

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101920\
 Data File : VL035796.D
 Acq On : 19 Oct 2020 16:19
 Operator : SY/AP
 Sample : L4214-15 MDL 0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT4-2020

Quant Time: Oct 20 08:33:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1082249	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.16	114	3979515	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.08	117	3956167	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2982599	10.06	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	27462	0.155	ppbv	96
3) Chlorodifluoromethane	2.97	51	14930	0.128	ppbv	98
4) Chloromethane	3.12	50	7964	0.127	ppbv	93
5) Vinyl Chloride	3.24	62	8443	0.114	ppbv #	86
6) Bromomethane	3.45	94	7650m	0.122	ppbv	
7) Chloroethane	3.54	64	3186m	0.117	ppbv	
8) Dichlorotetrafluoroethane	3.17	85	27057	0.126	ppbv	98
9) Propene	2.99	41	6761	0.160	ppbv	87
10) Heptane	8.11	43	6315	0.054	ppbv	99
11) Trichlorofluoromethane	3.93	101	31669	0.125	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	23218	0.123	ppbv	97
13) Ethanol	3.60	45	2214m	0.212	ppbv	
14) Bromoethene	3.72	108	7612	0.096	ppbv #	91
15) Acetone	3.85	43	29551	0.254	ppbv #	72
16) 1,3-Butadiene	3.31	39	4985m	0.117	ppbv	
17) tert-Butyl alcohol	4.30	59	15797	0.125	ppbv	99
18) 1,1-Dichloroethene	4.27	96	9331	0.113	ppbv	87
19) Isopropyl Alcohol	3.97	45	9429m	0.149	ppbv	
20) Methylene Chloride	4.33	84	22323	0.261	ppbv	94
21) Allyl Chloride	4.40	41	6129m	0.109	ppbv	
22) trans-1,2-Dichloroethene	4.86	96	11167	0.128	ppbv #	78
23) Vinyl Acetate	5.06	43	14250	0.100	ppbv #	82
24) 1,1-Dichloroethane	4.99	63	18787	0.121	ppbv	97
25) Ethyl Acetate	5.67	43	22831	0.109	ppbv #	96
26) Hexane	5.67	57	11548	0.101	ppbv #	81
27) Carbon Disulfide	4.53	76	18195	0.106	ppbv #	79
28) Methyl tert-Butyl Ether	5.04	73	15262	0.084	ppbv	99
29) Chloroform	5.73	83	29182	0.125	ppbv	88
30) Cyclohexane	7.14	84	22619m	0.200	ppbv	
31) cis-1,2-Dichloroethene	5.53	61	8447	0.076	ppbv #	80
32) 1,1,1-Trichloroethane	6.49	97	20805	0.101	ppbv	96
34) 2-Butanone	5.25	43	12056	0.092	ppbv	100
35) Carbon Tetrachloride	7.00	117	22064	0.106	ppbv #	95
36) Benzene	6.87	78	19108	0.074	ppbv #	91
37) 1,2-Dichloroethane	6.29	62	14923	0.110	ppbv	100
38) Trichloroethene	7.82	130	12591	0.097	ppbv #	73
39) 1,2-Dichloropropane	7.59	63	10617	0.113	ppbv #	84
40) 1,4-Dioxane	7.87	88	3541m	0.082	ppbv	
41) Tetrahydrofuran	6.07	42	3807m	0.057	ppbv	
42) Bromodichloromethane	7.78	83	22597	0.104	ppbv #	81
43) Methyl Methacrylate	8.01	69	5959m	0.058	ppbv	

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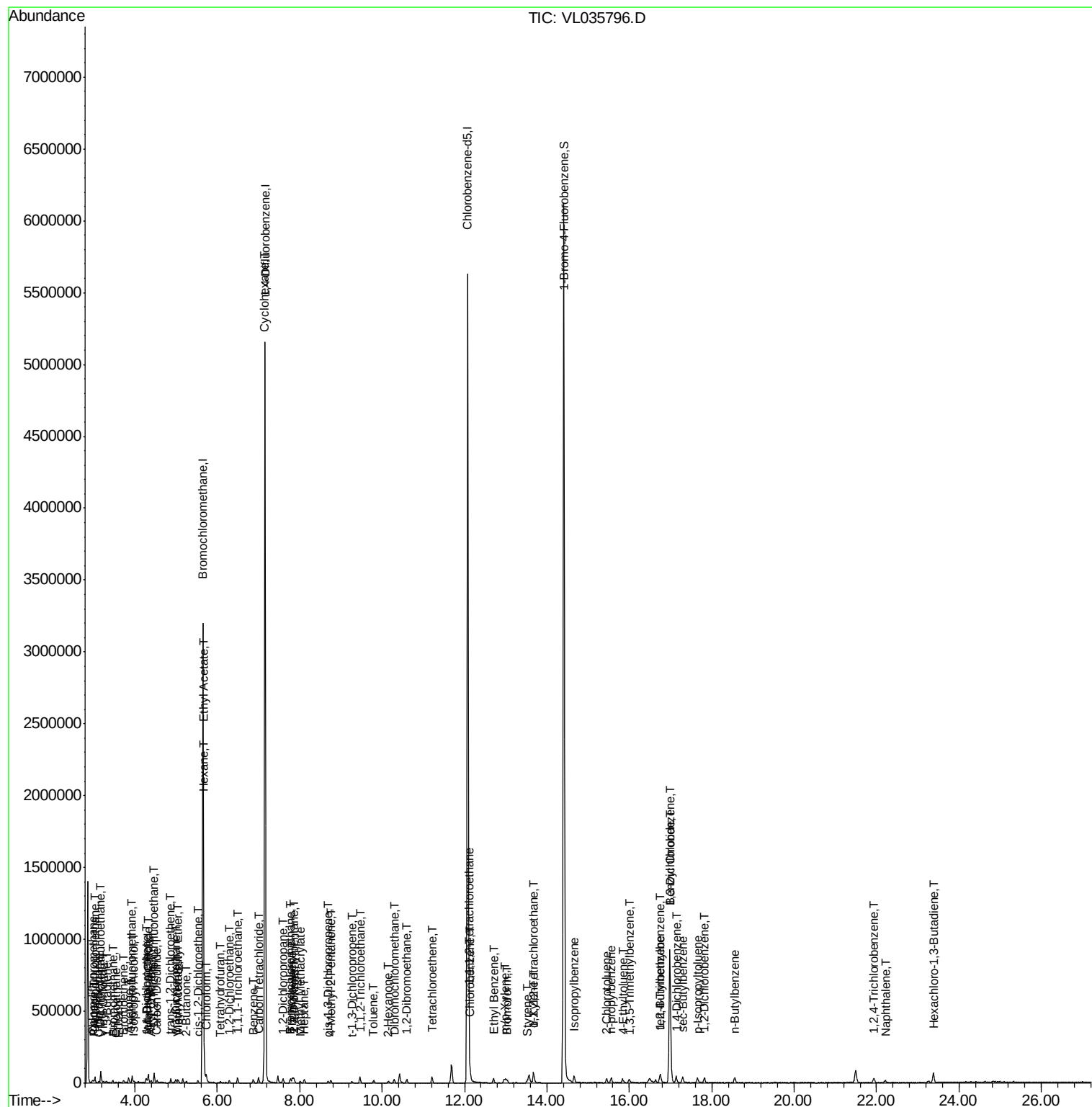
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	23336	0.063	ppbv	# 78
45) t-1,3-Dichloropropene	9.27	75	6695m	0.064	ppbv	
46) cis-1,3-Dichloropropene	8.69	75	8015	0.062	ppbv	# 89
47) 1,1,2-Trichloroethane	9.47	97	14021	0.104	ppbv	# 89
48) Dibromochloromethane	10.29	129	16001	0.078	ppbv	98
49) Bromoform	13.03	173	12628	0.073	ppbv	96
50) 4-Methyl-2-Pentanone	8.75	43	13259m	0.069	ppbv	
51) 2-Hexanone	10.15	43	9199m	0.059	ppbv	
52) Tetrachloroethene	11.21	164	11889m	0.095	ppbv	
53) Toluene	9.79	91	18370m	0.060	ppbv	
54) 1,2-Dibromoethane	10.60	107	18920	0.094	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.12	131	18125	0.109	ppbv	# 1
57) Chlorobenzene	12.13	112	35528	0.119	ppbv	# 94
58) Ethyl Benzene	12.70	91	23651m	0.060	ppbv	
59) m/p-Xylene	12.99	91	40583m	0.117	ppbv	
60) o-Xylene	13.68	91	25161m	0.072	ppbv	
61) Styrene	13.52	104	11272m	0.046	ppbv	
62) Isopropylbenzene	14.66	105	34225	0.063	ppbv	95
63) 1,1,2,2-Tetrachloroethane	13.67	83	32300	0.112	ppbv	99
64) n-propylbenzene	15.56	120	7030m	0.044	ppbv	
65) tert-Butylbenzene	16.75	119	27302m	0.055	ppbv	
66) Benzyl Chloride	16.99	91	15157m	0.101	ppbv	
67) sec-Butylbenzene	17.29	105	36289m	0.053	ppbv	
69) p-Isopropyltoluene	17.66	119	25146m	0.045	ppbv	
70) n-Butylbenzene	18.55	91	30273m	0.053	ppbv	
71) 2-Chlorotoluene	15.45	91	24827m	0.063	ppbv	
72) 4-Ethyltoluene	15.83	105	20065m	0.048	ppbv	
73) 1,3,5-Trimethylbenzene	16.00	105	19661m	0.050	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	25792m	0.058	ppbv	
75) 1,3-Dichlorobenzene	16.99	146	39787m	0.132	ppbv	
76) 1,4-Dichlorobenzene	17.14	146	26041m	0.090	ppbv	
77) 1,2-Dichlorobenzene	17.82	146	22705m	0.080	ppbv	
78) Hexachloro-1,3-Butadiene	23.38	225	17350m	0.110	ppbv	
79) Naphthalene	22.21	128	20776m	0.049	ppbv	
81) 1,2,4-Trichlorobenzene	21.94	180	15567m	0.071	ppbv	

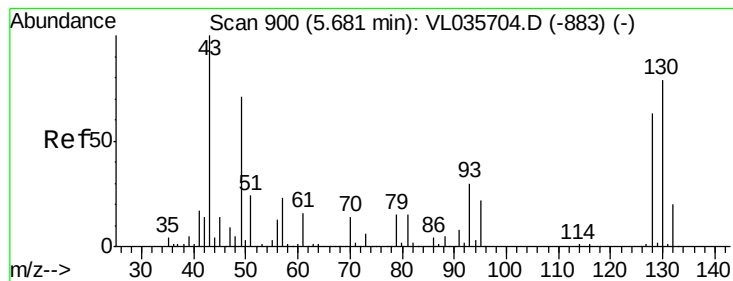
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.03 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

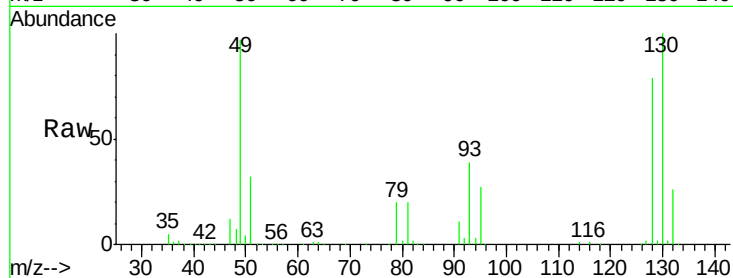
Tot Ion: 49 Resp: 1082249

Ion Ratio Lower Upper

49 100

128 82.4 43.1 129.4

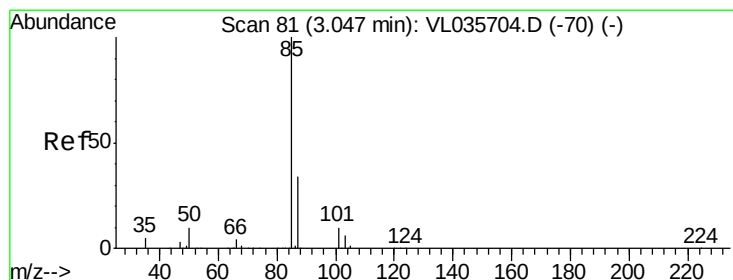
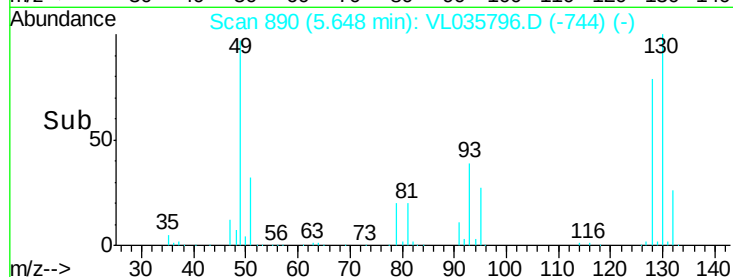
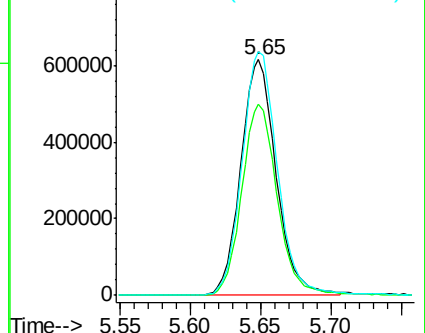
130 104.7 54.9 164.7



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: 0.155 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.02 min

Lab File: VL035796.D

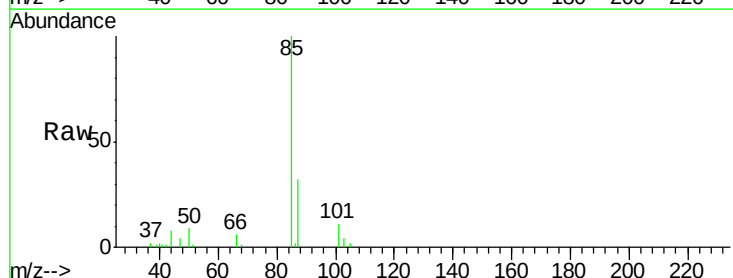
Acq: 19 Oct 2020 16:19

Tgt Ion: 85 Resp: 27462

Ion Ratio Lower Upper

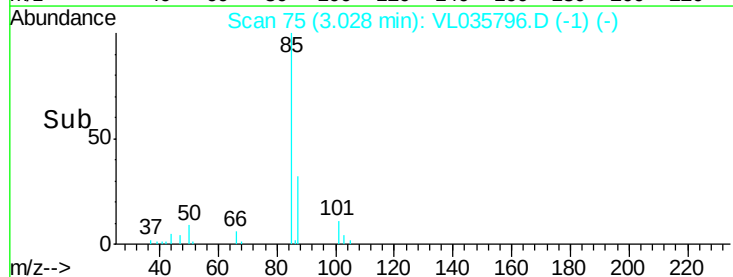
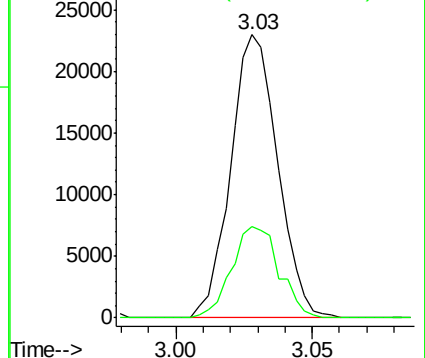
85 100

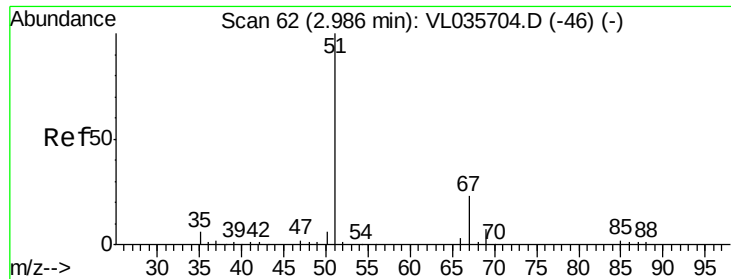
87 32.1 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.128 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.02 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

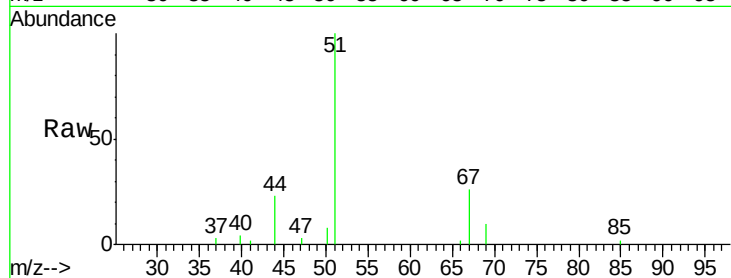
MDL-AIR-01-QT4-2020

Tot Ion: 51 Resp: 14930

Ion Ratio Lower Upper

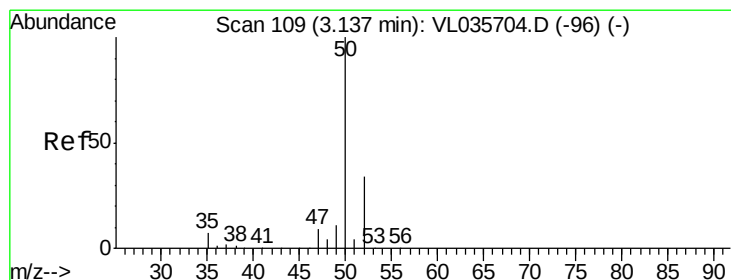
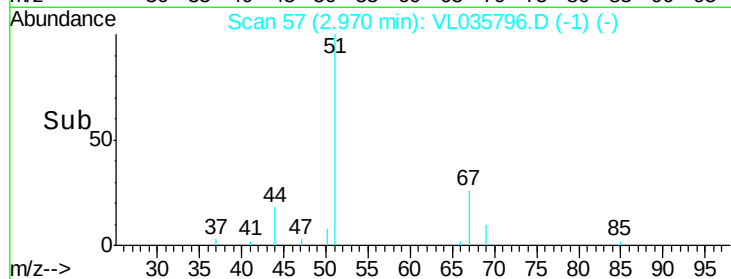
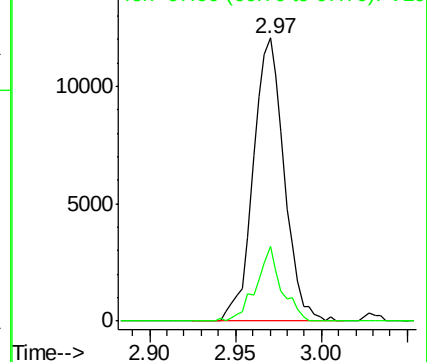
51 100

67 21.5 17.8 26.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.127 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.01 min

Lab File: VL035796.D

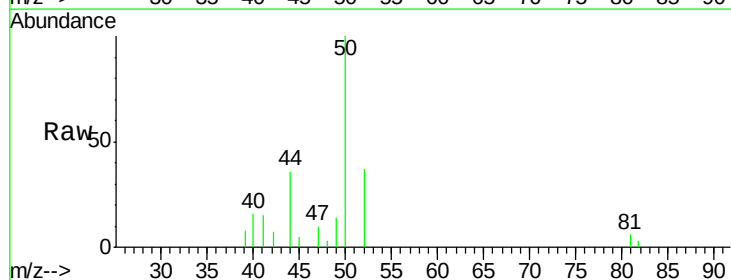
Acq: 19 Oct 2020 16:19

Tgt Ion: 50 Resp: 7964

Ion Ratio Lower Upper

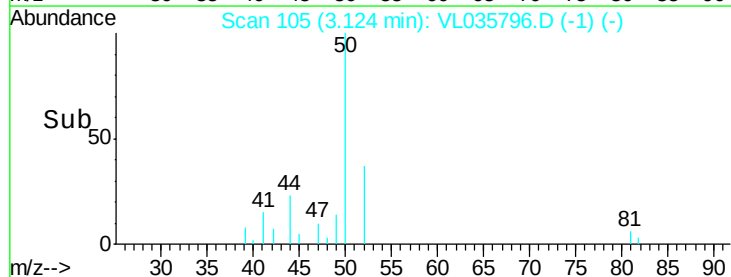
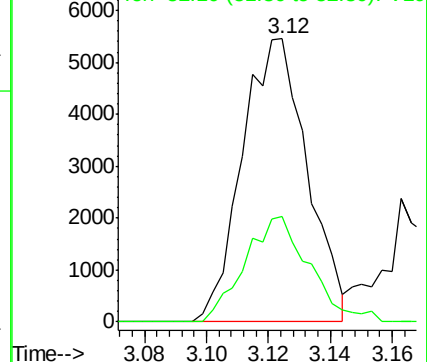
50 100

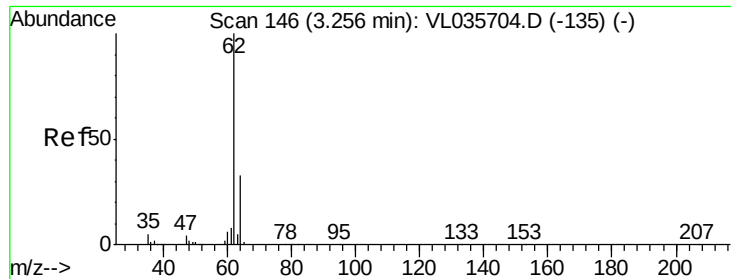
52 37.3 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.114 ppbv

RT: 3.24 min Scan# 140

Delta R.T. -0.02 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

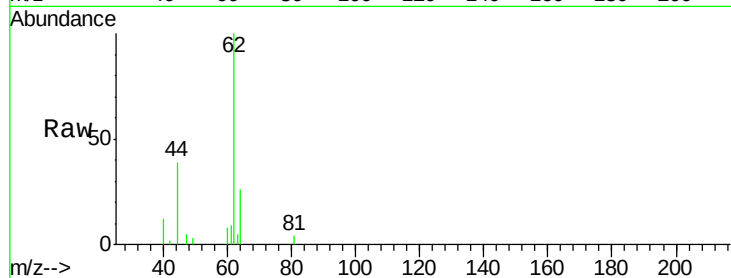
MDL-AIR-01-QT4-2020

Tot Ion: 62 Resp: 8443

Ion Ratio Lower Upper

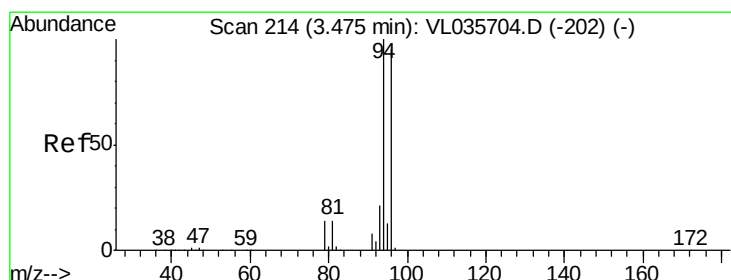
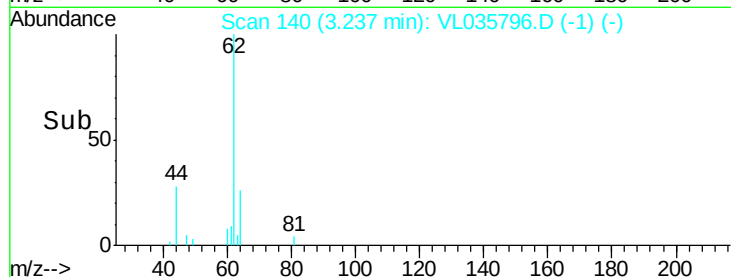
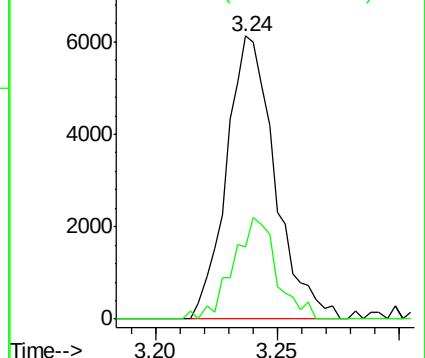
62 100

64 25.6 26.8 40.2#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.122 ppbv m

RT: 3.45 min Scan# 207

Delta R.T. -0.02 min

Lab File: VL035796.D

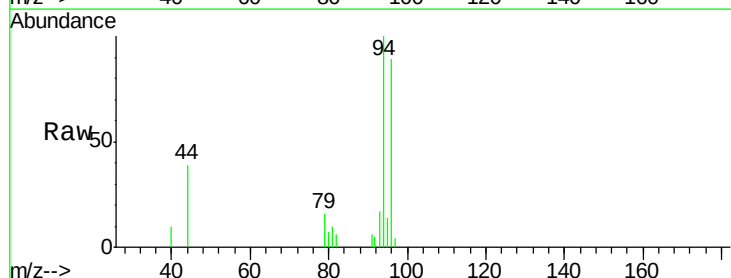
Acq: 19 Oct 2020 16:19

Tgt Ion: 94 Resp: 7650

Ion Ratio Lower Upper

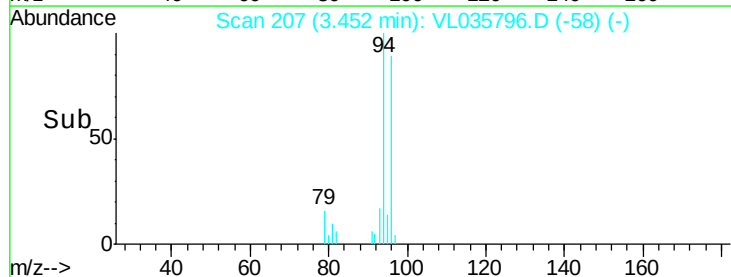
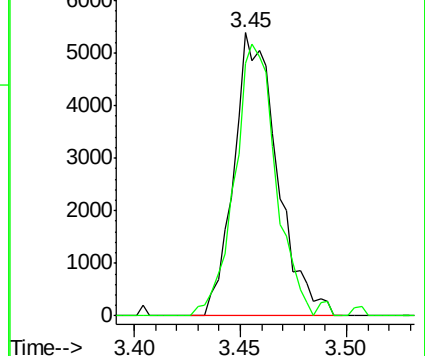
94 100

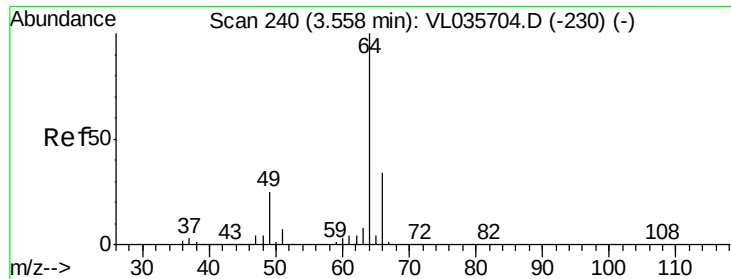
96 89.4 76.3 114.5



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.117 ppbv m

RT: 3.54 min Scan# 233

Delta R.T. -0.02 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

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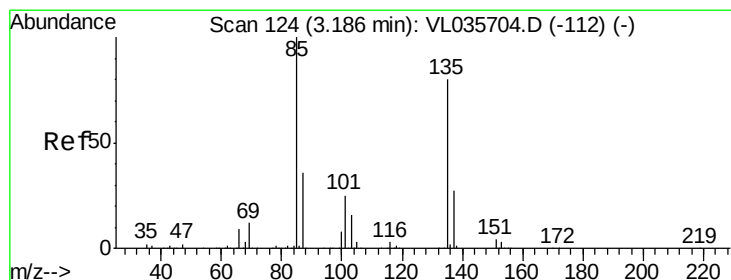
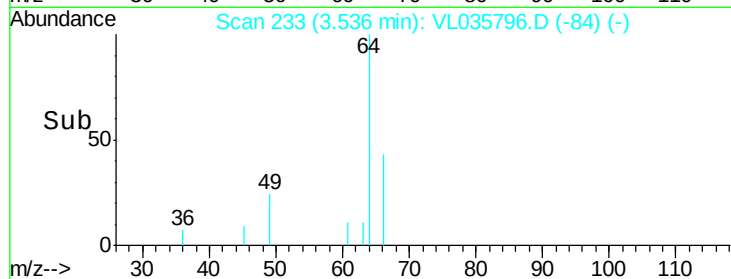
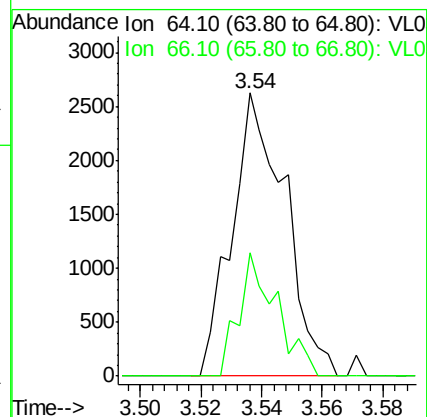
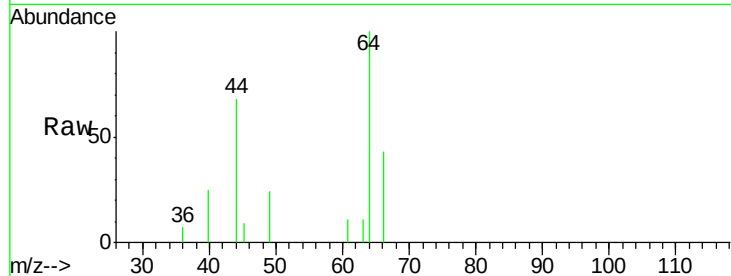
MDL-AIR-01-QT4-2020

