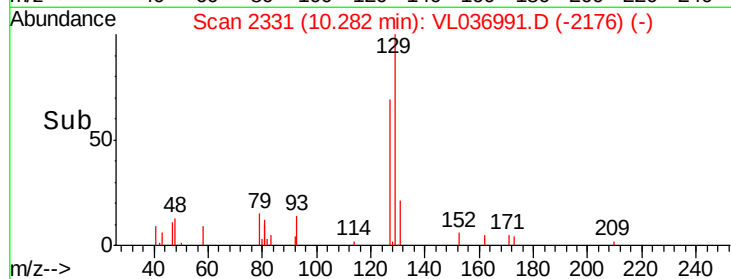
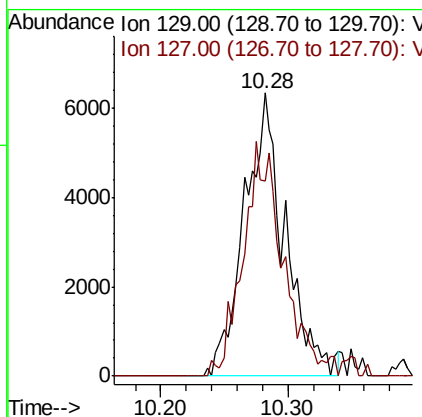
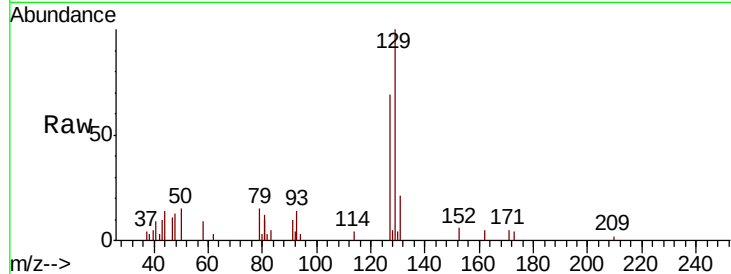
#48
Dibromochloromethane
Concen: 0.068 ppbv m
RT: 10.28 min Scan# 2331
Delta R.T. -0.00 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2021

Tot Ion:129 Resp: 13963
Ion Ratio Lower Upper
129 100
127 84.5 39.3 117.8

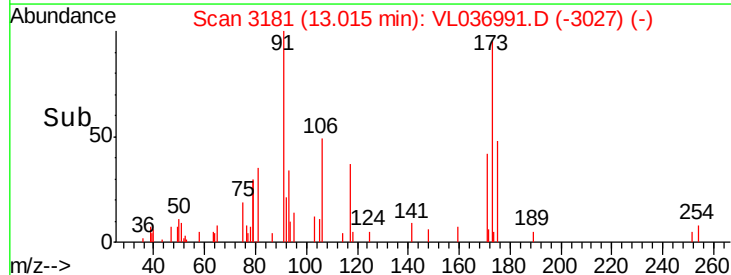
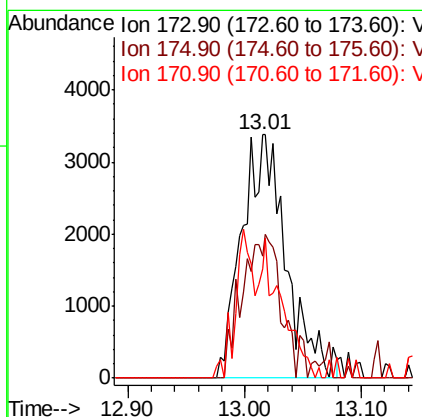
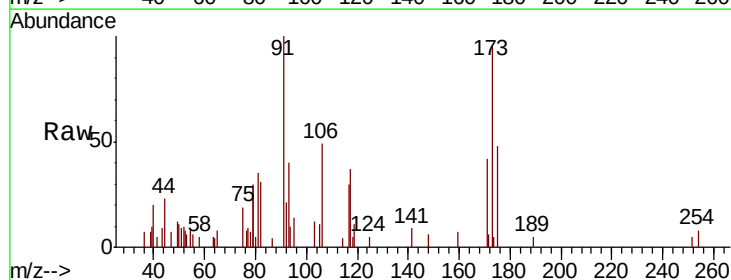
Manual Integrations
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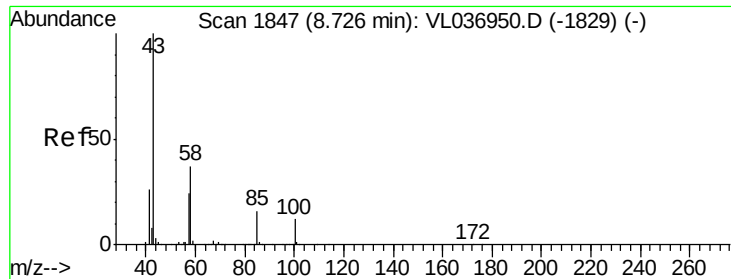
MMDadoda
5/24/2021 3:01:22 PM



#49
Bromoform
Concen: 0.052 ppbv m
RT: 13.01 min Scan# 3181
Delta R.T. -0.00 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Tgt Ion:173 Resp: 8934
Ion Ratio Lower Upper
173 100
175 0.0 40.4 60.6#
171 53.6 42.6 64.0





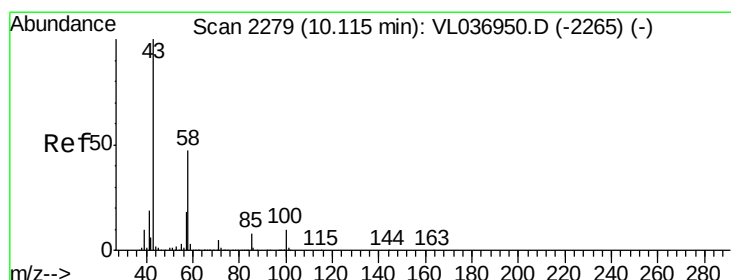
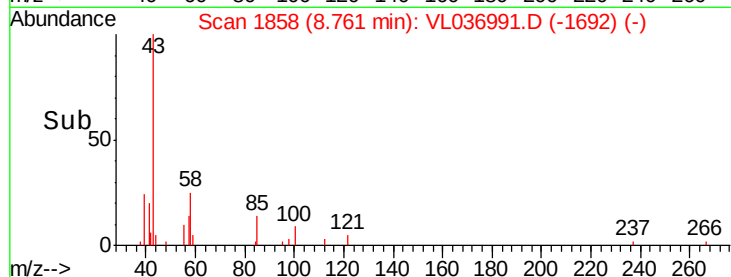
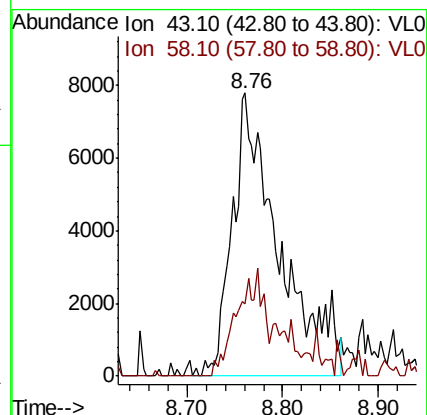
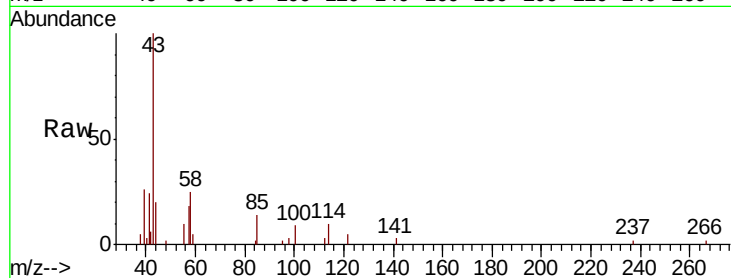
#50
4-Methyl-2-Pentanone
Concen: 0.119 ppbv m
RT: 8.76 min Scan# 1858
Delta R.T. 0.04 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2021

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.4	44.2#

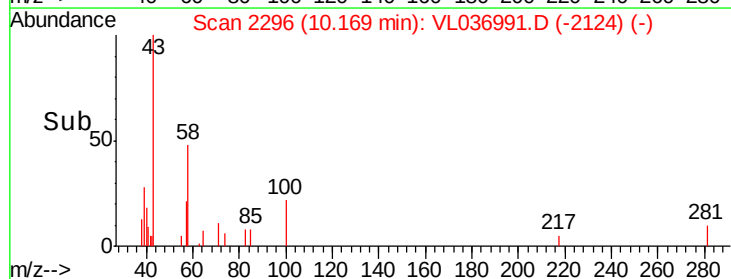
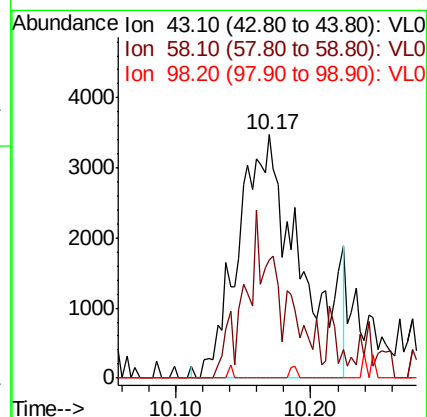
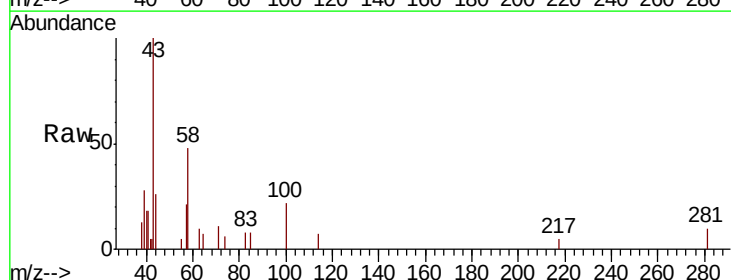
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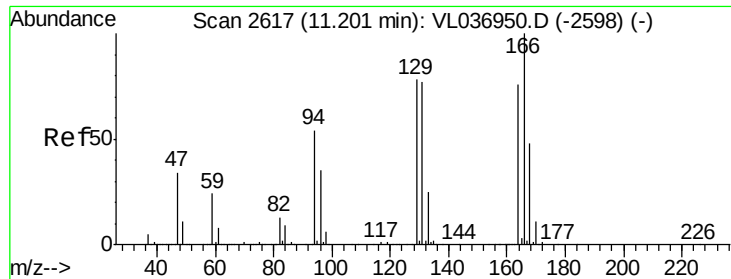
MMDadoda
5/24/2021 3:01:22 PM



