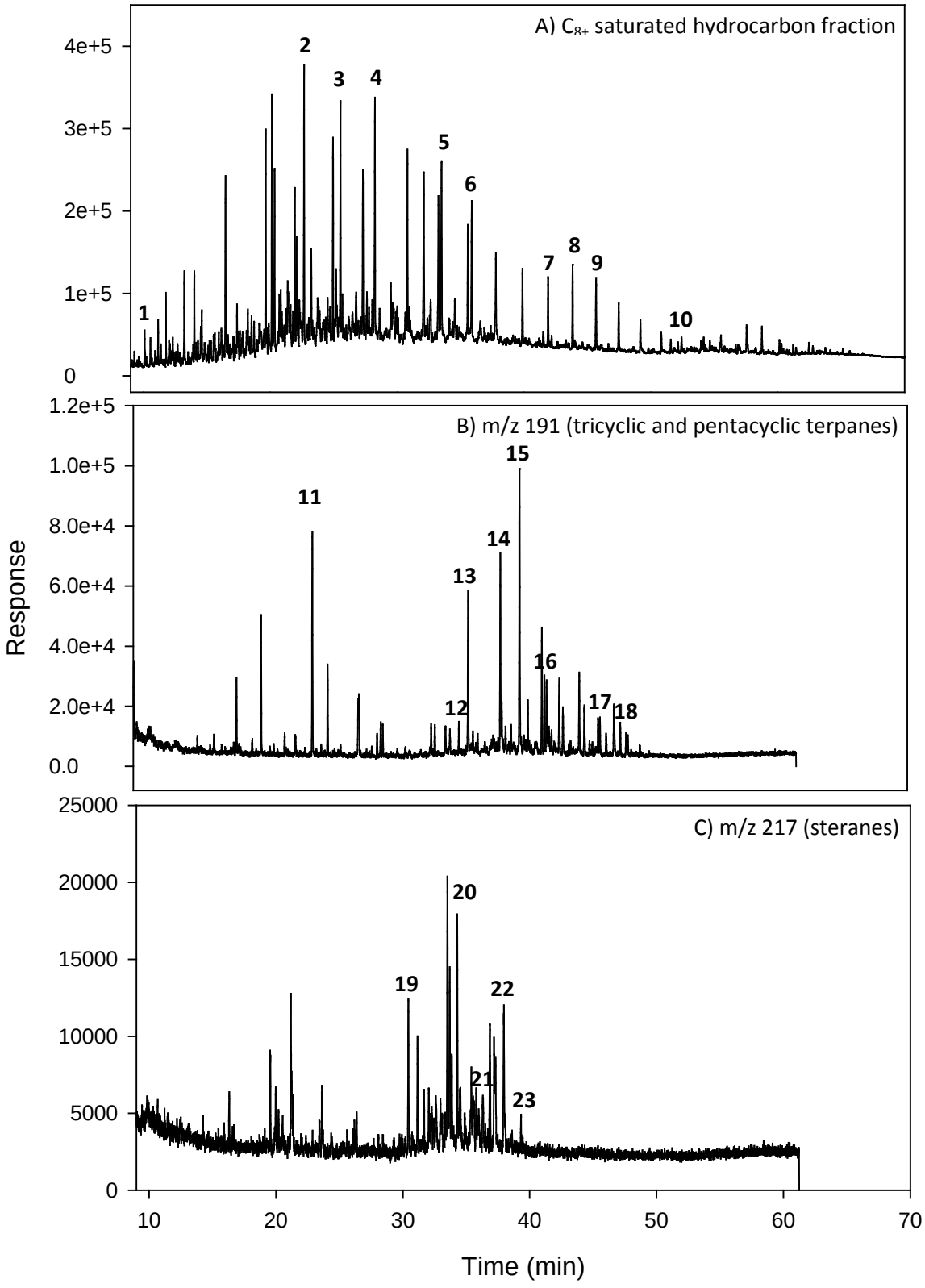
Appendix 3. Gas chromatograms from Heath oil shale interval source extracts (samples HP2-242.9, BN Coastal-4536, and HP3-272.5). A) Gas chromatogram of the C_{8+} saturated hydrocarbon fraction; B) mass fragmentograms of m/z 191 (tricyclic and pentacyclic terpanes); and C) mass fragmentograms of m/z 217 (steranes). Peaks: 1, *n*-C_9; 2, *n*-C_{13}; 3, *n*-C_{14}; 4, *n*-$C_{15;}$ 5, *i*-C_{19} (pristane); 6, *i*-C_{20} (phytane); 7, *n*-C_{21}; 8, *n*-C_{22}; 9, *n*-C_{23}; 10, *n*-C_{27}; 11, C_{23} Tricyclic terpane; 12, 18α Trisnorneohopane (C_{27} Ts); 13, 17α Trisnorneohopane (C_{27} Tm); 14, Norhopane (C_{29}); 15, Hopane (C_{30}); 16, Gammacerane (C_{30}); 17, C_{34} 22S Homopane; 18, C_{35} 22S Homohopane; 19, C_{27} 20S Ba Diasterane; 20, 5α14α17α 20R Cholestane (C_{27}); 21, 5α14α17α 20R 24-Methylcholestane (C_{28}); 22, 5α14α17α 20R 24-Ethylcholestane (C_{29}); 23, 5α14α17α 20R 24-*n*-propylcholestane (C_{30})