Tot Ion: 64 Resp: 3186

Ion Ratio Lower Upper

64 100

66 43.4 26.9 40.3#



#8

Dichlorotetrafluoroethane

Concen: 0.126 ppbv

RT: 3.17 min Scan# 119

Delta R.T. -0.02 min

Lab File: VL035796.D

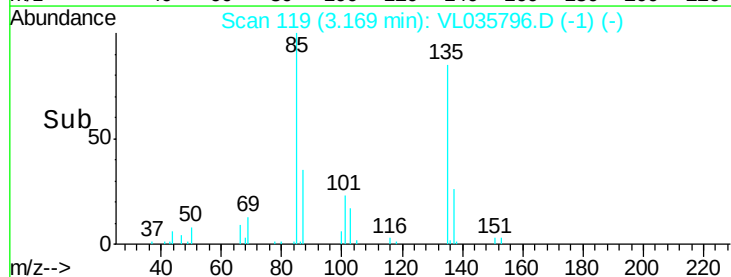
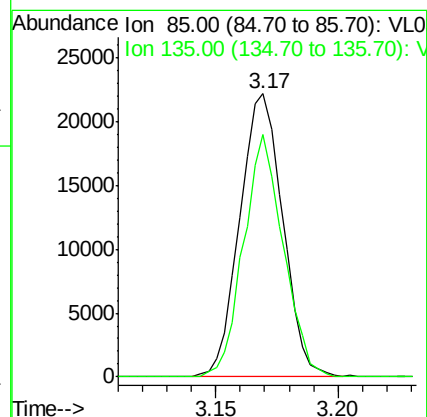
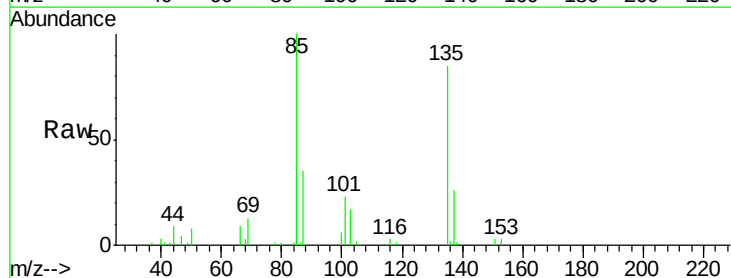
Acq: 19 Oct 2020 16:19

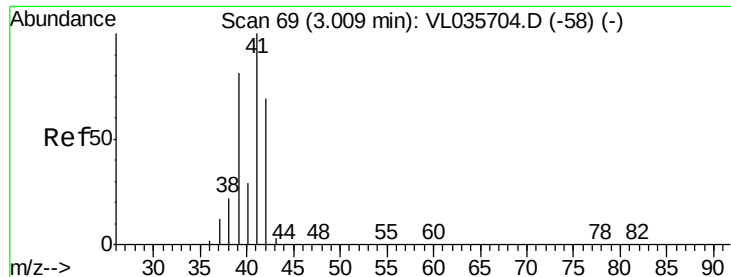
Tgt Ion: 85 Resp: 27057

Ion Ratio Lower Upper

85 100

135 79.0 64.3 96.5





#9

Propene

Concen: 0.160 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.02 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

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ClientSampleId :

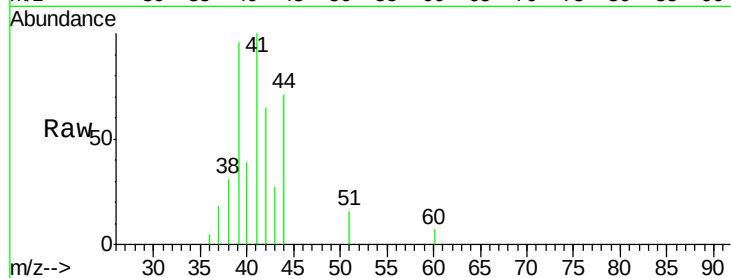
MDL-AIR-01-QT4-2020

Tot Ion: 41 Resp: 6761

Ion Ratio Lower Upper

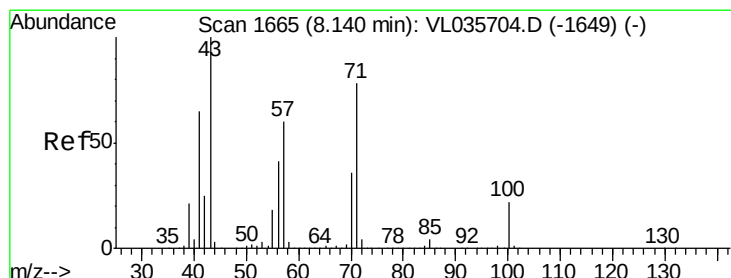
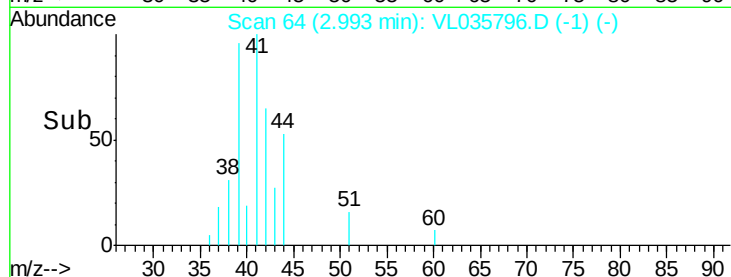
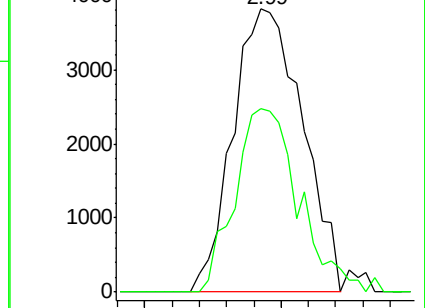
41 100

42 59.8 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.054 ppbv

RT: 8.11 min Scan# 1656

Delta R.T. -0.03 min

Lab File: VL035796.D

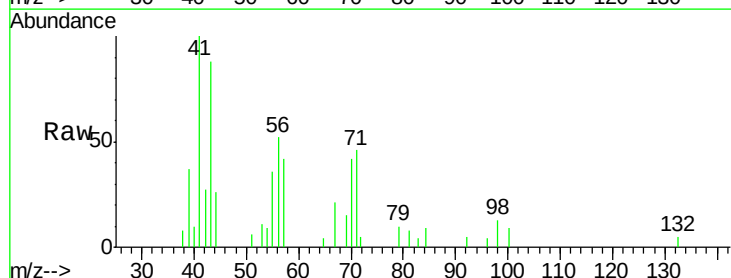
Acq: 19 Oct 2020 16:19

Tgt Ion: 43 Resp: 6315

Ion Ratio Lower Upper

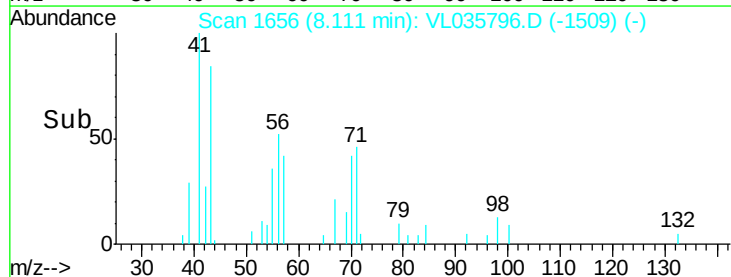
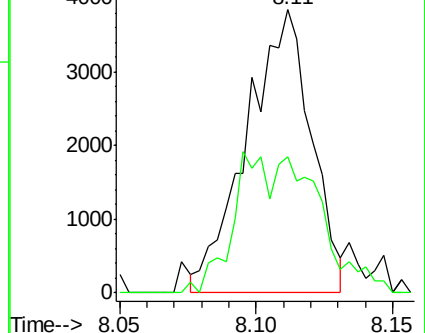
43 100

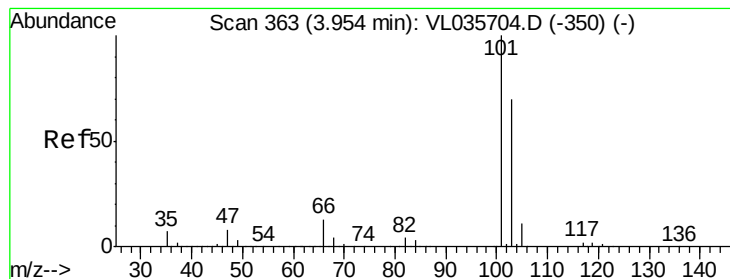
57 64.0 50.4 75.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.125 ppbv

RT: 3.93 min Scan# 356

Delta R.T. -0.02 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

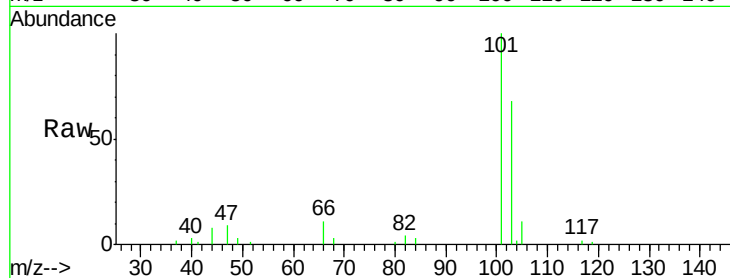
MDL-AIR-01-QT4-2020

Tot Ion:101 Resp: 31669

Ion Ratio Lower Upper

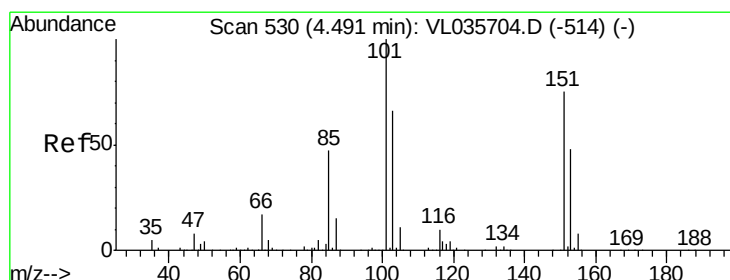
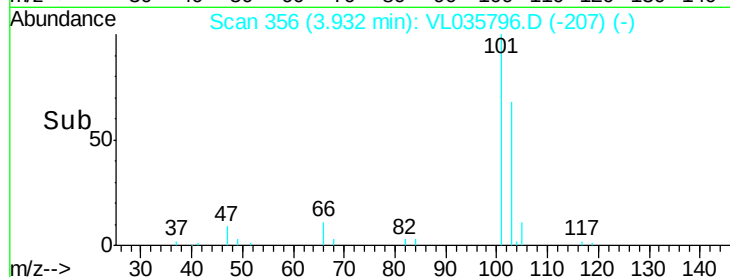
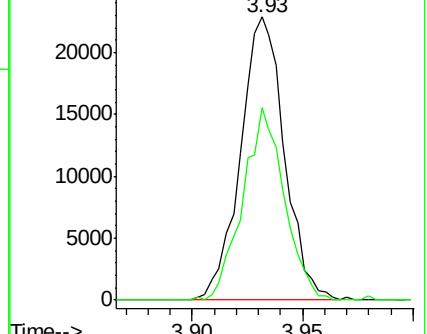
101 100

103 68.0 55.6 83.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.123 ppbv

RT: 4.47 min Scan# 522

Delta R.T. -0.03 min

Lab File: VL035796.D

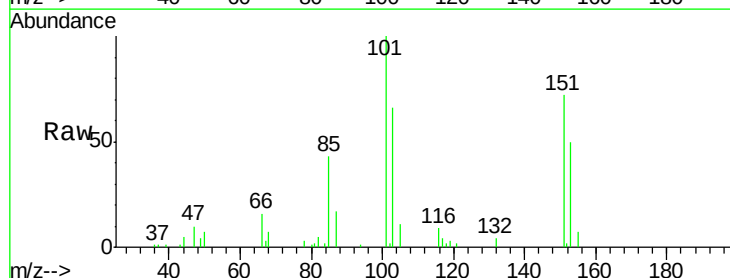
Acq: 19 Oct 2020 16:19

Tgt Ion:101 Resp: 23218

Ion Ratio Lower Upper

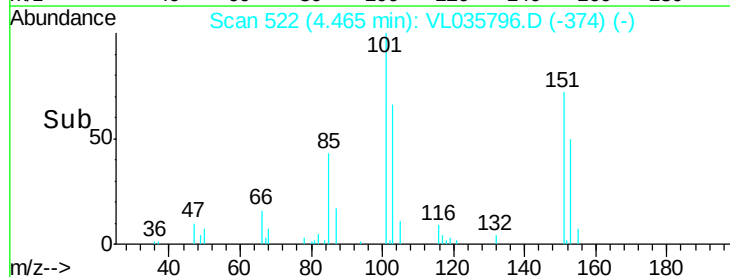
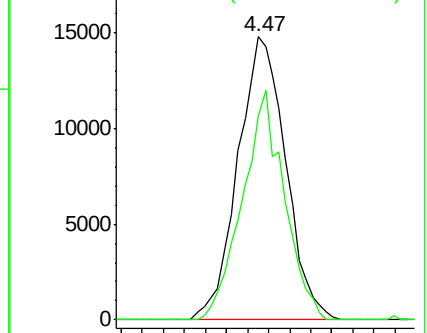
101 100

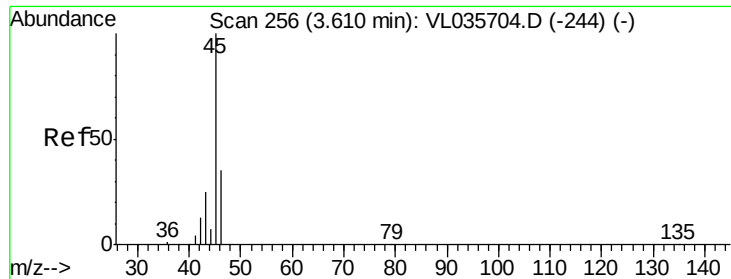
151 71.2 59.1 88.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.212 ppbv m

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

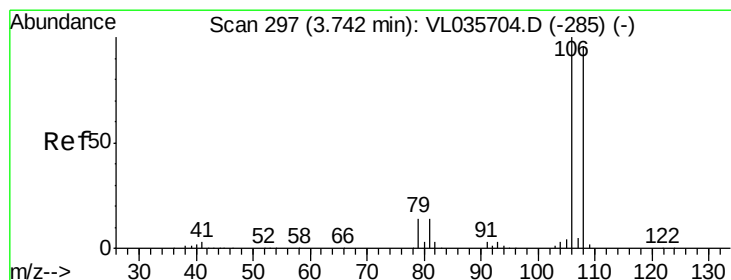
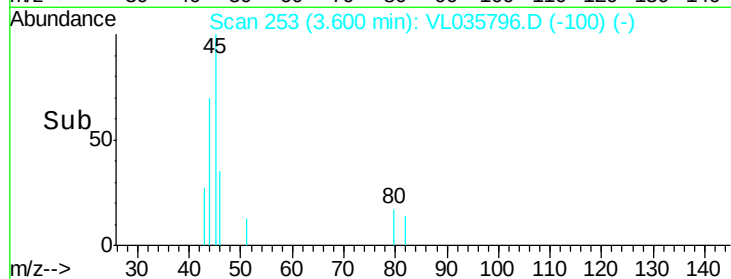
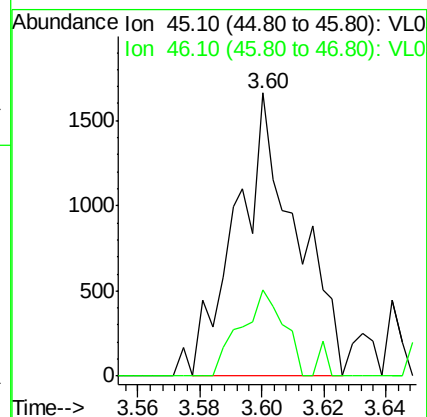
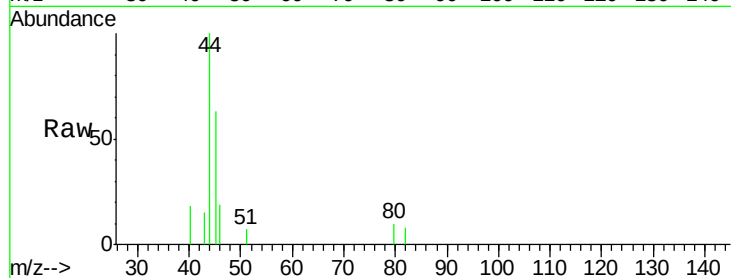
MDL-AIR-01-QT4-2020

Tot Ion: 45 Resp: 2214

Ion Ratio Lower Upper

45 100

46 0.0 14.7 58.7#



#14

Bromoethene

Concen: 0.096 ppbv

RT: 3.72 min Scan# 291

Delta R.T. -0.02 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

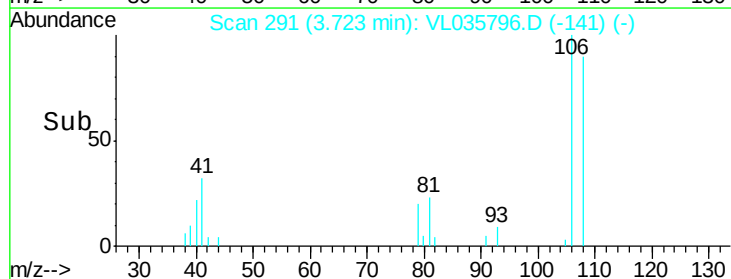
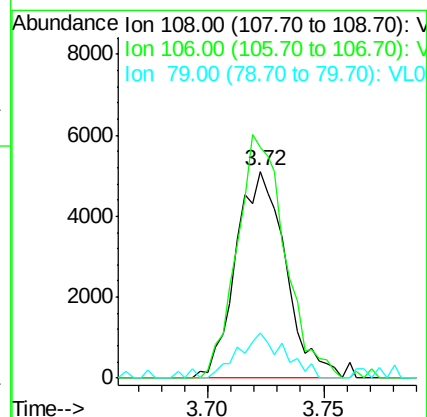
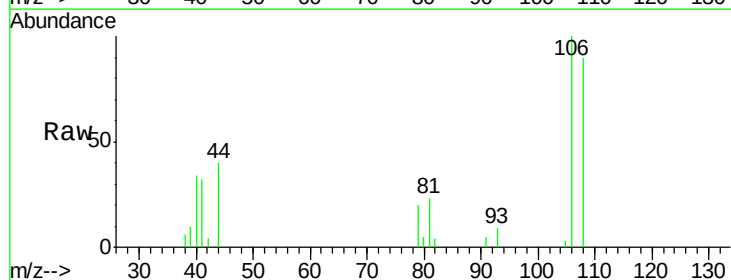
Tgt Ion: 108 Resp: 7612

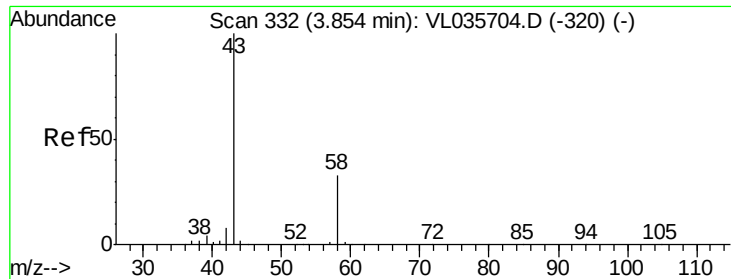
Ion Ratio Lower Upper

108 100

106 114.1 84.6 126.8

79 21.7 11.6 17.4#





#15

Acetone

Concen: 0.254 ppbv

RT: 3.85 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

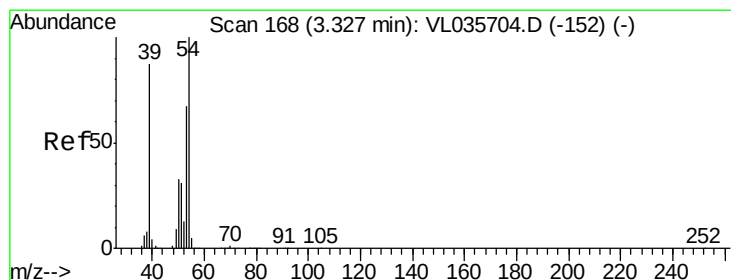
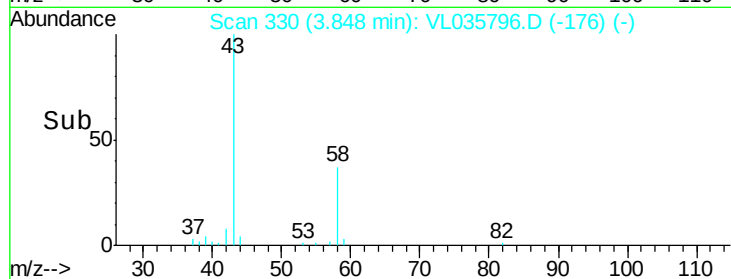
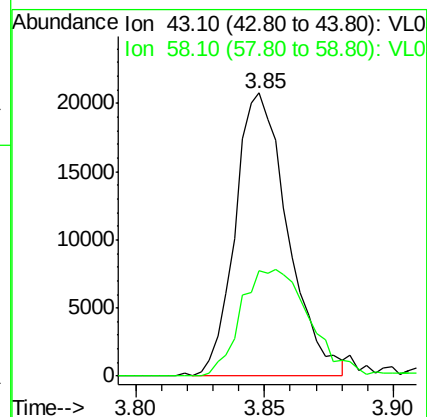
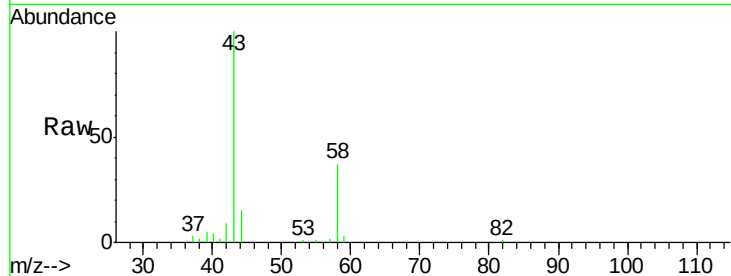
MDL-AIR-01-QT4-2020

Tot Ion: 43 Resp: 29551

Ion Ratio Lower Upper

43 100

58 50.1 27.3 40.9#



#16

1,3-Butadiene

Concen: 0.117 ppbv m

RT: 3.31 min Scan# 164

Delta R.T. -0.01 min

Lab File: VL035796.D

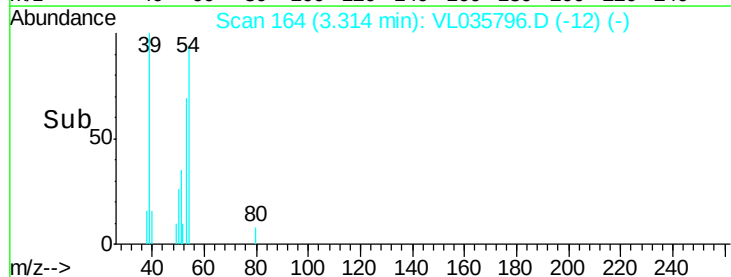
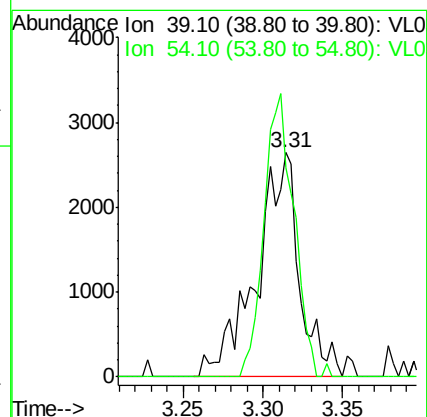
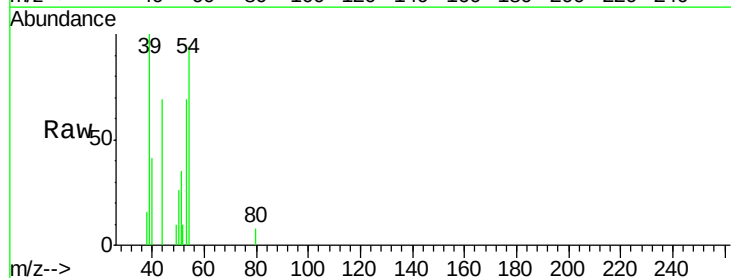
Acq: 19 Oct 2020 16:19

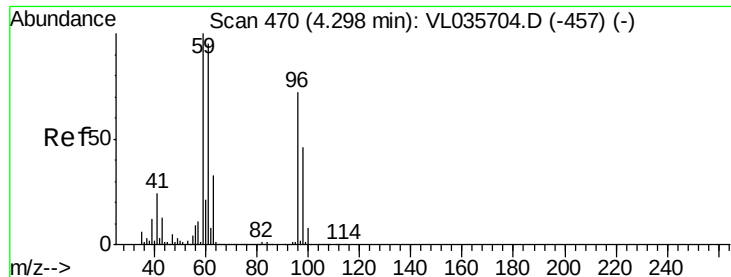
Tgt Ion: 39 Resp: 4985

Ion Ratio Lower Upper

39 100

54 0.0 87.4 131.0#





#17

tert-Butyl alcohol

Concen: 0.125 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.00 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

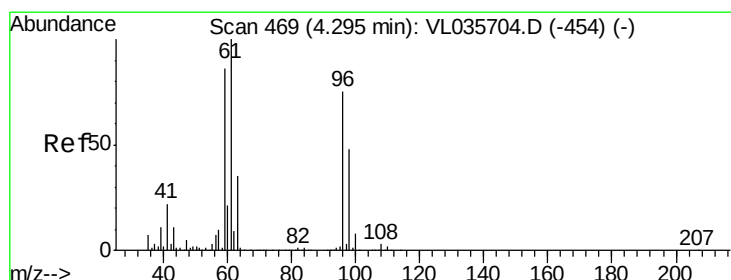
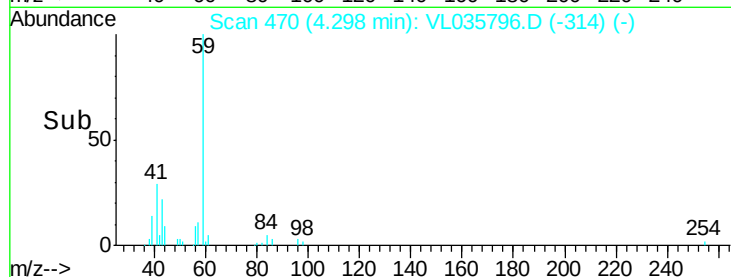
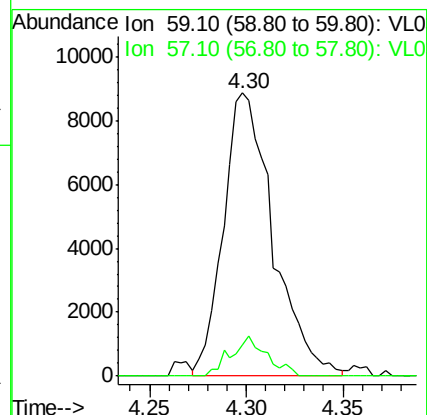
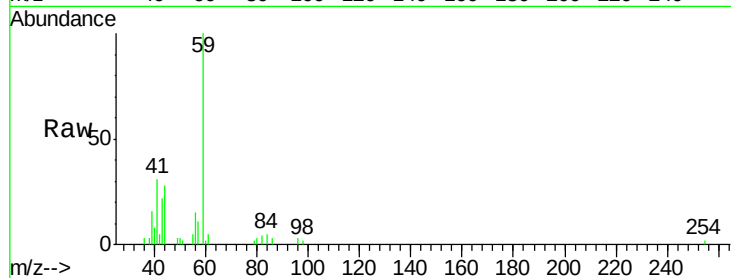
MDL-AIR-01-QT4-2020