#51
2-Hexanone
Concen: 0.094 ppbv m
RT: 10.17 min Scan# 2296
Delta R.T. 0.05 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.1	61.7#
98	0.0	0.1	0.1#





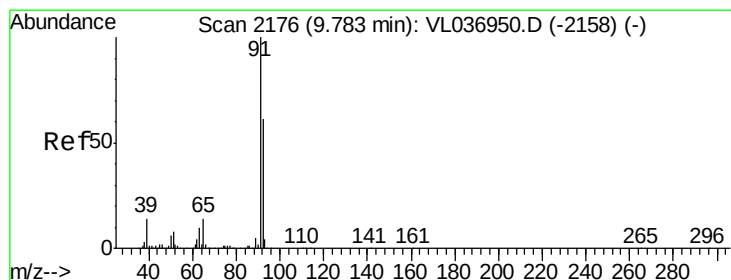
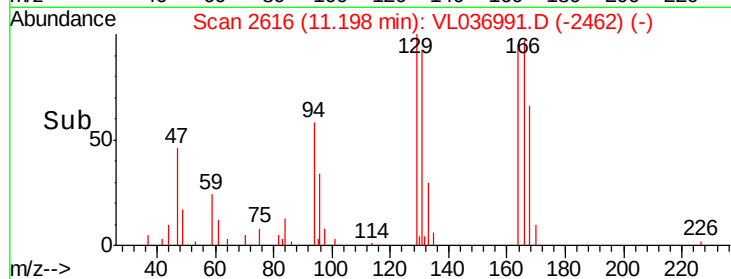
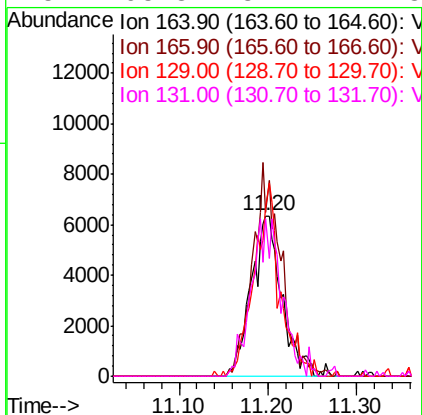
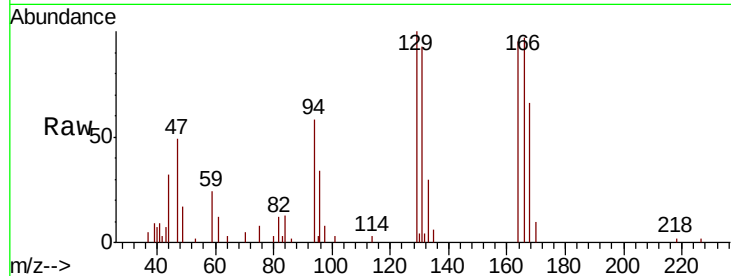
#52
Tetrachloroethene
Concen: 0.121 ppbv m
RT: 11.20 min Scan# 2616
Delta R.T. -0.00 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2021

Tot Ion	Ratio	Lower	Upper
164	100		
166	102.0	105.5	158.3#
129	105.5	81.8	122.8
131	98.3	81.2	121.8

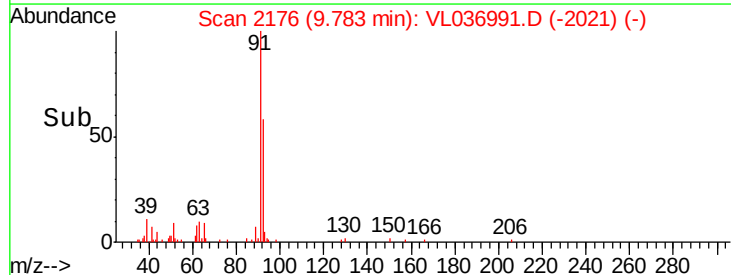
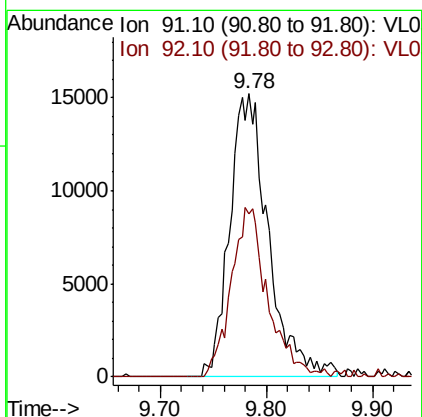
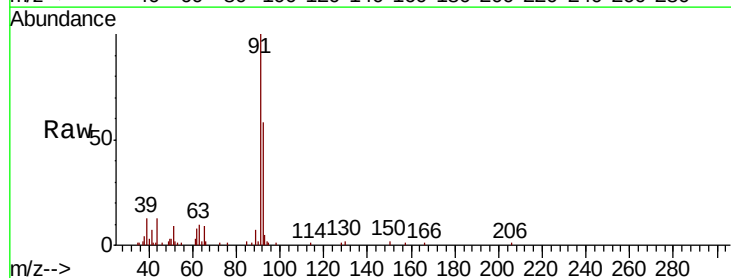
Manual Integrations
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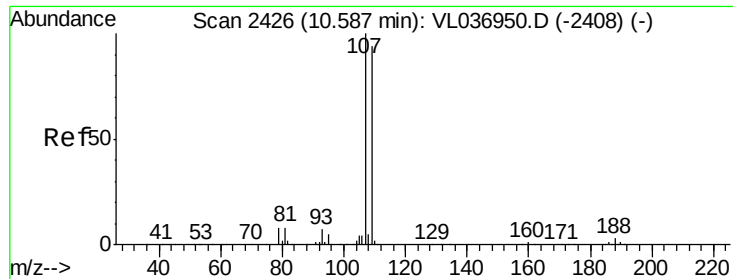
MMDadoda
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#53
Toluene
Concen: 0.102 ppbv m
RT: 9.78 min Scan# 2176
Delta R.T. -0.00 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	49.5	74.3#





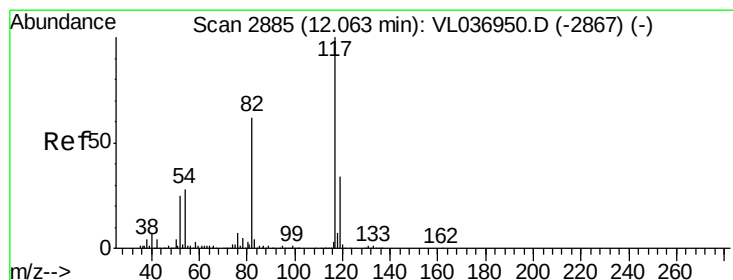
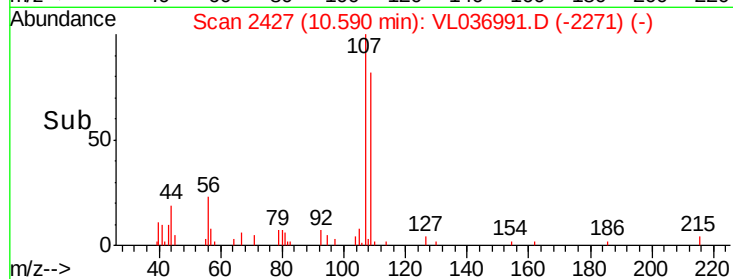
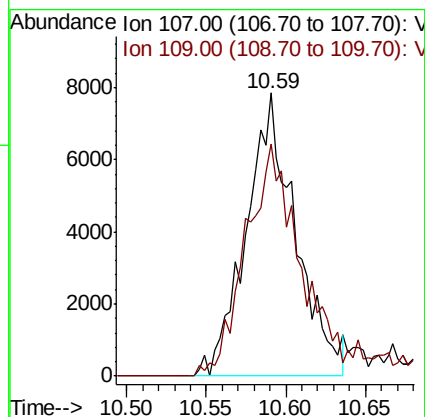
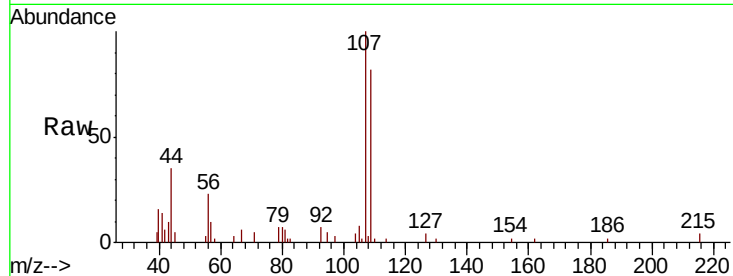
#54
 1,2-Dibromoethane
 Concen: 0.093 ppbv m
 RT: 10.59 min Scan# 2427
 Delta R.T. 0.00 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

Tot Ion:107 Resp: 16830
 Ion Ratio Lower Upper
 107 100
 109 81.9 75.0 112.4

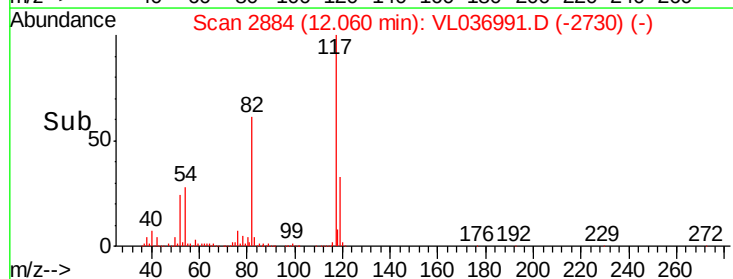
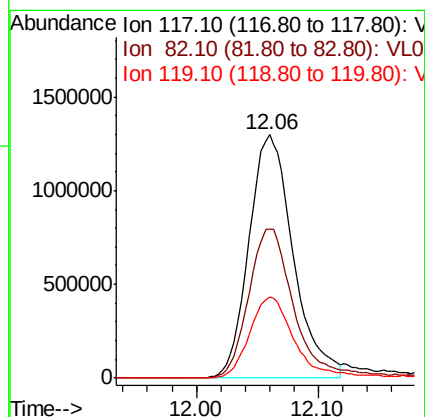
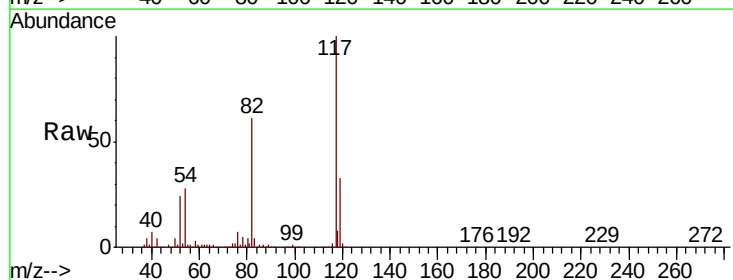
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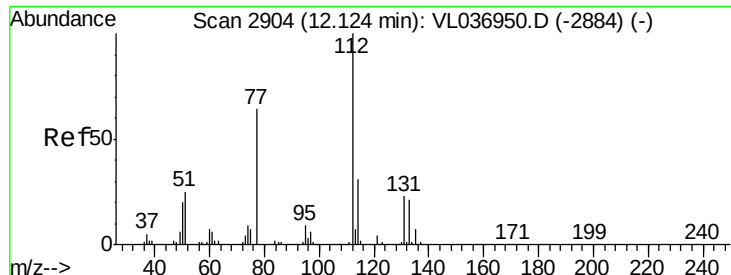
MMDadoda
 5/24/2021 3:01:22 PM