HP2-242.9


A) C8+ saturated hydrocarbon fraction
B) m/z 191 (tricyclic and pentacyclic terpanes)
C) m/z 217 (steranes)
Response
Time (min)
4e+5
3e+5
2e+5
1e+5
0
1.2e+5
1.0e+5
8.0e+4
6.0e+4
4.0e+4
2.0e+4
0.0
25000
20000
15000
10000
5000
0
10
20
30
40
50
60
70
1
2
3
4
5
6
7
8
9
10
11
12
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14
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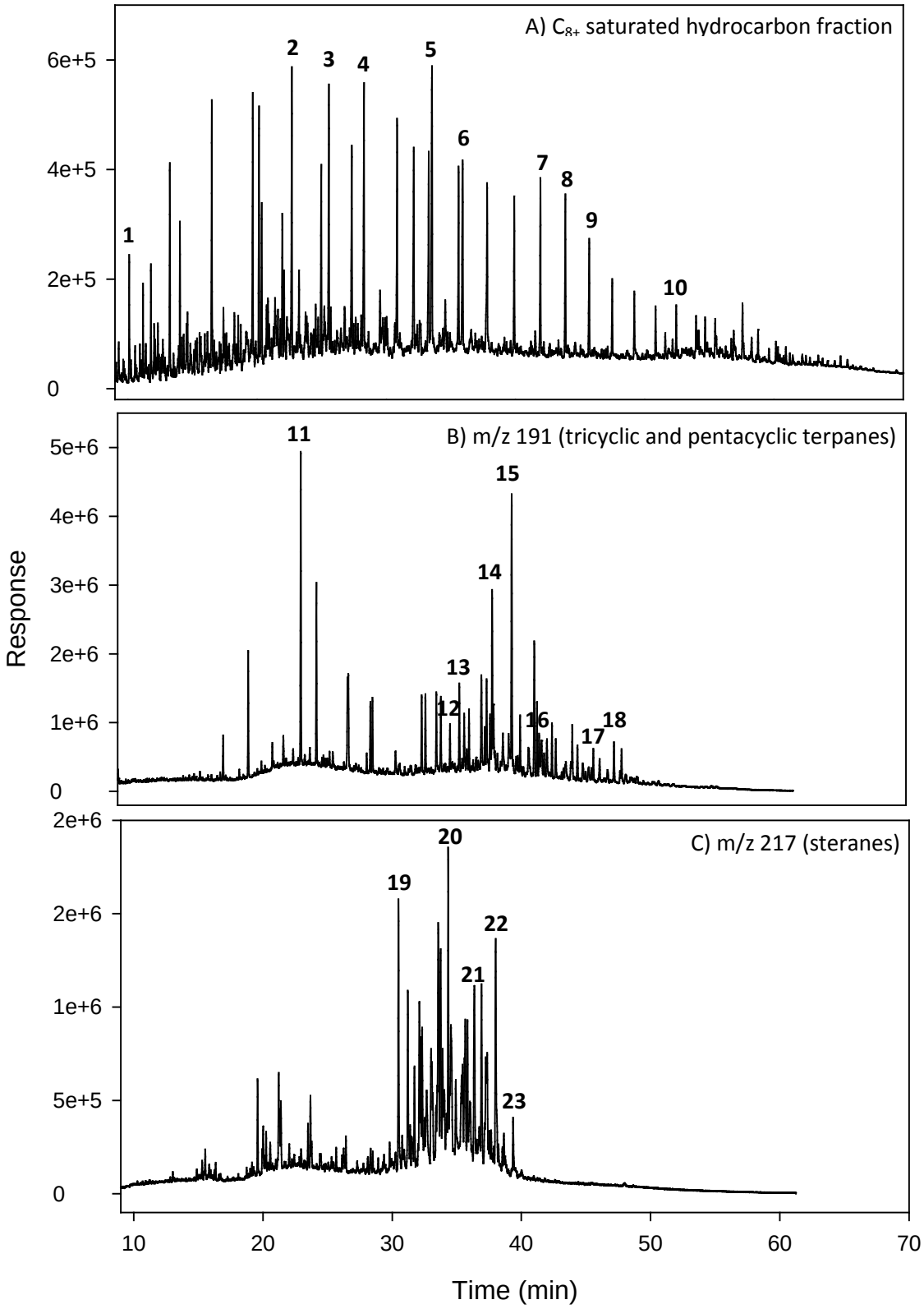
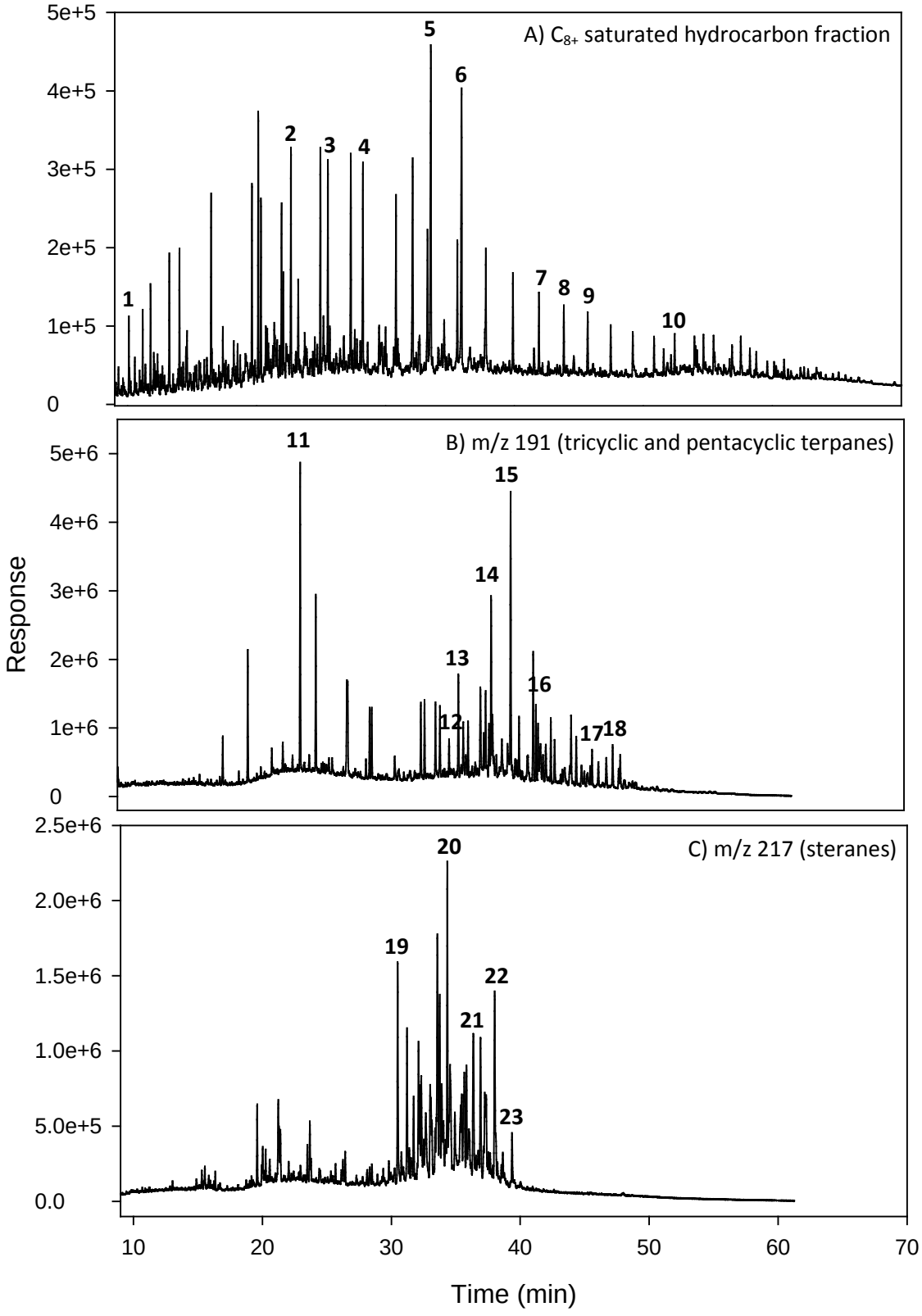
22
23

BN-4536


A) C8+ saturated hydrocarbon fraction
B) m/z 191 (tricyclic and pentacyclic terpanes)
C) m/z 217 (steranes)
Response
Time (min)
6e+5
4e+5
2e+5
0
5e+6
4e+6
3e+6
2e+6
1e+6
0
2e+6
2e+6
1e+6
5e+5
0
10
20
30
40
50
60
70
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23

HP3-272.5


A) C8+ saturated hydrocarbon fraction
B) m/z 191 (tricyclic and pentacyclic terpanes)
C) m/z 217 (steranes)
Response
Time (min)
5e+5
4e+5
3e+5
2e+5
1e+5
0
5e+6
4e+6
3e+6
2e+6
1e+6
2.5e+6
2.0e+6
1.5e+6
1.0e+6
5.0e+5
0.0
10
20
30
40
50
60
70
1
2
3
4
5
6
7
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10
11
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