Tot Ion: 59 Resp: 15797

Ion Ratio Lower Upper

59 100

57 10.3 8.5 12.7



#18

1,1-Dichloroethene

Concen: 0.113 ppbv

RT: 4.27 min Scan# 462

Delta R.T. -0.02 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

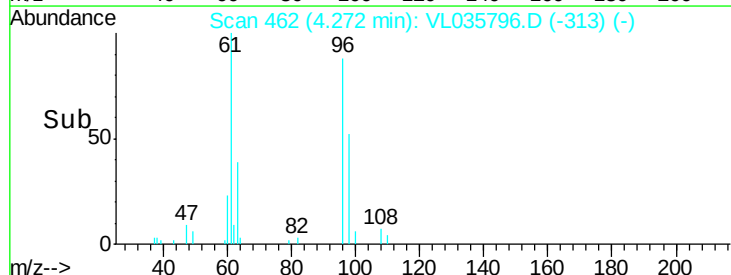
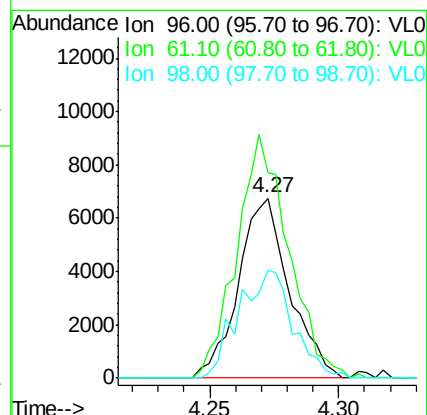
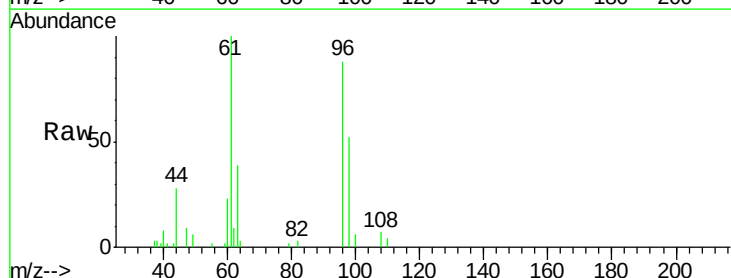
Tgt Ion: 96 Resp: 9331

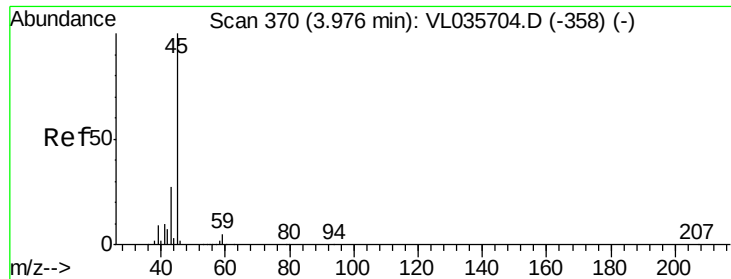
Ion Ratio Lower Upper

96 100

61 114.2 106.7 160.1

98 59.8 50.8 76.2





#19

Isopropyl Alcohol

Concen: 0.149 ppbv m

RT: 3.97 min Scan# 367

Delta R.T. -0.01 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

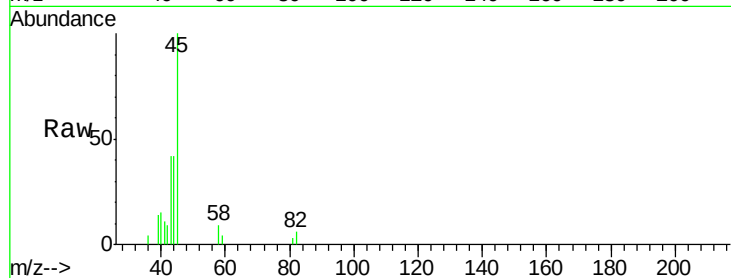
MDL-AIR-01-QT4-2020

Tot Ion: 45 Resp: 9429

Ion Ratio Lower Upper

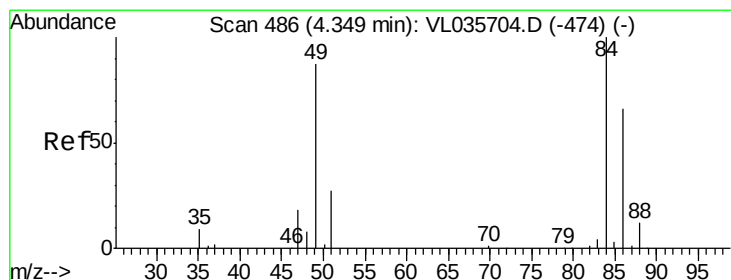
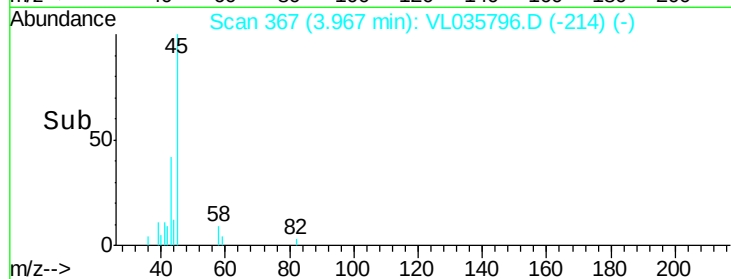
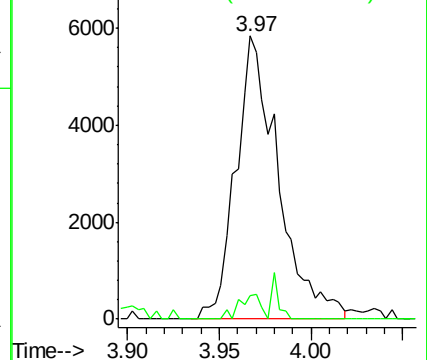
45 100

58 0.0 2.8 4.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.261 ppbv

RT: 4.33 min Scan# 479

Delta R.T. -0.02 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Tgt Ion: 84 Resp: 22323

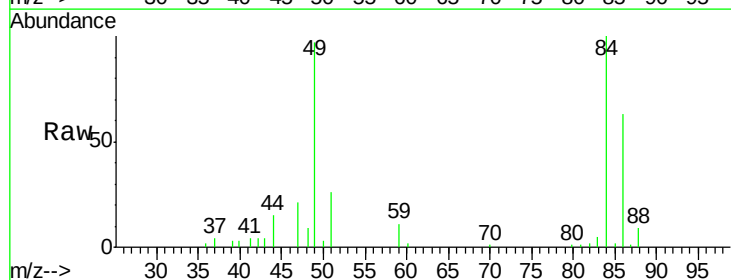
Ion Ratio Lower Upper

84 100

49 95.2 69.8 104.6

51 25.6 21.8 32.8

86 62.8 52.6 78.8

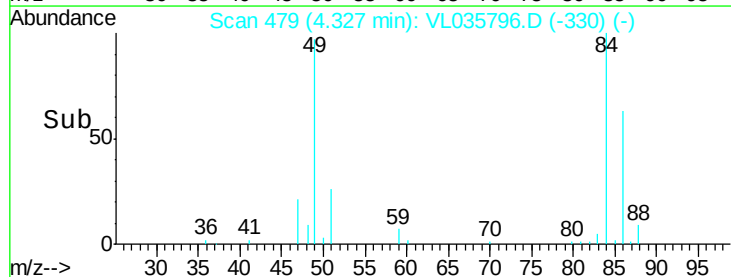
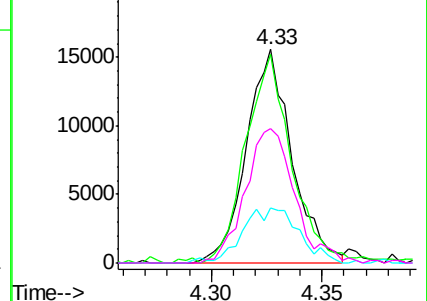


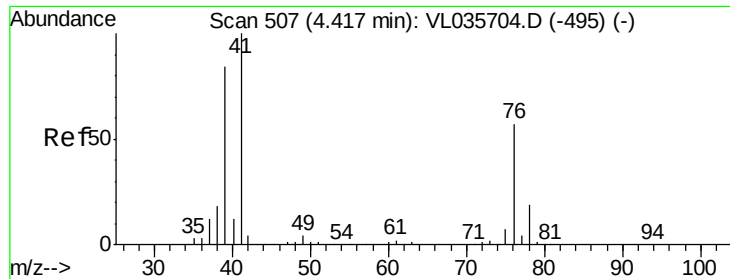
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

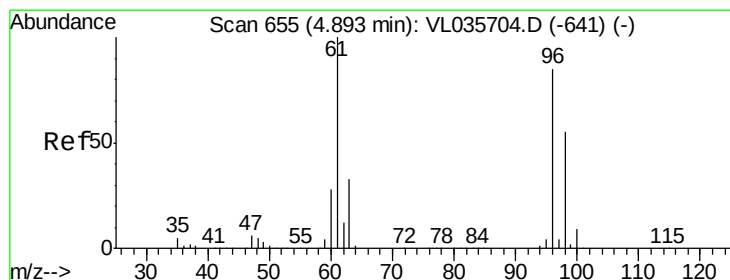
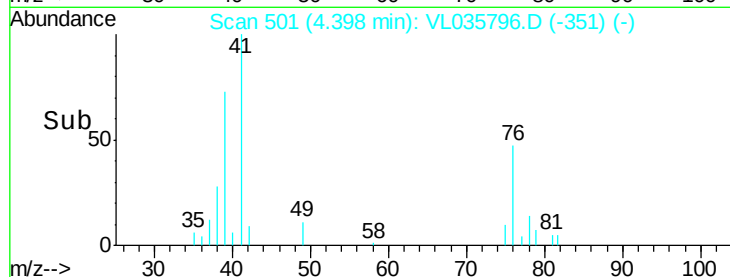
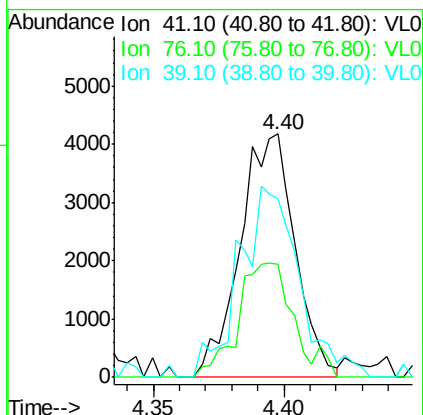
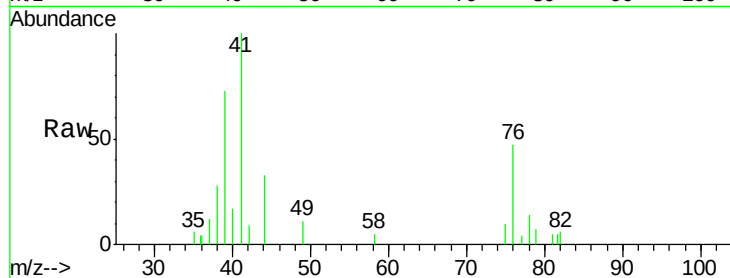




#21
Allvl Chloride
Concen: 0.109 ppbv m
RT: 4.40 min Scan# 501
Delta R.T. -0.02 min
Lab File: VL035796.D
Acq: 19 Oct 2020 16:19

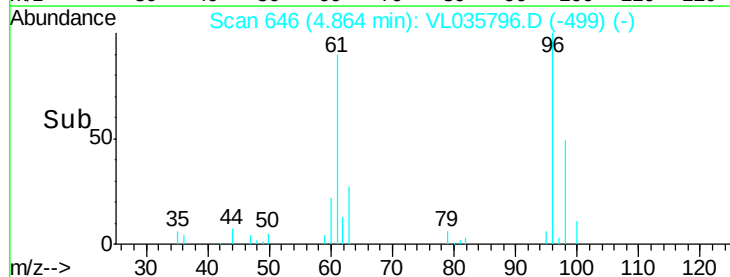
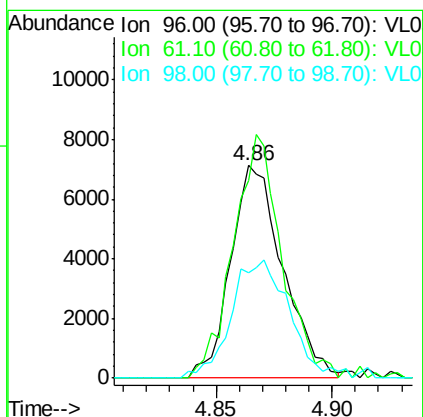
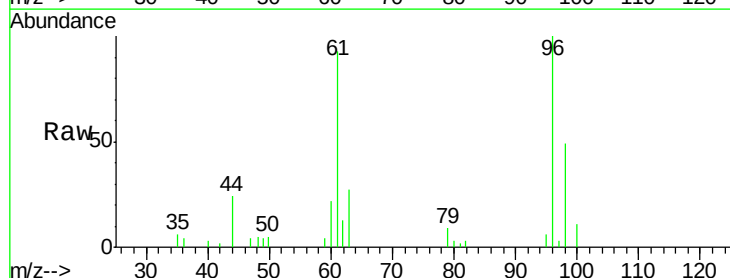
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT4-2020

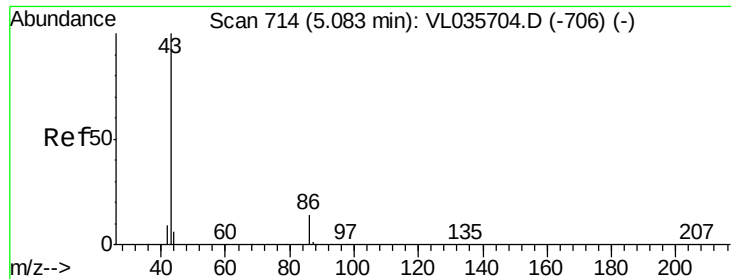
Tot Ion: 41 Resp: 6129
Ion Ratio Lower Upper
41 100
76 47.6 44.8 67.2
39 85.6 68.4 102.6



#22
trans-1,2-Dichloroethene
Concen: 0.128 ppbv
RT: 4.86 min Scan# 646
Delta R.T. -0.03 min
Lab File: VL035796.D
Acq: 19 Oct 2020 16:19

Tgt Ion: 96 Resp: 11167
Ion Ratio Lower Upper
96 100
61 92.8 93.7 140.5#
98 46.4 51.2 76.8#





#23

Vinyl Acetate

Concen: 0.100 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.02 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

Tot Ion: 43 Resp: 14250

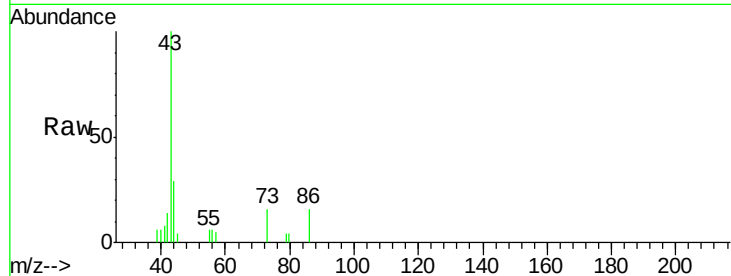
Ion Ratio Lower Upper

43 100

86 17.1 9.7 14.5#

42 15.0 7.9 11.9#

44 18.6 4.8 7.2#

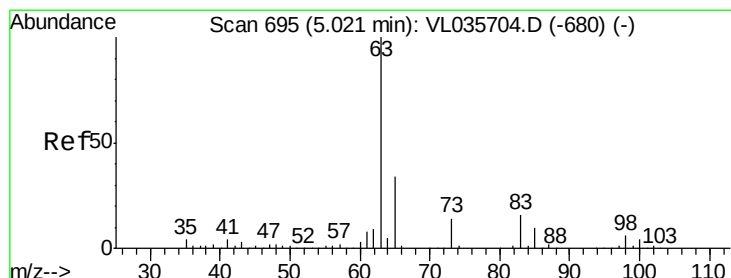
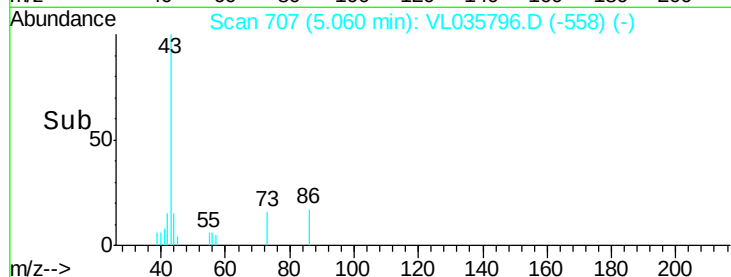
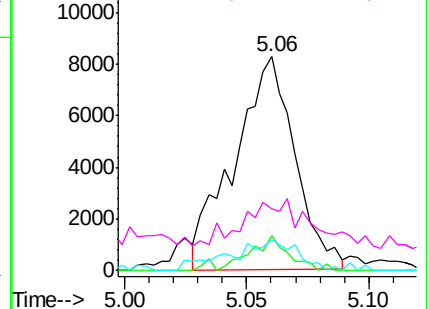


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.121 ppbv

RT: 4.99 min Scan# 686

Delta R.T. -0.03 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

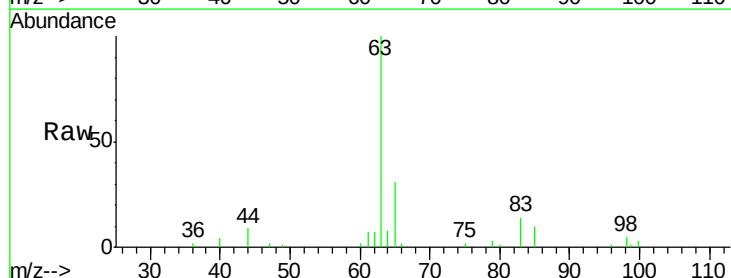
Tgt Ion: 63 Resp: 18787

Ion Ratio Lower Upper

63 100

98 5.2 3.3 9.8

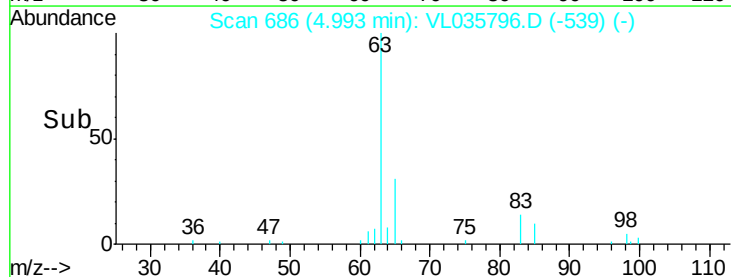
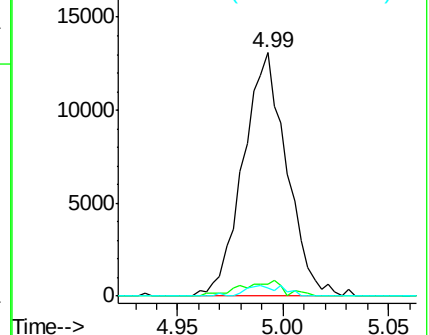
100 3.2 2.0 5.8

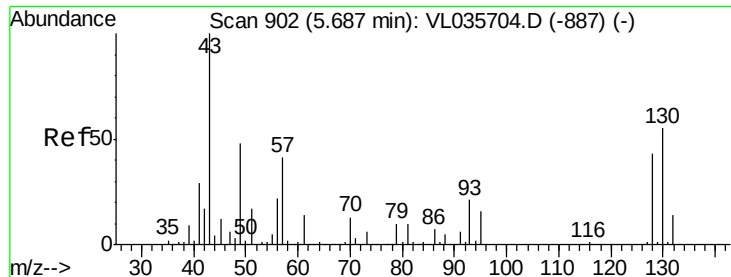


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.109 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.02 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

Tot Ion: 43 Resp: 22831

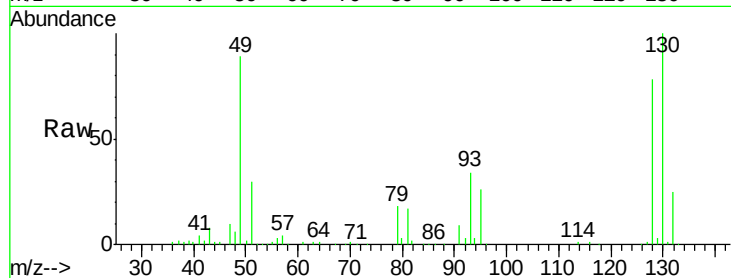
Ion Ratio Lower Upper

43 100

45 11.4 8.6 12.8

61 11.2 10.4 15.6

70 8.8 8.9 13.3#



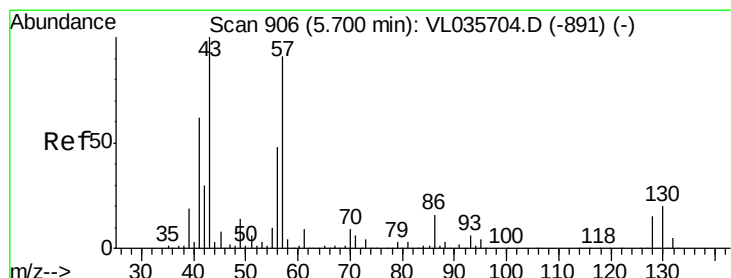
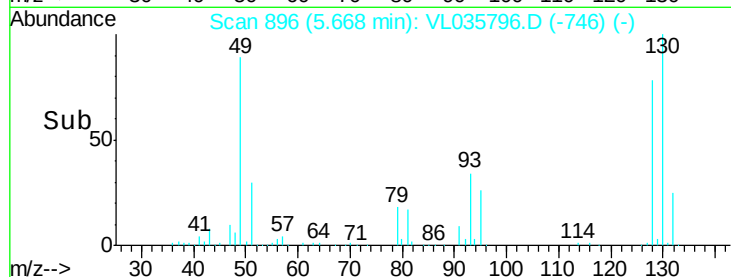
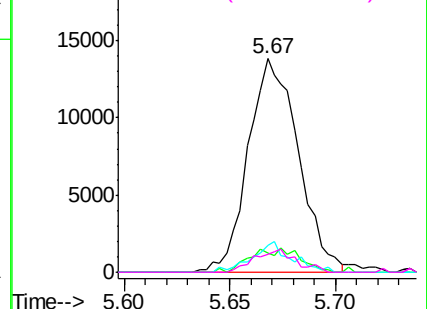
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 0.101 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.03 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Tgt Ion: 57 Resp: 11548

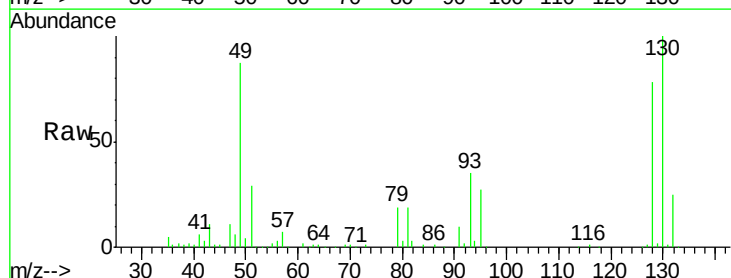
Ion Ratio Lower Upper

57 100

41 98.8 57.9 86.9#

43 202.1 143.8 215.6

56 62.1 43.0 64.6



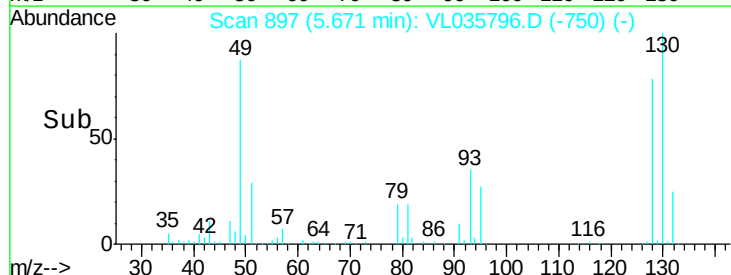
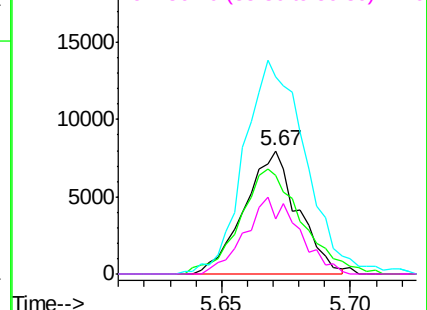
Abundance

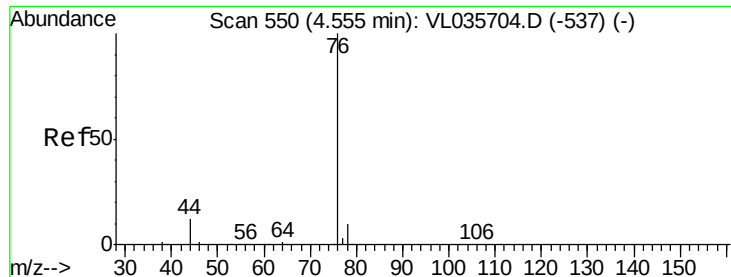
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.106 ppbv

RT: 4.53 min Scan# 542

Delta R.T. -0.03 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

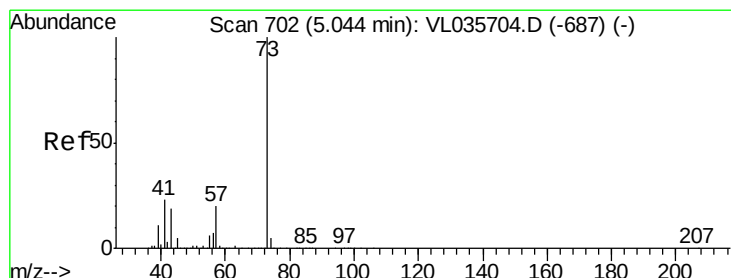
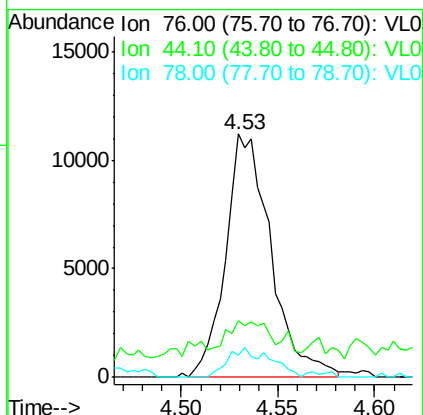
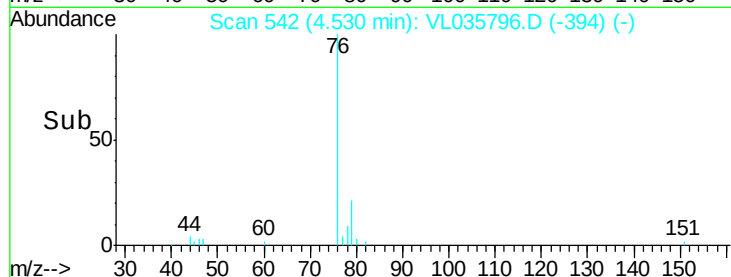
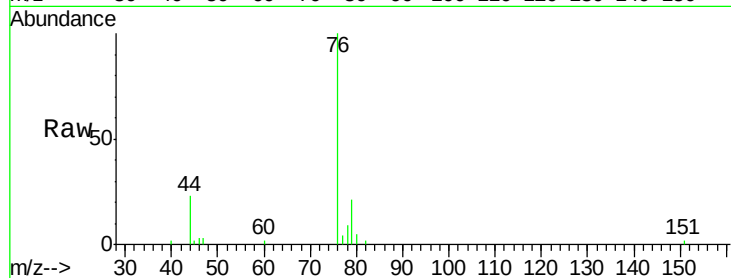
Tot Ion: 76 Resp: 18195

Ion Ratio Lower Upper

76 100

44 24.4 9.7 14.5#

78 12.4 7.8 11.8#



#28

Methyl tert-Butyl Ether

Concen: 0.084 ppbv

RT: 5.04 min Scan# 700

Delta R.T. -0.01 min

Lab File: VL035796.D

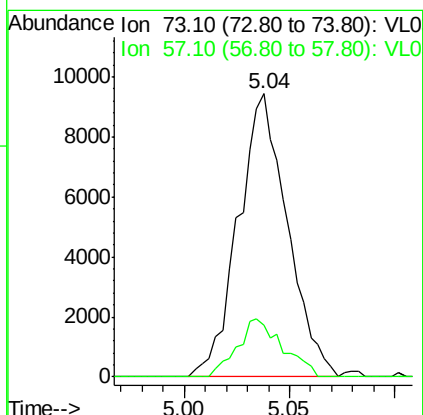
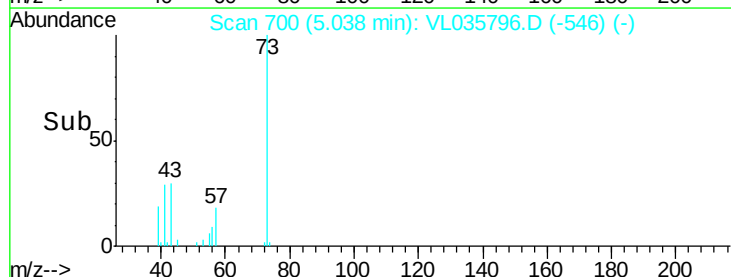
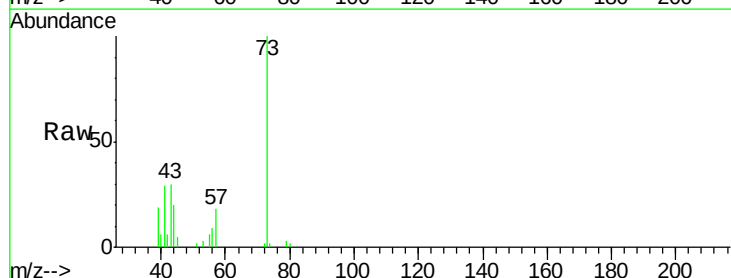
Acq: 19 Oct 2020 16:19