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.06 min Scan# 2884
 Delta R.T. -0.00 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Tgt Ion:117 Resp: 3251670
 Ion Ratio Lower Upper
 117 100
 82 65.8 52.6 79.0
 119 35.3 46.6 70.0#





#57

Chlorobenzene

Concen: 0.118 ppbv m

RT: 12.13 min Scan# 2905

Delta R.T. 0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

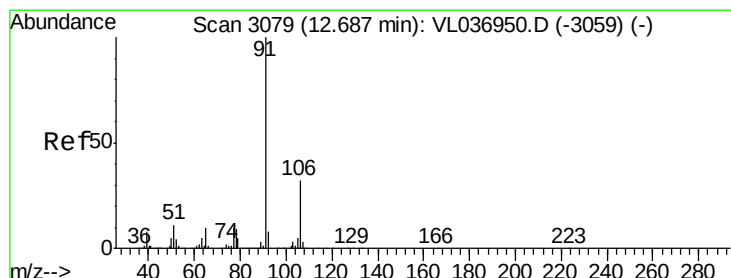
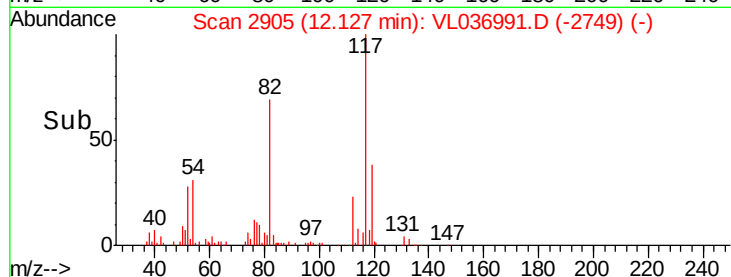
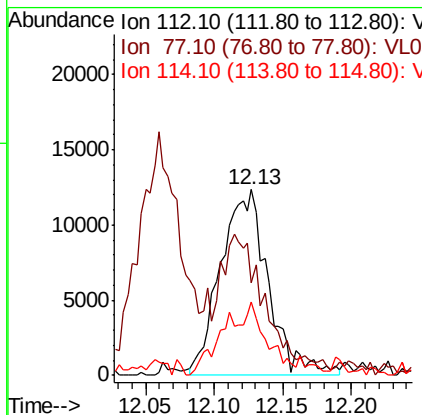
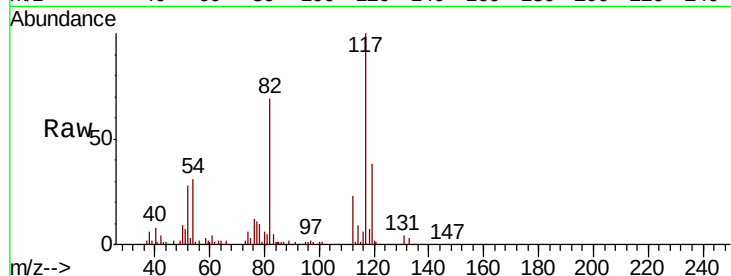
ClientSampleId :

MDL-AIR-03-QT2-2021

Tot Ion	Ratio	Resp	Lower	Upper
112	100	29840		
77	49.9	51.0	76.6#	
114	39.6	28.3	34.5#	

Manual Integrations
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#58

Ethyl Benzene

Concen: 0.102 ppbv m

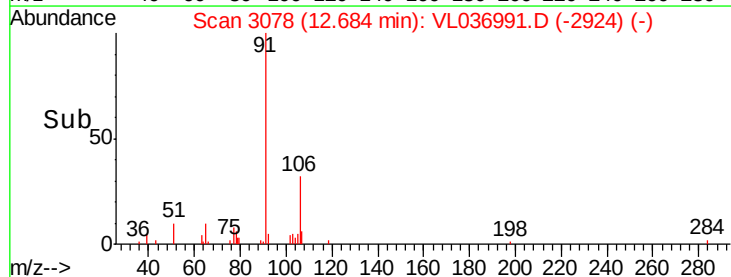
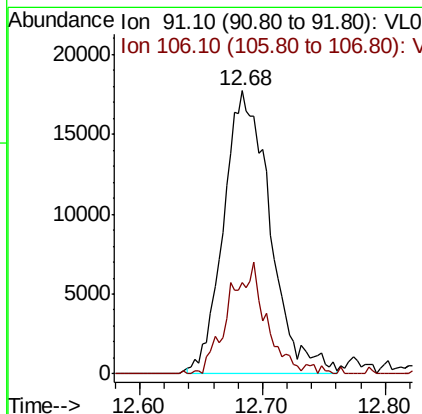
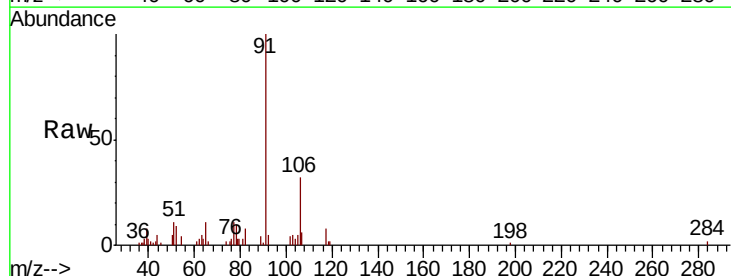
RT: 12.68 min Scan# 3078

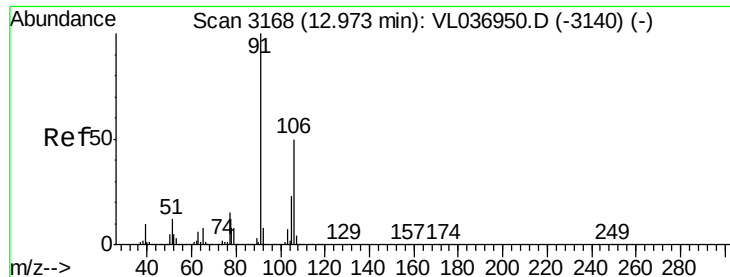
Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	46641		
106	32.2	25.6	38.4	





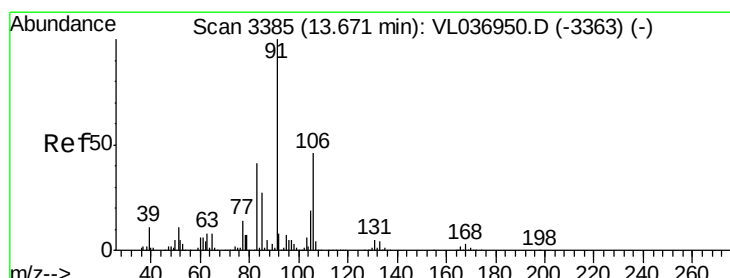
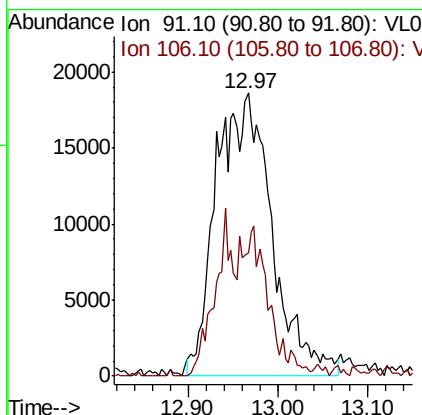
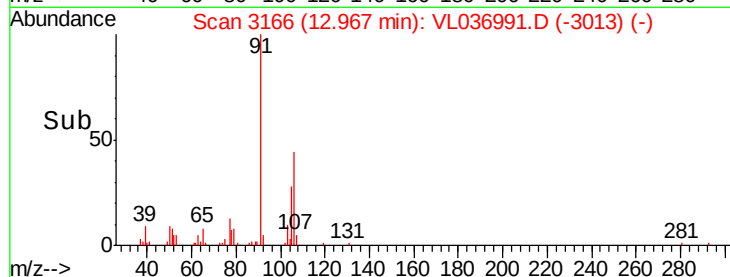
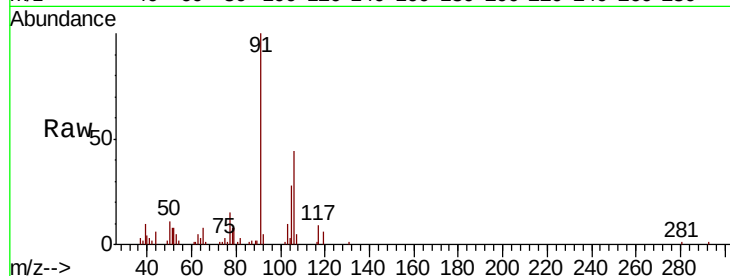
#59
m/p-Xylene
Concen: 0.212 ppbv m
RT: 12.97 min Scan# 3166
Delta R.T. -0.01 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2021

Tot Ion: 91 Resp: 80420
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#

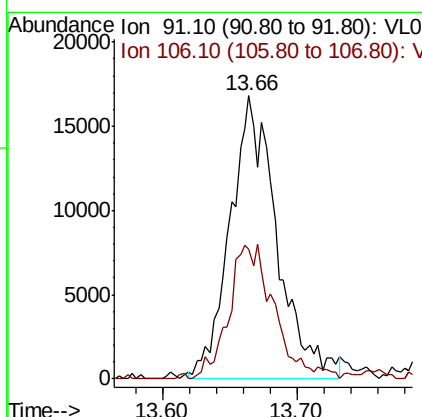
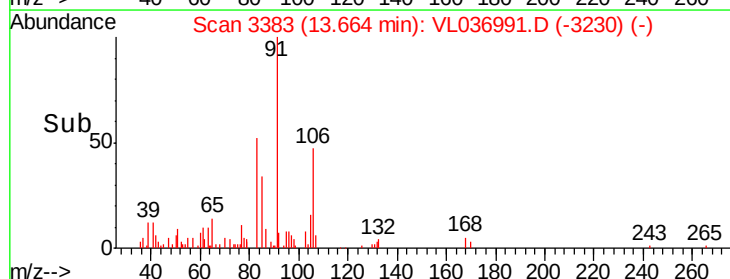
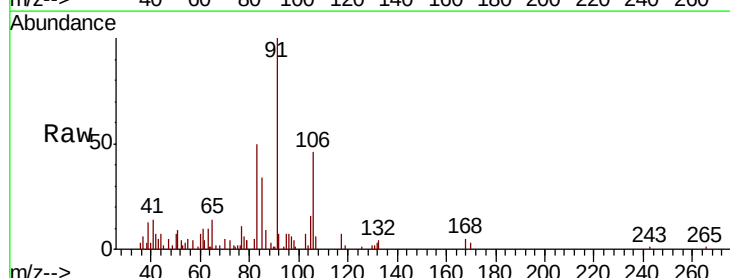
Manual Integrations
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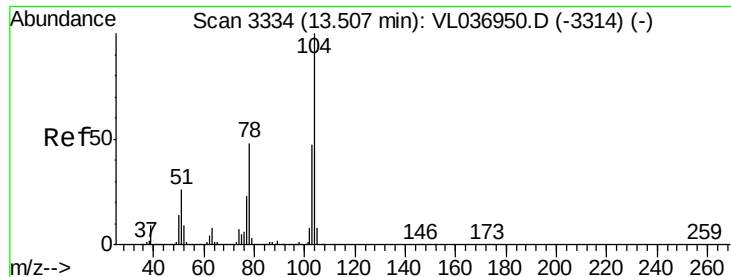
MMDadoda
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#60
o-Xylene
Concen: 0.113 ppbv m
RT: 13.66 min Scan# 3383
Delta R.T. -0.01 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Tgt Ion: 91 Resp: 40707
Ion Ratio Lower Upper
91 100
106 0.0 23.4 70.3#





#61

Stvrene

Concen: 0.081 ppbv m

RT: 13.50 min Scan# 3332

Delta R.T. -0.01 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

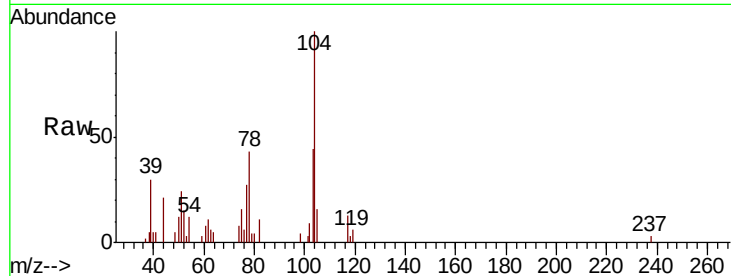
ClientSampleId :

MDL-AIR-03-QT2-2021

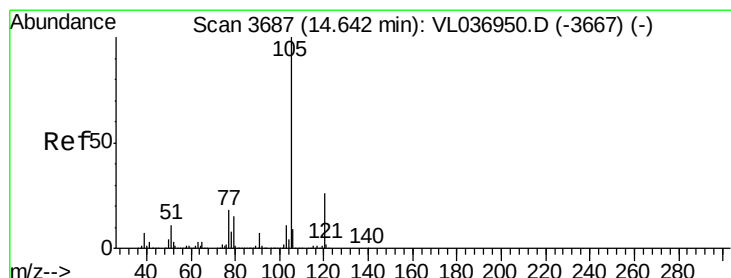
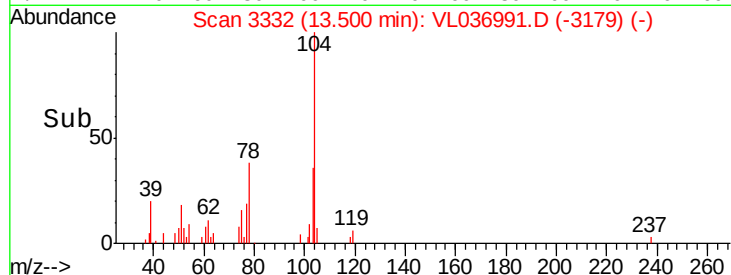
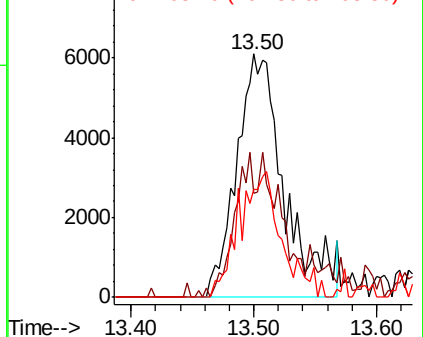
Tot Ion:	104	Resp:	16471
Ion Ratio	Lower	Upper	
104	100		
78	0.0	39.0	58.6#
103	0.0	38.0	57.0#

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Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.103 ppbv m

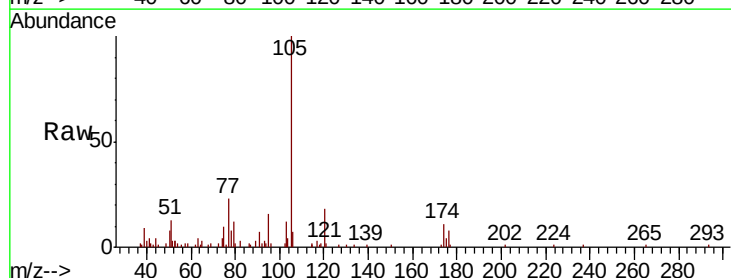
RT: 14.65 min Scan# 3690

Delta R.T. 0.01 min

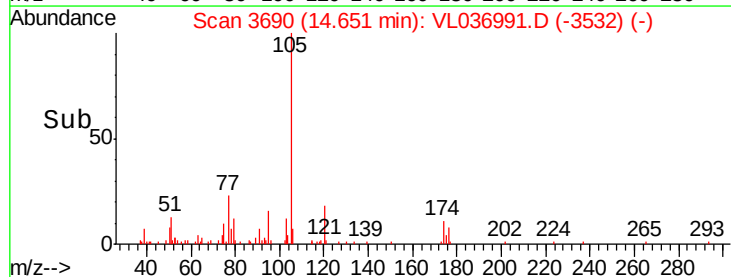
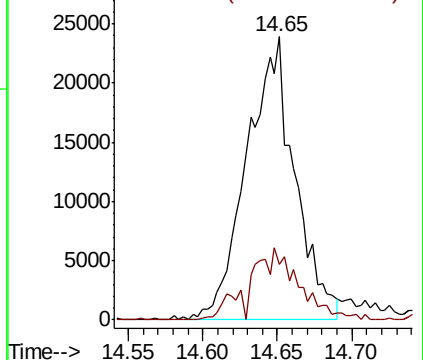
Lab File: VL036991.D

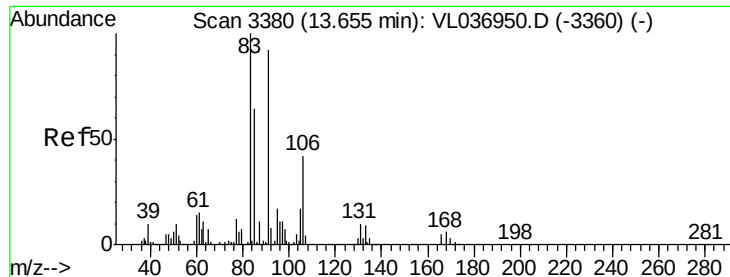
Acq: 19 May 2021 14:14

Tgt Ion:	105	Resp:	53529
Ion Ratio	Lower	Upper	
105	100		
120	0.0	21.7	32.5#



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.103 ppbv m

RT: 13.66 min Scan# 3381

Delta R.T. 0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-03-QT2-2021

Tot Ion: 83 Resp: 27731

Ion Ratio Lower Upper

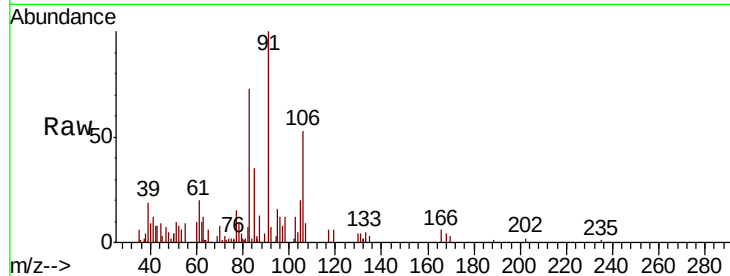
83 100

131 0.0 5.0 15.0#

85 0.0 32.9 98.6#

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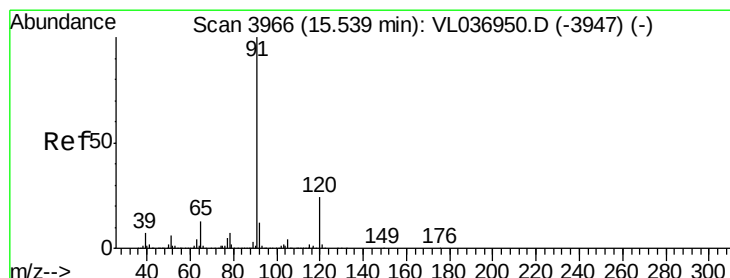
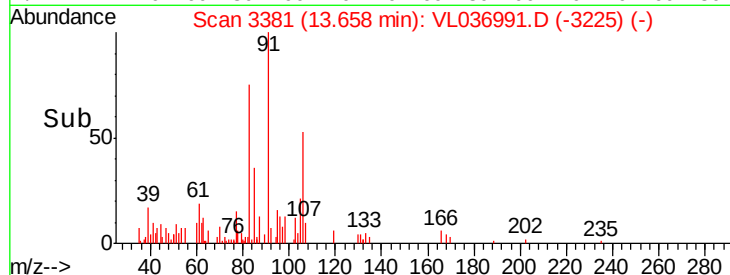
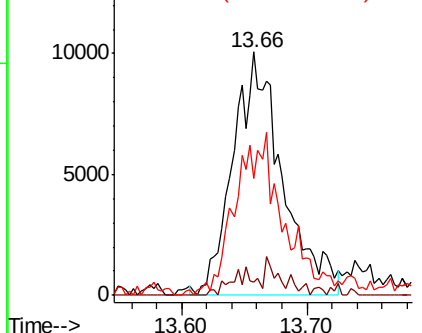
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.106 ppbv m