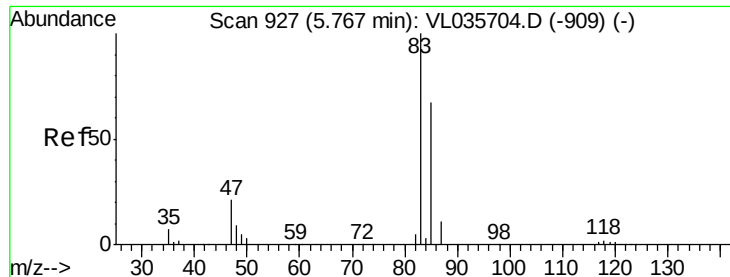
Tgt Ion: 73 Resp: 15262

Ion Ratio Lower Upper

73 100

57 18.9 15.6 23.4

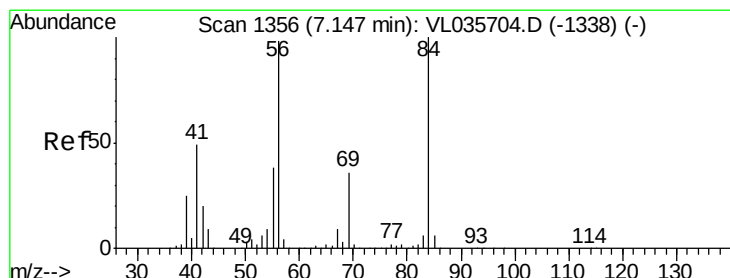
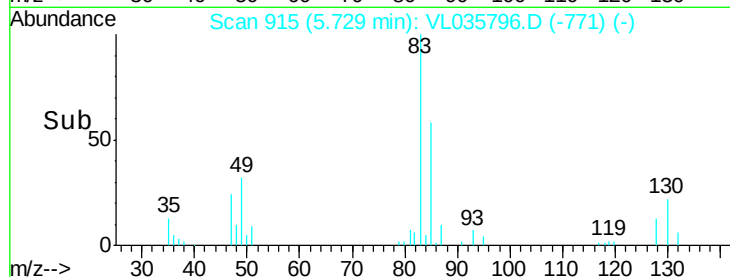
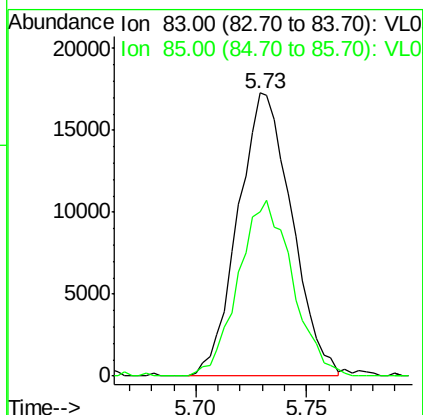
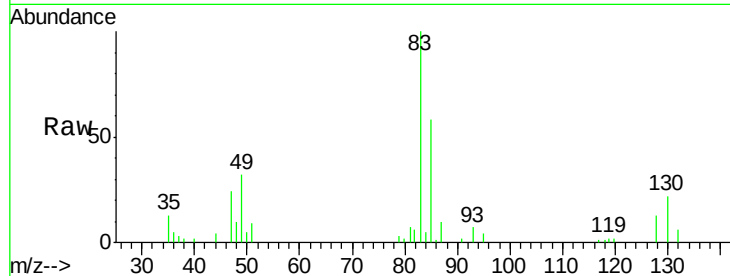




#29
Chloroform
Concen: 0.125 ppbv
RT: 5.73 min Scan# 915
Delta R.T. -0.04 min
Lab File: VL035796.D
Acq: 19 Oct 2020 16:19

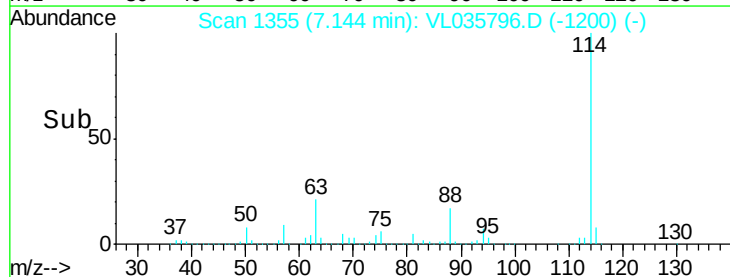
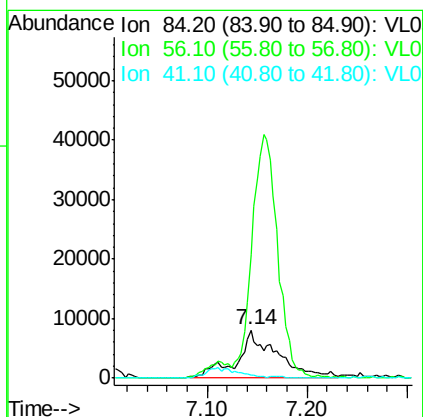
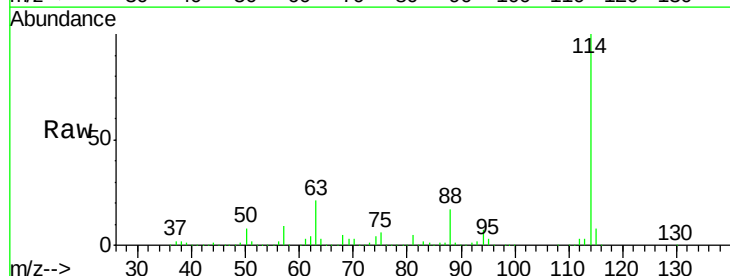
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT4-2020

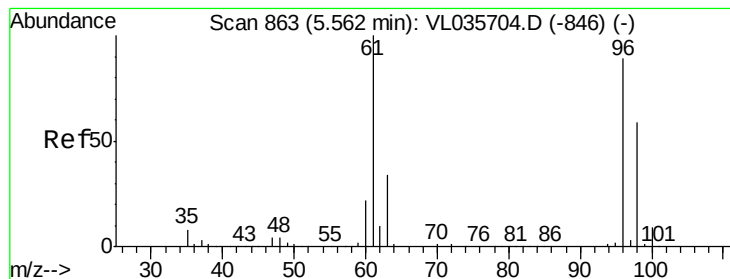
Tot Ion: 83 Resp: 29182
Ion Ratio Lower Upper
83 100
85 58.2 54.0 81.0



#30
Cyclohexane
Concen: 0.200 ppbv m
RT: 7.14 min Scan# 1355
Delta R.T. -0.00 min
Lab File: VL035796.D
Acq: 19 Oct 2020 16:19

Tgt Ion: 84 Resp: 22619
Ion Ratio Lower Upper
84 100
56 0.0 84.6 127.0#
41 18.5 41.1 61.7#





#31

cis-1,2-Dichloroethene

Concen: 0.076 ppbv

RT: 5.53 min Scan# 852

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

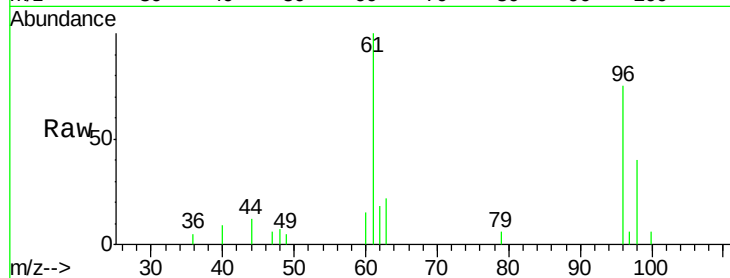
Tot Ion: 61 Resp: 8447

Ion Ratio Lower Upper

61 100

96 74.7 71.4 107.2

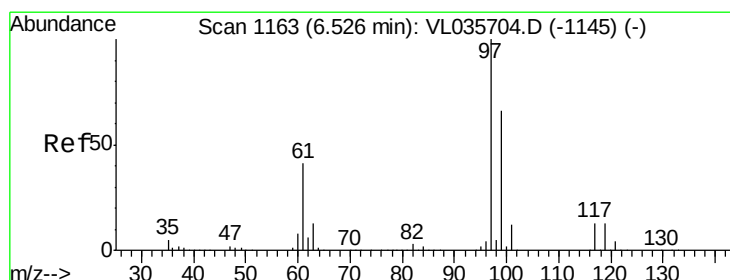
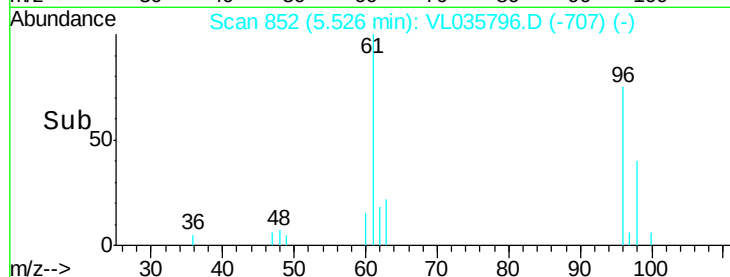
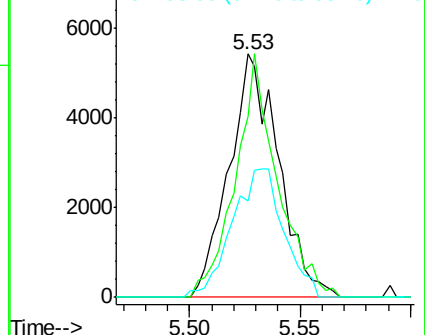
98 39.6 47.4 71.2#



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.101 ppbv

RT: 6.49 min Scan# 1152

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

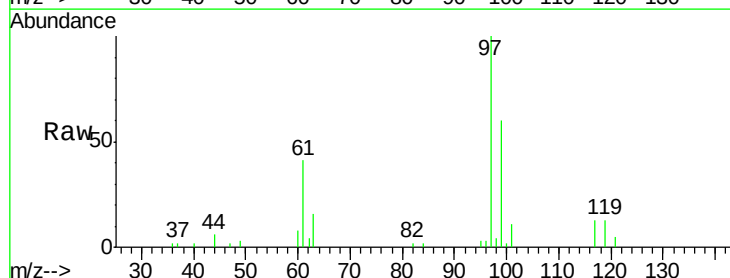
Tgt Ion: 97 Resp: 20805

Ion Ratio Lower Upper

97 100

99 65.0 52.7 79.1

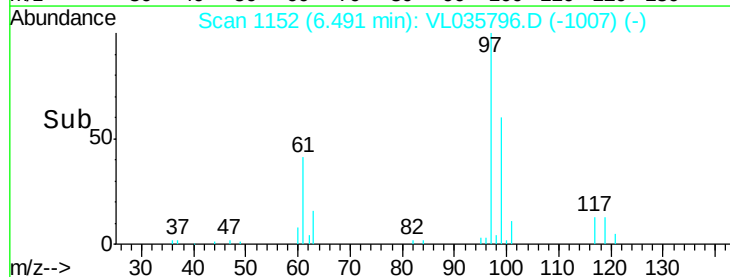
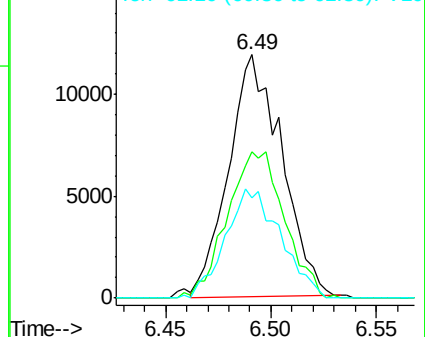
61 46.7 32.7 49.1

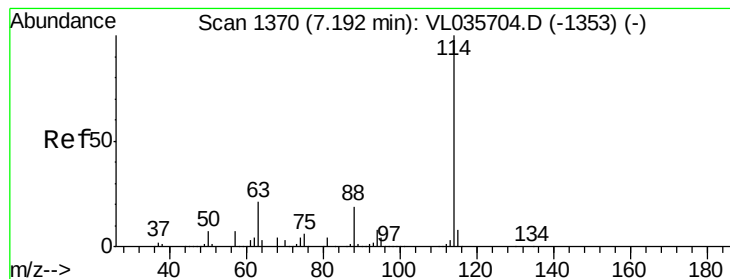


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

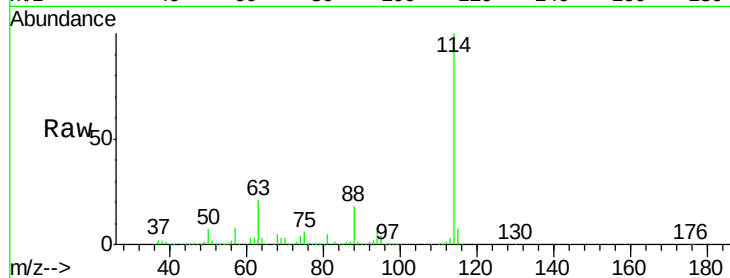
Tot Ion:114 Resp: 3979515

Ion Ratio Lower Upper

114 100

63 20.4 16.1 24.1

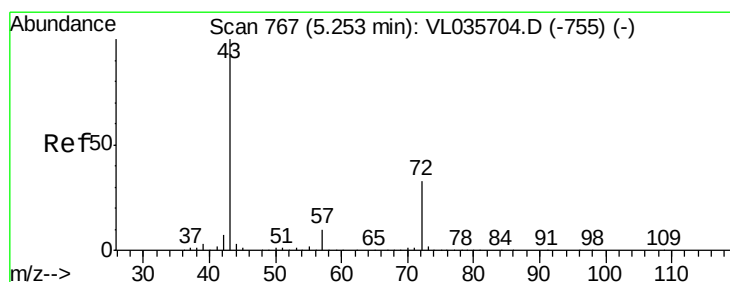
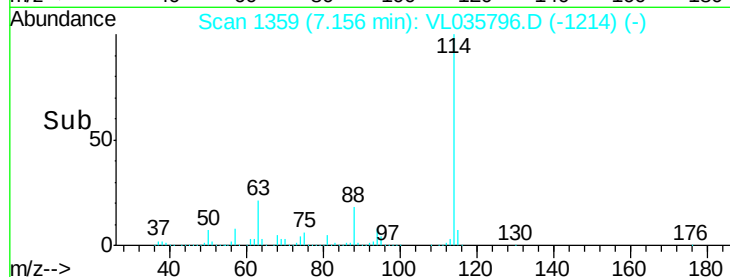
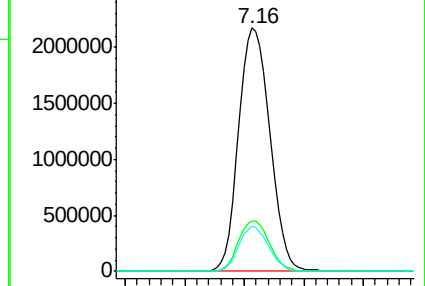
88 17.6 14.1 21.1



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.092 ppbv

RT: 5.25 min Scan# 765

Delta R.T. -0.01 min

Lab File: VL035796.D

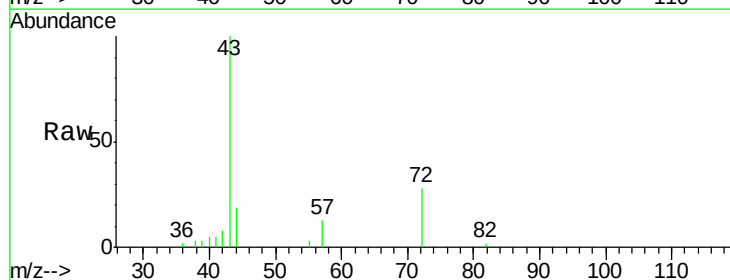
Acq: 19 Oct 2020 16:19

Tgt Ion: 43 Resp: 12056

Ion Ratio Lower Upper

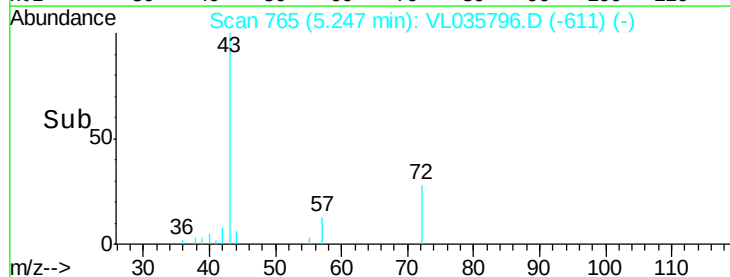
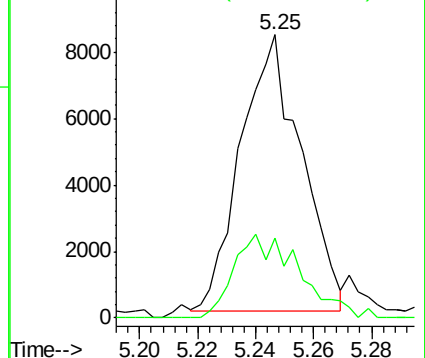
43 100

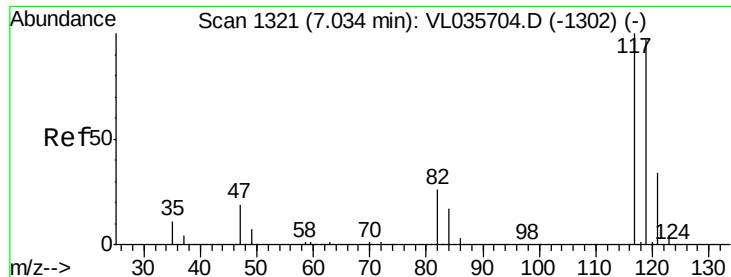
72 32.7 26.1 39.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.106 ppbv

RT: 7.00 min Scan# 1310

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

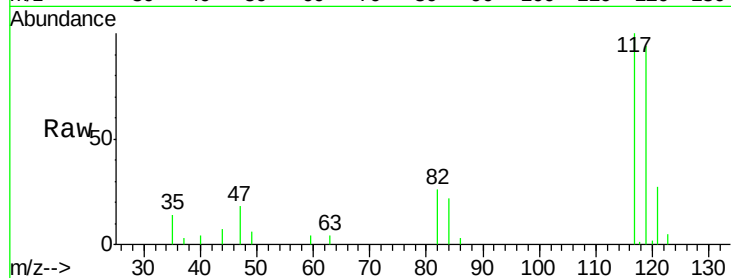
Tot Ion:117 Resp: 22064

Ion Ratio Lower Upper

117 100

119 94.1 77.7 116.5

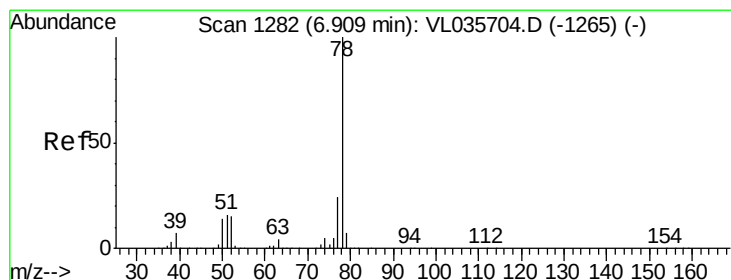
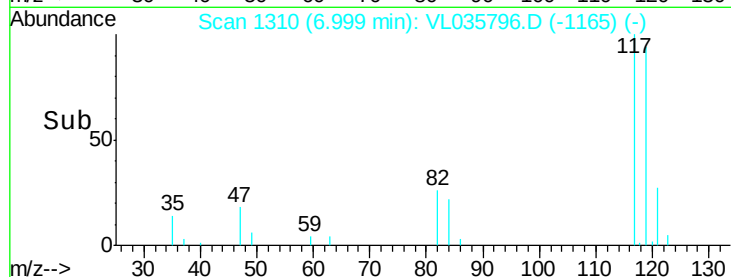
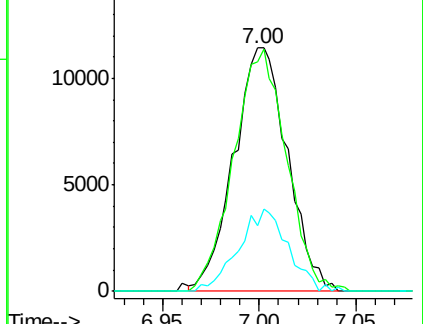
121 26.8 26.9 40.3#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.074 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

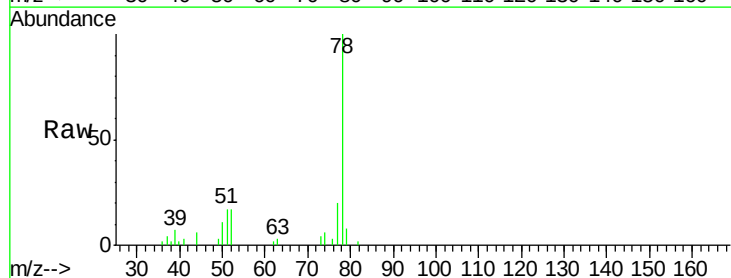
Tgt Ion: 78 Resp: 19108

Ion Ratio Lower Upper

78 100

77 19.7 19.3 28.9

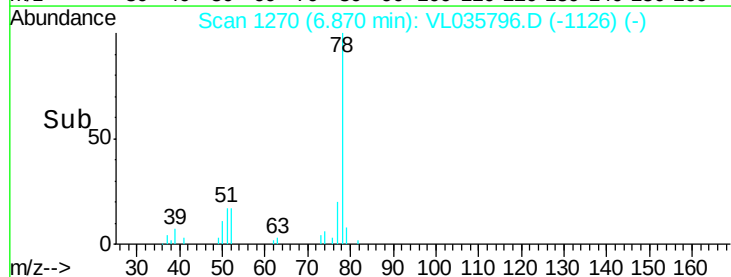
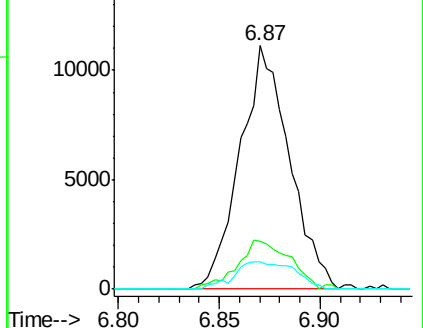
50 11.2 11.6 17.4#

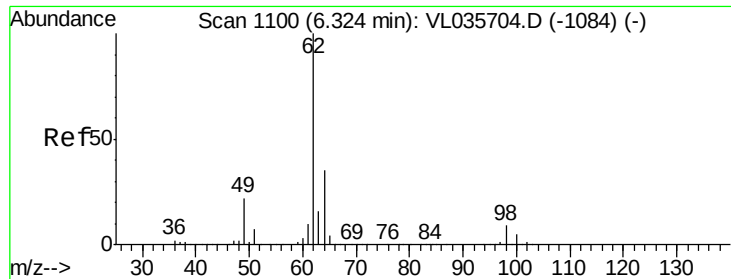


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

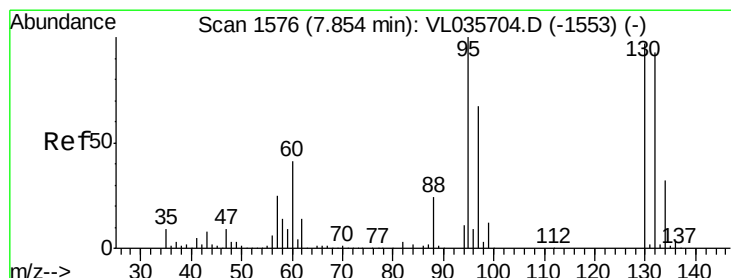
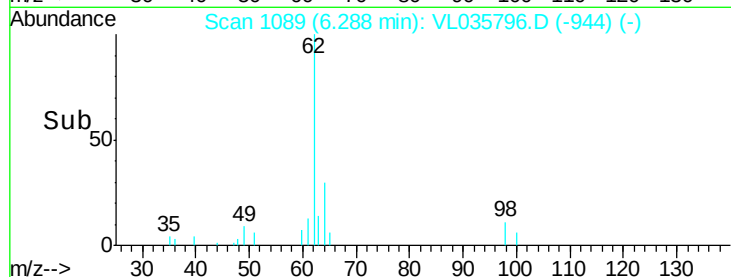
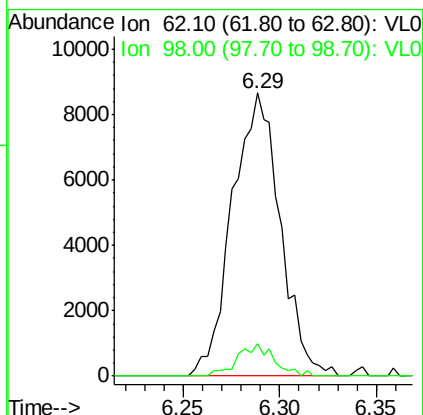
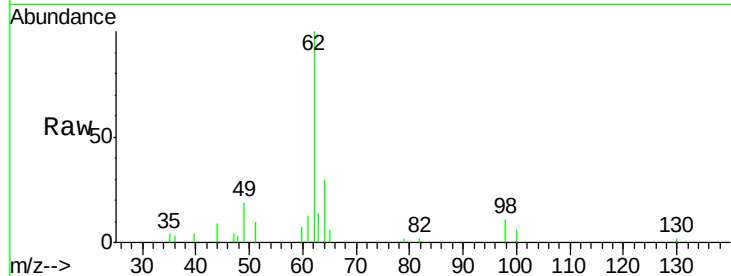




#37
 1,2-Dichloroethane
 Concen: 0.110 ppbv
 RT: 6.29 min Scan# 1089
 Delta R.T. -0.04 min
 Lab File: VL035796.D
 Acq: 19 Oct 2020 16:19

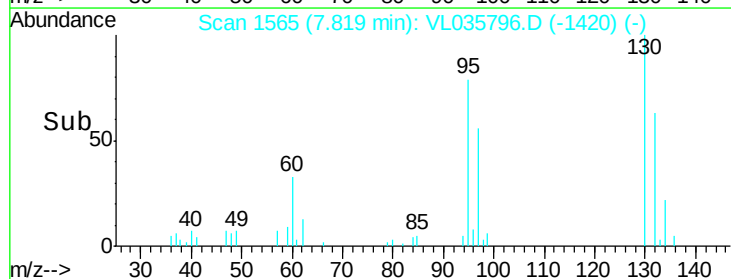
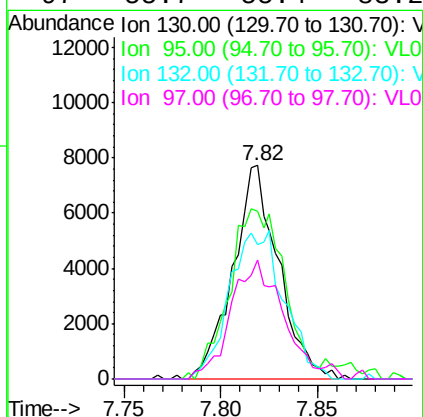
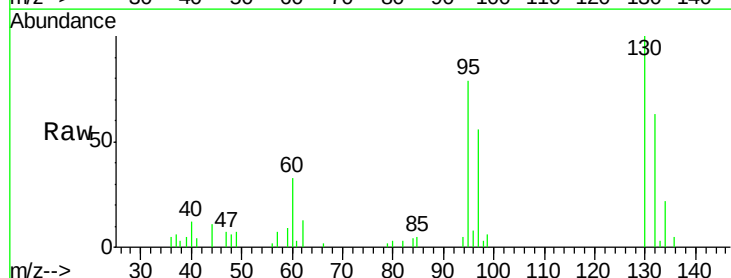
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT4-2020

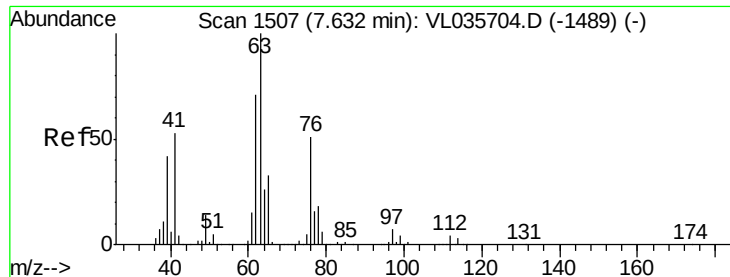
Tot Ion: 62 Resp: 14923
 Ion Ratio Lower Upper
 62 100
 98 8.7 6.9 10.3



#38
 Trichloroethene
 Concen: 0.097 ppbv
 RT: 7.82 min Scan# 1565
 Delta R.T. -0.04 min
 Lab File: VL035796.D
 Acq: 19 Oct 2020 16:19

Tgt Ion: 130 Resp: 12591
 Ion Ratio Lower Upper
 130 100
 95 75.4 82.4 123.6#
 132 63.1 76.8 115.2#
 97 55.7 55.4 83.2





#39

1,2-Dichloropropane

Concen: 0.113 ppbv

RT: 7.59 min Scan# 1495

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

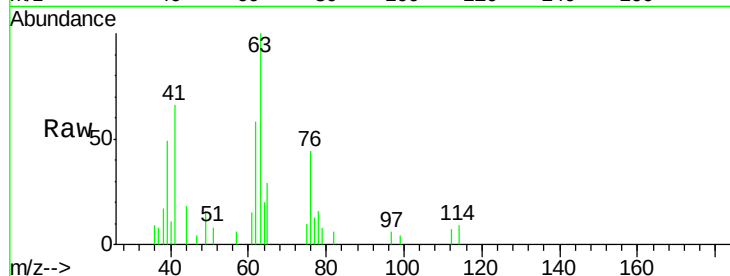
Tot Ion: 63 Resp: 10617

Ion Ratio Lower Upper

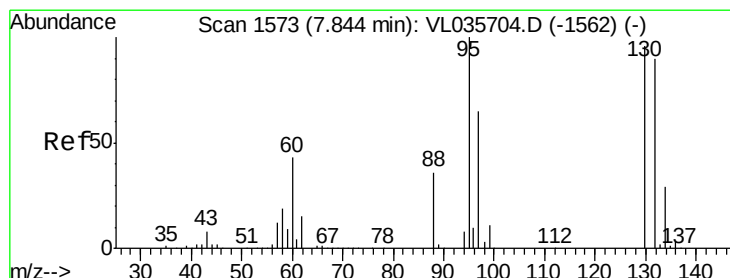
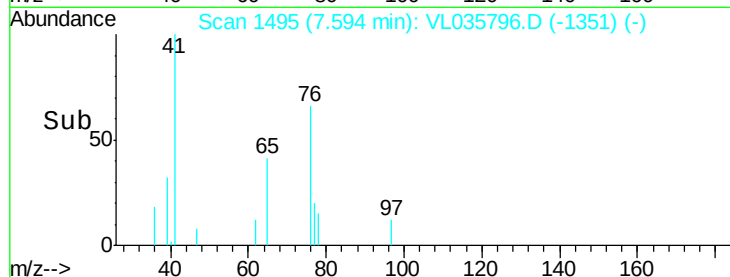
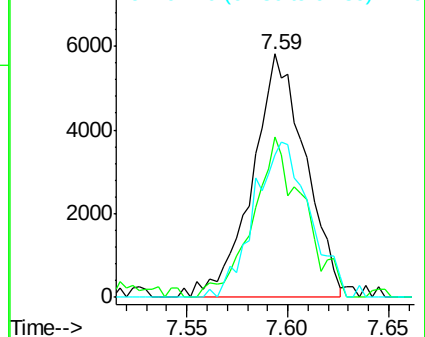
63 100

41 68.7 42.6 63.8#

62 60.8 56.5 84.7



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 0.082 ppbv m

RT: 7.87 min Scan# 1580

Delta R.T. 0.02 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Tgt Ion: 88 Resp: 3541

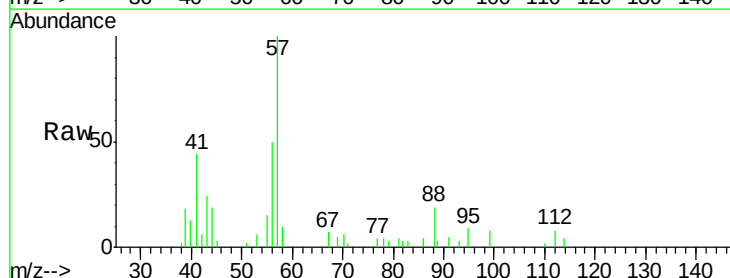
Ion Ratio Lower Upper

88 100

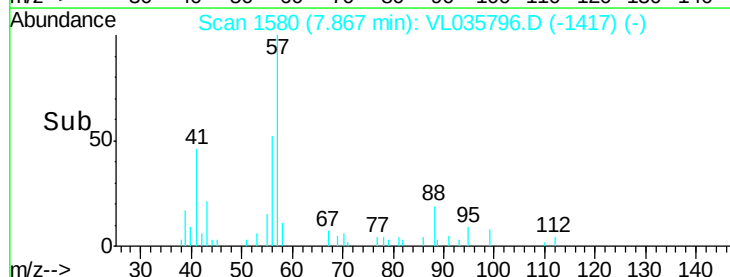
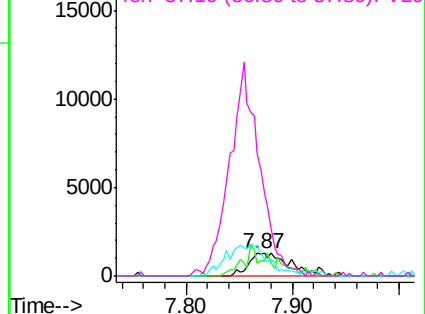
58 0.0 76.2 114.4#

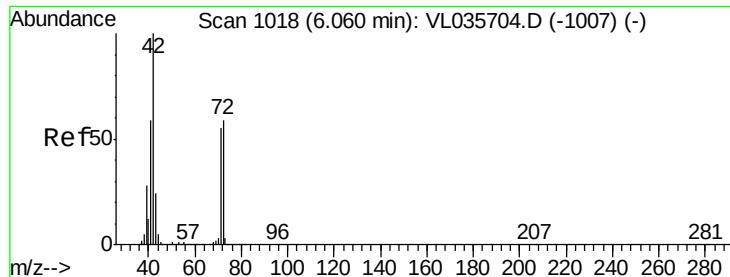
43 0.0 123.4 185.2#

57 671.6 652.5 978.7



Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 0.057 ppbv m

RT: 6.07 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

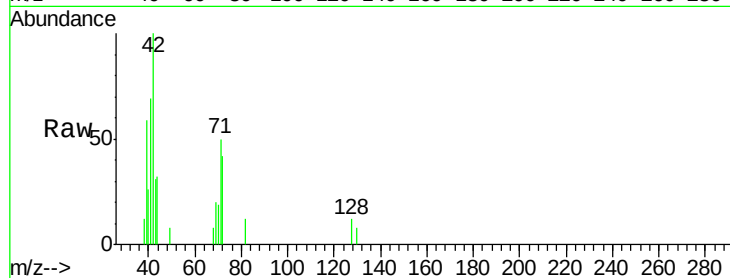
Tot Ion: 42 Resp: 3807

Ion Ratio Lower Upper

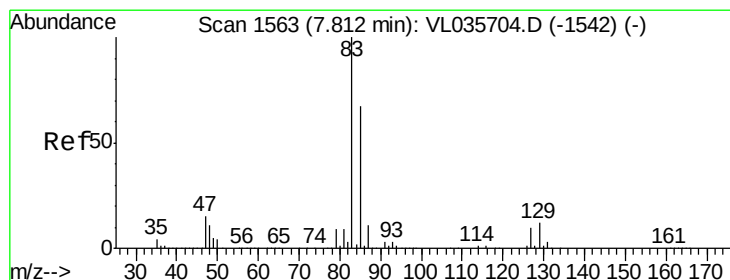
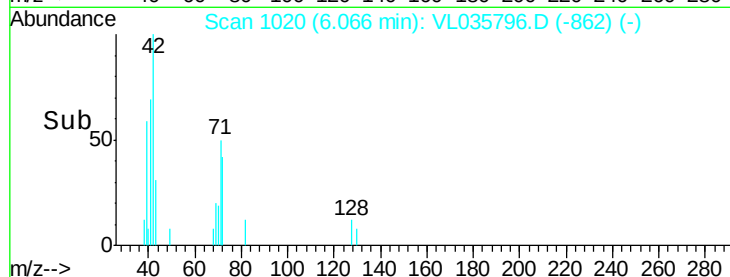
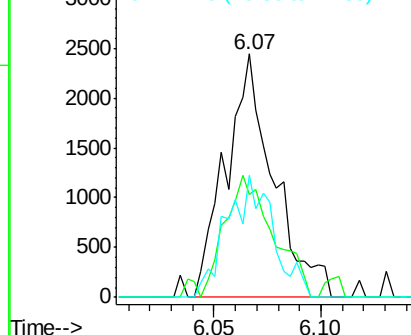
42 100

72 0.0 46.2 69.4#

71 0.0 44.2 66.4#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 0.104 ppbv

RT: 7.78 min Scan# 1552

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

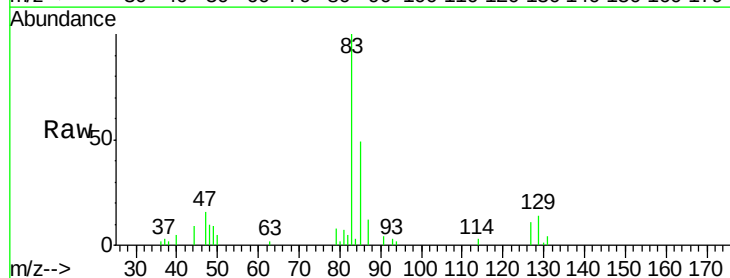
Tgt Ion: 83 Resp: 22597

Ion Ratio Lower Upper

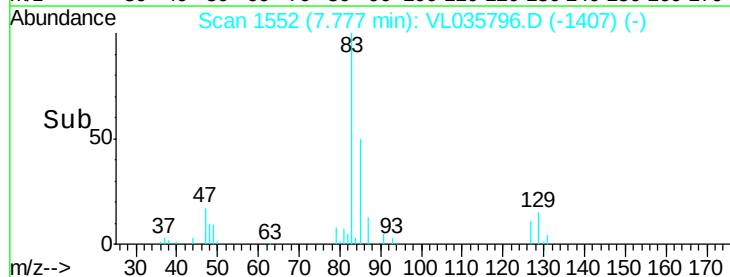
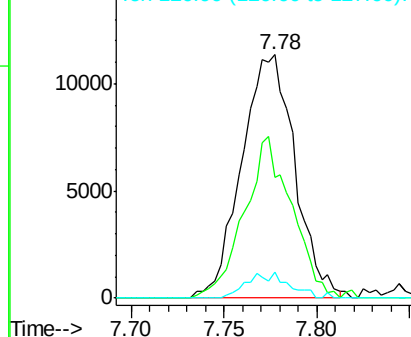
83 100

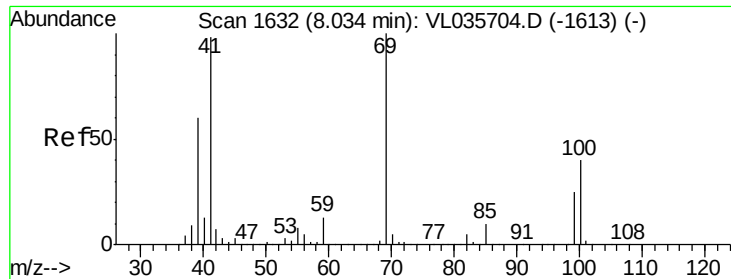
85 49.4 53.4 80.0#

127 10.7 7.8 11.6



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V

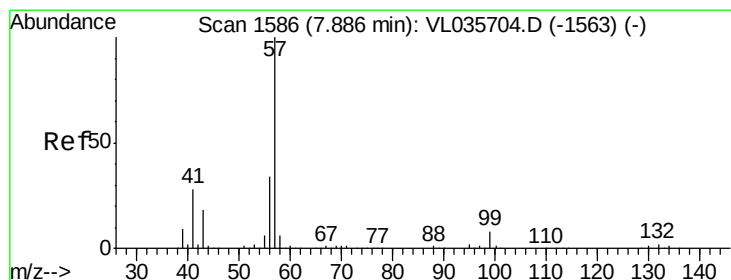
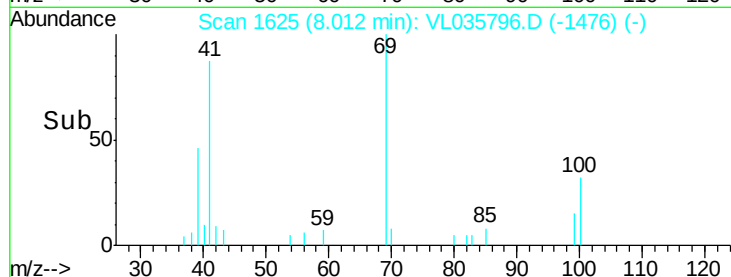
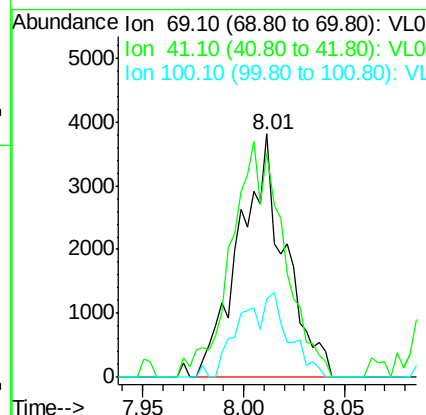
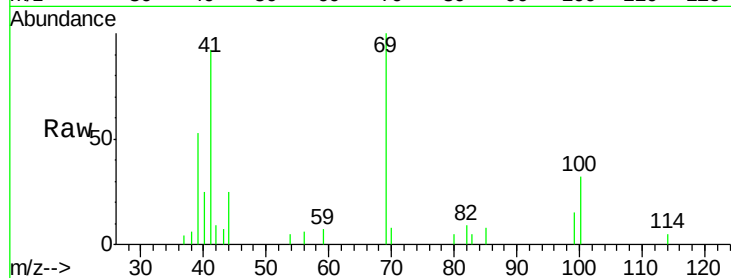




#43
Methvl Methacrylate
Concen: 0.058 ppbv m
RT: 8.01 min Scan# 1625
Delta R.T. -0.02 min
Lab File: VL035796.D
Acq: 19 Oct 2020 16:19

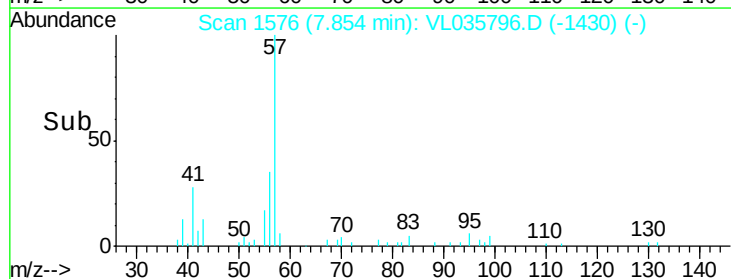
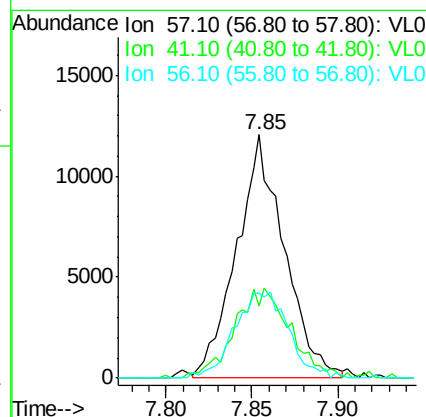
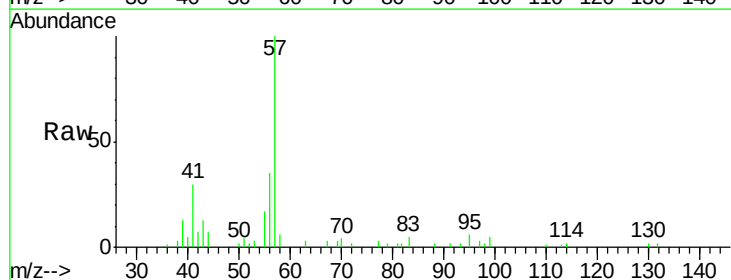
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT4-2020

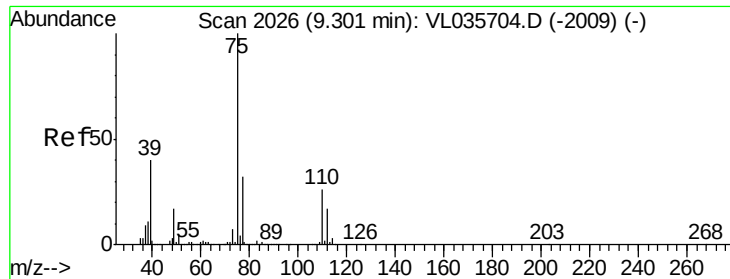
Tot Ion: 69 Resp: 5959
Ion Ratio Lower Upper
69 100
41 0.0 79.8 119.6#
100 0.0 30.6 46.0#



#44
2,2,4-Trimethylpentane
Concen: 0.063 ppbv
RT: 7.85 min Scan# 1576
Delta R.T. -0.03 min
Lab File: VL035796.D
Acq: 19 Oct 2020 16:19

Tgt Ion: 57 Resp: 23336
Ion Ratio Lower Upper
57 100
41 43.3 21.2 31.8#
56 40.1 25.8 38.8#





#45

t-1,3-Dichloropropene

Concen: 0.064 ppbv m

RT: 9.27 min Scan# 2016

Delta R.T. -0.03 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

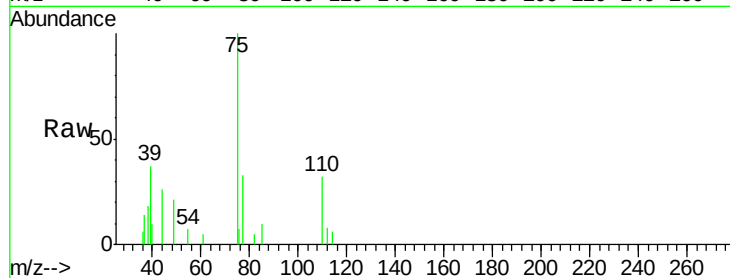
MDL-AIR-01-QT4-2020

Tot Ion: 75 Resp: 6695

Ion Ratio Lower Upper

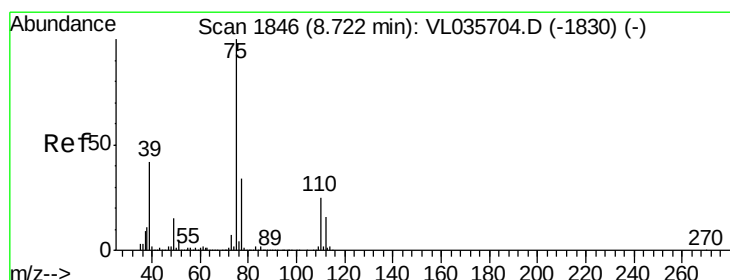
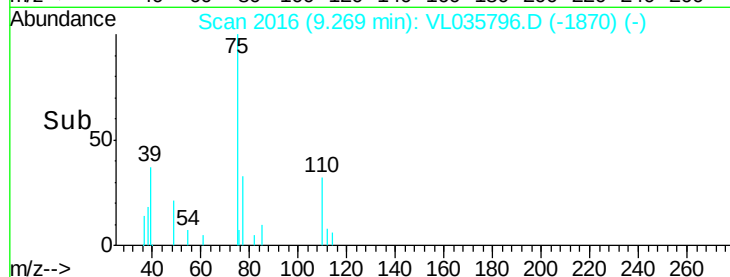
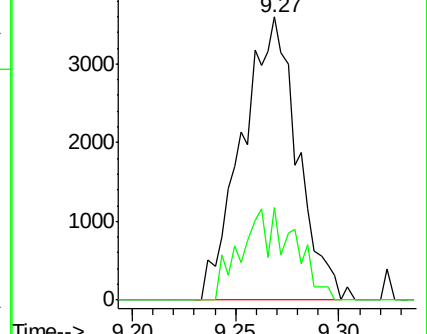
75 100

77 32.5 25.9 38.9



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.062 ppbv

RT: 8.69 min Scan# 1836

Delta R.T. -0.03 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

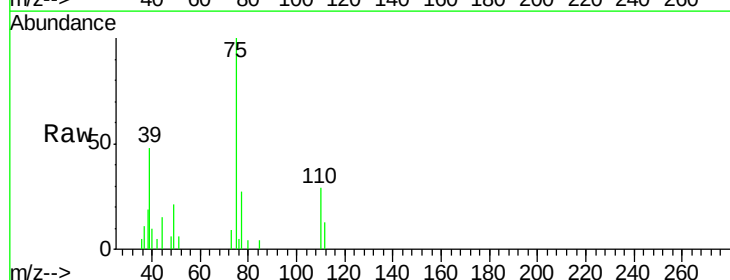
Tgt Ion: 75 Resp: 8015

Ion Ratio Lower Upper

75 100

39 48.4 33.9 50.9

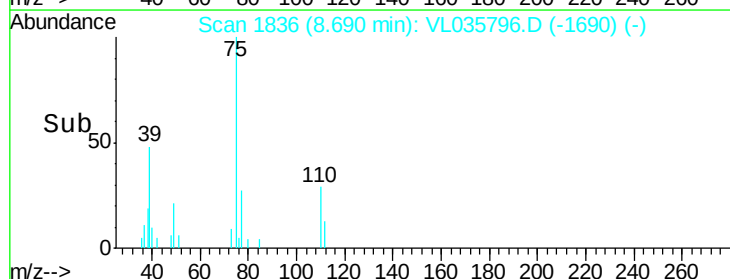
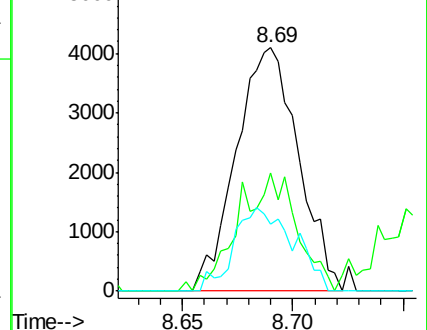
77 27.3 27.4 41.0#

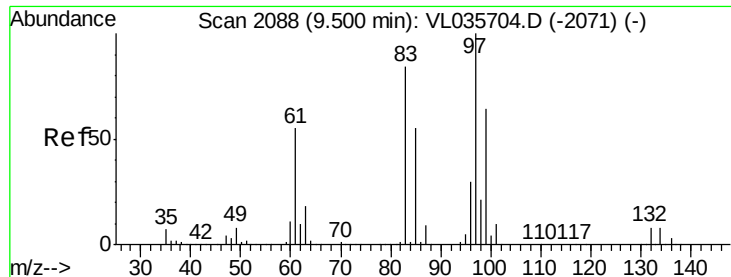


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

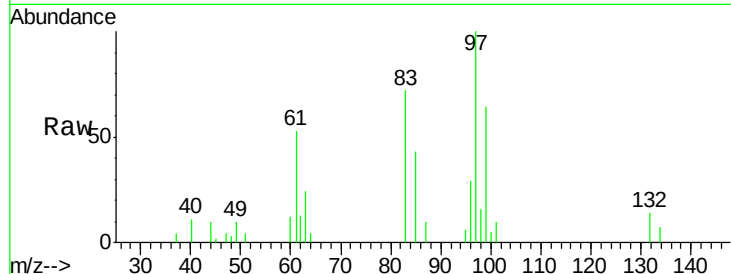




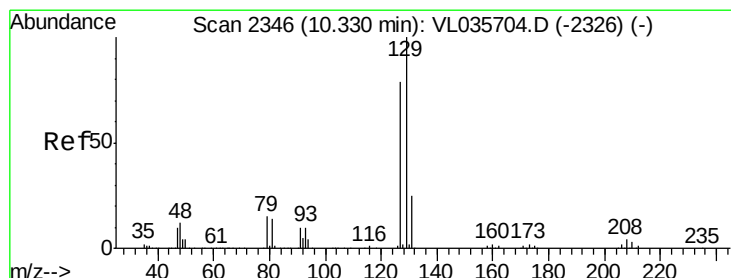
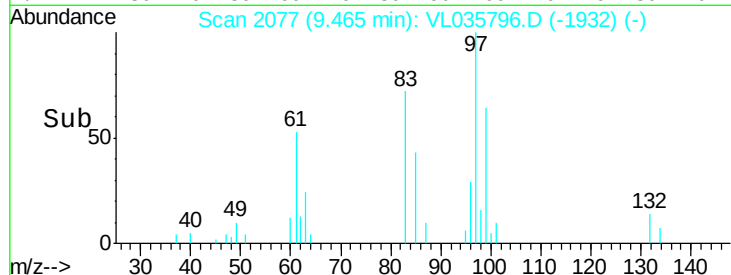
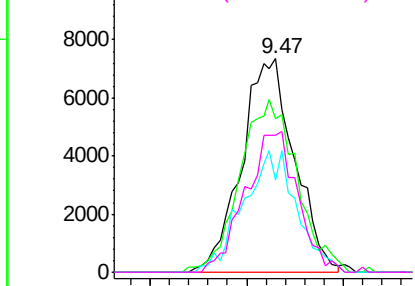
#47
 1,1,2-Trichloroethane
 Concen: 0.104 ppbv
 RT: 9.47 min Scan# 2077
 Delta R.T. -0.04 min
 Lab File: VL035796.D
 Acq: 19 Oct 2020 16:19

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT4-2020

Tot Ion:	97	Resp:	14021
Ion	Ratio	Lower	Upper
97	100		
83	69.6	67.1	100.7
85	43.1	43.9	65.9#
99	63.9	51.3	76.9

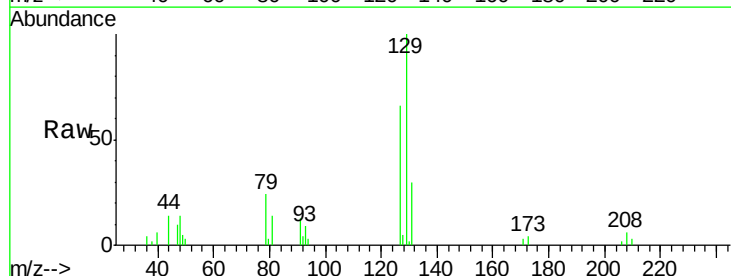


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

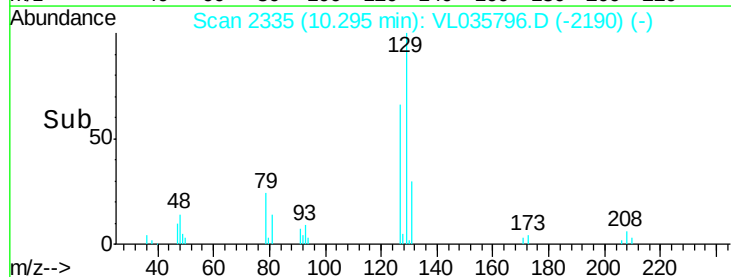
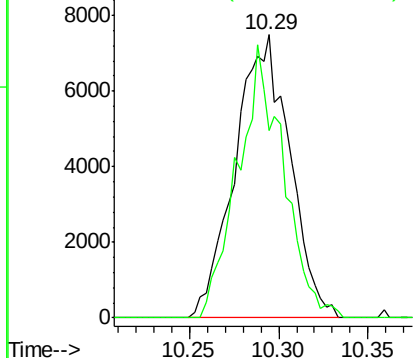


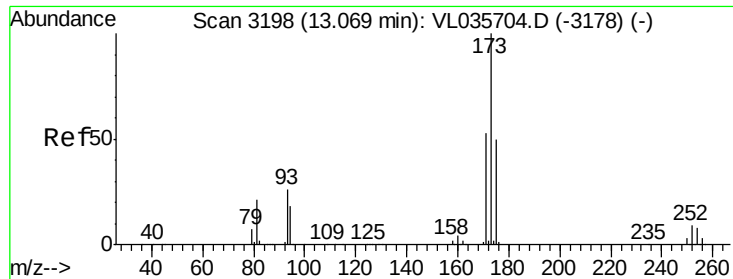
#48
 Dibromochloromethane
 Concen: 0.078 ppbv
 RT: 10.29 min Scan# 2335
 Delta R.T. -0.04 min
 Lab File: VL035796.D
 Acq: 19 Oct 2020 16:19

Tgt Ion:	129	Resp:	16001
Ion	Ratio	Lower	Upper
129	100		
127	80.3	39.4	118.1



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.073 ppbv

RT: 13.03 min Scan# 3186

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

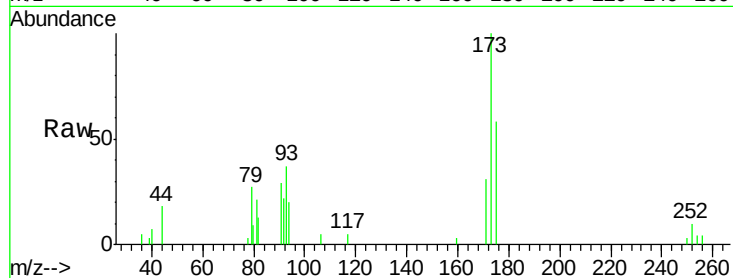
Tot Ion:173 Resp: 12628

Ion Ratio Lower Upper

173 100

175 51.6 39.8 59.6

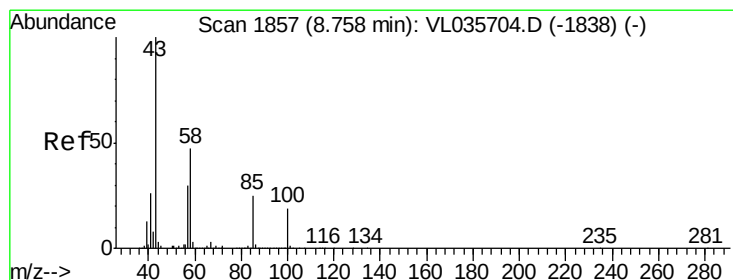
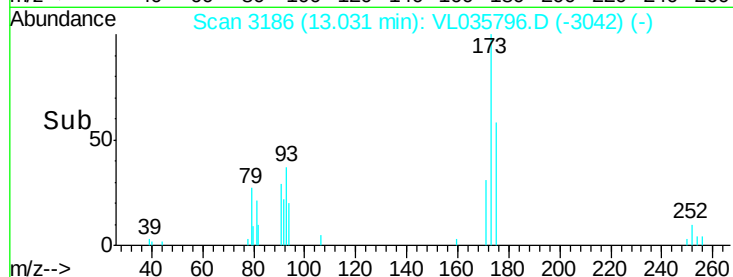
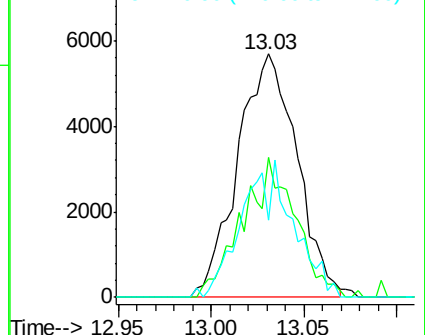
171 49.4 42.8 64.2