RT: 15.54 min Scan# 3967

Delta R.T. 0.00 min

Lab File: VL036991.D

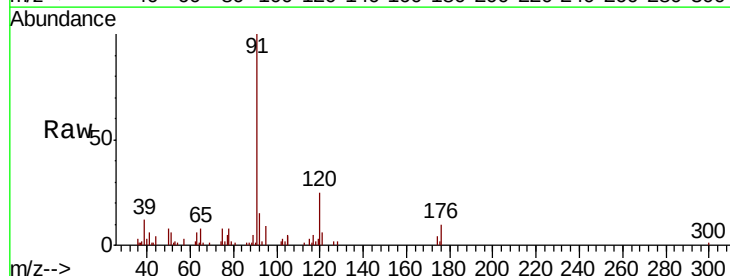
Acq: 19 May 2021 14:14

Tgt Ion: 120 Resp: 14194

Ion Ratio Lower Upper

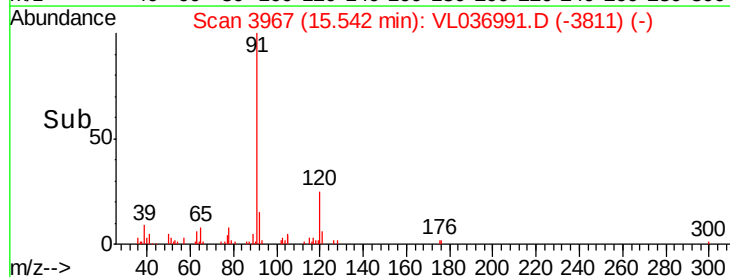
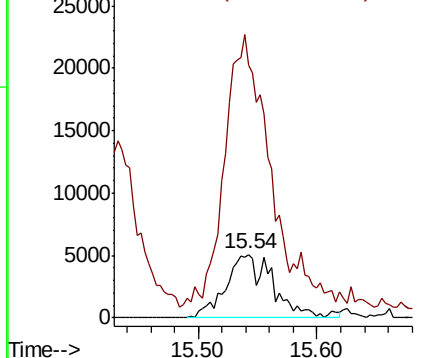
120 100

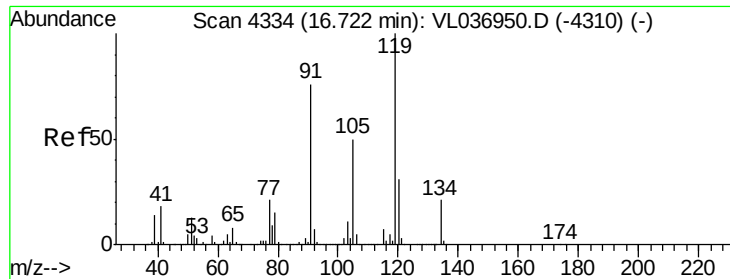
91 488.4 343.8 515.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





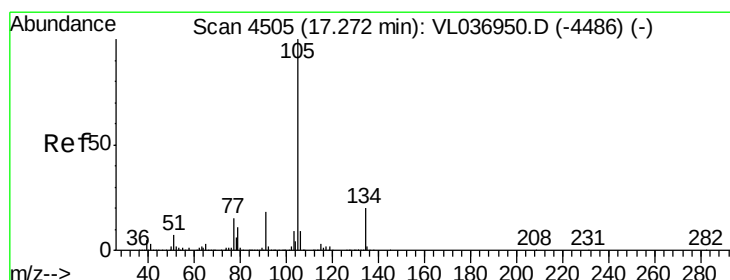
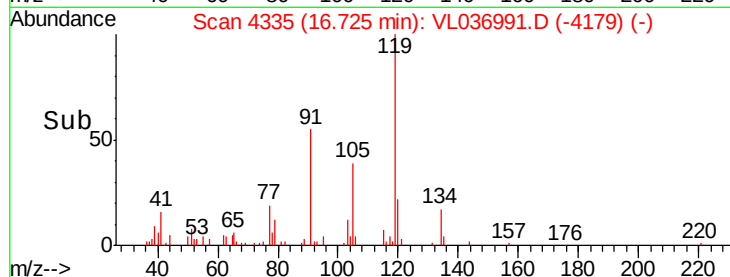
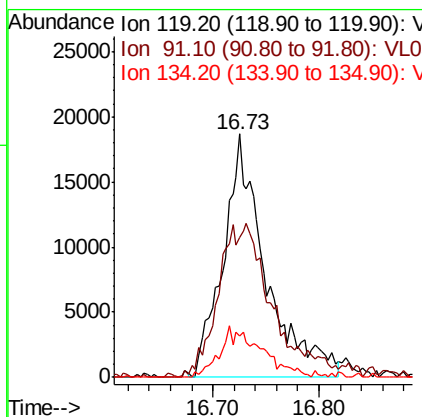
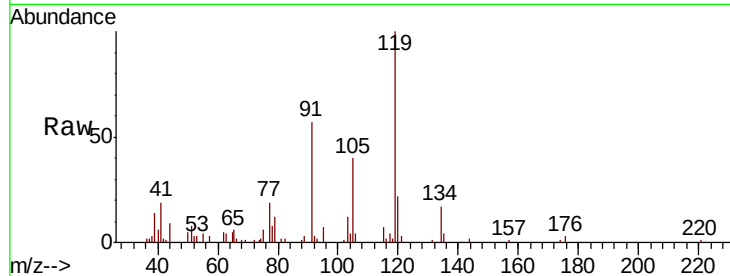
#65
tert-Butylbenzene
Concen: 0.110 ppbv m
RT: 16.73 min Scan# 4335
Delta R.T. 0.00 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2021

Tot Ion	Ratio	Lower	Upper
119	100		
91	0.0	61.9	92.9#
134	21.3	16.2	24.4

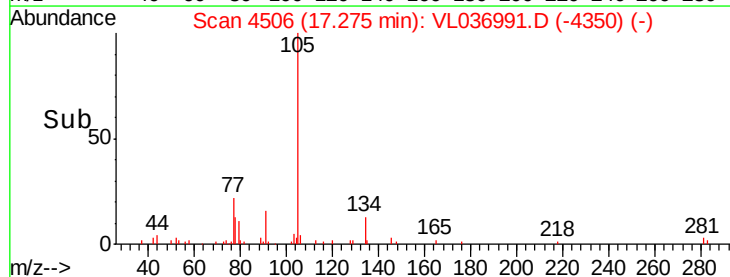
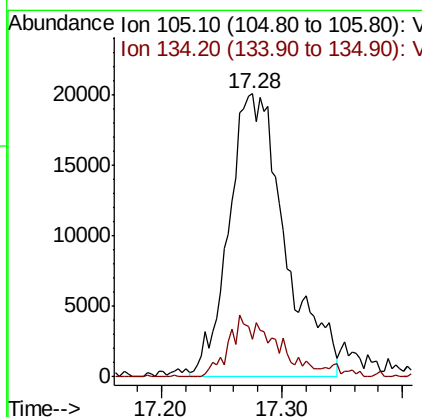
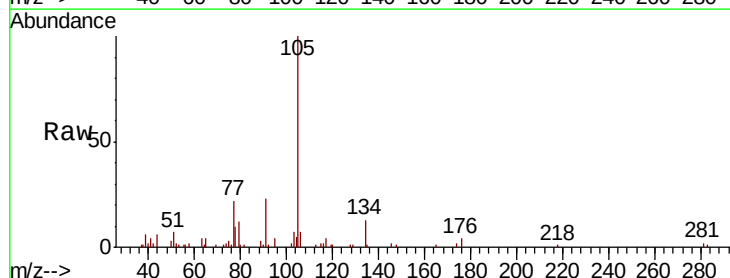
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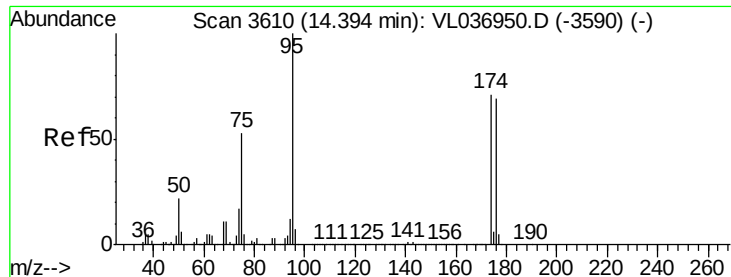
MMDadoda
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#67
sec-Butylbenzene
Concen: 0.101 ppbv m
RT: 17.28 min Scan# 4506
Delta R.T. 0.00 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Tgt Ion	Ratio	Lower	Upper
105	100		
134	17.4	15.6	23.4