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.069 ppbv m

RT: 8.75 min Scan# 1855

Delta R.T. -0.01 min

Lab File: VL035796.D

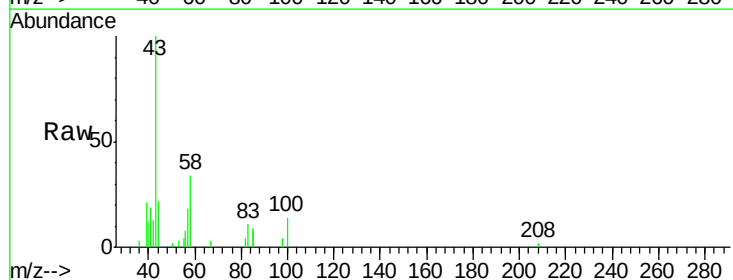
Acq: 19 Oct 2020 16:19

Tgt Ion: 43 Resp: 13259

Ion Ratio Lower Upper

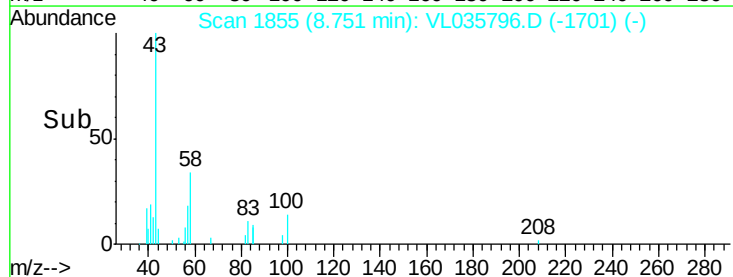
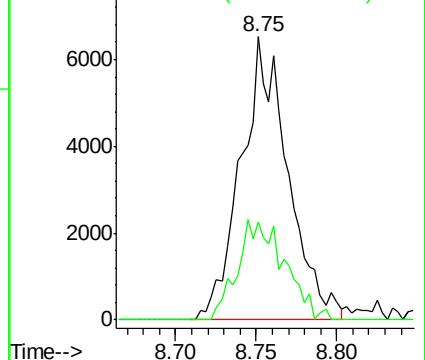
43 100

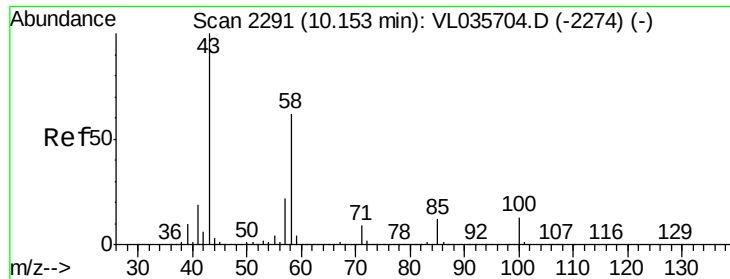
58 35.4 36.6 54.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 0.059 ppbv m

RT: 10.15 min Scan# 2289

Delta R.T. -0.01 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

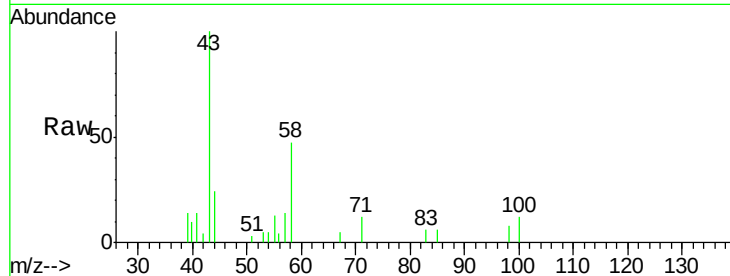
Tot Ion: 43 Resp: 9199

Ion Ratio Lower Upper

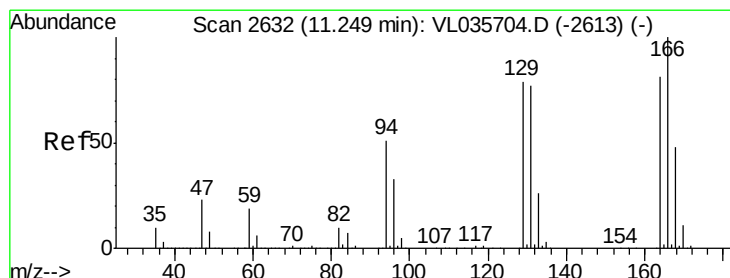
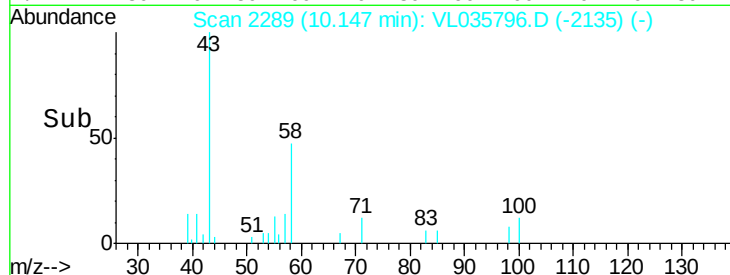
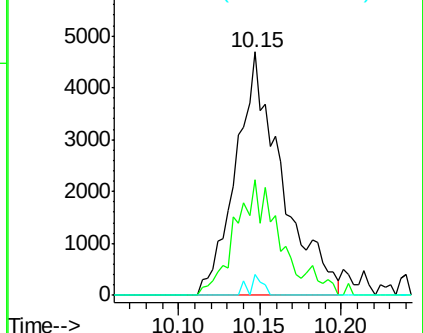
43 100

58 47.4 48.7 73.1#

98 2.4 0.7 1.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 0.095 ppbv m

RT: 11.21 min Scan# 2619

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Tgt Ion: 164 Resp: 11889

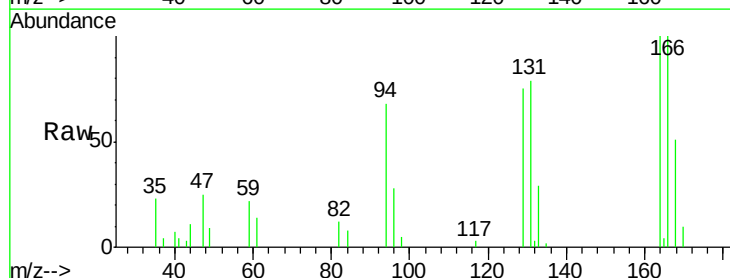
Ion Ratio Lower Upper

164 100

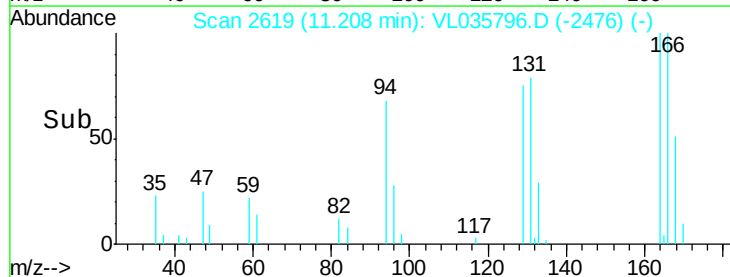
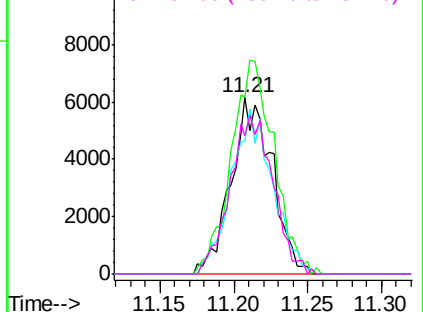
166 99.9 98.7 148.1

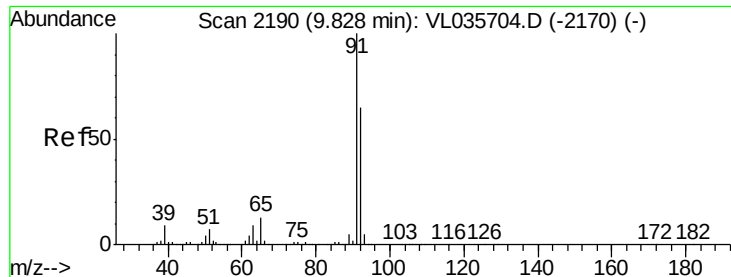
129 75.5 78.4 117.6#

131 78.5 76.2 114.2



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.060 ppbv m

RT: 9.79 min Scan# 2178

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

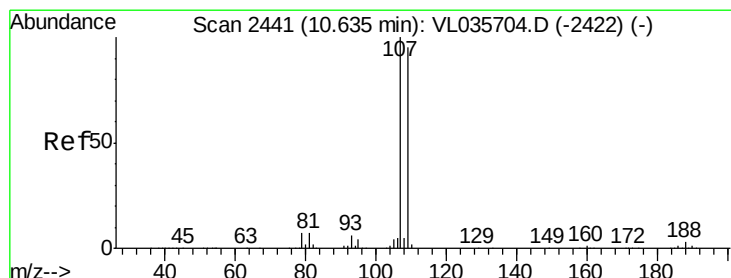
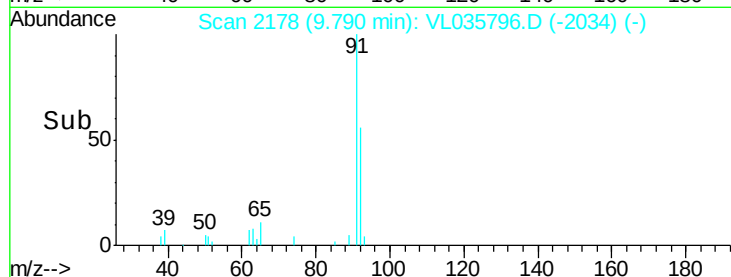
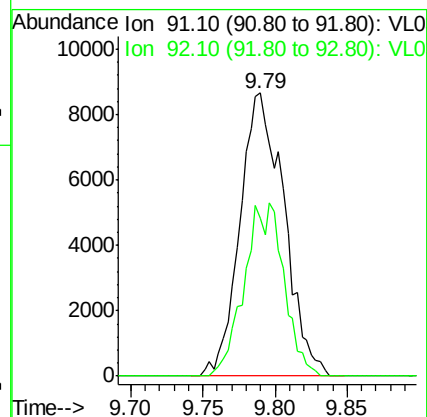
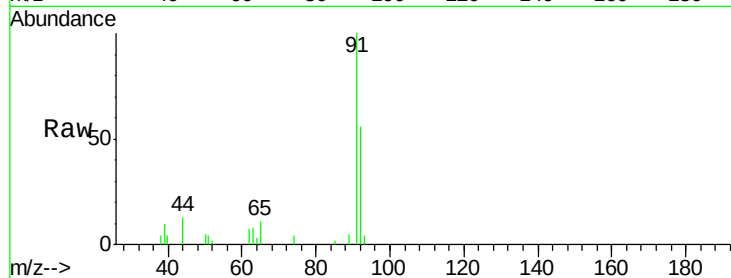
MDL-AIR-01-QT4-2020

Tot Ion: 91 Resp: 18370

Ion Ratio Lower Upper

91 100

92 0.0 50.0 75.0#



#54

1,2-Dibromoethane

Concen: 0.094 ppbv

RT: 10.60 min Scan# 2429

Delta R.T. -0.04 min

Lab File: VL035796.D

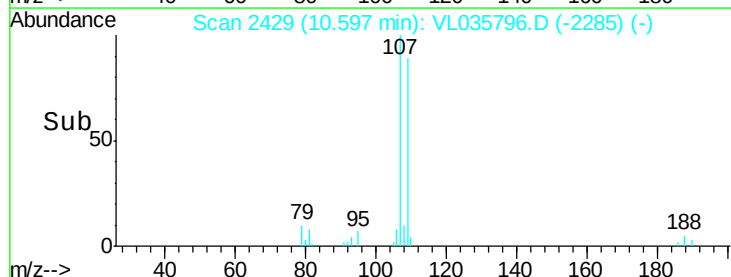
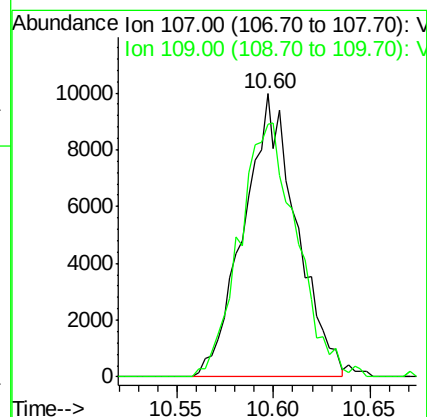
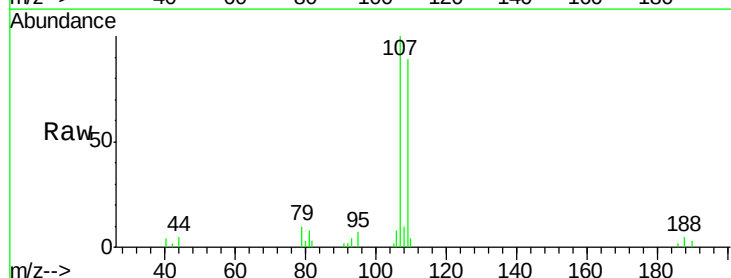
Acq: 19 Oct 2020 16:19

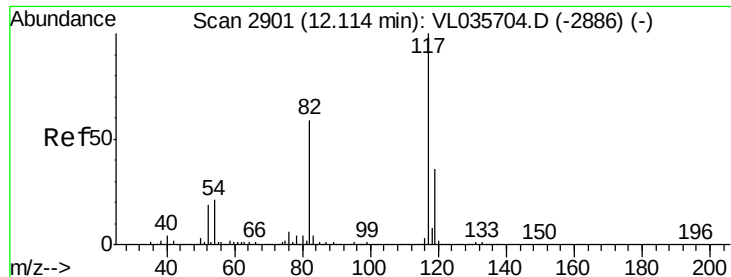
Tgt Ion: 107 Resp: 18920

Ion Ratio Lower Upper

107 100

109 89.2 76.0 114.0

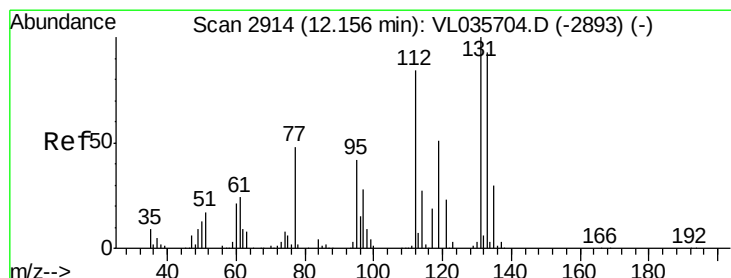
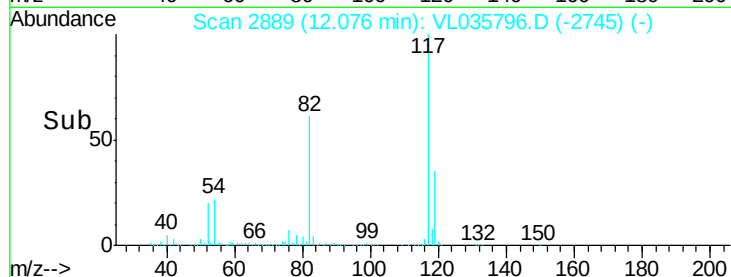
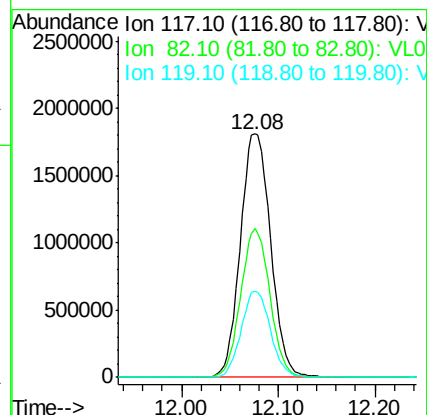
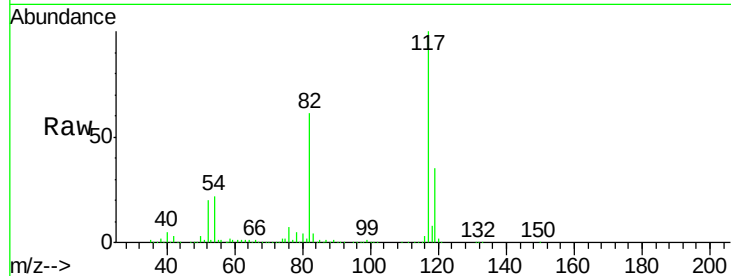




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2889
Delta R.T. -0.04 min
Lab File: VL035796.D
Acq: 19 Oct 2020 16:19

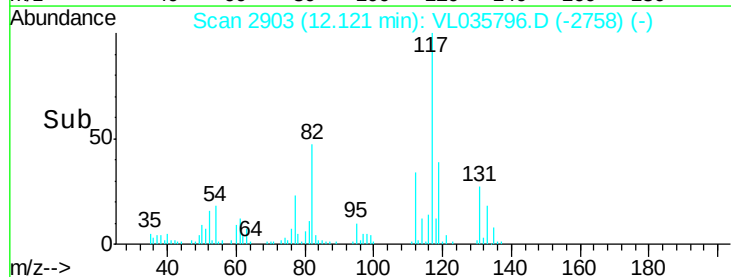
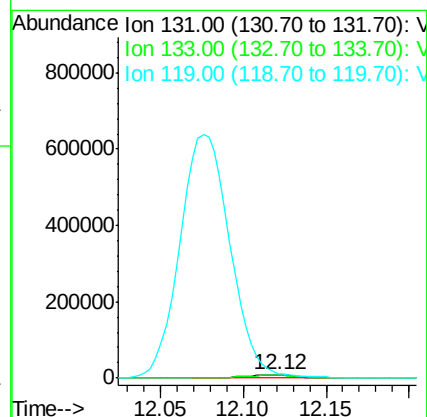
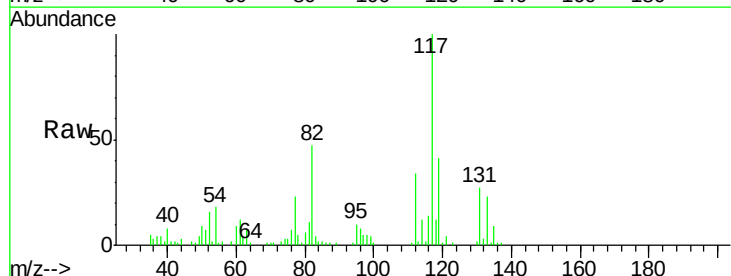
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT4-2020

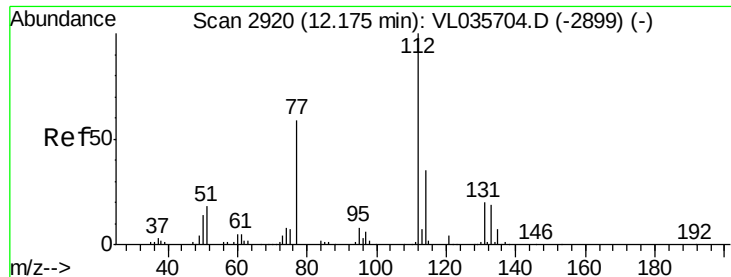
Tot Ion:117 Resp: 3956167
Ion Ratio Lower Upper
117 100
82 59.0 46.1 69.1
119 34.4 28.0 42.0



#56
1,1,1,2-Tetrachloroethane
Concen: 0.109 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. -0.04 min
Lab File: VL035796.D
Acq: 19 Oct 2020 16:19

Tgt Ion:131 Resp: 18125
Ion Ratio Lower Upper
131 100
133 90.1 76.2 114.4
119 7497.4 52.4 78.6#

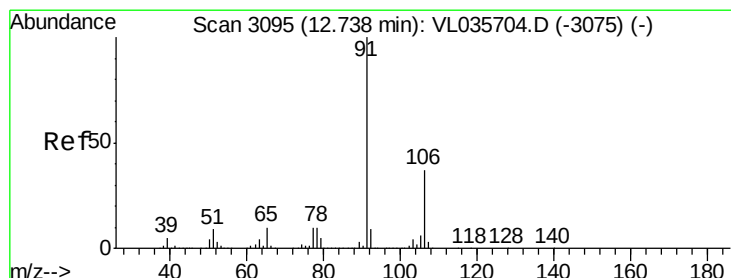
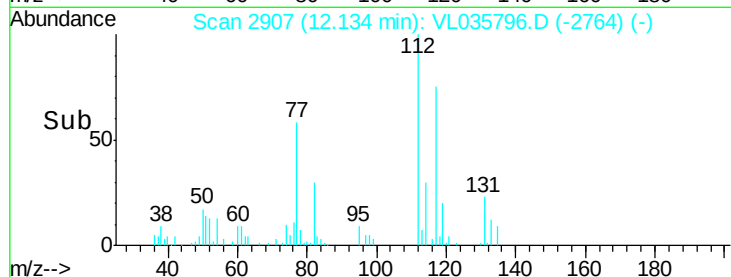
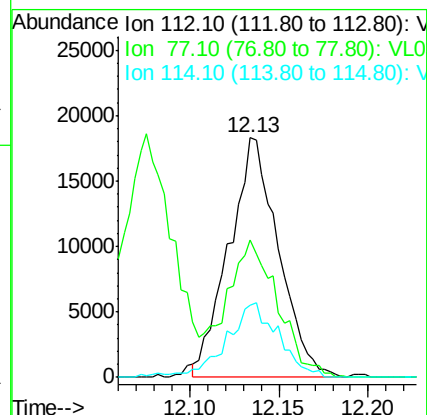
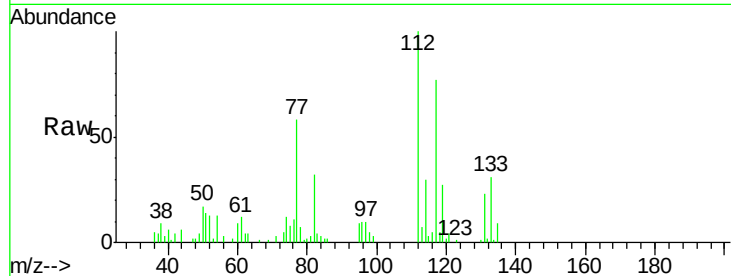




#57
Chlorobenzene
Concen: 0.119 ppbv
RT: 12.13 min Scan# 2907
Delta R.T. -0.04 min
Lab File: VL035796.D
Acq: 19 Oct 2020 16:19

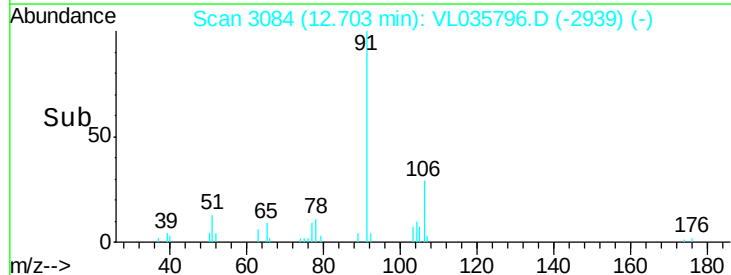
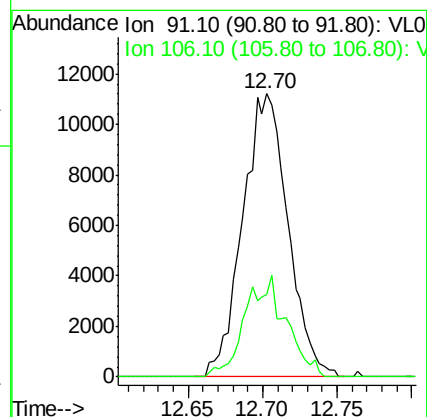
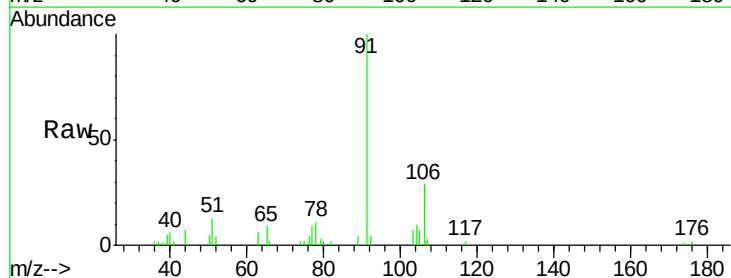
Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT4-2020

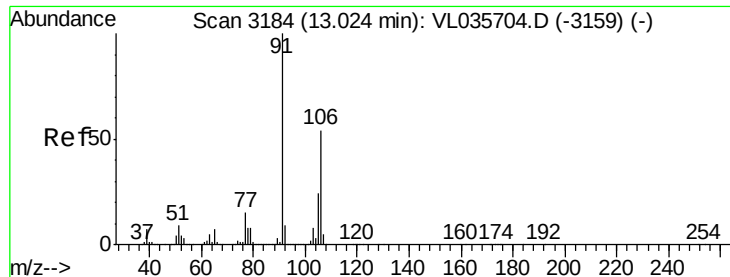
Tot Ion:112 Resp: 35528
Ion Ratio Lower Upper
112 100
77 56.6 48.2 72.2
114 30.0 31.9 39.1#



#58
Ethyl Benzene
Concen: 0.060 ppbv m
RT: 12.70 min Scan# 3084
Delta R.T. -0.04 min
Lab File: VL035796.D
Acq: 19 Oct 2020 16:19

Tgt Ion: 91 Resp: 23651
Ion Ratio Lower Upper
91 100
106 29.3 29.7 44.5#





#59

m/p-Xylene

Concen: 0.117 ppbv m

RT: 12.99 min Scan# 3174

Delta R.T. -0.03 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

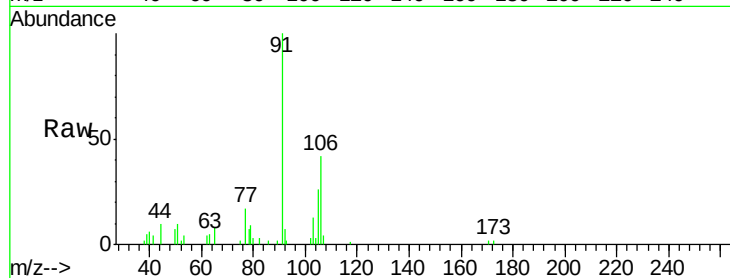
MDL-AIR-01-QT4-2020

Tot Ion: 91 Resp: 40583

Ion Ratio Lower Upper

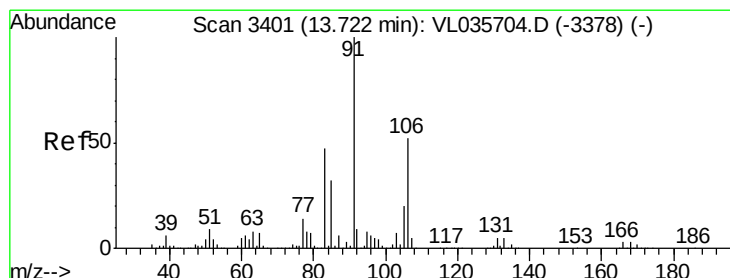
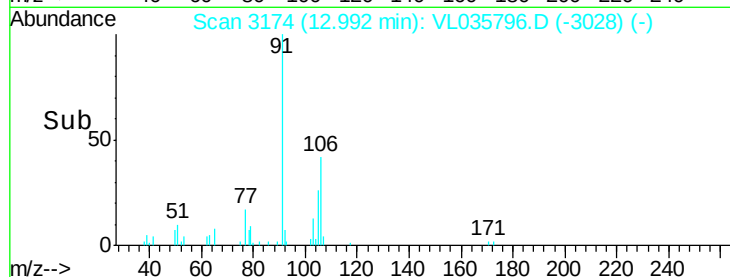
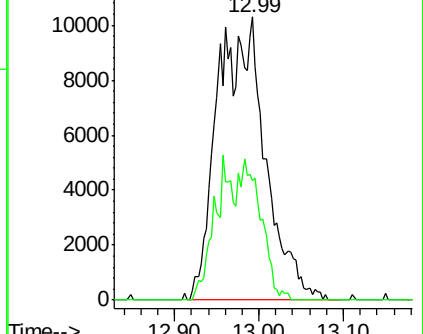
91 100