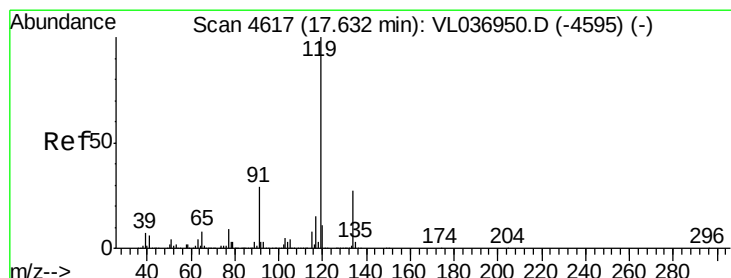
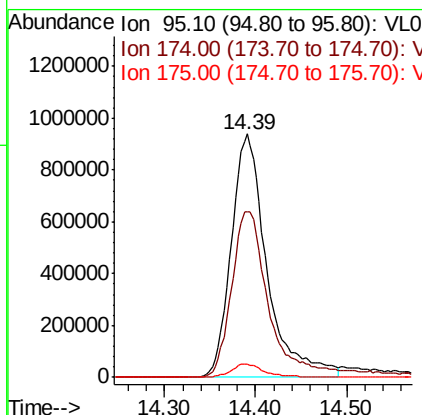
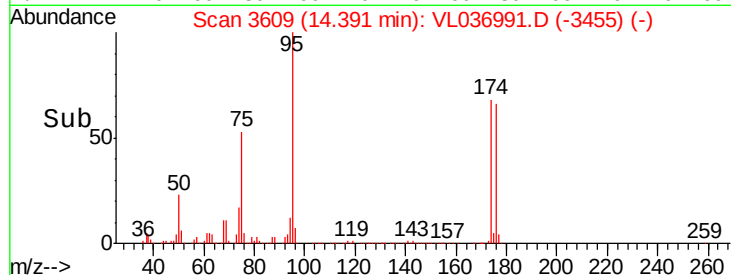
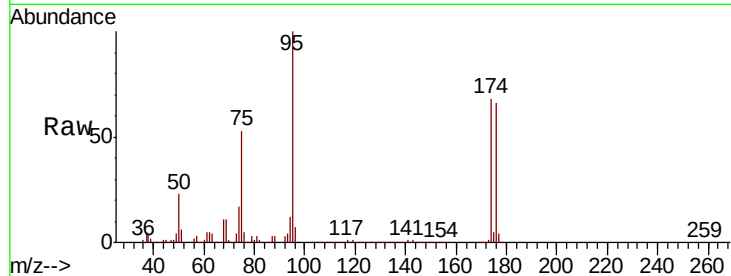
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.496 ppbv
 RT: 14.39 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

Tot Ion	Ratio	Lower	Upper
95	100		
174	74.6	58.4	87.6
175	5.4	4.4	6.6

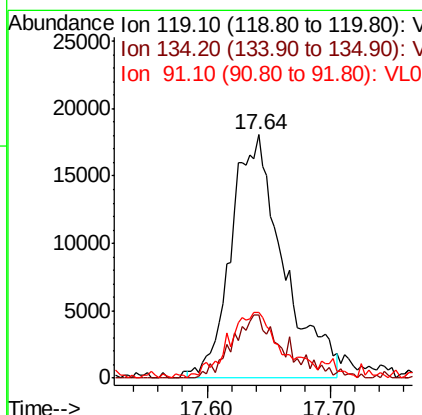
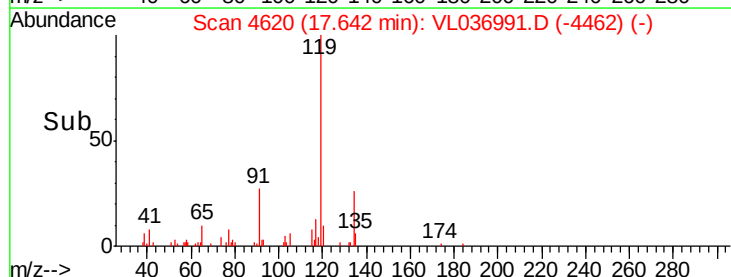
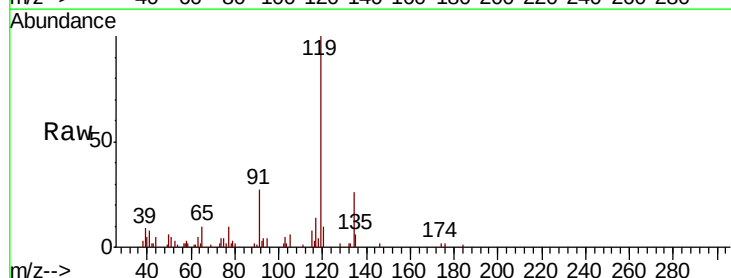
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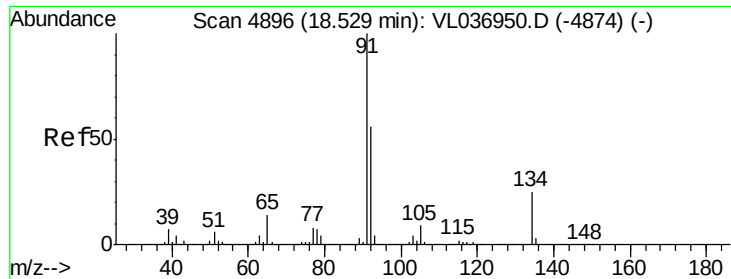
MMDadoda
 5/24/2021 3:01:22 PM



#69
 p-Isopropyltoluene
 Concen: 0.096 ppbv m
 RT: 17.64 min Scan# 4620
 Delta R.T. 0.01 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Tgt Ion	Ratio	Lower	Upper
119	100		
134	0.0	21.2	31.8#
91	0.0	22.2	33.4#





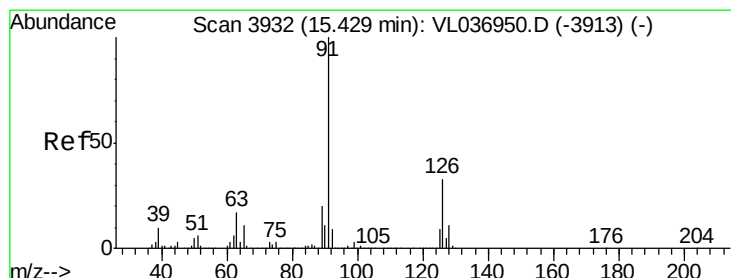
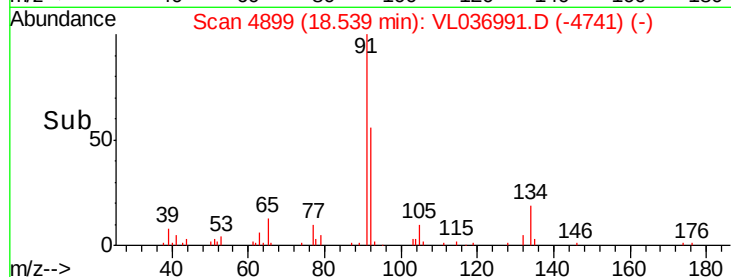
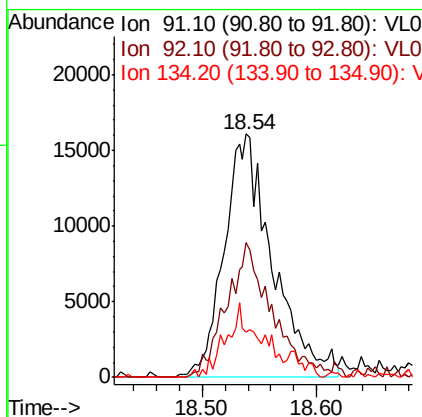
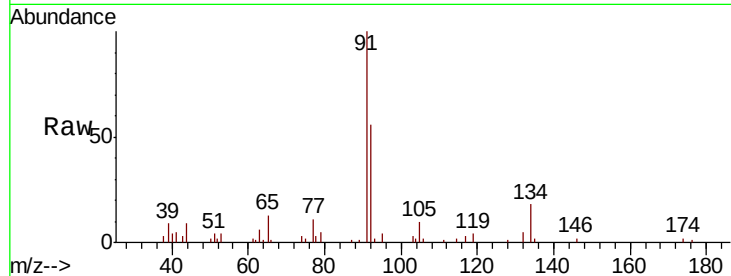
#70
n-Butylbenzene
Concen: 0.090 ppbv m
RT: 18.54 min Scan# 4899
Delta R.T. 0.01 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2021

Tot Ion: 91 Resp: 47006
Ion Ratio Lower Upper
91 100
92 0.0 44.6 66.8#
134 25.7 20.2 30.2

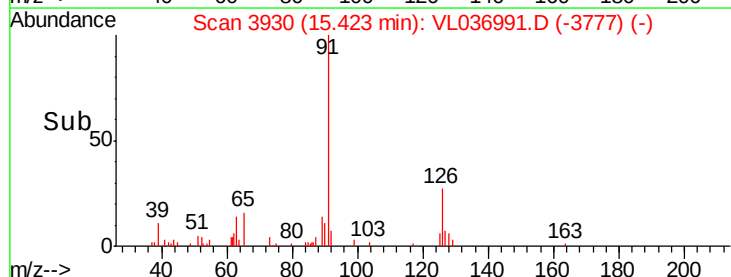
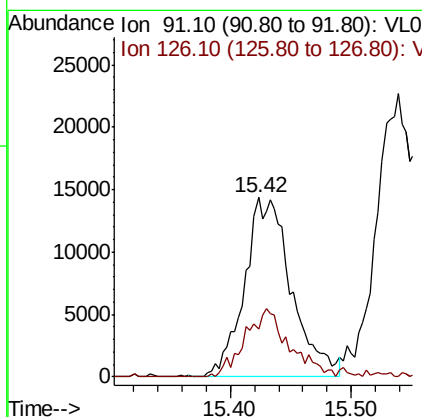
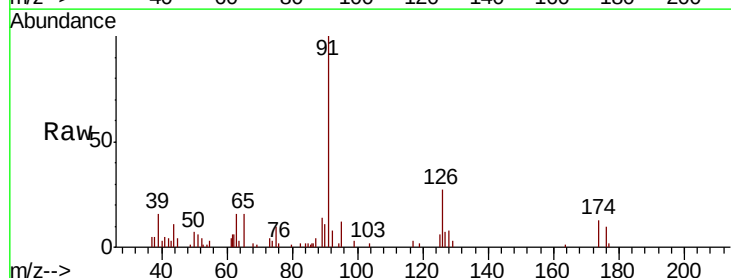
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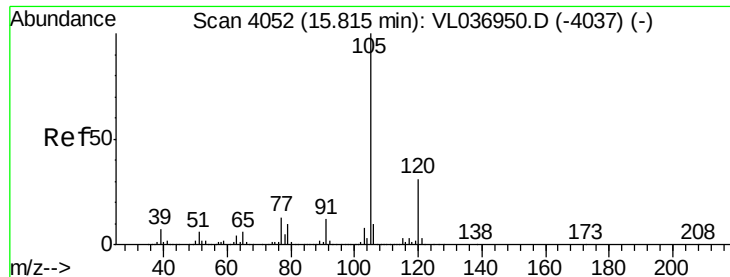
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#71
2-Chlorotoluene
Concen: 0.102 ppbv m
RT: 15.42 min Scan# 3930
Delta R.T. -0.01 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Tgt Ion: 91 Resp: 38370
Ion Ratio Lower Upper
91 100
126 0.0 13.1 52.5#