106 0.0 41.4 62.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.072 ppbv m

RT: 13.68 min Scan# 3389

Delta R.T. -0.04 min

Lab File: VL035796.D

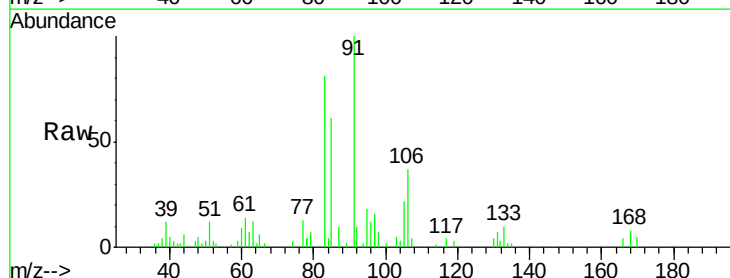
Acq: 19 Oct 2020 16:19

Tgt Ion: 91 Resp: 25161

Ion Ratio Lower Upper

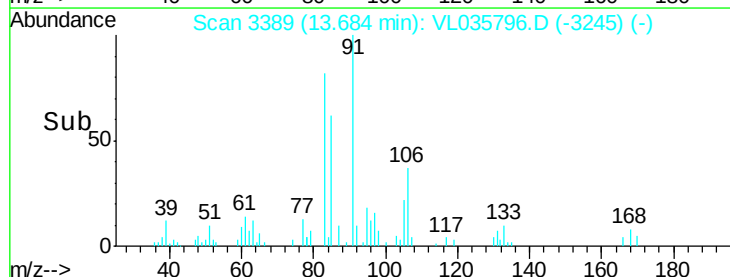
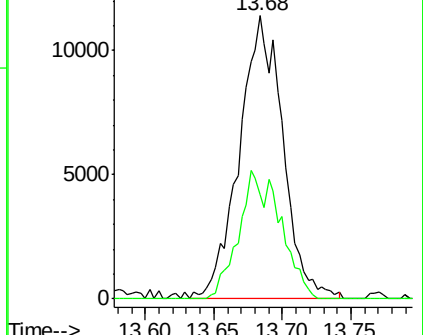
91 100

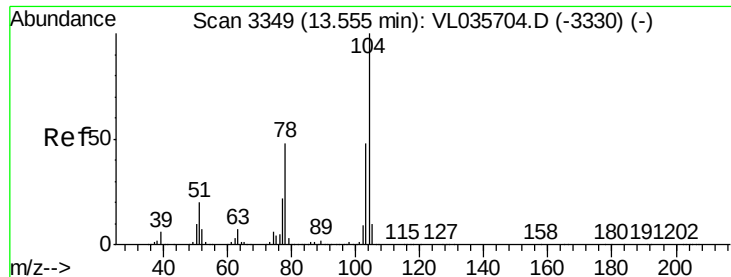
106 43.3 25.0 75.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 0.046 ppbv m

RT: 13.52 min Scan# 3337

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

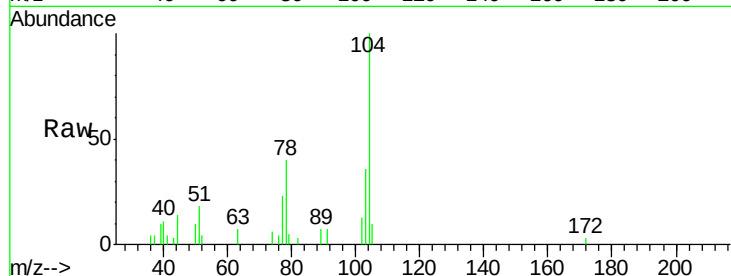
Tot Ion:104 Resp: 11272

Ion Ratio Lower Upper

104 100

78 0.0 37.2 55.8#

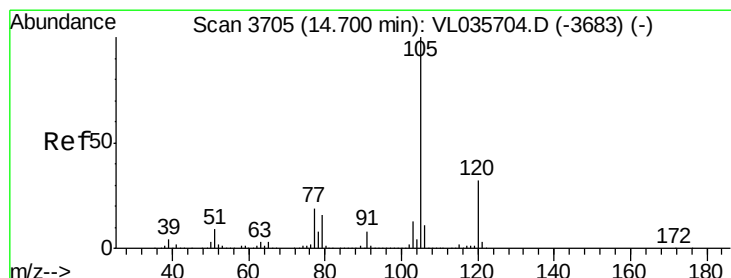
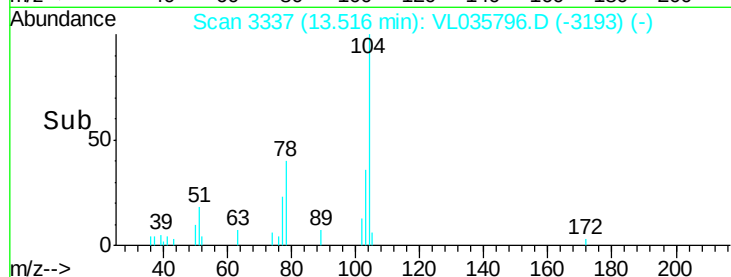
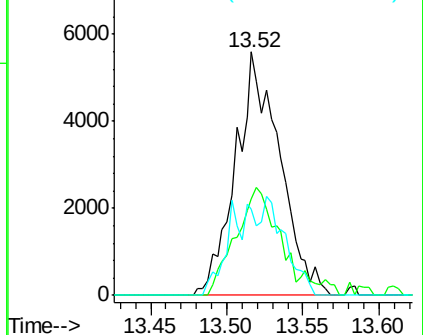
103 0.0 38.2 57.2#



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: 0.063 ppbv

RT: 14.66 min Scan# 3693

Delta R.T. -0.04 min

Lab File: VL035796.D

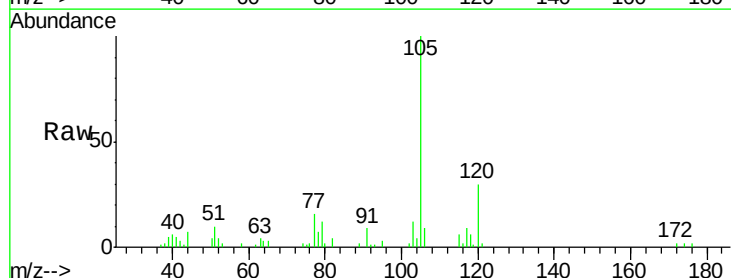
Acq: 19 Oct 2020 16:19

Tgt Ion:105 Resp: 34225

Ion Ratio Lower Upper

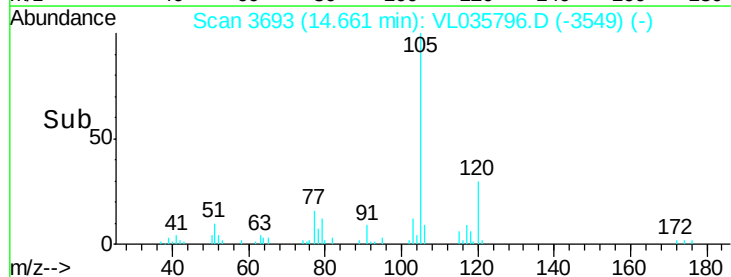
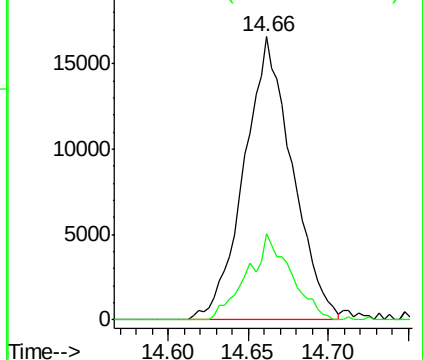
105 100

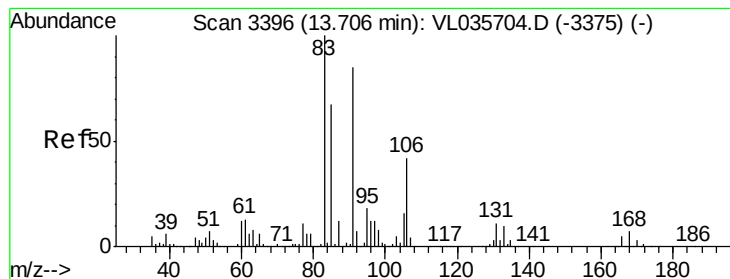
120 27.6 24.1 36.1



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: 0.112 ppbv

RT: 13.67 min Scan# 3384

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

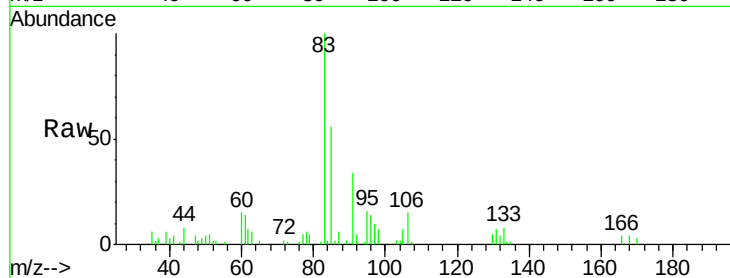
Tot Ion: 83 Resp: 32300

Ion Ratio Lower Upper

83 100

131 10.5 5.3 16.1

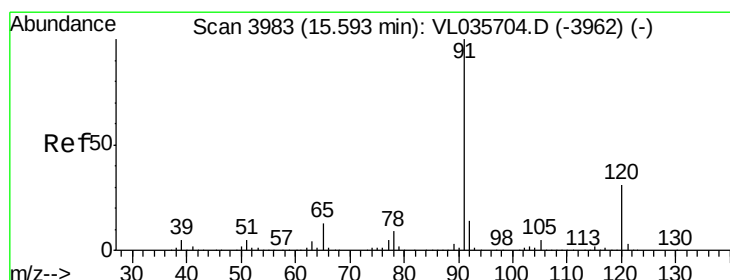
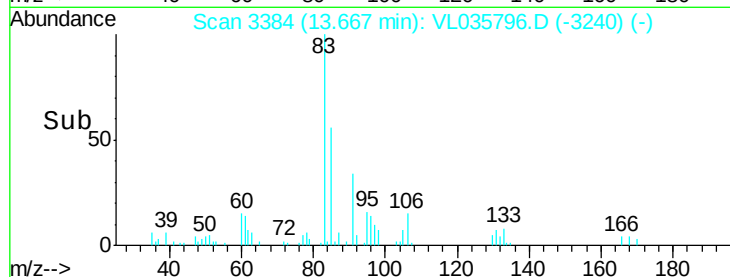
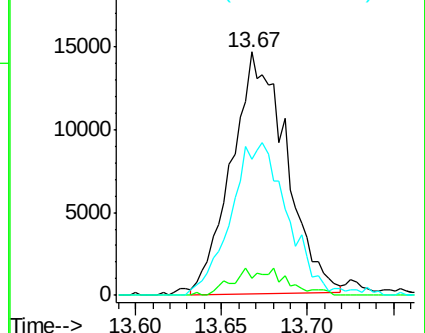
85 66.2 33.4 100.2



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.044 ppbv m

RT: 15.56 min Scan# 3973

Delta R.T. -0.03 min

Lab File: VL035796.D

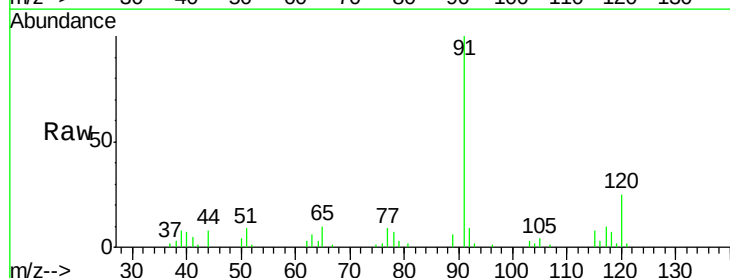
Acq: 19 Oct 2020 16:19

Tgt Ion: 120 Resp: 7030

Ion Ratio Lower Upper

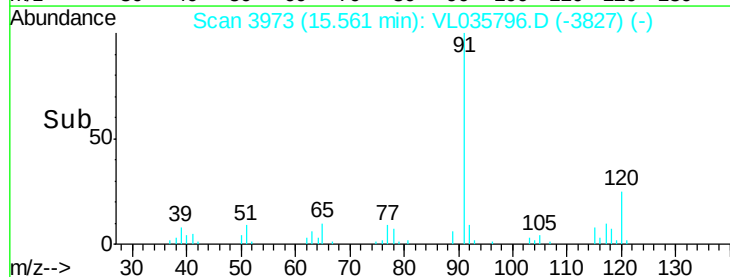
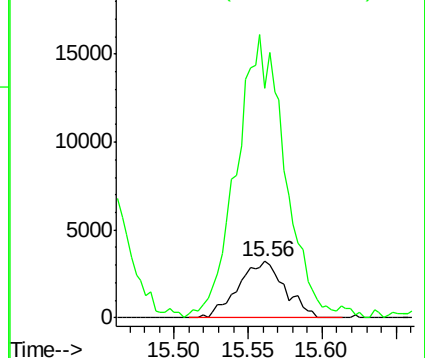
120 100

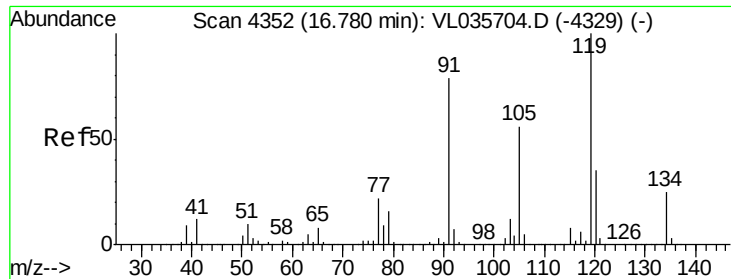
91 531.9 300.4 450.6#



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

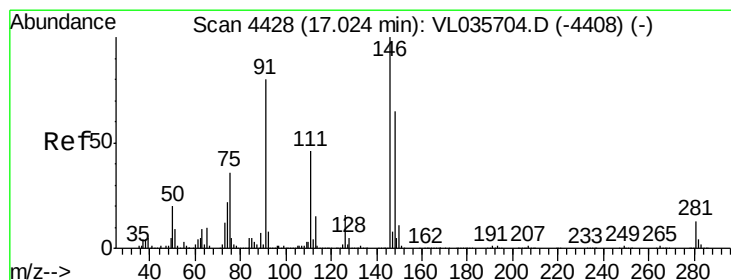
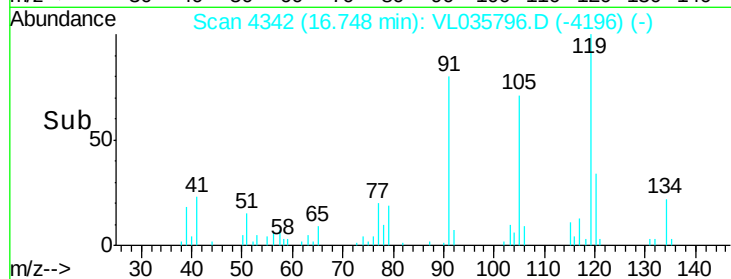
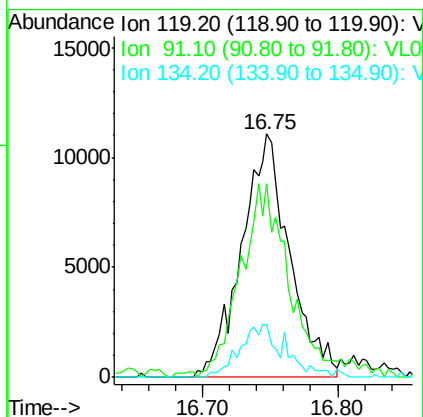
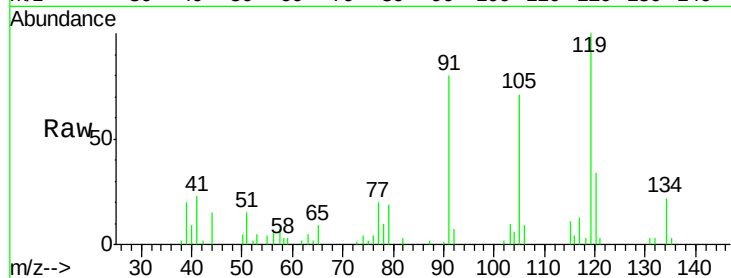




#65
 tert-Butylbenzene
 Concen: 0.055 ppbv m
 RT: 16.75 min Scan# 4342
 Delta R.T. -0.03 min
 Lab File: VL035796.D
 Acq: 19 Oct 2020 16:19

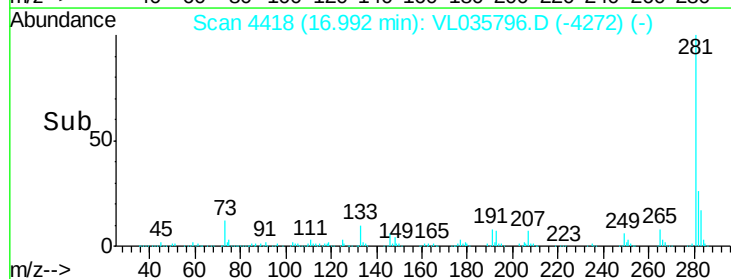
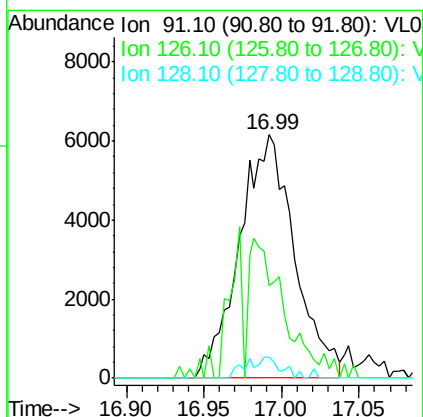
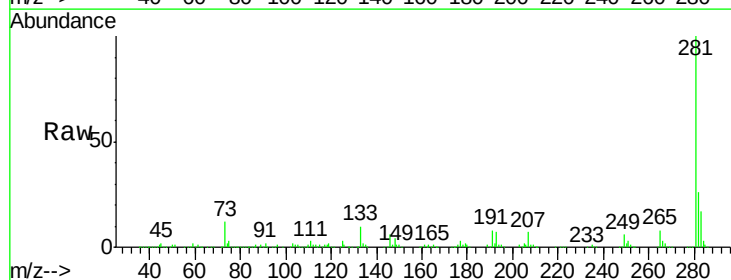
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT4-2020

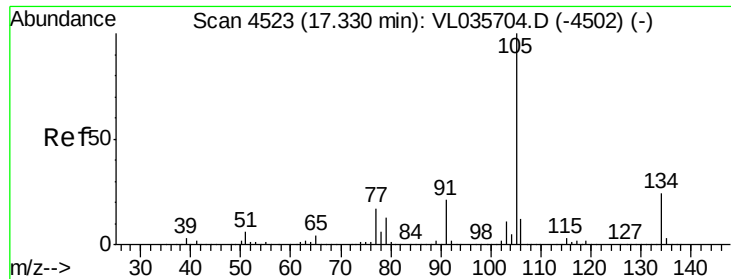
Tot Ion: 119 Resp: 27302
 Ion Ratio Lower Upper
 119 100
 91 0.0 62.4 93.6#
 134 0.0 18.2 27.2#



#66
 Benzyl Chloride
 Concen: 0.101 ppbv m
 RT: 16.99 min Scan# 4418
 Delta R.T. -0.03 min
 Lab File: VL035796.D
 Acq: 19 Oct 2020 16:19

Tgt Ion: 91 Resp: 15157
 Ion Ratio Lower Upper
 91 100
 126 53.1 15.3 22.9#
 128 0.0 5.0 7.4#





#67

sec-Butylbenzene

Concen: 0.053 ppbv m

RT: 17.29 min Scan# 4512

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

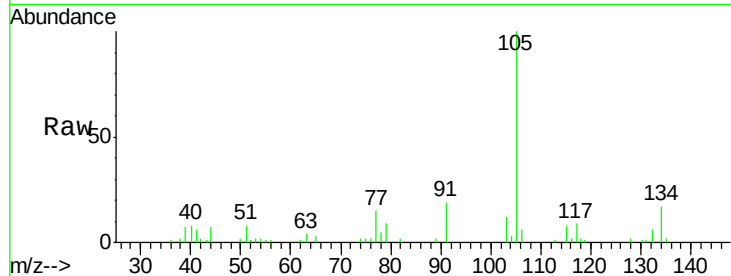
MDL-AIR-01-QT4-2020

Tot Ion:105 Resp: 36289

Ion Ratio Lower Upper

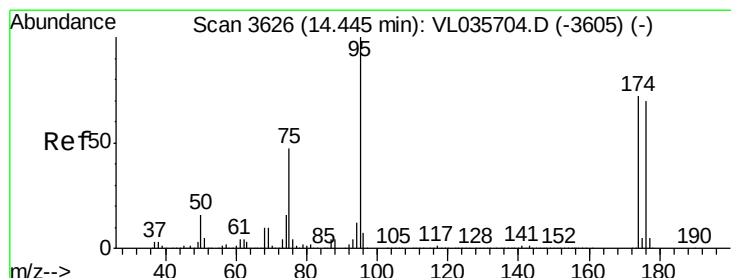
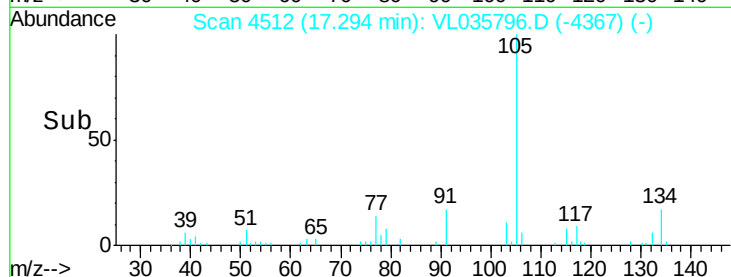
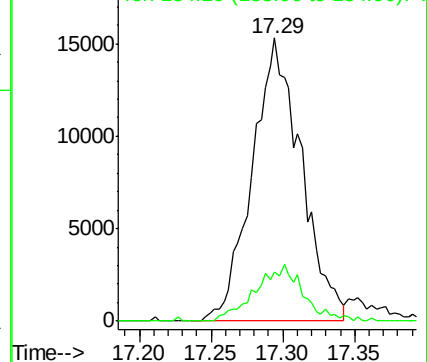
105 100

134 19.5 17.6 26.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.061 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

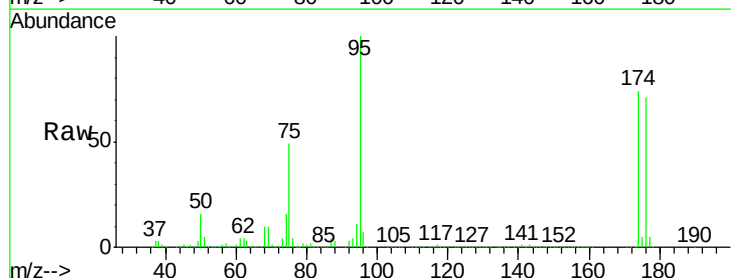
Tgt Ion: 95 Resp: 2982599

Ion Ratio Lower Upper

95 100

174 75.1 59.6 89.4

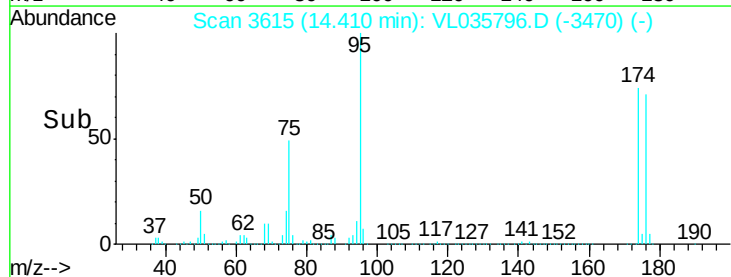
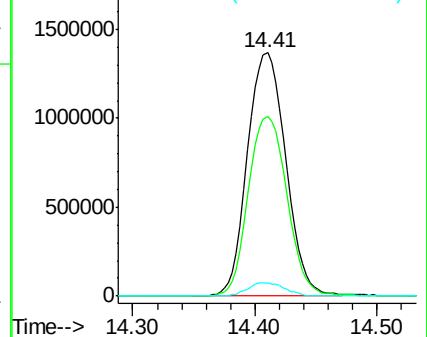
175 5.4 4.2 6.4

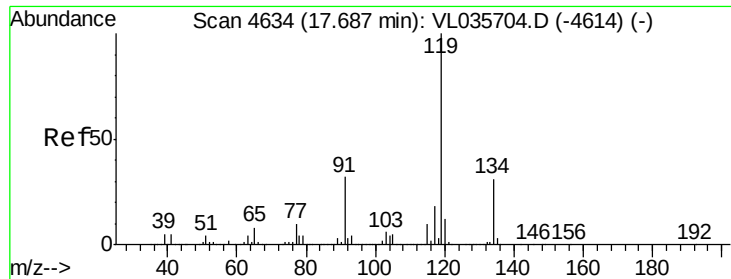


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 0.045 ppbv m

RT: 17.66 min Scan# 4625

Delta R.T. -0.03 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

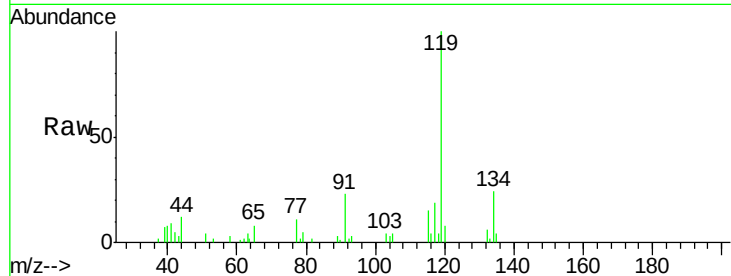
Tot Ion:119 Resp: 25146

Ion Ratio Lower Upper

119 100

134 0.0 23.9 35.9#

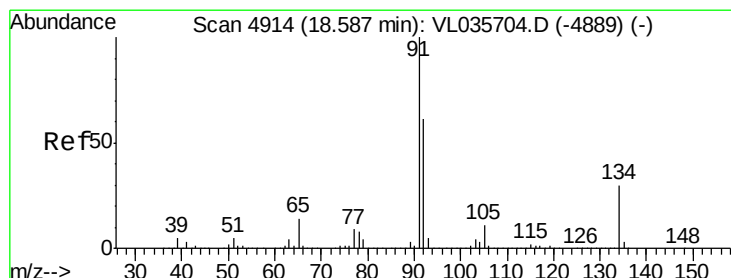
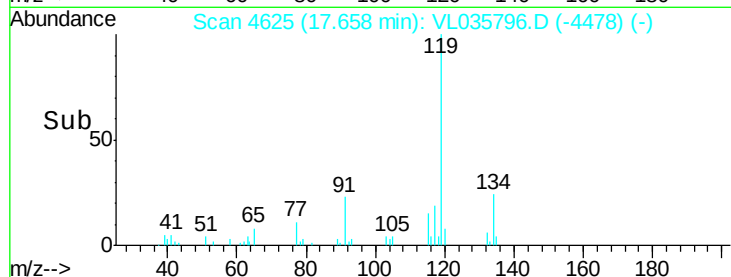
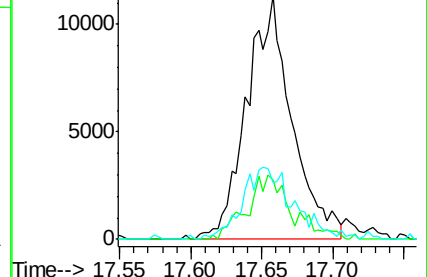
91 34.1 23.8 35.6



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 0.053 ppbv m

RT: 18.55 min Scan# 4903

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

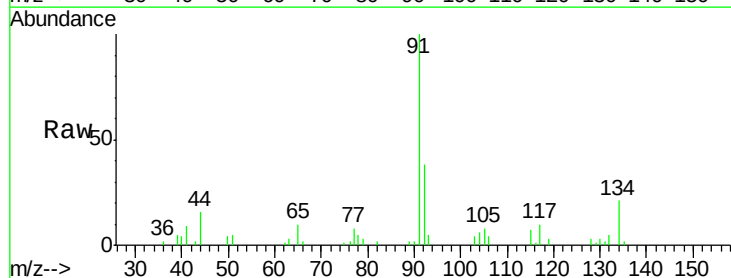
Tgt Ion: 91 Resp: 30273

Ion Ratio Lower Upper

91 100

92 49.0 47.0 70.4

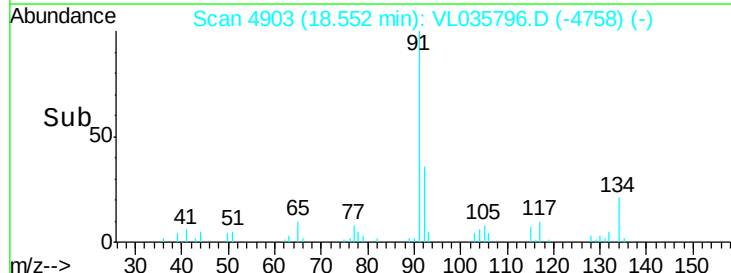
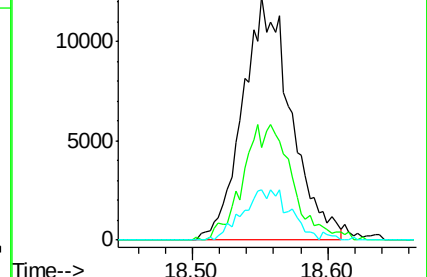
134 0.0 21.9 32.9#