#72

4-Ethyltoluene

Concen: 0.097 ppbv m

RT: 15.82 min Scan# 4053

Delta R.T. 0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

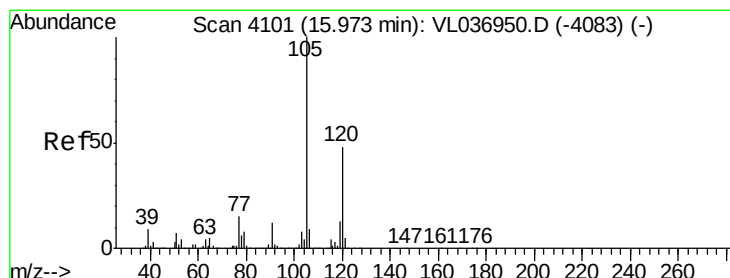
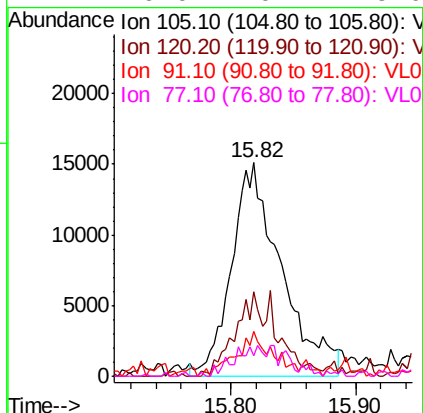
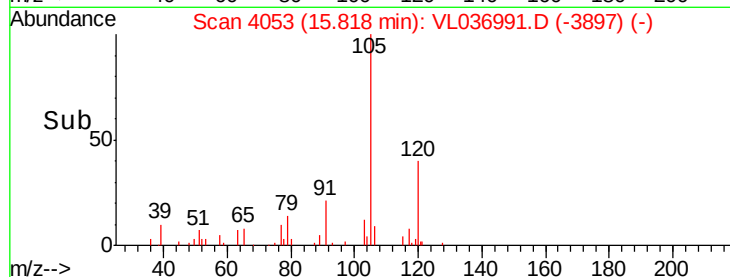
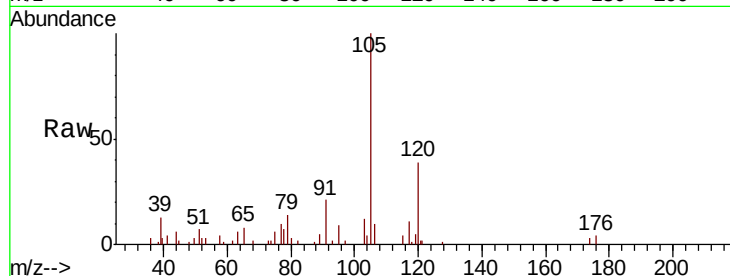
ClientSampleId :

MDL-AIR-03-QT2-2021

Tot Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.6	37.0#
91	0.0	9.8	14.6#
77	0.0	10.4	15.6#

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#73

1,3,5-Trimethylbenzene

Concen: 0.109 ppbv m

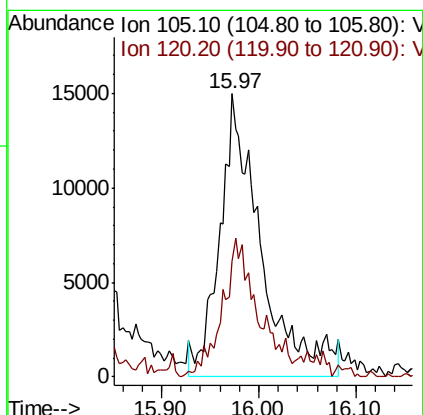
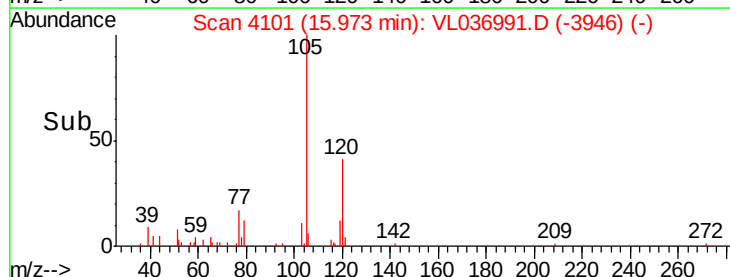
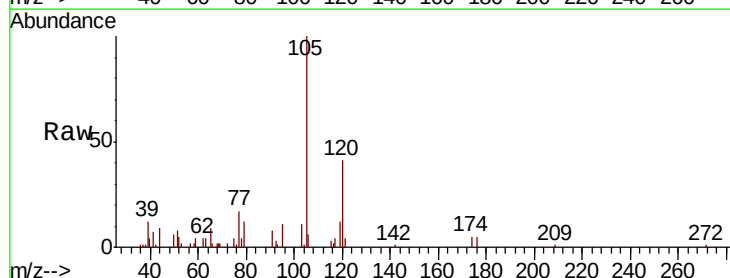
RT: 15.97 min Scan# 4101

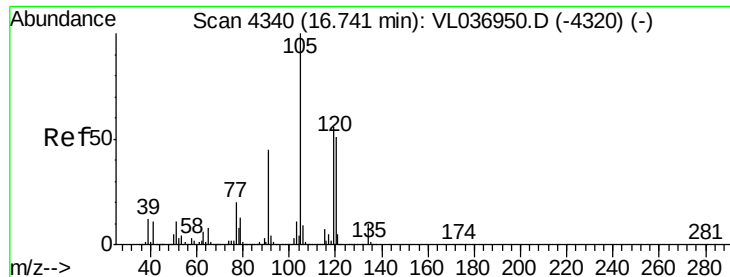
Delta R.T. -0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Tgt Ion	Ratio	Lower	Upper
105	100		
120	40.9	38.6	58.0





#74

1,2,4-Trimethylbenzene

Concen: 0.107 ppbv m

RT: 16.75 min Scan# 4342

Delta R.T. 0.01 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Instrument :

MSVOA_L

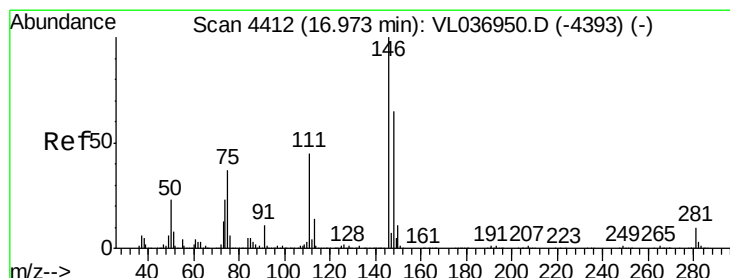
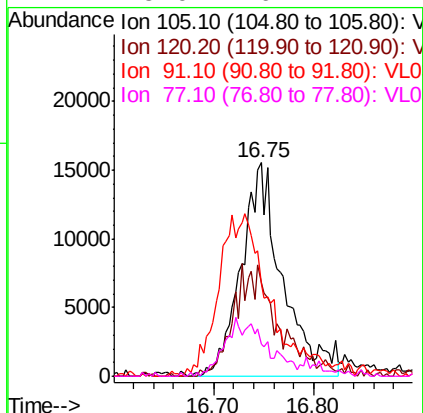
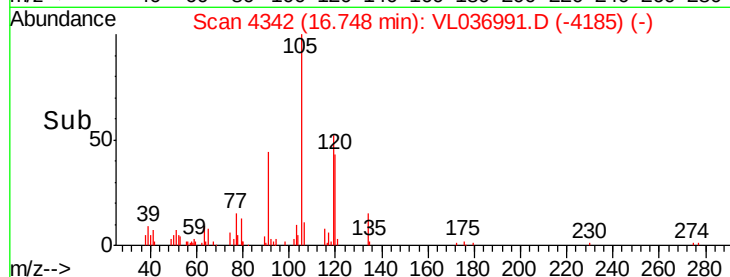
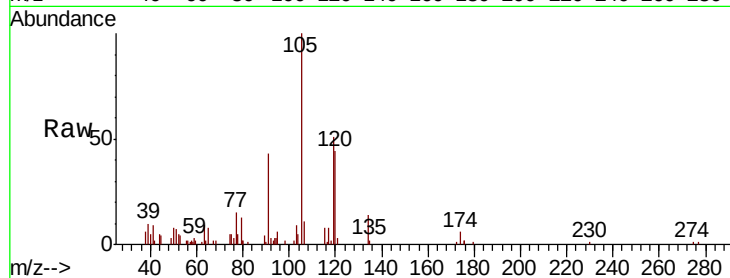
ClientSampleId :

MDL-AIR-03-QT2-2021

Tot Ion	Ratio	Lower	Upper
105	100		
120	43.6	40.6	61.0
91	43.0	37.4	56.0
77	15.0	16.2	24.4

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#75

1,3-Dichlorobenzene

Concen: 0.114 ppbv m

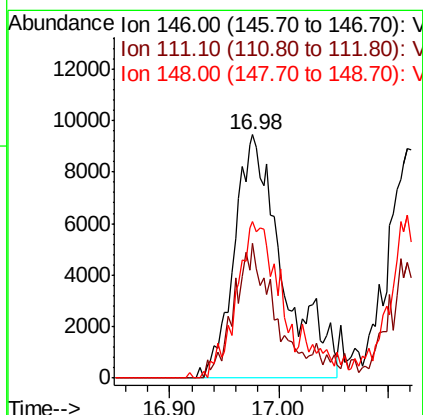
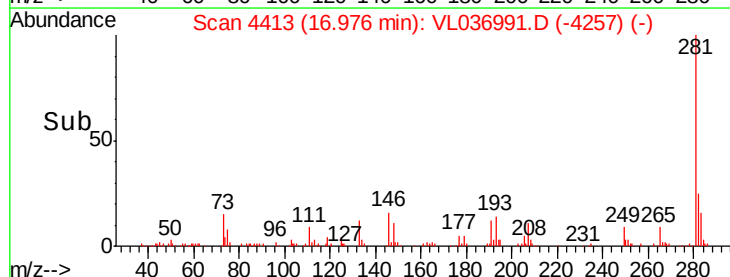
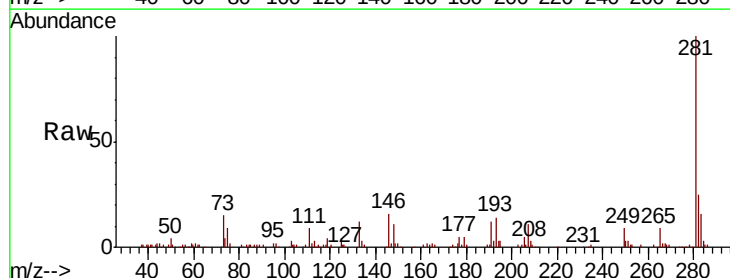
RT: 16.98 min Scan# 4413

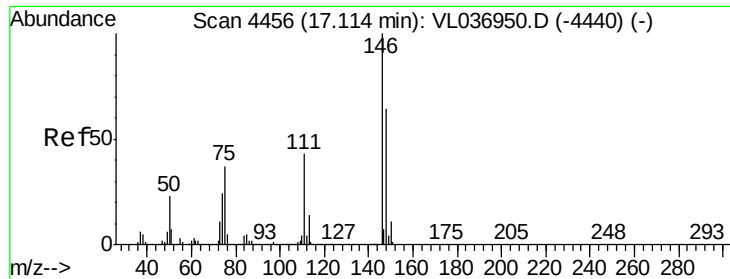
Delta R.T. 0.00 min

Lab File: VL036991.D

Acq: 19 May 2021 14:14

Tgt Ion	Ratio	Lower	Upper
146	100		
111	49.7	22.2	66.6
148	64.9	32.3	96.8





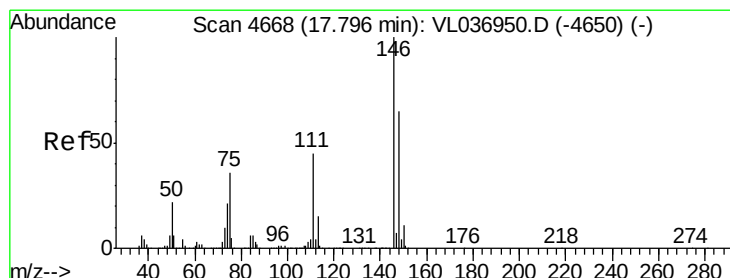
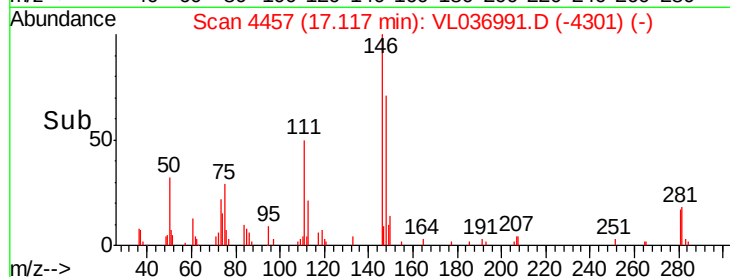
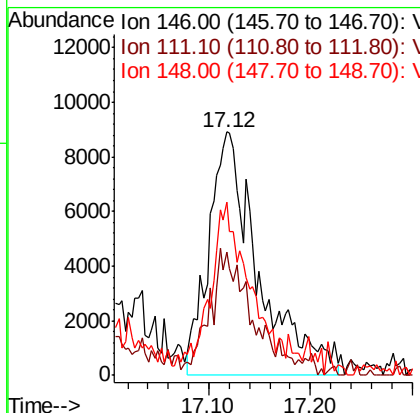
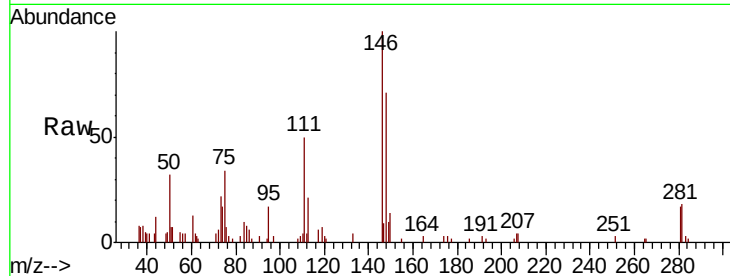
#76
 1,4-Dichlorobenzene
 Concen: 0.118 ppbv m
 RT: 17.12 min Scan# 4457
 Delta R.T. 0.00 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-03-QT2-2021

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.7	22.6	67.7
148	66.3	33.5	100.5

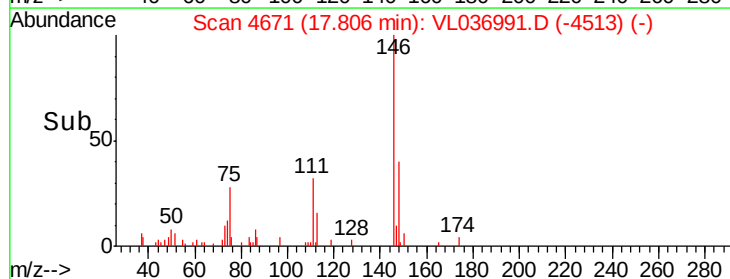
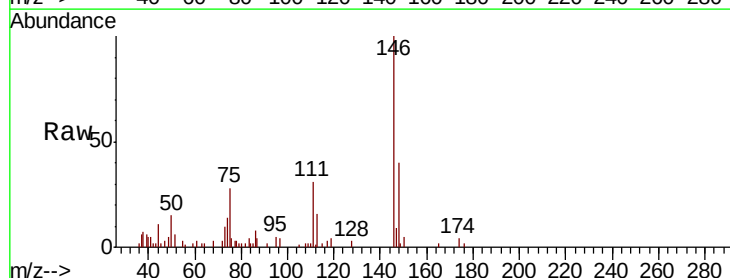
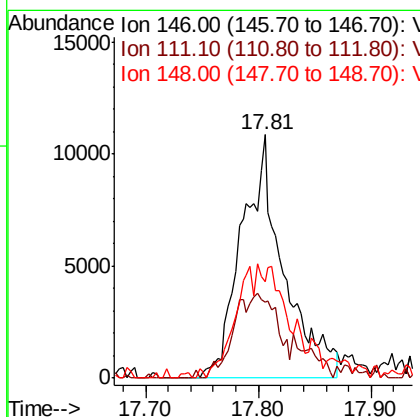
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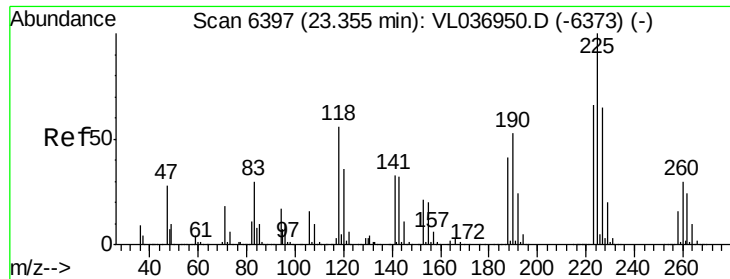
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#77
 1,2-Dichlorobenzene
 Concen: 0.110 ppbv m
 RT: 17.81 min Scan# 4671
 Delta R.T. 0.01 min
 Lab File: VL036991.D
 Acq: 19 May 2021 14:14

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.1	69.2#
148	0.0	32.5	97.4#





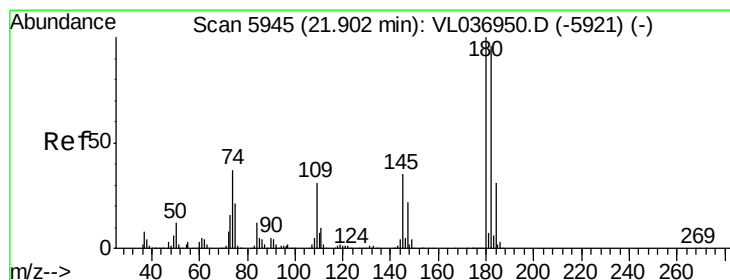
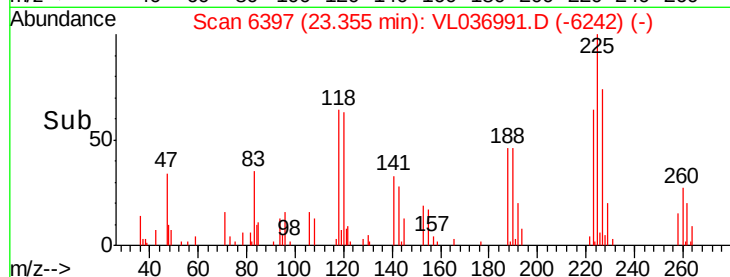
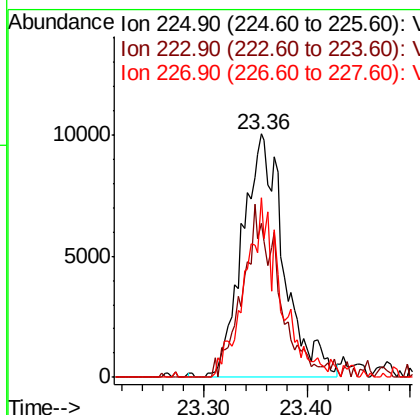
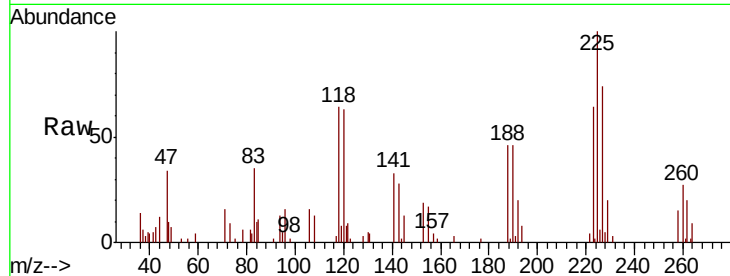
#78
Hexachloro-1,3-Butadiene
Concen: 0.138 ppbv m
RT: 23.36 min Scan# 6397
Delta R.T. -0.00 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-03-QT2-2021

Tot Ion	Ratio	Lower	Upper
225	100		
223	63.5	51.9	77.9
227	64.8	51.8	77.6

Manual Integrations
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#81
1,2,4-Trichlorobenzene
Concen: 0.082 ppbv m
RT: 21.92 min Scan# 5951
Delta R.T. 0.02 min
Lab File: VL036991.D
Acq: 19 May 2021 14:14

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	81.7	122.5#
184	30.9	24.9	37.3