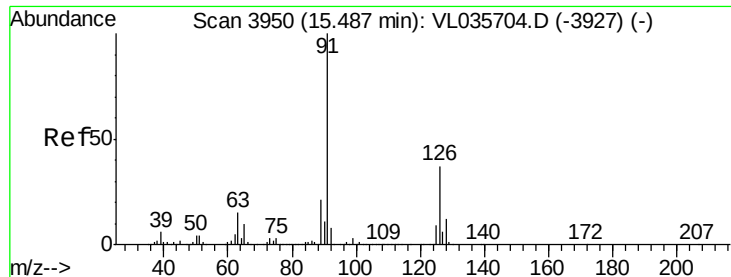


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 0.063 ppbv m

RT: 15.45 min Scan# 3939

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

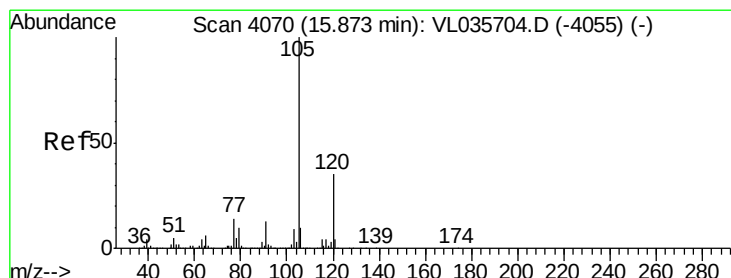
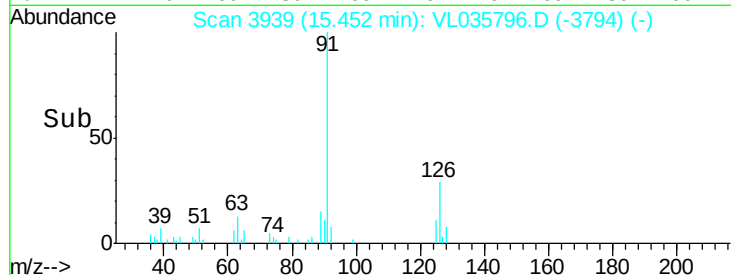
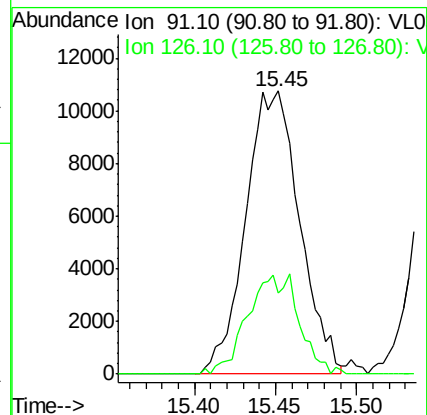
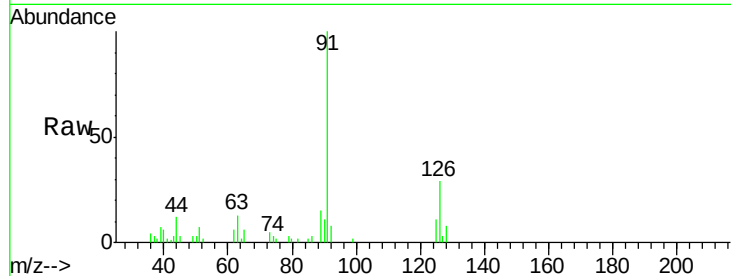
MDL-AIR-01-QT4-2020

Tot Ion: 91 Resp: 24827

Ion Ratio Lower Upper

91 100

126 0.0 14.4 57.4#



#72

4-Ethyltoluene

Concen: 0.048 ppbv m

RT: 15.83 min Scan# 4057

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Tgt Ion: 105 Resp: 20065

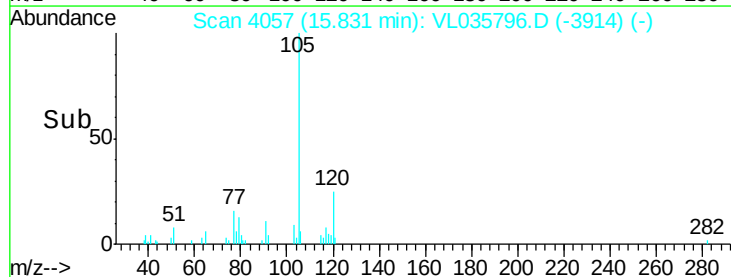
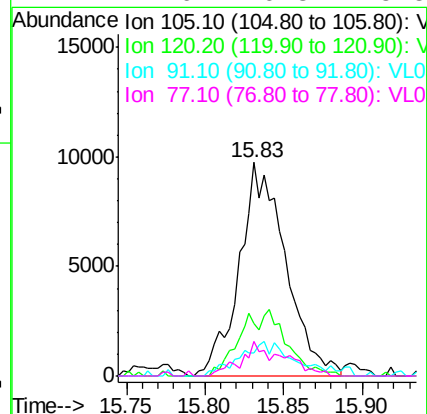
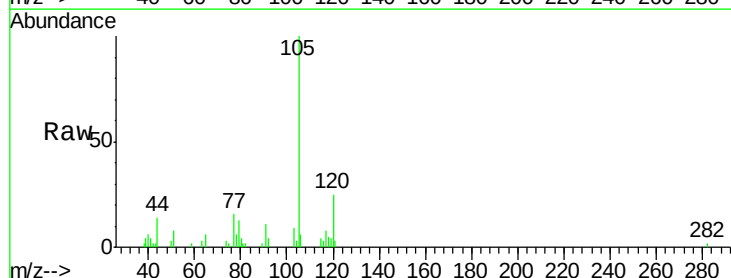
Ion Ratio Lower Upper

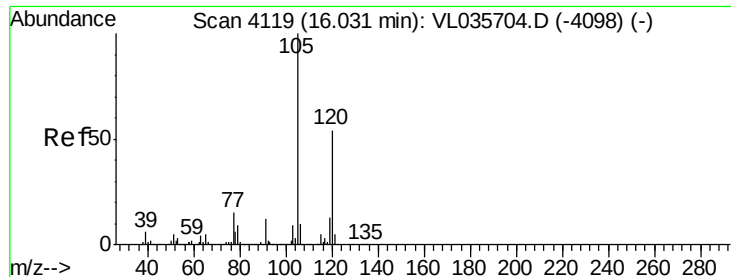
105 100

120 0.0 26.5 39.7#

91 0.0 10.2 15.2#

77 14.6 10.3 15.5



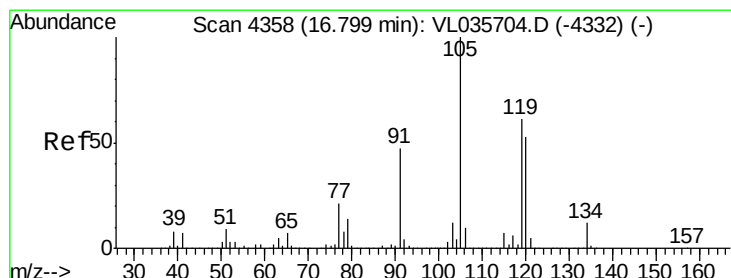
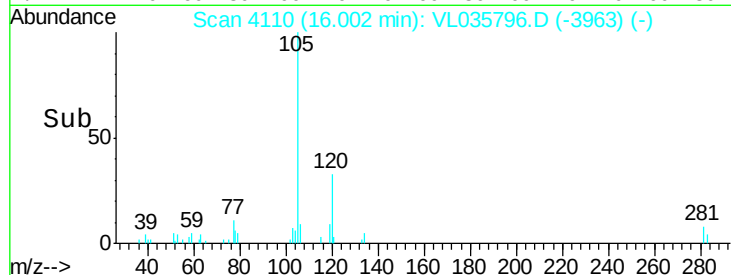
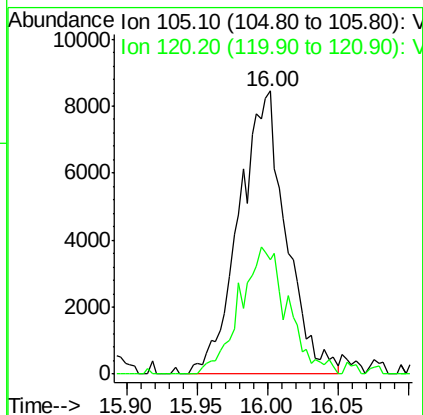
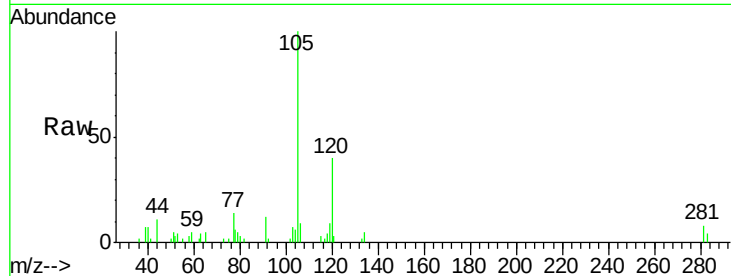


#73

1,3,5-Trimethylbenzene
Concen: 0.050 ppbv m
RT: 16.00 min Scan# 4110
Delta R.T. -0.03 min
Lab File: VL035796.D
Acq: 19 Oct 2020 16:19

Instrument :
MSVOA_L
ClientSampleId :
MDL-AIR-01-QT4-2020

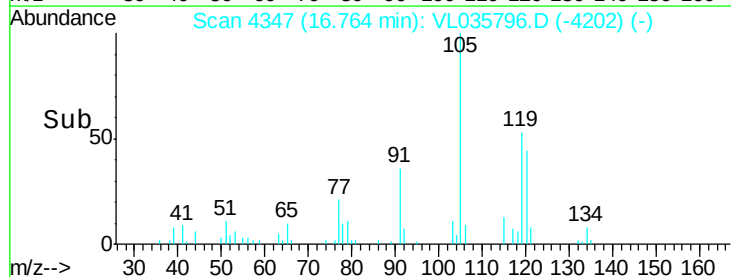
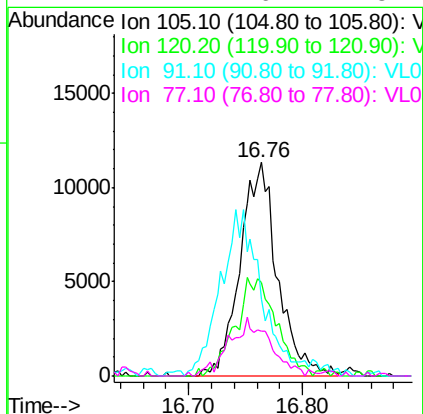
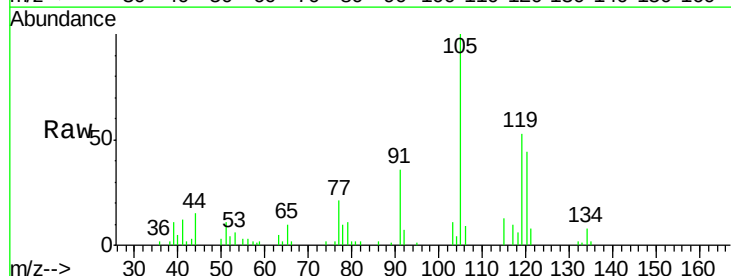
Tot Ion:105 Resp: 19661
Ion Ratio Lower Upper
105 100
120 40.4 43.0 64.4#

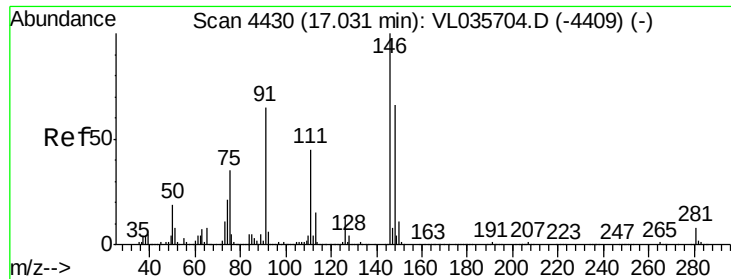


#74

1,2,4-Trimethylbenzene
Concen: 0.058 ppbv m
RT: 16.76 min Scan# 4347
Delta R.T. -0.04 min
Lab File: VL035796.D
Acq: 19 Oct 2020 16:19

Tgt Ion:105 Resp: 25792
Ion Ratio Lower Upper
105 100
120 43.7 42.5 63.7
91 35.7 37.7 56.5#
77 21.1 16.7 25.1

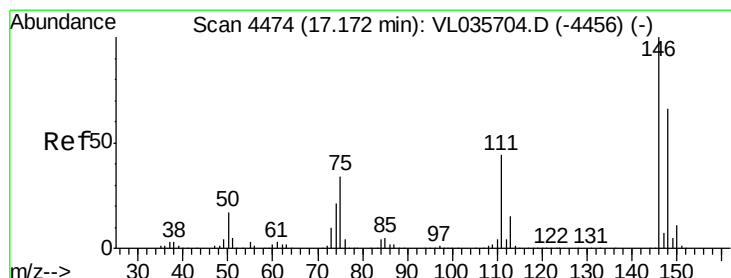
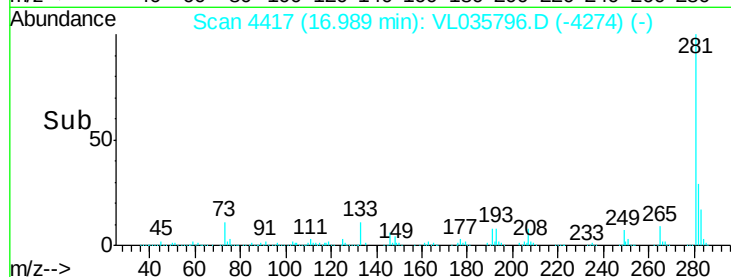
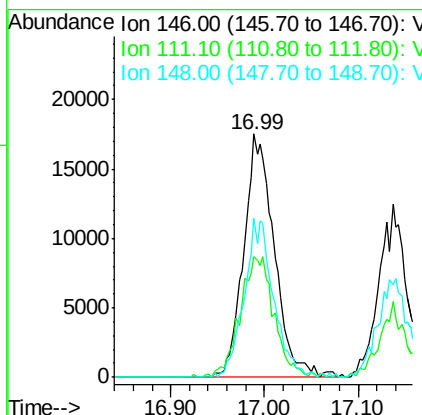
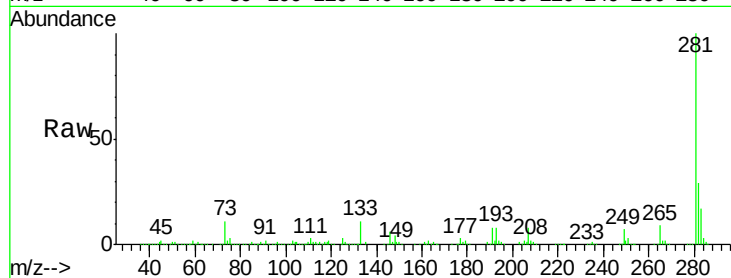




#75
 1,3-Dichlorobenzene
 Concen: 0.132 ppbv m
 RT: 16.99 min Scan# 4417
 Delta R.T. -0.04 min
 Lab File: VL035796.D
 Acq: 19 Oct 2020 16:19

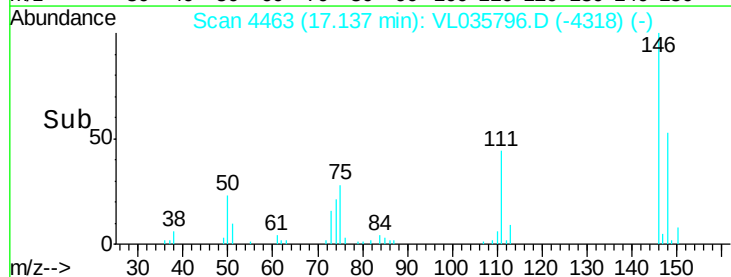
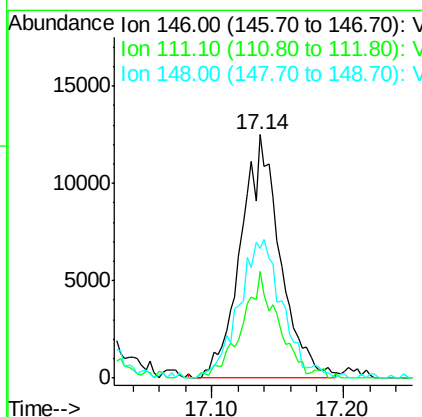
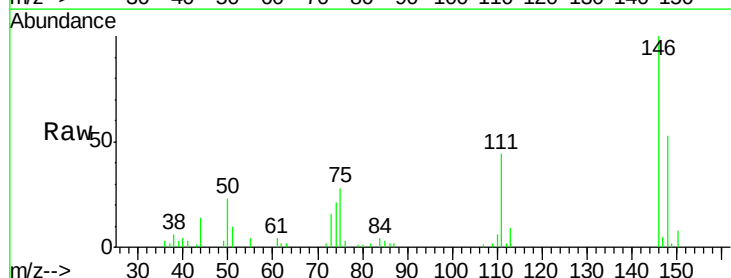
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-AIR-01-QT4-2020

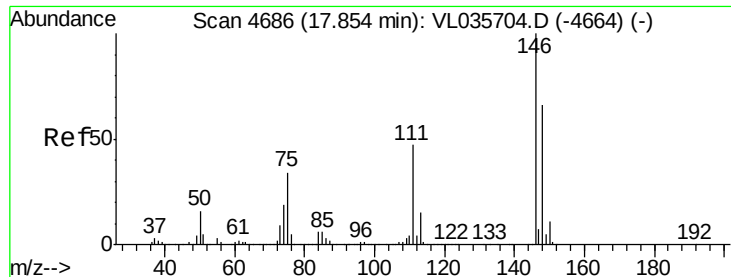
Tot Ion:146 Resp: 39787
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.4 67.0#
 148 62.7 33.0 99.0



#76
 1,4-Dichlorobenzene
 Concen: 0.090 ppbv m
 RT: 17.14 min Scan# 4463
 Delta R.T. -0.04 min
 Lab File: VL035796.D
 Acq: 19 Oct 2020 16:19

Tgt Ion:146 Resp: 26041
 Ion Ratio Lower Upper
 146 100
 111 0.0 21.4 64.3#
 148 0.0 32.6 98.0#





#77

1,2-Dichlorobenzene

Concen: 0.080 ppbv m

RT: 17.82 min Scan# 4674

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

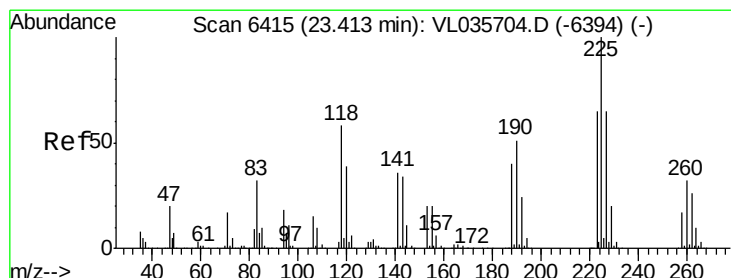
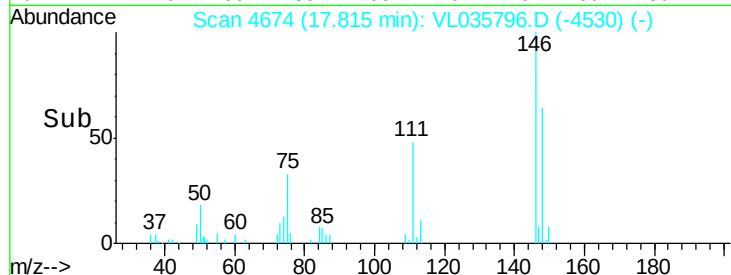
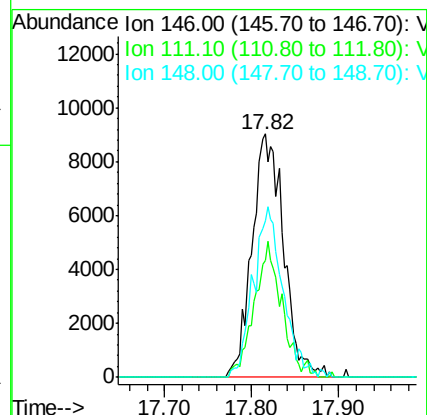
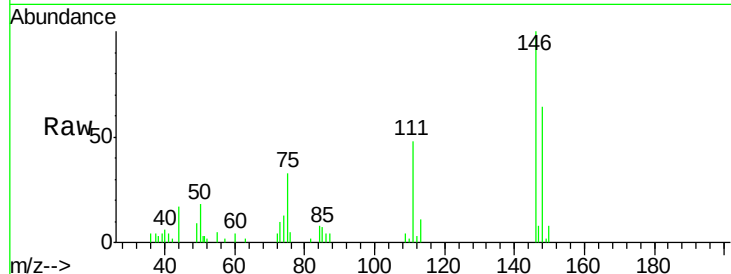
Tot Ion:146 Resp: 22705

Ion Ratio Lower Upper

146 100

111 0.0 22.9 68.5#

148 0.0 32.6 98.0#



#78

Hexachloro-1,3-Butadiene

Concen: 0.110 ppbv m

RT: 23.38 min Scan# 6405

Delta R.T. -0.03 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

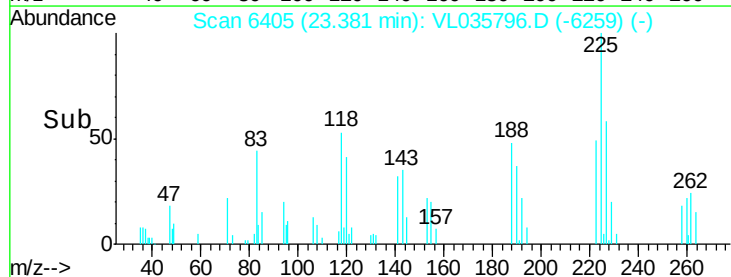
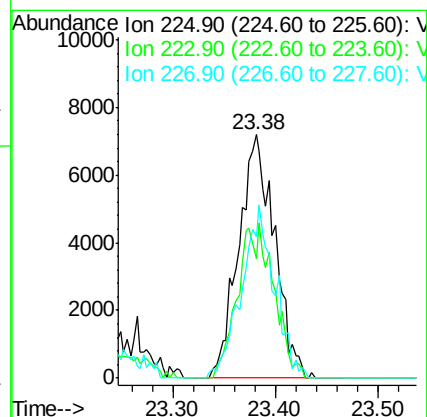
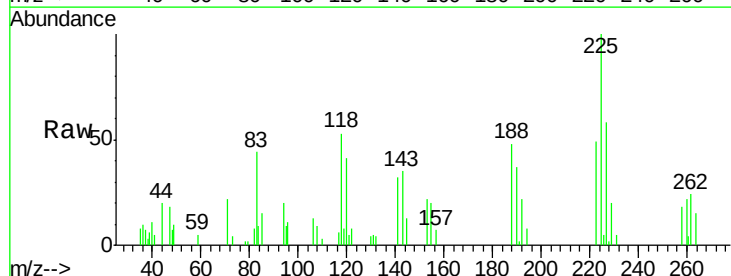
Tgt Ion:225 Resp: 17350

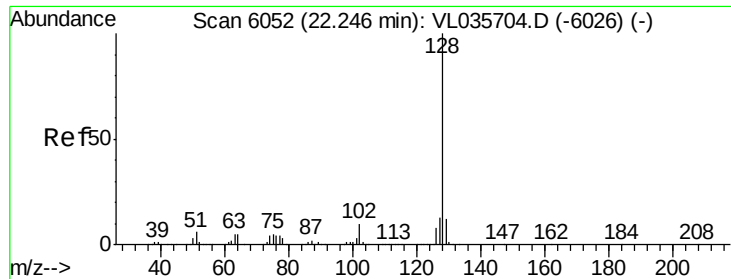
Ion Ratio Lower Upper

225 100

223 0.0 51.3 76.9#

227 0.0 51.6 77.4#





#79

Naphthalene

Concen: 0.049 ppbv m

RT: 22.21 min Scan# 6041

Delta R.T. -0.04 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

Instrument :

MSVOA_L

ClientSampleId :

MDL-AIR-01-QT4-2020

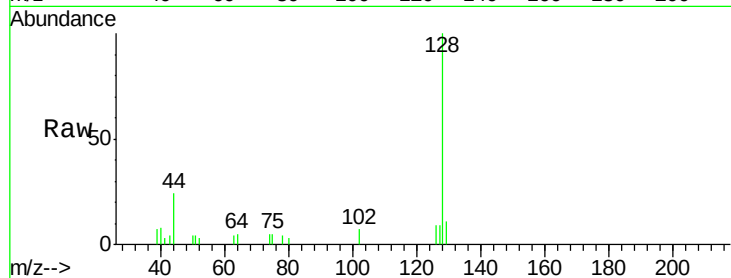
Tot Ion:128 Resp: 20776

Ion Ratio Lower Upper

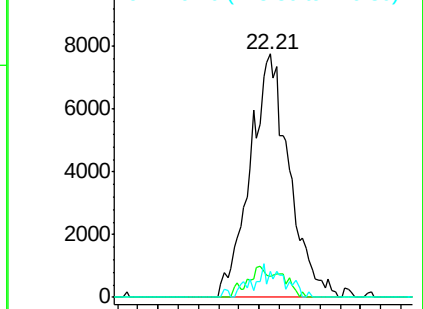
128 100

127 8.5 10.6 15.8#

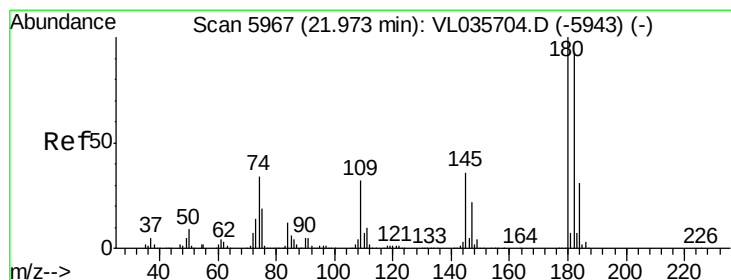
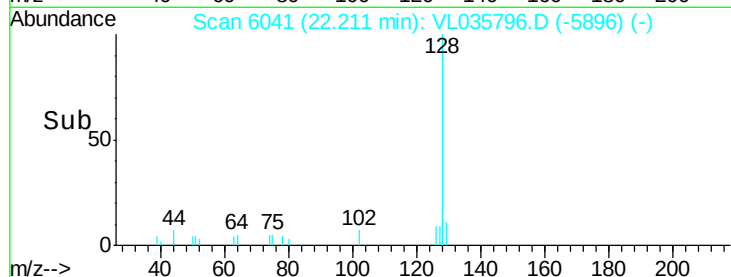
129 10.6 9.4 14.0



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



Time-->



#81

1,2,4-Trichlorobenzene

Concen: 0.071 ppbv m

RT: 21.94 min Scan# 5958

Delta R.T. -0.03 min

Lab File: VL035796.D

Acq: 19 Oct 2020 16:19

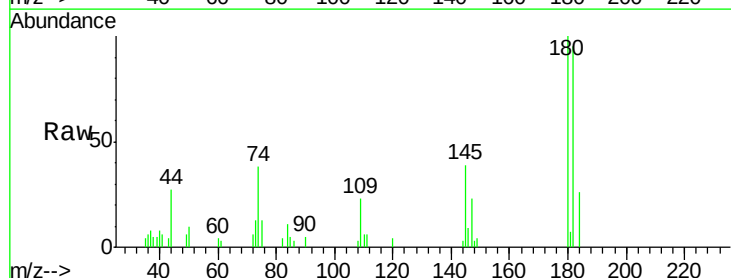
Tgt Ion:180 Resp: 15567

Ion Ratio Lower Upper

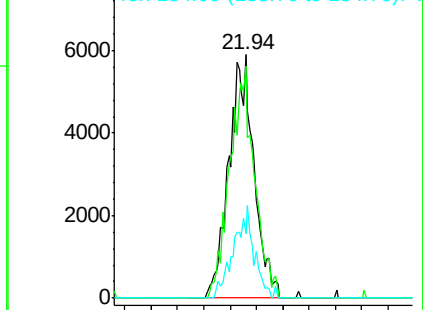
180 100

182 0.0 76.2 114.2#

184 0.0 24.6 37.0#



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 184.00 (183.70 to 184.70): V



Time-->

